Prepared for

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2025 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

PLANT HAMMOND ASH POND 1 (AP-1)

Prepared by

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Project Number GW6581E

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CERTIFICATION STATEMENT

This *2025 Annual Groundwater Monitoring and Corrective Action Report, Plant Hammond Ash Pond 1 (AP-1)* has been prepared in compliance with the United States Environmental Protection Agency Coal Combustion Residual Rule (40 Code of Federal Regulations [CFR] 257 Subpart D), specifically § 257.90(e), and the Georgia Environmental Protection Division Rules for Solid Waste Management 391-3-4-.10 by a qualified groundwater scientist or engineer with Geosyntec Consultants, Inc. I hereby certify that I am a qualified groundwater scientist, in accordance with the Georgia Rules of Solid Waste Management 391-3-4-.01.

_____ January 30, 2026

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SUMMARY

This summary of the *2025 Annual Groundwater Monitoring and Corrective Action Report* provides the status of the groundwater monitoring and corrective action program for the reporting period of January through December 2025 (referred to herein as the "annual reporting period") at Georgia Power Company's (Georgia Power's) Plant Hammond Ash Pond 1 (AP-1) (the Site). This summary was prepared by Geosyntec Consultants, Inc. (Geosyntec) on behalf of Georgia Power to meet the requirements listed in Part A, Section 6[1] of the United States Environmental Protection Agency (USEPA) Coal Combustion Residual Rule (federal CCR Rule) (40 Code of Federal Regulations [CFR] 257 Subpart D).

Plant Hammond is located at 5963 Alabama Highway SW, approximately 10 miles west of Rome in Floyd County, Georgia. CCR material resulting from power generation were historically transferred and stored in AP-1 until 1969. After 1969, AP-1 was utilized as a co-treatment pond to handle return water flows from the other ponds and for recycling of process water for plant operations. The Site is located on the southeastern portion of the Plant Hammond property. The Georgia Environmental Protection Division (GA EPD) approved closure permit no. 057-023D(CCR) for AP-1 on June 22, 2020. CCR removal activities are complete, and a certification was submitted to GA EPD on September 26, 2025. On November 26, 2025, GA EPD acknowledged that removal activities within the identified boundaries of AP-1 are complete.

Plant Hammond and the Site

Groundwater at the Site is monitored using a comprehensive monitoring network that meets federal and state monitoring requirements. Routine sampling and reporting began after the background groundwater conditions were established between May 2016 and May 2017. Based on groundwater conditions at the Site, an assessment monitoring program and assessment of corrective measures program were established in January 2018 and January 2019, respectively. A *Draft Remedy Selection Report*, which summarizes the evaluation and proposed selection of a corrective measure, or measures, was submitted to GA EPD on August 31, 2022. In June 2023 and March 2024, Georgia

[1] 80 FR 21468, Apr. 17, 2015, as amended at 81 FR 51807, Aug. 5, 2016; 83 FR 36452, July 30, 2018; 85 FR 53561, Aug. 28, 2020

Power submitted to GA EPD both a Pilot Test Notification Form and separate workplans outlining the design and implementation of a pilot study in vicinity of HGWC-8 and HGWC-13 (Geosyntec, 2023a, 2023b, 2024b, 2024c). GA EPD's Underground Injection Control (UIC) Program approved the Pilot Test Notification Forms on August 24, 2023 and June 21, 2024. Pilot study injection activities were initiated in September 2023 and concluded during the current reporting period. Post-injection performance monitoring was completed in accordance with the *Pilot Study Workplans* and *Supplemental Pilot Study Workplans*. A *Pilot Study Summary Report* is attached summarizing the pilot studies conducted and performance results and was submitted to GA EPD under separate cover on August 29, 2025. On December 2, 2025 GA EPD issued a letter, concurring with the summary report conclusions. On December 19, 2025 Georgia Power submitted a letter to GA EPD proposing to hold a public meeting, in accordance with 40 CFR §257.96(e), during the first quarter of 2026 to present the proposed remedial strategy.

During the annual reporting period, Geosyntec conducted two groundwater sampling events in February and August 2025 in support of the assessment monitoring program. Groundwater samples were submitted to Pace Analytical Services, LLC, for analysis. Per the federal CCR Rule, groundwater data from the two semiannual assessment monitoring events conducted during the annual reporting period were evaluated in accordance with the certified statistical methods. The evaluations identified statistically significant values of select Appendix III[2] and Appendix IV[3] constituents in excess of established groundwater protection standards (GWPS) in select monitoring wells, as summarized in the table below for the semiannual reporting period.

Appendix III Constituent	**February 2025**	**August 2025**
Boron	HGWC-7, HGWC-8, HGWC-9, HGWC-11, HGWC-12, HGWC-13	HGWC-7, HGWC-8, HGWC-9, HGWC-12, HGWC-13
Calcium	HGWC-9, HGWC-12	--
Chloride	HGWC-9	HGWC-9
Sulfate	HGWC-7, HGWC-8, HGWC-9, HGWC-11, HGWC-12, HGWC-13	HGWC-7, HGWC-9, HGWC-11, HGWC-12, HGWC-13
Appendix IV Constituent[4]	**February 2025**	**August 2025**
Arsenic	HGWC-13	HGWC-13
Molybdenum	HGWC-8	HGWC-8

[2] Boron, calcium, chloride, fluoride, pH, sulfate, and total dissolved solids
[3] Antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, fluoride, lead, lithium, mercury, molybdenum, selenium, thallium, and radium 226 + 228
[4] A statistically significant level (SSL)-related constituent is determined by comparing the confidence intervals developed to either the constituent's MCL, if available; where an MCL has not been established, then a CCR-rule specific GWPS; or background concentrations for constituents where the concentration is greater than the MCL or rule specified GWPS.

Based on a review of the Appendix III and Appendix IV statistical results completed for the groundwater monitoring and corrective action program for the annual reporting period, the Site will continue in assessment monitoring. Georgia Power will continue routine groundwater monitoring and reporting at the Site. Reports will be posted to Georgia Power's CCR Rule Compliance website and provided to GA EPD annually.

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LIST OF ACRONYMS AND ABBREVIATIONS

ACM	Assessment of Corrective Measures
AP-1	Ash Pond 1
ASD	Alternate Source Demonstration
CCR	coal combustion residuals
CFR	Code of Federal Regulations
DO	dissolved oxygen
EDR	Environmental Data Resources
$FeSO_4$	ferrous sulfate
ft/day	feet per day
ft/ft	feet per foot
g/L	grams per liter
gal	gallons
GA-20	Georgia Highway 20
GA EPD	Georgia Environmental Protection Division
Georgia Power	Georgia Power Company
Geosyntec	Geosyntec Consultants, Inc.
GSC	Groundwater Stats Consulting
GWPS	groundwater protection standard
HAR	Hydrogeologic Assessment Report
i	horizontal hydraulic gradient
K_h	horizontal hydraulic conductivity
MCL	Maximum Contaminant Level
mg/L	milligram per liter
MgO	magnesium oxide
MNA	Monitored Natural Attenuation
n_e	effective porosity
NELAP	National Environmental Laboratory Accreditation Program
NTU	nephelometric turbidity units
ORP	oxidation reduction potential
Pace Analytical	Pace Analytical Services, LLC.
PE	professional engineer
PL	prediction limit
QA/QC	Quality Assurance/Quality Control
SSI	statistically significant increase
SSL	statistically significant level
s.u.	standard unit
Unified Guidance	Statistical Analysis of Groundwater Data at RCRA Facilities Unified Guidance
USEPA	United States Environmental Protection Agency

1.0 INTRODUCTION

In accordance with the United States Environmental Protection Agency (USEPA) Coal Combustion Residual Rule (federal CCR Rule) (40 Code of Federal Regulations [CFR] Part 257, Subpart D) and the Georgia Environmental Protection Division (GA EPD) Rules for Solid Waste Management 391-3-4-.10, Geosyntec Consultants, Inc. (Geosyntec) has prepared this *2025 Annual Groundwater Monitoring and Corrective Action Report* to document groundwater monitoring activities conducted at Georgia Power Company (Georgia Power) Plant Hammond (Site) Ash Pond 1 (AP-1) for the reporting period of January through December 2025 (referred to herein as the annual reporting period).

Groundwater monitoring and reporting for the CCR unit is performed in accordance with the monitoring requirements of § 257.90 through 257.95 of the federal CCR Rule, and GA EPD Rules for Solid Waste Management 391-3-4-.10(6). To specify groundwater monitoring requirements, GA EPD rule 391-3-4-.10(6)(a) incorporates by reference the federal CCR Rule. For ease of reference, the federal CCR Rule is cited within this report in lieu of citing both sets of regulations. Also, the closure permit issued by GA EPD (i.e., no. 057-023D(CCR)) stipulates that groundwater monitoring is required while CCR waste remains in place at the CCR unit and for no less than 5 years after removal of the material.

Due to statistically significant levels (SSLs) of arsenic and molybdenum identified in the *2018 Annual Groundwater Monitoring and Corrective Action Report* (Geosyntec, 2019a), Georgia Power initiated an assessment of corrective measures (ACM) program for AP-1 in January 2019. Pursuant to § 257.96(b), Georgia Power continues to monitor groundwater associated with AP-1 in accordance with the assessment monitoring program established for the unit, including semiannual monitoring and reporting pursuant to § 257.90 through § 257.95 of the federal CCR Rule and GA EPD Rules for Solid Waste Management 391-3-4-.10(6)(a). A *Draft Remedy Selection Report,* which summarizes the evaluation and proposed selection of a corrective measure, or measures, was submitted to GA EPD on August 31, 2022, (Geosyntec, 2022a).

A *Pilot Study Summary Report* summarizing the pilot studies conducted and performance results was submitted to GA EPD under separate cover on August 29, 2025. On December 2, 2025 GA EPD issued a letter, concurring with the summary report conclusions. On December 19, 2025 Georgia Power submitted a letter to GA EPD proposing to hold a public meeting, in accordance with 40 CFR §257.96(e), during the first quarter of 2026 to present the proposed remedial strategy.

The current reporting period groundwater data indicate that SSLs for arsenic and molybdenum concentrations are horizontally and vertically delineated to below their corresponding groundwater protection standards (GWPS) and contained within the property boundary.

1.1 Site Description and Background

Plant Hammond is located in Floyd County, Georgia, approximately 10 miles west of Rome and is bordered by Georgia Highway 20 (GA-20) on the north, the Coosa River on the south, Cabin Creek and industrial land on the east, and sparsely populated, forested, rural and industrial land on the west (**Figure 1**). The physical address of the plant is 5963 Alabama Highway, Rome, Georgia, 30165.

Plant Hammond was a four-unit, coal-fired electric generating facility. All four units at Plant Hammond were decommissioned in July 2019 and no longer produce electricity.

AP-1 is a 35-acre surface impoundment located at Plant Hammond that received CCR materials from its commission in 1952 until 1969. After 1969, AP-1 was utilized as a co-treatment pond to handle return water flows from the other ponds and for recycling of process water for plant operations. Georgia Power has completed removal of the CCR material from AP-1 and certification of removal was submitted to GA EPD on September 26, 2025, in accordance with § 257.102 and corresponding Rule 391-3-4-.10(7)(b). On November 26, 2025, GA EPD acknowledged that removal activities within the identified boundaries of AP-1 are complete. The closure by removal approach provides a source control measure that reduces the potential for migration of CCR constituents to groundwater. Details of the closure approach are provided in the Written Closure Plan, published to Georgia Power's CCR Rule Compliance website. Closure permit no. 057-023D(CCR) was approved by GA EPD on June 22, 2020. A 5-year Permit Review document package was submitted to GA EPD on December 18, 2024, and subsequently approved on June 20, 2025.

1.2 Regional Geology and Hydrogeologic Setting

The following section summarizes the geologic and hydrogeologic conditions at AP-1 as described in the *Hydrogeologic Assessment Report Revision 01 – AP-1* (HAR Rev 01) submitted to GA EPD in December 2019 in support of the AP-1 solid waste handling permit (Geosyntec, 2019c).

1.2.1 Regional and Site Geology

The Site is located within the Great Valley District of the Valley and Ridge Physiographic Province (Valley and Ridge) in northwest Georgia. The Valley and Ridge is characterized by Paleozoic sedimentary rocks that have been folded and faulted into the ridges and valleys that gave this region its name. Geologic mapping performed at the Site by Petrologic Solutions, Inc., under the direction of Golder (Golder, 2018), indicates that AP-1 is underlain by the middle units of the Cambrian age Conasauga Formation, consisting of mostly shaley limestone. Subsurface investigations at AP-1 describe the bedrock as limestone or shaley limestone. AP-1 is underlain primarily by five lithologic units: (i) fill; (ii) terrace alluvium; (iii) residuum; (iv) highly weathered/fractured shaley limestone bedrock; and (v) competent shaley limestone bedrock.

Based on subsurface investigations, the fill material is composed of lean clay or gravelly lean clay with sand from the construction of the pond. The terrace alluvium consists of unconsolidated sediments associated with deposition from the Coosa River and Cabin Creek. Alluvium was variously described as well sorted and poorly sorted sand, clayey sand, sandy gravel, clayey gravel, or gravelly clay. The residuum clay layer or native soils have been derived from the in-place weathering of the shaley limestone bedrock. The residuum is generally described as a lean to fat clay, sometimes silty with some sand, and rarely gravel. The subsurface investigation data suggest that the residuum thins out in places, and the alluvial deposits is in direct contact with the upper fractured or the unweathered limestone bedrock. Just below the residuum clay layer is a gradational zone of varying proportions of clayey residuum and sand, gravel, and cobble-sized angular pieces of partially weathered limestone, grading into a zone of fractured shaley limestone, before grading into unweathered, fresh shaley limestone bedrock. The upper highly weathered zone appears more as residuum with various sized rock fragments. The lower zone becomes less clayey with depth and is estimated to be approximately 10 feet thick. The limestone is described as medium to dark gray, very finely laminated with lighter and darker gray layers, and contains interbeds of calcareous shale.

1.2.2 Hydrogeologic Setting

The uppermost aquifer at AP-1 is a regional groundwater aquifer that occurs in the terrace alluvium, residuum, and the weathered and fractured bedrock. The uppermost aquifer is considered to be unconfined; however, localized, semi-confined conditions may be encountered due to the low-permeability clayey nature of the residual soils, or as a result of perched groundwater or poorly interconnected fracture networks in the bedrock. The movement of groundwater in the uppermost aquifer can be characterized as low-to

moderate permeability porous media flow. Groundwater flow in the more competent underlying bedrock is characterized as fracture flow. The regional groundwater flow direction is expected to be from north to south; however, the local flow direction proximal to AP-1 is to both the east and south under current pre-closure conditions. Under post-closure conditions, the groundwater flow direction is anticipated to resemble the regional flow regime more closely (north to south toward the Coosa River).

1.3 Groundwater Monitoring Well Network

In accordance with § 257.91, a groundwater monitoring system was installed at AP-1 that consists of a sufficient number of wells installed at appropriate locations and depths to yield groundwater samples from the uppermost aquifer to represent the groundwater quality both upgradient of the units (i.e., background conditions) and passing the waste boundary of the units. The number, spacing, and depths of the groundwater monitoring wells were selected based on the characterization of site specific hydrogeologic conditions.

As part of the assessment monitoring program, assessment monitoring wells have been installed since 2018 to supplement the pre-existing detection monitoring wells and characterize the nature and extent of SSLs in groundwater downgradient of AP-1. Pursuant to § 257.195(g)(1)(iv), the wells classified as "assessment monitoring wells" will continue to be sampled concurrently with the detection monitoring well network as part of the ongoing assessment groundwater monitoring program.

An on-site network of piezometers is used in combination with the detection and assessment monitoring well networks to gauge water levels to define groundwater flow direction and gradients. The piezometers may be sampled as needed to support the ACM program.

With GA EPD's approval of the 5-year Permit Review on June 10, 2025, seven assessment wells (MW-5, MW-6, MW-7, MW-25D, MW-26D, MW-28D, and MW-29) were reclassified as piezometers for subsequent groundwater sampling events. As a result those wells were not included in the August 2025 sampling event.

The locations of the detection monitoring wells, assessment monitoring wells, and piezometers are shown on **Figure 2**; well and piezometer construction details are listed in **Table 1**.

2.0 GROUNDWATER MONITORING ACTIVITIES

In accordance with § 257.90(e), the following describes monitoring-related activities performed during the annual reporting period and discusses any change in status of the monitoring program. Groundwater sampling was performed in accordance with § 257.93.

2.1 Monitoring Well Installation and Maintenance

No additional detection monitoring wells, assessment wells, or piezometers were installed during this annual reporting period.

The well and piezometer networks are inspected semiannually to evaluate if any repairs or corrective actions are necessary to meet the requirements of the Georgia Water Well Standards Act (O.C.G.A. § 12-5-134(5)(d)(vii)). In February and August 2025, the networks were inspected, necessary corrective actions were identified and subsequently completed, as documented in **Appendix A**. This documentation was prepared under the direction of a professional geologist or engineer registered in the State of Georgia.

2.2 Assessment Monitoring

Georgia Power initiated an assessment monitoring program for groundwater at AP-1 in January 2018 based on statically significant increases (SSIs) of Appendix III constituents documented in the *2017 Annual Groundwater Monitoring and Corrective Action Report* (ERM, 2018). A notice of assessment monitoring was placed in the operating record on May 15, 2018. Currently identified SSLs of Appendix IV constituents exceeding their respective GWPS at AP-1 are arsenic in HGWC-13 and molybdenum in HGWC-8.

Pursuant to § 257.96, an ACM was initiated for AP-1 in January 2019. An *Assessment of Corrective Measures Report – Plant Hammond Ash Pond 1 (AP-1)* (ACM Report) was subsequently prepared for AP-1 (Geosyntec, 2019b) and submitted to GA EPD in June 2019 and posted to Georgia Power's CCR Rule Compliance website in July 2019. A *Draft Remedy Selection Report,* which summarizes the evaluation and proposed selection of a corrective measure, or measures, was submitted to GA EPD on August 31, 2022 (Geosyntec, 2022a). In accordance with § 257.96(b), groundwater continues to be monitored at AP-1 under the assessment monitoring program while the ACM phase is implemented.

In support of the routine assessment monitoring program, the semiannual assessment monitoring events were conducted in February 2025 and August 2025. The wells sampled and the dates the samples were collected at AP-1 during the annual reporting period are summarized in **Table 2**. Details of these events and analytical results are discussed in Section 3.

2.3 Additional Groundwater and Surface Water Evaluations

Groundwater samples were collected from the entire AP-1 detection and assessment well networks during the February 2025 event and were analyzed for major cations, major anions, iron, and manganese. The data were collected in support of evaluating the geochemical composition of the groundwater in conjunction with the ACM activities.

Due to the presence of surface water features immediately downgradient of select wells reporting concentrations of select constituents above the GWPS, Georgia Power proactively collected surface water samples in February and August 2025 from Cabin Creek and Coosa River as shown on **Figure 2** (H-SCC, H-SCC NBR and H+0.25).

The laboratory reports associated with the additional evaluations are provided in **Appendix B**.

2.4 Assessment of Corrective Measures

As presented in the *Draft Remedy Selection Report* (Geosyntec, 2022a), in-situ geochemical injections, coupled with monitored natural attenuation (MNA), have been proposed as corrective measures to address the SSLs of molybdenum and arsenic in detection monitoring wells HGWC-8 and HGWC-13, respectively. Design of in-situ geochemical injection corrective measures includes multiple assessment and design components, including pilot studies to evaluate injection delivery and the performance of injectates prior to implementing a full scale remedy. Following GA EPD approval, Georgia Power initiated a pilot study in vicinity of these wells in September 2023, as detailed in the *HGWC-8 Pilot Study Workplan* (Geosyntec, 2023a) and the *HGWC-13 Pilot Study Workplan* (Geosyntec, 2023b). Supplemental pilot study workplans for HGWC-8 and HGWC-13 were submitted to GA EPD on March 29, 2024 (Geosyntec 2024b, Geosyntec, 2024c), describing the additional injections necessary to inform corrective action design near monitoring wells HGWC-8 and HGWC-13. The supplemental pilot study workplans were approved by GA EPD's Underground Injection Control (UIC) and Solid Waste Management Programs on May 6 and June 21, 2024, respectively.

A post-injection performance monitoring program was initiated in October 2023 during which groundwater samples were collected from performance monitoring piezometers PT-07 through PT-10 and subsequently expanded to include additional performance monitoring piezometers installed in April 2024 (i.e., PZ-11 through PZ-15). Monitoring of corrective action piezometers continued during the 2025 annual reporting period to collect data supporting future corrective action. Details of these events and analytical results collected during the annual reporting period are discussed in Section 6.

3.0 SAMPLING METHODOLOGY AND ANALYSES

The following section presents a summary of the field sampling procedures that were implemented, and the groundwater sampling results that were obtained in connection with the assessment monitoring program conducted at AP-1 during the annual reporting period.

3.1 Groundwater and Surface Water Level Measurement

A synoptic round of depth-to-groundwater-level measurements were recorded from the AP-1 wells and piezometers during the February and August 2025 assessment monitoring events and used to calculate the corresponding groundwater elevations, which are presented in **Table 3**. The February and August 2025 groundwater elevations are generally consistent with the overall decreasing trend reported for wells downgradient of AP-1 as a result of the ongoing dewatering and closure activities.

Surface water elevations were recorded at the Coosa River staff gauge located downgradient of AP-1. The location of the Coosa River staff gauge is shown on **Figure 2**.

The groundwater and surface water elevation data were used to prepare potentiometric surfaces maps for the February and August 2025 gauging events, which are presented on **Figure 3** and **Figure 4**, respectively. Groundwater in the AP-1 area flows under the influence of topography from slightly higher elevations on the north side of the Site in a generally easterly and southerly direction. This groundwater flow pattern is consistent with previous observations.

3.2 Groundwater Gradient and Flow Velocity

The horizontal groundwater hydraulic gradients within the uppermost aquifer beneath AP-1 were calculated using the groundwater elevation data from the February an August 2025 gauging events. Horizontal hydraulic gradients were calculated along the flow path south of AP-1 between HGWC-13 and MW-7 and between MW-1 and HGWC-8 along the flow path through the eastern portion of AP-1. The supporting calculations are presented in **Table 4.** The table also presents the average hydraulic gradients calculated from the February and August 2025 gauging events. The general trajectory of the flow paths used in the calculations and associated potentiometric contour lines are shown on **Figure 3** and **Figure 4**, respectively. The average hydraulic gradients along the southerly and easterly groundwater flow path lines associated with AP-1 for the annual reporting

period is 0.005 feet per foot (ft/ft) between HGWC-13 and MW-7, and 0.012 ft/ft MW-1 and HGWC-8.

The approximate horizontal flow velocities associated with AP-1 were calculated using the following derivative of Darcy's Law. The calculations are presented on **Table 4**.

$$V = \frac{K_h * i}{n_e}$$

where:

V = Groundwater flow velocity $\left(\frac{feet}{day}\right)$

K_h = Horizontal Hydraulic Conductivity $\left(\frac{feet}{day}\right)$

i = Horizontal hydraulic gradient $\left(\frac{feet}{foot}\right) = \frac{h_1 - h_2}{L}$

h_1 and h_2 = Groundwater elevation at location 1 and 2

L = Distance between location 1 and 2

n_e = Effective porosity

The average horizontal hydraulic conductivity (K_h) for AP-1 of 11.82 feet per day (ft/day) was computed from slug test data derived from ten locations across the AP-1 area and presented in the HAR Rev 01 (Geosyntec, 2019c). An estimated effective porosity (n_e) of 0.15 is used to represent average conditions at AP-1, derived based on review of literature (Kresic, 2007), observed site lithology, and professional judgement. With these variables defined, and accounting for the averaged hydraulic gradient discussed above for the February and August 2025 gauging events, the average groundwater flow velocity in the vicinity of AP-1 for the annual reporting period was calculated to be 0.70 ft/day (i.e., average of the southerly and easterly flow velocities).

3.3 Groundwater Sampling Procedures

Groundwater samples were collected using low-flow sampling procedures in accordance with § 257.93(a). Purging and sampling was performed using dedicated bladder pumps with dedicated tubing, non-dedicated bladder pumps, and peristaltic pumps. For wells sampled with non-dedicated bladder pumps and peristaltic pumps, the pump intake was lowered to the midpoint of the well screen (or as appropriate based on the groundwater level). Non-dedicated bladder pump and peristaltic pump samples were collected using

new disposable polyethylene tubing; all non-dedicated tubing was disposed of following the sampling event. All non-disposable equipment was decontaminated before use and between well locations.

An in-situ water quality field meter (Aqua TROLL 400) was used to monitor and record field water quality parameters [i.e., pH, conductivity, dissolved oxygen (DO), temperature, and oxidation reduction potential (ORP)] during well purging to verify stabilization prior to sampling. Turbidity was monitored using a portable turbidity meter (i.e., LaMotte 2020we or similar). Groundwater samples were collected once the following stabilization criteria were met:

- pH ± 0.1 standard units (s.u.).
- Conductivity ± 5%.
- ± 0.2 milligrams per liter (mg/L) or ± 10% (whichever is greater) for DO > 0.5 mg/L. No criterion applies if DO < 0.5 mg/L, record only.
- Turbidity measured less than 5 nephelometric turbidity units (NTU) or measured between 5 and 10 NTU following three hours of purging.

Following purging, and once stabilization was achieved, unfiltered samples were collected into appropriately preserved laboratory-supplied sample containers. Sample bottles were placed in ice-packed coolers and submitted to Pace Analytical Services, LLC (Pace Analytical), following chain-of-custody protocol. The field sampling and equipment calibration forms generated during the annual reporting period are provided in **Appendix B**.

3.4 Laboratory Analyses

Laboratory analyses were performed by Pace Analytical, which is accredited by the National Environmental Laboratory Accreditation Program (NELAP). Pace Analytical maintains a NELAP certification for the Appendix III and Appendix IV constituents analyzed for this project. Analytical methods used for semiannual and corrective action groundwater sample analyses, and associated results, are listed in the analytical laboratory reports included in **Appendix B**. The groundwater analytical results from the annual reporting period are summarized in **Table 5** and **Table 6**, respectively. Surface water analytical results are summarized in **Table 7**.

3.5 Quality Assurance and Quality Control Summary

Quality assurance/quality control (QA/QC) samples were collected during the groundwater monitoring events in accordance with the site's *Groundwater Monitoring Plan* (Geosyntec, 2021b), and included the following: field duplicates, equipment blanks, and field blank samples. QA/QC samples were collected in appropriately preserved laboratory-provided containers and submitted under the same chain of custody as the primary samples for analysis of the same constituents by Pace Analytical.

In addition to collecting QA/QC samples, the data were validated based on the pertinent methods referenced in the laboratory reports, professional and technical judgment, and applicable federal guidance documents (USEPA, 2011; USEPA, 2017). Where necessary, the data were qualified with supporting documentation and justifications. The validated data are considered usable for meeting project objectives. The associated data validation reports are provided in **Appendix B**, along with the laboratory reports.

4.0 STATISTICAL ANALYSIS

The following section summarizes the statistical analysis of Appendix III groundwater monitoring data performed pursuant to § 257.93. In addition, pursuant to § 257.95(d)(2), Georgia Power established GWPS for the Appendix IV constituents and completed statistical analyses of the Appendix IV groundwater monitoring data obtained during the annual reporting period. The data were analyzed by Groundwater Stats Consulting (GSC); the report generated from the analyses are provided in **Appendix C**.

4.1 Statistical Methods

Groundwater data from the annual reporting period were statistically analyzed in accordance with the Professional Engineer-certified (PE-certified) Statistical Analysis Method Certification (October 2017, revised January 2020) (Environmental Resource Management, 2017 and Geosyntec, 2020a). The Sanitas groundwater statistical software was used to perform the statistical analyses. Sanitas is a decision-support software package that incorporates the statistical tests required of Subtitle C and D facilities by USEPA regulations and guidance as recommended in the USEPA document *Statistical Analysis of Groundwater Data at RCRA Facilities Unified Guidance* (Unified Guidance) (USEPA, 2009).

Appendix III statistical analysis was performed to assess if Appendix III constituents have returned to background levels. Appendix IV constituents were evaluated to assess if concentrations statistically exceeded the established GWPS. Detailed statistical methods used for Appendix III and Appendix IV constituents are discussed in the statistical analysis reports provided in **Appendix C** and summarized in Sections 4.1.1 and 4.1.2. The GWPS were finalized pursuant to § 257.95(d)(2) and presented in **Table 8**.

4.1.1 Appendix III Statistical Methods

Based on guidance from GA EPD, statistical tests used to evaluate the groundwater monitoring data consist of interwell prediction limits (PLs) combined with a 1-of-2 verification resample plan for each of the Appendix III constituents. Interwell PLs pool upgradient well data to establish a background limit for an individual constituent, and the most recent sample from each downgradient well is compared to the same limit for each constituent. The most recent sample from each downgradient well is compared to the background limit to assess whether there are statistically significant increases (SSIs). An "initial exceedance" occurs when an Appendix III constituent reported in the groundwater of a downgradient detection monitoring well exceeds the constituent's associated PL.

The 1-of-2 resample plan allows for collection of an independent resample. A confirmed exceedance is noted only when the resample confirms the initial exceedance by also exceeding the statistical limit. If the resample falls within its respective PL, no exceedance is declared.

4.1.2 Appendix IV Statistical Methods

To statistically compare groundwater data to GWPS, confidence intervals are constructed for each of the detected Appendix IV constituents in each downgradient detection and assessment monitoring well with a minimum of four samples. In accordance with Section 21.1.1 of the Unified Guidance (USEPA, 2009), four independent data are the minimum population size recommended to construct confidence intervals required to assess SSLs for Appendix IV constituents. Due to previous non-routine (or ACM investigation) sampling, some Appendix IV constituents at a well location have differing number of analytical data points.

The confidence intervals are compared to the GWPS. Only when the entire confidence interval is above a GWPS is the well/constituent pair considered to exceed its GWPS. If a confidence interval exceeds a GWPS, an SSL is identified.

USEPA revised the federal CCR Rule on July 30, 2018, updating GWPS for cobalt, lead, lithium, and molybdenum. As described in § 257.95(h)(1-3), the GWPS is defined by the below criteria. These criteria were adopted into the GA EPD Rules for Solid Waste Management 391-3-4-.10 on February 22, 2022.

(1) The MCL established under § 141.62 and § 141.66.

(2) Where an MCL has not been established:

(i) Cobalt 0.006 mg/L;

(ii) Lead 0.015 mg/L;

(iii) Lithium 0.04 mg/L; and

(iv) Molybdenum 0.1 mg/L.

(3) Background levels for constituents where the background level is higher than the MCL or rule-specified GWPS.

Following the above requirements, GWPS have been established for statistical comparison of Appendix IV constituents and are presented in **Table 8**.

4.2 Statistical Analyses Results

Based on review of the Appendix III statistical analyses presented in **Appendix C**, groundwater conditions have not returned to background and assessment monitoring should continue. Based on the statistical analyses, select Appendix IV constituents exceeded the GWPS during the annual reporting period.

4.2.1 February 2025 Data

- Arsenic: HGWC-13
- Molybdenum: HGWC-8

Wells with SSLs were further evaluated using the Sen's Slope/Mann Kendall trend test (**Appendix D**). A statistically significant increasing trend was identified for arsenic in HGWC-13 in February 2025. A statistically significant decreasing trend for molybdenum in HGWC-8 was identified in February 2025.

4.2.2 August 2025 Data

- Arsenic: HGWC-13
- Molybdenum: HGWC-8

Wells with SSLs were further evaluated using the Sen's Slope/Mann Kendall trend test (**Appendix D**). A statistically significant increasing trend was identified for arsenic in HGWC-13 in August 2025. A statistically significant decreasing trend for molybdenum in HGWC-8 was identified in August 2025.

4.2.3 Summary of Statistical Analyses

The SSLs identified for the annual reporting period are consistent with the 2024 annual reporting period.

5.0 NATURE AND EXTENT

Based on the groundwater data presented herein, the SSLs for wells and constituents identified in Section 4.2 have been horizontally and vertically delineated to below the established GWPS and are contained within the property boundary. Delineation is determined by confidence intervals (statistical analysis) prepared for the assessment wells discussed in the following paragraphs. Results of the statistical analyses are provided in **Appendix C**.

The identified SSL of arsenic in HGWC-13 is horizontally and vertically delineated to below the GWPS by MW-19 and MW-24D, respectively. Similarly, the SSL of molybdenum in HGWC-8 is horizontally and vertically delineated by MW-20 and MW- 27D, respectively. An exceedance of the molybdenum GWPS was identified in temporary corrective action piezometer MW-53 in February 2025. Georgia Power proactively collected a surface water sample from the Cabin Creek (H-SCC) location downgradient of MW-53 in February and August 2025. Molybdenum was not detected above the reporting limit (of 0.0010 mg/L in February and 0.010 mg/L in August) in the surface water samples collected in February or August 2025 in location H-SCC shown on **Figure 2**. No molybdenum impacts to surface water have been detected.

The groundwater data from the February and August 2025 assessment monitoring events, which includes data from both the compliance monitoring wells and the temporary corrective action piezometers, were used to generate the arsenic and molybdenum iso-concentration maps presented on **Figure 5** through **Figure 8**.

5.1 Alternate Source Demonstrations

An alternate source demonstration (ASD) was submitted to GA EPD on January 29, 2021, to address the fluoride and lithium SSLs reported for MW-30D, and molybdenum SSL reported for MW-40D (Geosyntec, 2021a). The ASD presented multiple lines of evidence that the SSLs are not associated with a release from AP-1, but are instead a result of natural variation in groundwater quality due to the limited (i.e., MW-30D) or no (i.e., MW-40D) connection these wells have to the uppermost aquifer as evidenced by (i) slow recharge encountered within the deeper delineation wells installed in less fractured bedrock zones; (ii) starkly different groundwater elevations in these wells compared to other site wells; and (iii) very different geochemical conditions. Additionally, all previous SSLs of molybdenum reported in MW-40D have at all times complied with the current GWPS of 0.1 mg/L.

An ASD to address the previous SSL of lithium identified in MW-25D was submitted to GA EPD in August 2022 (Geosyntec, 2022b). Geochemical evaluations using Piper and Stiff diagrams indicate that the chemical composition of groundwater sampled from well MW-25D shows no evidence of a CCR impact (i.e., as compared to the geochemistry of AP-1 pore water) and is similar to other deep background and slow recharge wells screened in bedrock (HGWA-43D, MW-30D, MW-40D). Secondly, all previous SSLs of lithium reported in MW-25D have at all times complied with the current GWPS of 0.064 mg/L.

6.0 MONITORING PROGRAM STATUS

6.1 Assessment Monitoring Status

Pursuant to § 257.96(b), Georgia Power will continue to monitor the groundwater at AP-1 in accordance with the assessment monitoring program regulations of § 257.95 while ACM efforts are implemented to address SSLs of arsenic and molybdenum in select AP-1 wells. Pursuant to § 257.95(g)(1)(iv), the assessment monitoring wells will continue to be sampled as part of the ongoing assessment groundwater monitoring program.

6.2 Assessment of Corrective Measures

A *Draft Remedy Selection Repor*t was submitted to GA EPD on August 31, 2022 (Geosyntec, 2022a). The *Draft Remedy Selection Report* was submitted under separate cover and is currently being reviewed by GA EPD. The report summarizes:

- The current groundwater conceptual site model applicable to evaluating groundwater corrective measures proposed in the ACM Report (Geosyntec, 2019b);

- An evaluation of each corrective measure retained for further consideration following the completed investigations; and

- An evaluation of corrective measure options using the comparative criteria such as long- and short-term effectiveness and protectiveness, source control effectiveness, and ease of implementation. The *Draft Remedy Selection Report* presents geochemical approaches (in-situ injections) coupled with monitored natural attenuation as the proposed groundwater remedy for AP-1.

In the interim of GA EPD's review of the *Draft Remedy Selection Report,* the state agency issued a letter on September 23, 2022, stating their support for Georgia Power to initiate a pilot study at AP-1 to facilitate further remedy design. In June 2023 and March 2024, Georgia Power submitted to GA EPD both a Pilot Test Notification Form and separate workplans outlining the design and implementation of a pilot study in vicinity of HGWC-8 and HGWC-13 (Geosyntec, 2023a, 2023b). GA EPD's UIC Program approved the Pilot Test Notification Forms on August 24, 2023 and June 21, 2024. Pilot study injection activities were initiated in September 2023 and concluded in February 2025. Geosyntec prepared a comprehensive *Pilot Study Summary Report* (Geosyntec, 2025) summarizing the pilot study results, inclusive of the sample data collected for the duration of the post-

injection performance monitoring and provides recommendations for the design and implementation of the full-scale groundwater remedy. The report was submitted to GA EPD under separate cover August 29, 2025; the report is also included in **Appendix D** of this annual groundwater monitoring report. GA EPD issued a letter on December 2, 2025, concurring with the summary report conclusions.

On December 19, 2025 Georgia Power submitted to a letter to GA EPD proposing to hold a public meeting, in accordance with 40 CFR §257.96(e), in the first quarter of 2026 to present the proposed remedial strategy at AP-1. Monitoring of corrective action piezometers continued during the 2025 annual reporting period to collect data supporting future corrective action. The groundwater analytical results from August 2025 corrective action piezometers are summarized in **Table 6**; the laboratory reports and field logs associated with these results are provided in **Appendix B**.

6.3 Annual Potable Well Survey

An updated potable well survey of potential groundwater wells within a two-mile radius of AP-1 was conducted in October 2025 and consisted of reviewing federal, state, county records, and online sources. Surveys conducted by Environmental Data Resources (EDR) are included in **Appendix E**. Additional federal, state, county records and online sources outside of the EDR survey were also reviewed. The Floyd County Health Department does not permit or regulate private wells, and therefore had no update to provide for the survey. The findings from the 2025 well survey are consistent with the 2024 well survey results.

7.0 CONCLUSIONS AND FUTURE ACTIONS

This *2025 Annual Groundwater Monitoring and Corrective Action Report* for Plant Hammond AP-1 was prepared to fulfill the requirements of the federal CCR Rule and GA EPD Rules for Solid Waste Management 391-3-4-.10. Statistical analyses of the groundwater monitoring data for AP-1 for the annual reporting period identified the continued presence of SSLs of arsenic and molybdenum in HGWC-13 and HGWC-8, respectively. Based on the most current groundwater quality, the SSLs are vertically and horizontally delineated to below their respective GWPS within the property boundary.

A *Draft Remedy Selection Report*, which summarizes the evaluation and proposed selection of a corrective measure, or measures, was submitted to GA EPD on August 31, 2022 (Geosyntec, 2022a). In June 2023 and March 2024, Georgia Power submitted to GA EPD both a Pilot Test Notification Form and separate workplans outlining the design and implementation of a pilot study in vicinity of HGWC-8 and HGWC-13 (Geosyntec, 2023a, 2023b). GA EPD's UIC Program approved the Pilot Test Notification Forms on August 24, 2023 and June 21, 2024. Pilot study injection activities were initiated in September 2023 and concluded during the current reporting period. Post-injection performance monitoring was completed in accordance with the *Pilot Study Workplans* and *Supplemental Pilot Study Workplans*. A comprehensive *Pilot Study Summary Report* was submitted to GA EPD on August 29, 2025, under separate cover and is attached herein (**Appendix D**) in which the pilot study results and design recommendations of the full-scale groundwater remedy are discussed. GA EPD issued a letter on December 2, 2025, concurring with the summary report conclusions. It is anticipated that Georgia Power will hold a public meeting in the first quarter of 2026 to present the proposed remedial strategy.

Georgia Power will continue to monitor AP-1 groundwater under the assessment monitoring program as aspects of the ACM program are implemented to address the Appendix IV SSLs. The next routine semiannual assessment monitoring event for AP-1 is tentatively scheduled for February 2026.

8.0 REFERENCES

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TABLES

Table 1
Monitoring Well Network Summary
Georgia Power Company
Plant Hammond - Ash Pond 1
Floyd County, GA

Well ID	Well Designation	Hydraulic Location	Northing[1]	Easting[1]	Ground Surface Elevation[1] (feet)	Top of Casing Elevation[1] (feet)	Top of Screen Elevation[1] (feet)	Bottom of Screen Elevation[1] (feet)	Total Well Depth from (Feet Below Top of Casing)[2]	Groundwater Zone Screened	Installation Date
HGWA-1	Detection	Upgradient	1550423.32	1940770.00	592.32	595.21	573.12	563.12	32.49	Bedrock	12/03/2014
HGWA-2	Detection	Upgradient	1549796.87	1939845.15	585.29	587.92	570.29	560.29	27.95	Overburden	12/02/2015
HGWA-3	Detection	Upgradient	1549794.41	1939833.39	585.23	587.74	553.23	543.23	44.51	PWR	12/02/2015
HGWC-7	Detection	Downgradient	1549520.67	1942319.75	576.55	579.18	561.55	551.55	27.96	Overburden/PWR	12/03/2015
HGWC-8	Detection	Downgradient	1549114.61	1942392.56	577.14	579.82	564.64	554.64	25.51	Overburden	12/08/2015
HGWC-9	Detection	Downgradient	1548693.30	1942215.03	577.72	580.36	543.72	533.72	46.97	Overburden/PWR/Bedrock	12/09/2015
HGWC-10	Detection	Downgradient	1548469.25	1941644.43	576.76	579.37	566.76	556.76	22.94	Overburden	12/08/2015
HGWC-11	Detection	Downgradient	1548477.91	1941146.79	578.12	580.67	565.19	555.19	25.78	Overburden/Bedrock	12/15/2015
HGWC-12	Detection	Downgradient	1548476.53	1941152.34	578.14	580.73	555.64	545.64	35.42	Overurden/Bedrock	12/09/2015
HGWC-13	Detection	Downgradient	1548628.03	1940900.60	592.94	595.76	560.94	550.94	45.15	Overburden	12/10/2015
HGWA-43D	Detection	Upgradient	1550422.85	1940753.80	592.08	595.08	544.08	534.08	61.25	Bedrock	08/26/2020
HGWA-44D	Detection	Upgradient	1550409.13	1940756.18	592.01	594.79	491.76	481.76	113.28	Bedrock	08/25/2020
MW-5	Piezometer[4]	Downgradient	1548436.02	1942448.85	578.00	581.14	560.70	550.70	30.84	Overburden	11/04/2014
MW-6	Piezometer[4]	Downgradient	1548383.12	1941689.01	579.18	581.84	559.28	549.28	32.96	Overburden	11/04/2014
MW-7	Piezometer[4]	Downgradient	1548230.47	1941087.44	574.94	577.73	561.24	551.24	26.89	Overburden	10/30/2014
MW-19	Assessment	Downgradient	1548422.94	1940943.01	577.46	580.65	561.45	551.45	29.53	Overburden	09/26/2018
MW-20	Assessment	Downgradient	1549029.68	1942736.85	575.96	579.00	554.96	544.96	34.37	Overburden	09/27/2018
MW-24D	Assessment	Downgradient	1548638.80	1940900.37	592.91	595.68	532.91	522.91	72.77	Bedrock	11/07/2018
MW-25D	Piezometer[4]	Downgradient	1548473.00	1941162.20	577.71	580.59	527.71	517.71	63.21	Bedrock	11/06/2018
MW-26D	Piezometer[4]	Downgradient	1548699.91	1942222.36	577.63	580.41	512.63	502.63	78.11	Bedrock	11/14/2018
MW-27D	Assessment	Downgradient	1549103.57	1942390.80	576.84	579.70	526.84	516.84	63.19	Bedrock	11/08/2018
MW-28D	Piezometer[4]	Downgradient	1549510.90	1942321.14	576.20	579.08	531.20	521.20	58.21	Bedrock	11/13/2018
MW-29	Piezometer[4]	Downgradient	1549437.67	1942633.60	572.14	575.06	557.14	547.14	28.25	PWR	11/13/2018
AP1A-1	Piezometer	Upgradient	1550080.01	1941614.12	584.78	587.44	575.84	565.84	21.93	Overburden	12/15/2015
AS-01[3]	Corrective Action Piezometer	Downgradient	1549048.28	1942388.06	577.46	577.08	548.46	546.46	30.92	Overburden	05/07/2024
AS-02[3]	Corrective Action Piezometer	Downgradient	1549049.08	1942400.03	577.14	576.72	547.14	545.14	31.89	Overburden	05/06/2024
AS-03[3]	Corrective Action Piezometer	Downgradient	1548670.10	1940933.87	591.98	591.60	545.98	543.98	47.92	Overburden/Bedrock	04/28/2024
AS-04[3]	Corrective Action Piezometer	Downgradient	1548680.80	1940930.83	591.97	591.50	544.97	542.97	48.83	Overburden/Bedrock	04/28/2024
INW-03[3]	Corrective Action Piezometer	Downgradient	1549052.75	1942388.28	577.38	577.07	560.28	550.28	27.10	Overburden	05/06/2024
INW-04[3]	Corrective Action Piezometer	Downgradient	1548671.73	1940929.98	592.01	591.58	557.01	547.01	44.87	Overburden	04/28/2024
INW-05[3]	Corrective Action Piezometer	Downgradient	1548680.07	1940935.89	591.81	591.31	556.81	546.81	44.80	Overburden	04/28/2024
MW-1	Piezometer	Upgradient	1549938.24	1941589.06	585.63	588.66	567.93	557.93	31.06	PWR/Bedrock	12/02/2014
MW-8	Piezometer	Downgradient	1548171.86	1940016.70	584.25	586.93	565.05	555.05	32.28	Overburden	10/29/2014
PT-07[3]	Corrective Action Piezometer	Downgradient	1548675.24	1940933.39	592.00	591.75	554.40	544.40	48.00	Overburden	06/03/2023
PT-08[3]	Corrective Action Piezometer	Downgradient	1548666.82	1940929.58	592.10	591.83	560.20	550.20	42.20	Overburden	06/03/2023
PT-09[3]	Corrective Action Piezometer	Downgradient	1549049.74	1942393.11	577.33	580.35	560.18	550.18	27.45	Overburden	06/01/2023
PT-10[3]	Corrective Action Piezometer	Downgradient	1549040.34	1942413.88	577.39	580.44	560.29	550.29	27.40	Overburden	06/01/2023
PT-11[3]	Corrective Action Piezometer	Downgradient	1549055.61	1942390.89	577.35	576.96	560.75	550.75	26.51	Overburden	05/07/2024
PT-12[3]	Corrective Action Piezometer	Downgradient	1549045.43	1942391.10	577.34	576.84	560.34	550.34	26.81	Overburden	05/07/2024
PT-13[3]	Corrective Action Piezometer	Downgradient	1548676.04	1940939.23	591.88	591.47	556.88	546.88	44.89	Overburden	04/28/2024
PT-14[3]	Corrective Action Piezometer	Downgradient	1548673.63	1940926.52	592.06	591.62	557.06	547.06	44.86	Overburden	04/28/2024
PT-15[3]	Corrective Action Piezometer	Downgradient	1548668.35	1940937.45	591.90	591.37	556.90	546.90	44.77	Overburden	04/28/2024
MW-30D	Piezometer	Downgradient	1549530.00	1942318.45	576.20	578.59	481.20	471.20	107.72	Bedrock	06/19/2019
MW-40D	Piezometer	Downgradient	1549542.29	1942316.55	576.41	578.92	450.41	440.41	138.84	Bedrock	04/29/2020
MW-53	Corrective Action Piezometer	Downgradient	1548835.51	1942399.62	577.64	580.59	554.54	544.54	33.40	Overburden	06/02/2023
MW-54	Corrective Action Piezometer	Downgradient	1548699.51	1940805.03	592.98	592.66	564.98	554.98	38.30	Overburden	06/02/2023

Notes:
PWR = Partially weathered rock.
(1) Coordinates in North American Datum (NAD) 1983, State Plane, Georgia-West, feet. Elevations referenced to the North American Vertical Datum of 1988 (NAVD88). Ground surface elevation measured at nail or known reference point on surface concrete pad. Survey data certified by GEL Solutions May 19, 2020. Survey data for HGWA-43D and HGWA-44D certified by GEL Solutions September 10, 2020. Survey data for MW-53, MW-54, PT-07 through PT-10 certified by GEL Solutions July 13, 2023, and August 30, 2023. Well screen elevations are calculated by subtracting the depths to top and bottom of the well screen from the ground surface elevation.
(2) Total well depth accounts for sump if data provided on well construction logs.
(3) Piezometers INW-03, INW-04, INW-05, MW-53, MW-54, PT-07 through PT-015, and AS-01 through AS-04 were installed in support of an Assessment of Corrective Measures pre-design investigation and are not included in the monitoring well network.
(4) Assessment wells MW-5, MW-6, MW-7, MW-25D, MW-26D, MW-28D, and MW-29 were reclassified as piezometers following approval of the 5 Year Permit Review on June 10, 2025.

Table 2
Groundwater Sampling Event Summary
Georgia Power Company
Plant Hammond - Ash Pond 1
Floyd County, GA

Well ID	Hydraulic Location	Well Designation	February 12 2025 - February 17 2025	August 5 2025 - August 10 2025
			Assessment Event	Assessment Event
Georgia Power Company - Plant Hammond Ash Pond 1				
HGWA-1	Upgradient	Detection	X	X
HGWA-2	Upgradient	Detection	X	X
HGWA-3	Upgradient	Detection	X	X
HGWC-7	Downgradient	Detection	X	X
HGWC-8	Downgradient	Detection	X	X
HGWC-9	Downgradient	Detection	X	X
HGWC-10	Downgradient	Detection	X	X
HGWC-11	Downgradient	Detection	X	X
HGWC-12	Downgradient	Detection	X	X
HGWC-13	Downgradient	Detection	X	X
HGWA-43D	Upgradient	Detection	X	X
HGWA-44D	Upgradient	Detection	X	X
MW-5	Downgradient	Assessment/Piezometer(1)	X	NA
MW-6	Downgradient	Assessment/Piezometer(1)	X	NA
MW-7	Downgradient	Assessment/Piezometer(1)	X	NA
MW-19	Downgradient	Assessment	X	X
MW-20	Downgradient	Assessment	X	X
MW-24D	Downgradient	Assessment	X	X
MW-25D	Downgradient	Assessment/Piezometer(1)	X	NA
MW-26D	Downgradient	Assessment/Piezometer(1)	X	NA
MW-27D	Downgradient	Assessment	X	X
MW-28D	Downgradient	Assessment/Piezometer(1)	X	NA
MW-29	Downgradient	Assessment/Piezometer(1)	X	NA

Notes:
X - Indicates well sampled during event.
NA - Not applicable.
Assessment Event includes Appendix III and Appendix IV analytes.
(1) Assessment wells MW-5, MW-6, MW-7, MW-25D, MW-26D, MW-28D, and MW-29 were reclassified as piezometers following approval of the 5 Year Permit Review on June 10, 2025.

Table 3
Summary of Groundwater and Surface Water Elevations
Georgia Power Company
Plant Hammond - Ash Pond 1
Floyd County, GA

		February 2025		August 2025	
Well ID	Top of Casing Elevation (feet)[(1)]	Depth to Water (feet)	Groundwater Elevation (feet)[(1)]	Depth to Water (feet)	Groundwater Elevation (feet)[(1)]
HGWA-1	595.21	19.09	576.12	17.85	577.36
HGWA-2	587.92	14.30	573.62	13.47	574.45
HGWA-3	587.74	13.88	573.86	13.11	574.63
HGWC-7	579.18	14.51	564.67	11.78	567.40
HGWC-8	579.82	16.56	563.26	15.25	564.57
HGWC-9	580.36	18.59	561.77	15.79	564.57
HGWC-10	579.37	17.42	561.95	13.96	565.41
HGWC-11	580.67	18.90	561.77	16.02	564.65
HGWC-12	580.73	18.96	561.77	16.13	564.60
HGWC-13	595.76	30.68	565.08	30.15	565.61
HGWA-43D	595.08	18.94	576.14	18.03	577.05
HGWA-44D	594.79	19.41	575.38	18.67	576.12
MW-19	580.65	17.49	563.16	15.23	565.42
MW-20	579.00	16.38	562.62	13.76	565.24
MW-24D	595.68	32.64	563.04	30.78	564.90
MW-27D	579.70	16.35	563.35	15.14	564.56
AP1A-1	587.44	11.52	575.92	9.24	578.20
AS-01	577.08	13.86	563.22	12.66	564.42
AS-02	576.72	13.52	563.20	12.29	564.43
AS-03	591.60	28.42	563.18	26.69	564.91
AS-04	591.50	28.33	563.17	26.58	564.92
INW-04	591.58	26.67	564.91	NM	--
INW-05	591.31	26.36	564.95	NM	--
MW-1	588.66	13.16	575.50	10.37	578.29
MW-5	581.14	19.44	561.70	16.59	564.55
MW-6	581.84	20.20	561.64	17.07	564.77
MW-7	577.73	16.32	561.41	13.14	564.59
MW-8	586.93	21.39	565.54	19.50	567.43
MW-25D	580.59	18.79	561.80	19.62	560.97
MW-26D	580.41	18.65	561.76	15.99	564.42
MW-28D	579.08	14.19	564.89	11.83	567.25
MW-29	575.06	9.26	565.80	8.06	567.00
PT-07	591.75	27.02	564.73	26.46	565.29
PT-08	591.83	26.84	564.99	26.34	565.49
PT-09	580.35	17.12	563.23	15.94	564.41
PT-10	580.44	17.25	563.19	15.98	564.46
PT-11	576.96	13.75	563.21	12.54	564.42
PT-12	576.84	13.64	563.20	12.43	564.41
PT-13	591.47	26.54	564.93	26.03	565.44
PT-14	591.62	26.56	565.06	26.12	565.50
PT-15	591.37	26.45	564.92	25.91	565.46
MW-30D	578.59	12.06	566.53	12.81	565.78
MW-40D	578.92	103.57	475.35	102.37	476.55
MW-53	580.59	18.36	562.23	15.93	564.66
MW-54	592.66	26.69	565.97	26.50	566.16
Coosa River	--	--	561.20	--	564.80

Notes:
-- = not applicable
NM = not measured
(1) Elevations shown are referenced to datum NAVD88, which indicates feet (ft) in elevation referenced to the North American Vertical Datum 1988.

Table 4
Horizontal Groundwater Gradient and Flow Velocity Calculations
Georgia Power Company
Plant Hammond Ash Pond 1
Floyd County, GA

Gauging Event	Well Pair	Groundwater Elevations in Well Pairs[1] (ft)		Change in Elevation (ft)	Distance Between Well 1 and Well 2 (L) (ft)	Hydraulic Gradient (i) (ft/ft)	Average Hydraulic Conductivity (K_h) (ft/day)	Estimated Effective Porosity (n_e)	Calculated Groundwater Flow Velocity (V) (ft/day)	Calculated Groundwater Flow Velocity (V) (ft/year)	Average Hydraulic Gradient (i) (ft/ft)	Average Groundwater Flow Velocity (V) (ft/day)	Average Groundwater Flow Velocity 2025 (V) (ft/day)
February 2025	MW-1 to HGWC-8	575.50	563.26	12.24	936	0.013	11.82	0.15	1.03	366.8	0.012	0.98	0.70
August 2025	MW-1 to HGWC-8	578.29	564.57	13.72	1,167	0.012	11.82	0.15	0.93	329.8			
February 2025	HGWC-13 to MW-7	565.08	561.41	3.67	439	0.008	11.82	0.15	0.66	234.5	0.005	0.42	
August 2025	HGWC-13 to MW-7	565.61	564.59	1.02	439	0.002	11.82	0.15	0.18	65.2			

Notes:
ft = feet
ft/day = feet per day
ft/ft = feet per foot
ft/year = feet per year
K_h = Average horizontal hydraulic conductivity
Average horizontal hydraulic conductivity (K_h) of 11.82 feet per day (ft/day) was computed from slug test data derived from ten locations across the AP-1.
n_e = effective porosity
V = groundwater flow velocity
Groundwater flow velocity equation: $V= (K_h * i)/n_e$
$i = h_1-h_2/L$ = horizontal hydraulic gradient (h_1 and h_2 = groundwater elevation at location 1 and 2)
L = distance between location 1 and 2 along the flow path. See Figure 3 and Figure 4 for illustrated flow paths.
(1) Elevations shown are referenced to datum NAVD88, which indicates feet in elevation referenced to the North American Vertical Datum 1988.

Table 5
Summary of Assessment Monitoring Groundwater Analytical Data
Georgia Power Company
Plant Hammond - Ash Pond 1
Floyd County, GA

	Sample Location	HGWA-1	HGWA-1	HGWA-2	HGWA-2	HGWA-3	HGWA-3	HGWA-3	HGWC-7	HGWC-7	HGWC-8	HGWC-8	HGWC-9	HGWC-9
	Sample Date	02/12/2025	08/05/2025	02/14/2025	08/05/2025	02/12/2025	02/14/2025	08/05/2025	02/16/2025	08/06/2025	02/15/2025	08/06/2025	02/15/2025	08/07/2025
ANALYTE	UNITS													
APPENDIX III														
Boron	mg/L	0.021 J	0.019 J	0.053	0.044	0.011 J	NA	0.0090 J	0.90	0.74	1.4	1.3	2.0	2.0
Calcium	mg/L	125	113	51.5	24.1	86.6	NA	72.6	114	92.3	83.3	57.6	171	122
Chloride	mg/L	4.8	17.2	8.5	9.6	5.0	NA	5.5	30.7	27.7	25.0	21.9	81.2	84.4
Fluoride	mg/L	0.10	0.055 J	0.10	< 0.050	0.073 J	NA	< 0.050	0.056 J	0.11	0.24	0.22	0.071 J	0.10
pH, Field	SU	7.08	6.94	5.75	4.90	7.37	7.45	7.12	7.41	7.28	6.54	5.61	7.03	6.32
Sulfate	mg/L	43.8	57.6	94.5	74.0	28.0	NA	24.9	98.5	97.2	104	90.3	169	148
TDS	mg/L	374	416	242	160	267	NA	265	408	407	340	333	628	613
APPENDIX IV														
Antimony	mg/L	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	NA	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050
Arsenic	mg/L	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	NA	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012
Barium	mg/L	0.034	0.033	0.057	0.053	0.13	NA	0.11	0.092	0.078	0.048	0.039	0.065	0.060
Beryllium	mg/L	< 0.00015	< 0.00015	0.00023 J	0.00026 J	< 0.00015	NA	< 0.00015	< 0.00015	< 0.00015	0.00017 J	0.00034 J	< 0.00015	< 0.00015
Cadmium	mg/L	< 0.00012	< 0.00012	0.00028 J	0.00022 J	< 0.00012	NA	< 0.00012	< 0.00012	< 0.00012	0.00022 J	0.00017 J	< 0.00012	< 0.00012
Chromium	mg/L	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	NA	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012
Cobalt	mg/L	< 0.0012	< 0.0012	0.030	0.030	< 0.0012	NA	< 0.0012	< 0.0012	< 0.0012	0.0021 J	0.0037 J	< 0.0012	< 0.0012
Lead	mg/L	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	NA	0.00030 J	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025
Lithium	mg/L	0.00119 J	0.00116 J	0.00183 J	0.00260	0.00331 J	NA	0.00374	0.00167 J	0.00189 J	0.000838 J	< 0.000600	0.00343 J	0.00232
Mercury	mg/L	< 0.00012	< 0.000091	< 0.00012	< 0.000091	< 0.00012	NA	< 0.000091	< 0.00012	< 0.000091	< 0.00012	< 0.000091	< 0.00012	< 0.000091
Molybdenum	mg/L	< 0.0025	< 0.0025	< 0.0025	< 0.0025	< 0.0025	NA	< 0.0025	0.019	0.017	0.17	0.047	0.013	0.0050 J
Combined Radium 226 + 228	pCi/L	0.624 U	0.226 U	1.20 U	0.278 U	NA	0.606 U	0.125 U	0.349 U	0.324 U	0.363 U	0 U	0.324 U	0.441 U
Selenium	mg/L	< 0.0012	< 0.0012	0.0043 J	< 0.0012	< 0.0012	NA	< 0.0012	< 0.0012	< 0.0012	< 0.012	< 0.0012	< 0.0012	< 0.0012
Thallium	mg/L	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	NA	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015
Fluoride	mg/L	0.10	0.055 J	0.10	< 0.050	0.073 J	NA	< 0.050	0.056 J	0.11	0.24	0.22	0.071 J	0.10
Additional Parameters														
Bicarbonate Alkalinity as CaCO3	mg/L	283	NA	58.3	NA	223	NA	NA	186	NA	76.9	NA	182	NA
Carbonate Alkalinity as CaCO3	mg/L	< 5.0	NA	< 5.0	NA	< 5.0	NA	NA	< 5.0	NA	< 5.0	NA	< 5.0	NA
Total Alkalinity as CaCO3	mg/L	283	NA	58.3	NA	223	NA	NA	186	NA	76.9	NA	182	NA
Iron	mg/L	0.023 J	NA	0.068	NA	0.91	NA	NA	0.026 J	NA	0.023 J	NA	0.094	NA
Magnesium	mg/L	4.7	NA	5.0	NA	5.5	NA	NA	10.8	NA	11.7	NA	17.6	NA
Manganese	mg/L	0.063	NA	0.84	NA	0.25	NA	NA	0.26	NA	0.39 J	NA	0.39 J	NA
Potassium	mg/L	0.48 J	NA	1.5	NA	0.46 J	NA	NA	1.7	NA	5.6	NA	3.1 J	NA
Sodium	mg/L	14.7	NA	12.5	NA	5.7	NA	NA	10.5	NA	8.6	NA	13.0	NA
Sulfide	mg/L	< 0.022	NA	< 0.022	NA	< 0.022	NA	NA	< 0.022	NA	< 0.022	NA	< 0.022	NA

Notes:
mg/L - milligrams per liter
NA - Indicates not analyzed
pCi/L - picocuries per liter
SU - Standard Units
TDS - Total Dissolved Solids
< indicates the substance was not detected above the method detection limit (MDL). The value displayed is the MDL.
J - The result is an estimated concentration. "J" qualifiers are applied by the laboratory when the concentration reported is above the MDL, but below the laboratory reporting limit.
Radium data are a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.

Table 5
Summary of Assessment Monitoring Groundwater Analytical Data
Georgia Power Company
Plant Hammond - Ash Pond 1
Floyd County, GA

	Sample Location	HGWC-10	HGWC-10	HGWC-11	HGWC-11	HGWC-12	HGWC-12	HGWC-13	HGWC-13	HGWA-43D	HGWA-43D	HGWA-44D	HGWA-44D	MW-19	MW-19
	Sample Date	02/14/2025	08/06/2025	02/13/2025	08/06/2025	02/13/2025	08/06/2025	02/17/2025	08/10/2025	02/12/2025	08/05/2025	02/12/2025	08/05/2025	02/13/2025	08/06/2025
ANALYTE	**UNITS**														
APPENDIX III															
Boron	mg/L	0.10	0.16	0.92	0.24	1.4	1.1	1.0	0.77	0.040 J	0.039 J	0.54	0.45	0.33 J	0.39 J
Calcium	mg/L	61.0	70.3	133	70.0	160	130	115	109	61.8	55.2	7.2	6.0	111	98.9
Chloride	mg/L	2.1	2.1	11.7	2.5	24.3	21.3	13.5	14.8	3.8	4.0	30.7	29.7	10.9	11.7
Fluoride	mg/L	0.086 J	0.16	0.30	0.22	0.24	0.32	0.40	0.44	0.21	0.16	1.1	0.87	0.075 J	0.16
pH, Field	SU	6.77	6.51	6.60	5.44	7.04	6.98	7.11	6.78	7.50	7.42	8.49	8.46	6.01	6.01
Sulfate	mg/L	39.2	57.2	155	182	198	173	167	131	25.2	22.4	0.51 J	0.85 J	141	135
TDS	mg/L	208	280	478	379	590	581	522	473	273	282	363	370	396	455
APPENDIX IV															
Antimony	mg/L	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050
Arsenic	mg/L	< 0.0012	< 0.0012	< 0.0012	< 0.0012	0.0033 J	0.0022	0.34	0.48	< 0.0012	< 0.0012	0.0014 J	< 0.0012	< 0.0012	< 0.0012
Barium	mg/L	0.049	0.061	0.042	0.027	0.068	0.055	0.046	0.046	0.30	0.27	0.095	0.092	0.035	0.038
Beryllium	mg/L	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	0.00018 J	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015
Cadmium	mg/L	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012
Chromium	mg/L	0.0014 J	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012
Cobalt	mg/L	< 0.0012	< 0.0012	< 0.0012	< 0.0012	0.0015 J	< 0.0012	0.0087	0.010	< 0.0012	< 0.0012	< 0.0012	< 0.0012	0.017	0.021
Lead	mg/L	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	0.00033 J	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025
Lithium	mg/L	< 0.000600	< 0.000600	< 0.000600	< 0.000600	0.00909 J	0.00838	0.0325	0.0333	0.00266 J	0.00308	0.101	0.104	< 0.000600	0.00411
Mercury	mg/L	< 0.00012	< 0.000091	< 0.00012	< 0.000091	< 0.00012	< 0.000091	< 0.00012	< 0.000091	< 0.00012	< 0.000091	< 0.00012	< 0.000091	< 0.00012	< 0.000091
Molybdenum	mg/L	< 0.0025	< 0.0025	0.041	0.0025 J	0.044	0.037	0.015	0.018	< 0.0025	< 0.0025	< 0.0025	< 0.0025	< 0.0025	0.013
Combined Radium 226 + 228	pCi/L	0.372 U	0.404 U	0.491 U	1.50 U	0.725 U	0.261 U	1.01 U	0.428 U	0.624 U	0.994 U	0.622 U	0.255 U	0.709 U	0.656 U
Selenium	mg/L	0.0024 J	< 0.0012	< 0.012	0.011	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.012	0.0038 J
Thallium	mg/L	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	0.00025 J	0.00029 J	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015
Fluoride	mg/L	0.086 J	0.16	0.30	0.22	0.24	0.32	0.40	0.44	0.21	0.16	1.1	0.87	0.075 J	0.16
Additional Parameters															
Bicarbonate Alkalinity as CaCO3	mg/L	116	NA	168	NA	207	NA	168	NA	237	NA	294	NA	115	NA
Carbonate Alkalinity as CaCO3	mg/L	< 5.0	NA	< 5.0	NA	< 5.0	NA	< 5.0	NA	< 5.0	NA	< 5.0	NA	< 5.0	NA
Total Alkalinity as CaCO3	mg/L	116	NA	168	NA	207	NA	168	NA	237	NA	294	NA	115	NA
Iron	mg/L	0.20	NA	0.015 J	NA	0.21	NA	3.7	NA	0.27	NA	0.19	NA	0.16	NA
Magnesium	mg/L	4.1	NA	14.3	NA	15.0	NA	12.8	NA	19.3	NA	3.5	NA	10.4	NA
Manganese	mg/L	0.042	NA	0.028 J	NA	1.8	NA	4.1	NA	0.015 J	NA	0.0058 J	NA	1.3	NA
Potassium	mg/L	5.5	NA	4.4 J	NA	6.9	NA	4.9	NA	0.86	NA	2.3 J	NA	1.2	NA
Sodium	mg/L	3.8	NA	5.0	NA	7.5	NA	6.1	NA	19.8	NA	141	NA	5.7	NA
Sulfide	mg/L	< 0.022	NA	< 0.022	NA	< 0.022	NA	< 0.022	NA	0.025 J	NA	0.10	NA	< 0.022	NA

Table 5
Summary of Assessment Monitoring Groundwater Analytical Data
Georgia Power Company
Plant Hammond - Ash Pond 1
Floyd County, GA

	Sample Location	MW-20	MW-20	MW-24D	MW-24D	MW-27D	MW-27D	MW-5	MW-6	MW-7	MW-25D	MW-26D	MW-28D	MW-29
	Sample Date	02/15/2025	08/06/2025	02/16/2025	08/10/2025	02/15/2025	08/06/2025	02/14/2025	02/14/2025	02/13/2025	02/13/2025	02/14/2025	02/16/2025	02/16/2025
ANALYTE	UNITS													
APPENDIX III														
Boron	mg/L	0.13	0.11	0.51	0.57	0.12	0.088	0.039 J	0.68	0.19	0.34 J	1.9	0.49	1.1
Calcium	mg/L	141	115	75.4	103	37.4	21.0	91.2	194	91.8	23.0	149	67.2	136
Chloride	mg/L	29.6	28.8	23.4	32.6	25.2	19.5	0.97 J	17.5	3.8	11.5	57.8	22.0	51.2
Fluoride	mg/L	< 0.050	0.083 J	0.11	0.084 J	0.17	0.32	0.067 J	< 0.050	0.090 J	1.4	0.081 J	0.13	< 0.050
pH, Field	SU	7.17	6.73	7.99	7.67	9.79	10.70	6.92	6.83	6.96	7.65	6.53	7.57	7.24
Sulfate	mg/L	100	92.3	96.2	133	6.5	28.5	91.8	177	74.0	< 0.50	160	53.6	122
TDS	mg/L	472	482	301	432	128	118	345	634	302	324	612	326	506
APPENDIX IV														
Antimony	mg/L	< 0.00050	< 0.00050	0.00066 J	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050
Arsenic	mg/L	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	0.0013 J	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012
Barium	mg/L	0.097	0.088	0.039	0.055	0.49	0.26	0.052	0.080	0.066	0.77	0.053	0.51	0.062
Beryllium	mg/L	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015
Cadmium	mg/L	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012	0.00039 J
Chromium	mg/L	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	0.0023 J	< 0.0012	0.0016 J	< 0.0012	< 0.0012	< 0.0012	< 0.0012
Cobalt	mg/L	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012
Lead	mg/L	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	0.00037 J	< 0.00025	< 0.00025	< 0.00025
Lithium	mg/L	0.000940 J	< 0.000600	0.00274 J	0.00352	0.0115 J	0.00482	0.000687 J	0.000625 J	< 0.000600	0.0362	0.00342 J	0.00738 J	0.00371 J
Mercury	mg/L	< 0.00012	< 0.000091	< 0.00012	< 0.000091	< 0.00012	< 0.000091	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012
Molybdenum	mg/L	< 0.0025	< 0.0025	0.0067 J	0.0035 J	0.022	0.034	< 0.0025	0.0029 J	0.0025 J	< 0.0025	0.022	0.0031 J	< 0.0025
Combined Radium 226 + 228	pCi/L	1.21 U	0.527 U	0.271 U	0.625 U	0.666 U	0.816 U	0.517 U	0.935 U	0.593 U	1.21	0.294 U	1.03 U	1.00 U
Selenium	mg/L	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	0.0034 J	0.0035 J	0.0019 J	< 0.0012	< 0.0012	< 0.0012	< 0.0012
Thallium	mg/L	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015
Fluoride	mg/L	< 0.050	0.083 J	0.11	0.084 J	0.17	0.32	0.067 J	< 0.050	0.090 J	1.4	0.081 J	0.13	< 0.050
Additional Parameters														
Bicarbonate Alkalinity as CaCO3	mg/L	219	NA	94.1	NA	52.9	NA	163	287	174	295	210	213	205
Carbonate Alkalinity as CaCO3	mg/L	< 5.0	NA	< 5.0	NA	37.2	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total Alkalinity as CaCO3	mg/L	219	NA	94.1	NA	90.1	NA	163	287	174	295	210	213	205
Iron	mg/L	2.6	NA	0.068	NA	0.11	NA	0.021 J	0.37	0.026 J	0.36	0.34	0.24	0.19
Magnesium	mg/L	9.7	NA	8.2	NA	10.1	NA	9.6	14.3	7.0	11.6	14.9	22.1	11.0
Manganese	mg/L	0.11	NA	0.013 J	NA	0.030 J	NA	< 0.0012	0.89	< 0.0012	0.015 J	0.54	0.12	1.0
Potassium	mg/L	0.34 J	NA	1.2	NA	2.1	NA	1.0	1.3	0.82	0.52	3.3	1.1	0.79
Sodium	mg/L	11.5	NA	8.8	NA	25.2	NA	14.7	11.3	6.0	98.1	10.4	12.8	11.1
Sulfide	mg/L	< 0.022	NA	< 0.022	NA	< 0.022	NA	< 0.022	< 0.022	< 0.022	0.18	< 0.022	0.036 J	< 0.022

Table 6
Summary of Corrective Action Piezometer Groundwater Analytical Data
Georgia Power Company
Plant Hammond - Ash Pond 1
Floyd County, GA

Sample Location		PT-07	PT-08	PT-09	PT-10	PT-11	PT-12	PT-13	PT-14	PT-15	MW-53	MW-54
Sample Date		08/11/2025	08/11/2025	08/10/2025	08/10/2025	08/10/2025	08/10/2025	08/11/2025	08/11/2025	08/11/2025	08/11/2025	08/11/2025
ANALYTE	UNITS											
APPENDIX III												
Boron	mg/L	0.92	1.1	1.4	1.4	1.4	1.3	0.83	0.81	0.76	2.1	0.76
pH, Field	SU	6.84	6.71	6.70	6.79	6.90	6.43	6.86	6.98	6.85	7.06	6.38
APPENDIX IV												
Arsenic	mg/L	0.17	0.033	NA	NA	NA	NA	0.23	0.55	0.060	NA	0.033
Molybdenum	mg/L	NA	NA	0.11	0.070	0.12	0.098	NA	NA	NA	0.10	NA
Additional Parameters												
Bicarbonate Alkalinity as CaCO3	mg/L	168	154	120	125	123	108	172	178	180	188	114
Carbonate Alkalinity as CaCO3	mg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total Alkalinity as CaCO3	mg/L	168	154	120	125	123	108	172	178	180	188	114
Iron	mg/L	4.5	0.61	0.22	0.23	0.27	0.035 J	4.6	11.4	0.37	0.16	0.099

Notes:
mg/L - milligrams per liter
NA - Indicates not analyzed
SU - Standard Units
< indicates the substance was not detected above the method detection limit (MDL). The value displayed is the MDL.
J - The result is an estimated concentration. “J” qualifiers are applied by the laboratory when the concentration reported is above the MDL, but below the laboratory reporting limit.

Table 7
Summary of Surface Water Sampling Analytical Data
Georgia Power Company
Plant Hammond - Ash Pond 2
Floyd County, GA

Sample Location[(1)]		H+0.25	H+0.25	H-SCC	H-SCC	H-SCC NBR	H-SCC NBR
Sample Date		02/17/2025	08/04/2025	02/17/2025	08/04/2025	02/17/2025	08/04/2025
ANALYTE	UNITS						
APPENDIX III							
Boron	mg/L	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	0.073
Calcium	mg/L	11.9	18.0	8.5	17.2	6.6	15.9
Chloride	mg/L	2.9	4.7	< 1.0	3.9	< 1.0	1.3
Fluoride	mg/L	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
pH, Field	SU	7.18	7.53	6.87	7.35	6.75	7.14
Sulfate	mg/L	4.4	5.6	6.2	6.0	5.9	16.1
TDS	mg/L	82.0	86.0	76.0	91.0	60.0	92.0
APPENDIX IV							
Cobalt	mg/L	0.0011	< 0.0050	NA	NA	NA	NA
Fluoride	mg/L	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Molybdenum	mg/L	< 0.0010	< 0.010	< 0.0010	< 0.010	< 0.0010	< 0.010
Additional Parameters							
Alkalinity Total as CaCO3	mg/L	35.1	NA	21.6	NA	14.7	NA
Bicarbonate Alkalinity as CaCO3	mg/L	35.1	NA	21.6	NA	14.7	NA
Carbonate Alkalinity as CaCO3	mg/L	< 5.0	NA	< 5.0	NA	< 5.0	NA
Magnesium	mg/L	2.9	NA	1.8	NA	1.6	NA
Potassium	mg/L	< 5.0	NA	< 5.0	NA	< 5.0	NA
Sodium	mg/L	< 5.0	NA	< 5.0	NA	< 5.0	NA

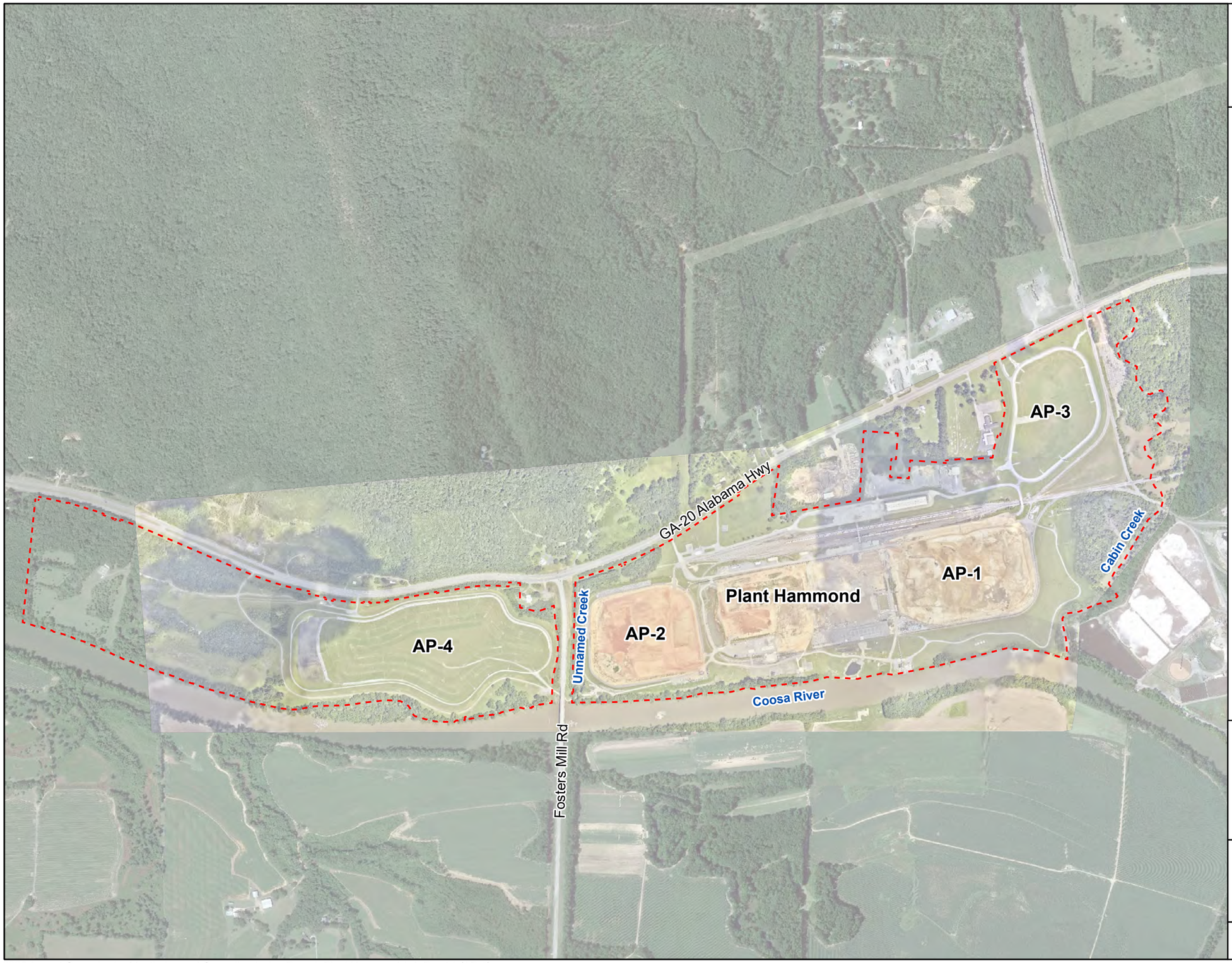
Notes:
mg/L - milligrams per liter
SU - Standard Units
NA - Indicates not analyzed
TDS - Total Dissolved Solids
< indicates the substance was not detected above the reporting limit (RL).
(1) Refer to Figure 2 for locations.

Table 8
Summary of Background Concentrations and Groundwater Protection Standards
Georgia Power Company
Plant Hammond Ash Pond 1
Floyd County, GA

Analyte	Units	MCL	Federal CCR Rules Specified GWPS[1]	Background[2]	GWPS[3,4]
Antimony	mg/L	0.006		0.003, 0.002	0.006
Arsenic	mg/L	0.01		0.005, 0.0036	0.01
Barium	mg/L	2		0.46	2
Beryllium	mg/L	0.004		0.0005, 0.0004	0.004
Cadmium	mg/L	0.005		0.0005	0.005
Chromium	mg/L	0.1		0.0079	0.1
Cobalt	mg/L		0.006	0.038	0.038
Combined Radium 226 + 228	pCi/L	5		1.59, 1.57	5
Fluoride	mg/L	4		1.5	4
Lead	mg/L		0.015	0.001	0.015
Lithium	mg/L		0.04	0.064	0.064
Mercury	mg/L	0.002		0.0002	0.002
Molybdenum	mg/L		0.1	0.01	0.1
Selenium	mg/L	0.05		0.005	0.05
Thallium	mg/L	0.002		0.001, 0.0005	0.002

Notes:
CCR = Coal Cumbustion Residuals
EPA = Environmental Protection Agency
GWPS = Groundwater Protection Standard
MCL = Maximum Contaminant Level
mg/L = miligrams per liter
N/A = Not Applicable
pCi/L = picocuries per liter
(1) On February 22, 2022, the Georgia Environmental Protection Division (GA EPD) adopted the federally promulgated GWPS for cobalt, lithium, lead, and molybdenum.
(2) The background limits were used when determining the GWPS under 40 CFR 257.95(h) and GA EPD Rule 391-3-4-.10(6)(a). A cell with two values denotes that different background concentrations were calculated per semiannual event, presented in the order of the events (February 2025, August 2025).
(3) Under 40 CFR 257.95(h)(1-3) the GWPS is: (i) the maximum contaminant level (MCL) established under §§141.62 and 141.66 of this title; (ii) where an MCL has not been established a rule-specific GWPS; or (iii) background levels for constituents where the background level is higher than the MCL or rule-specified GWPS.
(4) The GWPS apply to the February 2025 and August 2025 sampling events.

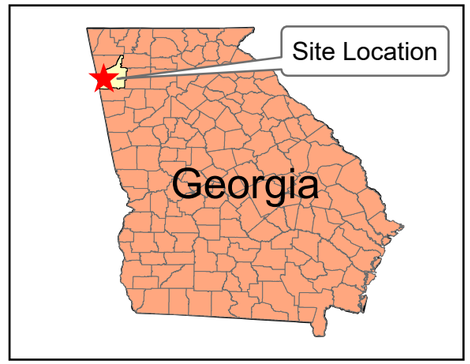
FIGURES



N

LEGEND

Plant Hammond Property Boundary



Note:
1. Aerial photograph source: Google Earth Pro August 2019 and Georgia Power Company, June 2025.

0 500 1,000 2,000

SCALE IN FEET

SITE LOCATION MAP

GEORGIA POWER COMPANY
PLANT HAMMOND AP-1
ROME, FLOYD COUNTY, GEORGIA

Prepared For: Georgia Power

Prepared By: Geosyntec consultants

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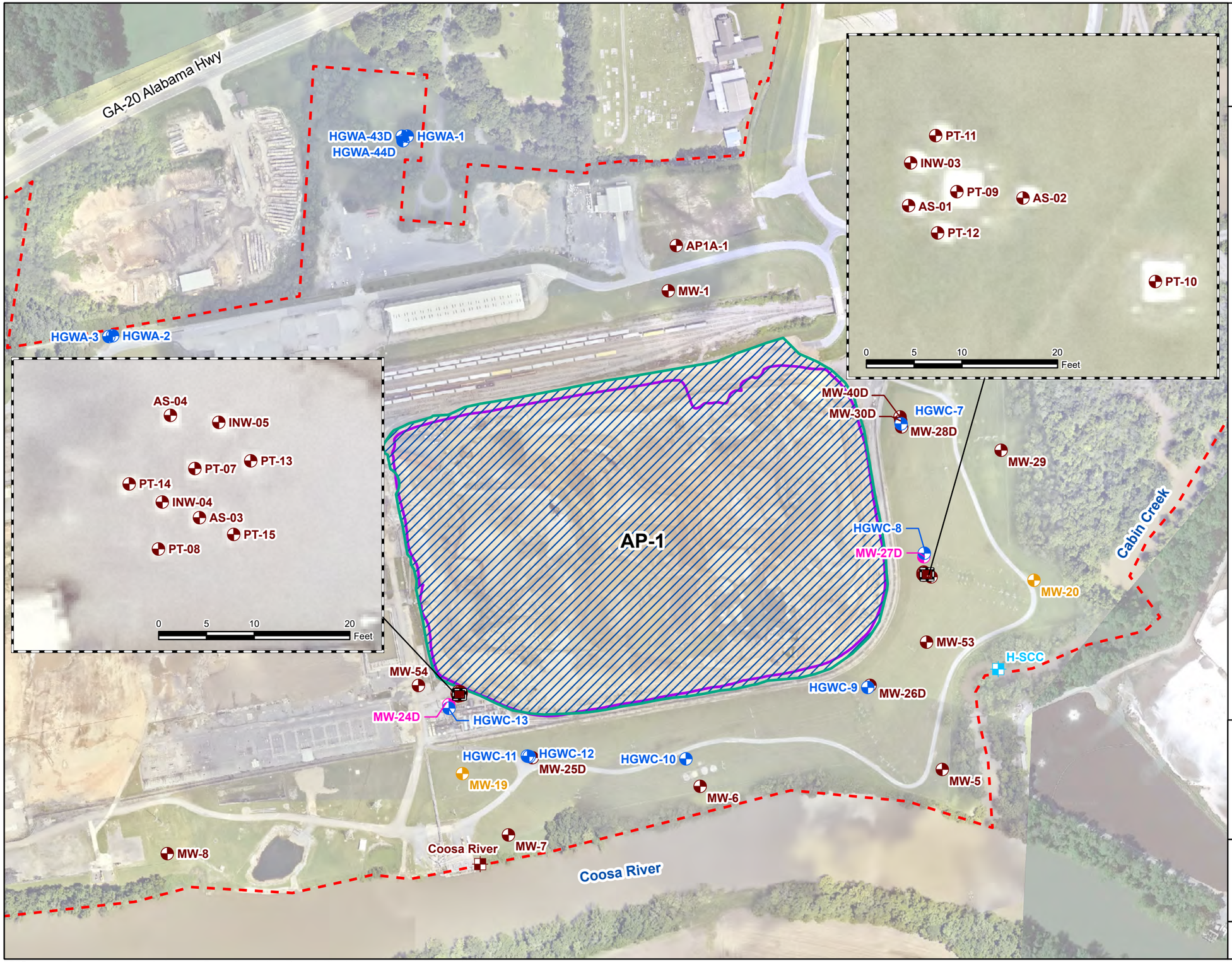
FIGURE 1



N

LEGEND

- Detection Monitoring Well
- Horizontal Assessment Monitoring Well
- Vertical Assessment Monitoring Well
- Piezometer
- Surface Water Level Gauge Point
- Surface Water Sample Point
- Approximate AP-1 Boundary
- Area where ash removal was certified complete by GA EPD (November 26, 2025)
- Plant Hammond Property Boundary

Notes:
1. Piezometers AS-01, AS-02, AS-03, AS-04, INW-03, INW-04, INW-05, PT-07, PT-08, PT-09, PT-10, PT-11, PT-12, PT-13, PT-14, PT-15, MW-53 and MW-54 were installed in support of an Assessment of Corrective Measures pre-design investigation and are not included in the monitoring well network.
2. Surface water sampling point H+0.25 is located approximately 2,000 feet west (downstream) of the Coosa River surface water level gauge point. Surface water sampling point H-SCC NBR is located approximately 3,300 feet to the north (upstream) of H-SCC along Cabin Creek.
3. Vertical Assessment Monitoring Wells MW-25D, MW-26D, and MW-28D, and Horizontal Assessment Monitoring Wells MW-5, MW-6, MW-7, and MW-29, were reclassified as Piezometers after the 2025 semiannual groundwater monitoring event.
4. Aerial photograph source: Google Earth Pro, August 2019 and Georgia Power Company, June 2025.

0 150 300 600

SCALE IN FEET

MONITORING WELL NETWORK AND SAMPLING LOCATION MAP

GEORGIA POWER COMPANY
PLANT HAMMOND AP-1
ROME, FLOYD COUNTY, GEORGIA

Prepared For: Georgia Power

Prepared By: Geosyntec consultants

FIGURE 2

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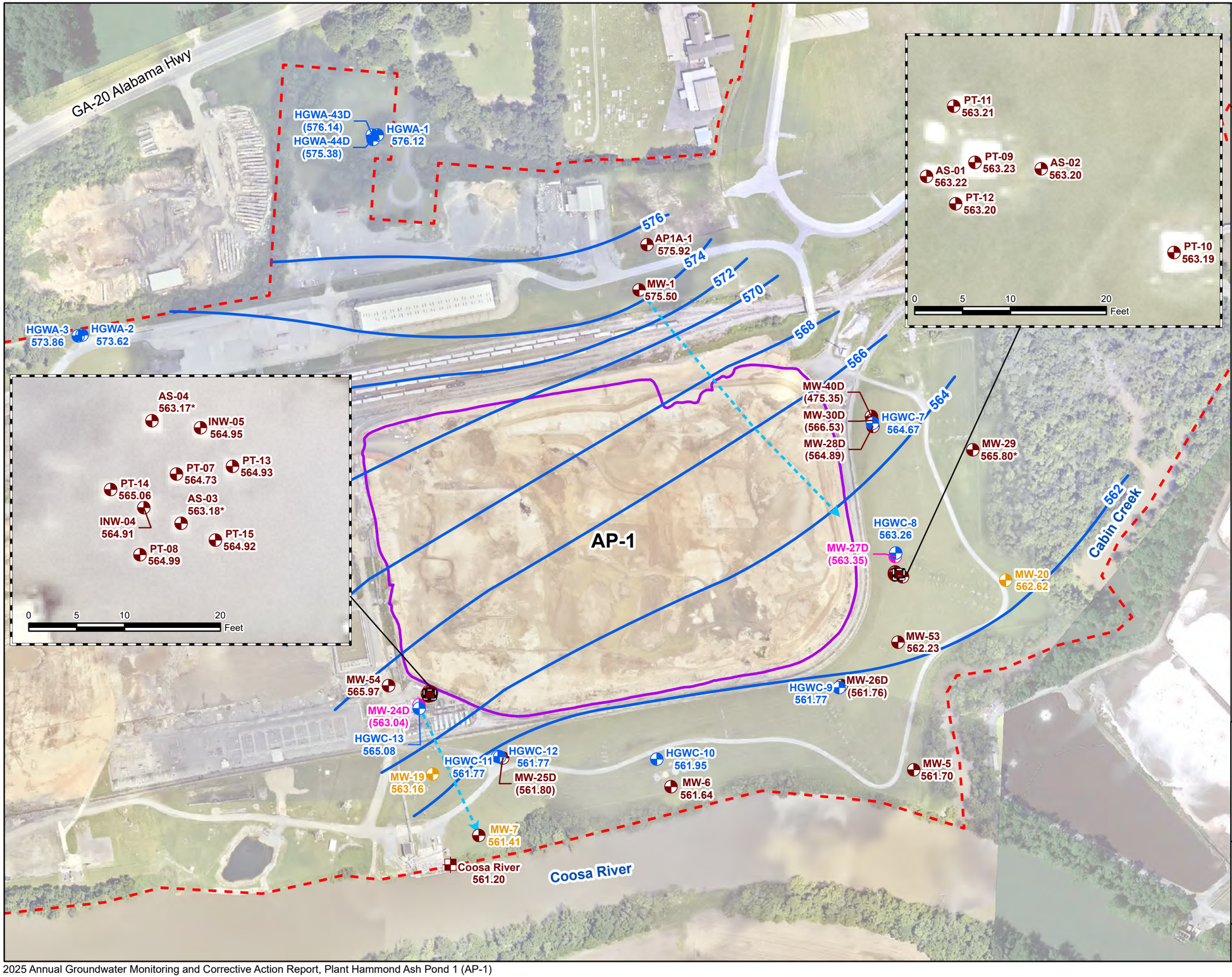

LEGEND

- Detection Monitoring Well
- Horizontal Assessment Monitoring Well
- Vertical Assessment Monitoring Well
- Piezometer
- Surface Water Level Gauge Point
- Groundwater Elevation Contour
- Approximate Groundwater Flow Direction
- Approximate AP-1 Boundary
- Plant Hammond Property Boundary

GEORGIA REGISTERED No. PE035510 PROFESSIONAL ENGINEER WHITNEY B. LAW

Notes:
1. Water level elevation recorded on February 10, 2025. Elevation provided in feet (ft) referenced to the North American Vertical Datum of 1988 (NAVD 88).
2. Groundwater elevations in parentheses were not used to make the groundwater contours because these wells are screened at a different elevation in the formation/aquifer.
3. Wells marked with an * were not used to make groundwater contours due to potential erroneous readings.
4. Vertical Assessment Monitoring Wells MW-25D, MW-26D, and MW-28D, and Horizontal Assessment Monitoring Wells MW-5, MW-6, MW-7, and MW-29, were reclassified as Piezometers after the 2025 semiannual groundwater monitoring event.
5. Aerial photograph source: Google Earth Pro, August 2019 and Georgia Power Company, June 2025.

0 150 300 600

SCALE IN FEET

POTENTIOMETRIC SURFACE CONTOUR MAP - FEBRUARY 2025

GEORGIA POWER COMPANY
PLANT HAMMOND AP-1
ROME, FLOYD COUNTY, GEORGIA

Prepared For: Georgia Power

Prepared By: Geosyntec consultants

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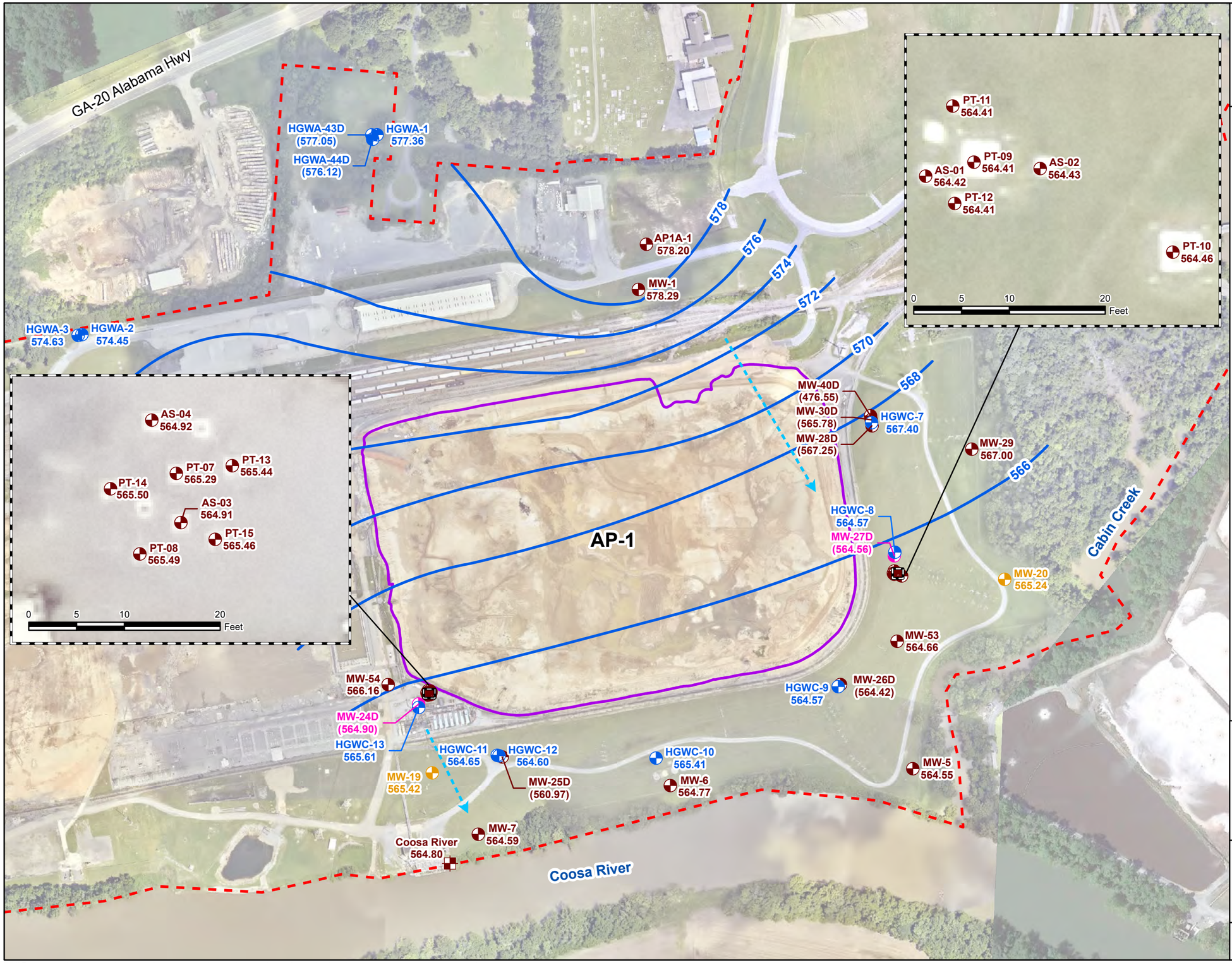
FIGURE 3



N

LEGEND

- Detection Monitoring Well
- Horizontal Assessment Monitoring Well
- Vertical Assessment Monitoring Well
- Piezometer
- Surface Water Level Gauge Point
- Groundwater Elevation Contour
- Approximate Groundwater Flow Direction
- Approximate AP-1 Boundary
- Plant Hammond Property Boundary

GEORGIA REGISTERED No. PE036510 PROFESSIONAL ENGINEER WHITNEY B. LAW

Notes:
1. Water level elevation recorded on August 4, 2025. Elevation provided in feet (ft) referenced to the North American Vertical Datum of 1988 (NAVD 88).
2. Groundwater elevations in parentheses were not used to make the groundwater contours because these wells are screened at a different elevation in the formation/aquifer.
3. Vertical Assessment Monitoring Wells MW-25D, MW-26D, and MW-28D, and Horizontal Assessment Monitoring Wells MW-5, MW-6, MW-7, and MW-29, were reclassified as Piezometers after the 2025 semiannual groundwater monitoring event.
4. Aerial photograph source: Google Earth Pro, August 2019 and Georgia Power Company, June 2025.

0 150 300 600

SCALE IN FEET

POTENTIOMETRIC SURFACE CONTOUR MAP - AUGUST 2025

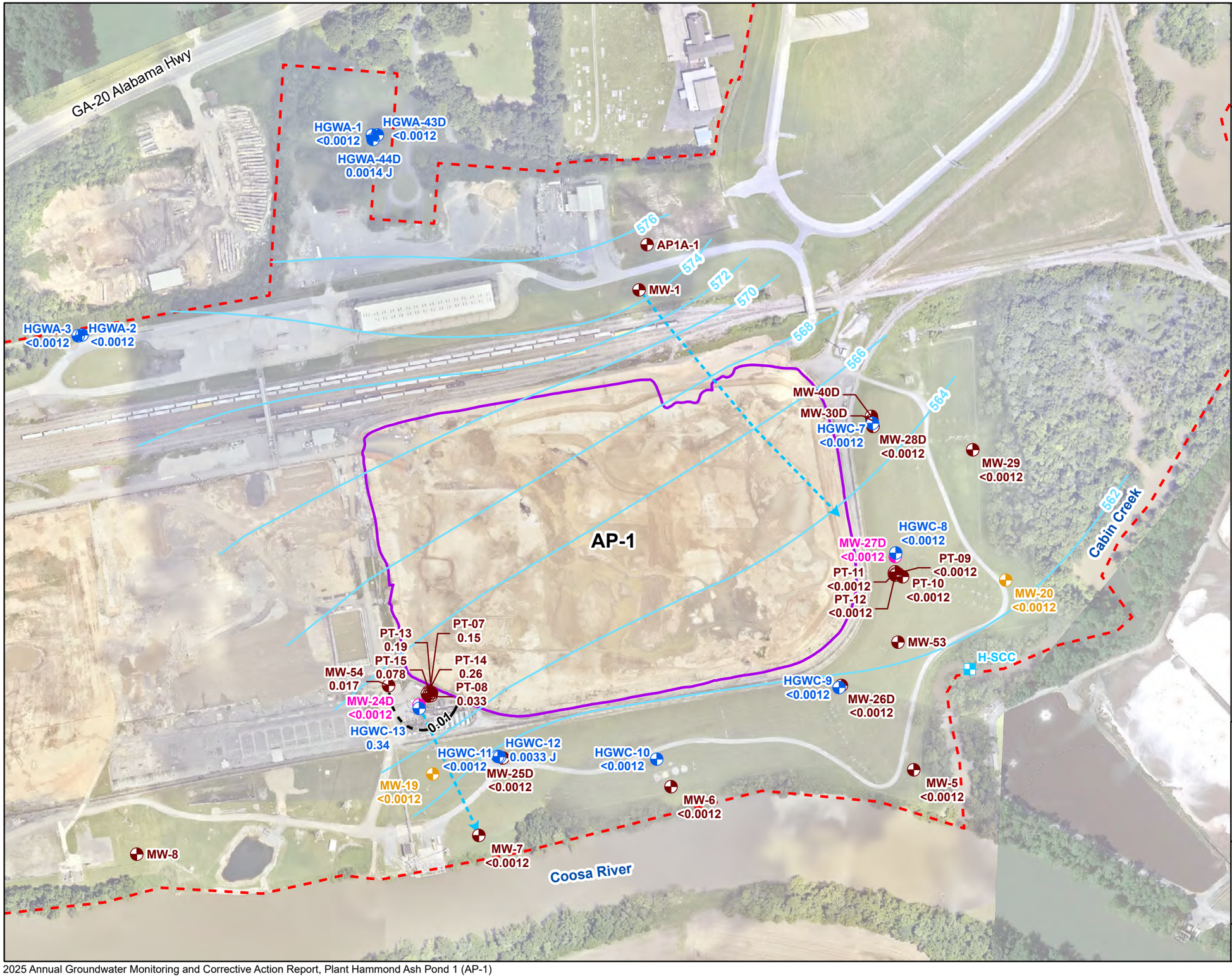
GEORGIA POWER COMPANY
PLANT HAMMOND AP-1
ROME, FLOYD COUNTY, GEORGIA

Prepared For: Georgia Power

Prepared By: Geosyntec consultants

KENNESAW, GA | JANUARY 2026

FIGURE 4



N

LEGEND

- Detection Monitoring Well
- Horizontal Assessment Monitoring Well
- Vertical Assessment Monitoring Well
- Piezometer
- Surface Water Sample Point
- GWPS Arsenic Iso-Concentration Contour (mg/L) (dashed where inferred)
- Groundwater Elevation Contour
- Approximate Groundwater Flow Direction
- Approximate AP-1 Boundary
- Plant Hammond Property Boundary

Notes:
1. Concentration data from groundwater samples collected during the February 2025 semiannual monitoring event. Data reported for wells screened deeper in the aquifer were not used to generate the iso-concentration contour (HGWA-43D, HGWA-44D, MW-24D, MW-25D, MW-26D, MW-27D, MW-28D). Concentrations are reported in mg/L.
2. Water level elevation recorded on February 10, 2025. Elevation provided in feet (ft) referenced to the North American Vertical Datum (NAVD) 88.
3. The Groundwater Protection Standard (GWPS) for arsenic is 0.01 mg/L.
4. Piezometers may be sampled as needed for constituent specific site characterization.
5. J - The result is an estimated concentration. “J” qualifiers are applied by the laboratory when the concentration reported is above the method detection limit, but below the laboratory reporting limit.
6. Vertical Assessment Monitoring Wells MW-25D, MW-26D, and MW-28D, and Horizontal Assessment Monitoring Wells MW-5, MW-6, MW-7, and MW-29, were reclassified as Piezometers after the 2025 semiannual groundwater monitoring event.
7. Aerial photograph source: Google Earth Pro, August 2019 and Georgia Power Company, June 2025.

0 150 300 600

SCALE IN FEET

ISO-CONCENTRATION MAP ARSENIC - FEBRUARY 2025

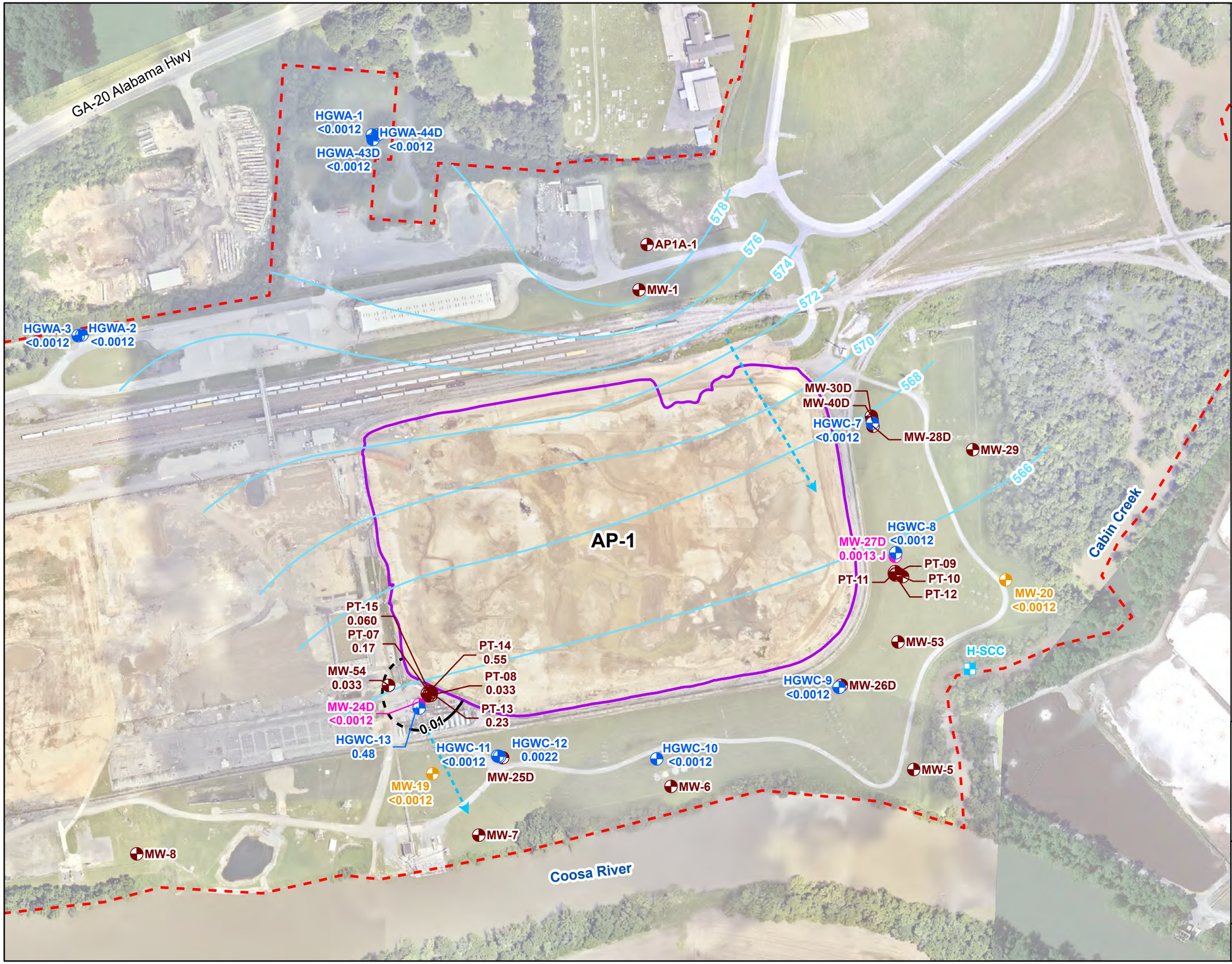
GEORGIA POWER COMPANY
PLANT HAMMOND AP-1
ROME, FLOYD COUNTY, GEORGIA

Prepared For: Georgia Power

Prepared By: Geosyntec consultants

KENNESAW, GA | JANUARY 2026

FIGURE 5



LEGEND

- Detection Monitoring Well
- Horizontal Assessment Monitoring Well
- Vertical Assessment Monitoring Well
- Piezometer
- Surface Water Sample Point
- GWPS Arsenic Iso-Concentration Contour (mg/L) (dashed where inferred)
- Groundwater Elevation Contour
- Approximate Groundwater Flow Direction
- Approximate AP-1 Boundary
- Plant Hammond Property Boundary

Notes:
1. Concentration data from groundwater samples collected during the August 2025 annual monitoring event. Data reported for wells screened deeper in the aquifer were not used to generate the iso-concentration contour (HGWA-43D, HGWA-44D, MW-24D, MW-25D, MW-26D, MW-27D, MW-28D). Concentrations are reported in mg/L.
2. Water level elevation recorded on August 4, 2025. Elevation provided in feet (ft) referenced to the North American Vertical Datum (NAVD) 88.
3. The Groundwater Protection Standard (GWPS) for arsenic is 0.01 mg/L.
4. Piezometers may be sampled as needed for constituent specific site characterization.
5. J - The result is an estimated concentration. “J” qualifiers are applied by the laboratory when the concentration reported is above the method detection limit, but below the laboratory reporting limit.
6. Vertical Assessment Monitoring Wells MW-25D, MW-26D, and MW-28D, and Horizontal Assessment Monitoring Wells MW-5, MW-6, MW-7, and MW-29, were reclassified as Piezometers after the 2025 semiannual groundwater monitoring event.
7. Aerial photograph source: Google Earth Pro, August 2019 and Georgia Power Company, June 2025.

0 150 300 600

SCALE IN FEET

ISO-CONCENTRATION MAP
ARSENIC - AUGUST 2025

GEORGIA POWER COMPANY
PLANT HAMMOND AP-1
ROME, FLOYD COUNTY, GEORGIA

Prepared For: Georgia Power

Prepared By: Geosyntec consultants

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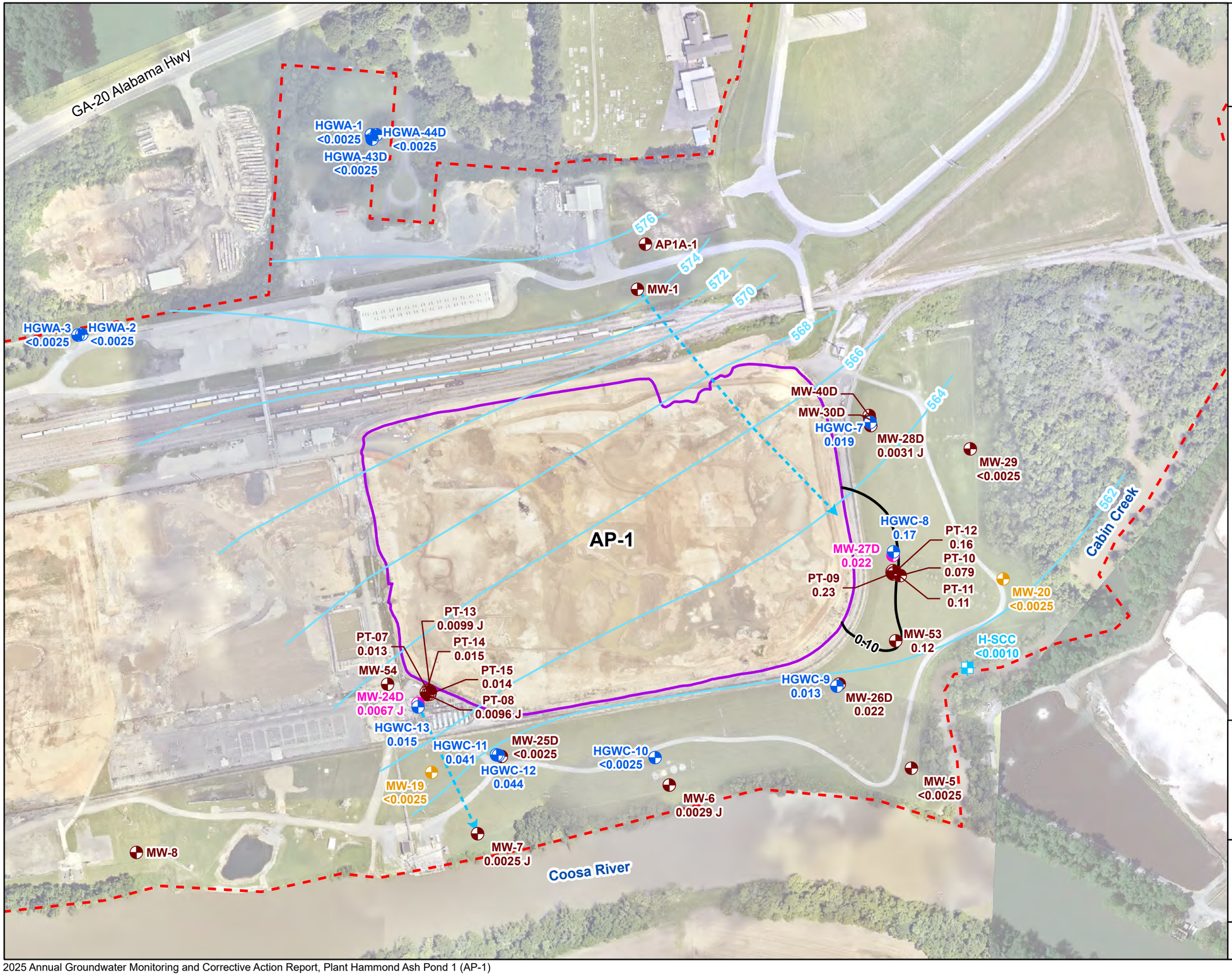
FIGURE 6



LEGEND

- Detection Monitoring Well
- Horizontal Assessment Monitoring Well
- Vertical Assessment Monitoring Well
- Piezometer
- Surface Water Sample Point
- GWPS Molybdenum Iso-Concentration Contour (mg/L)
- Groundwater Elevation Contour
- Approximate Groundwater Flow Direction
- Approximate AP-1 Boundary
- Plant Hammond Property Boundary

Notes:
1. Concentration data from groundwater samples collected during the February 2025 semiannual monitoring event. Data reported for wells screened deeper in the aquifer were not used to generate the iso-concentration contour (HGWA-43D, HGWA-44D, MW-24D, MW-25D, MW-26D, MW-27D, MW-28D). Concentrations are reported in mg/L.
2. Water level elevation recorded on February 10, 2025. Elevation provided in feet (ft) referenced to the North American Vertical Datum (NAVD) 88.
3. The Groundwater Protection Standard (GWPS) for molybdenum is 0.1 mg/L.
4. Piezometers may be sampled as needed for constituent specific site characterization.
5. J - The result is an estimated concentration. “J” qualifiers are applied by the laboratory when the concentration reported is above the method detection limit, but below the laboratory reporting limit.
6. Vertical Assessment Monitoring Wells MW-25D, MW-26D, and MW-28D, and Horizontal Assessment Monitoring Wells MW-5, MW-6, MW-7, and MW-29, were reclassified as Piezometers after the 2025 semiannual groundwater monitoring event.
7. Aerial photograph source: Google Earth Pro, August 2019 and Georgia Power Company, June 2025.

0 150 300 600

SCALE IN FEET

ISO-CONCENTRATION MAP
MOLYBDENUM - FEBRUARY 2025

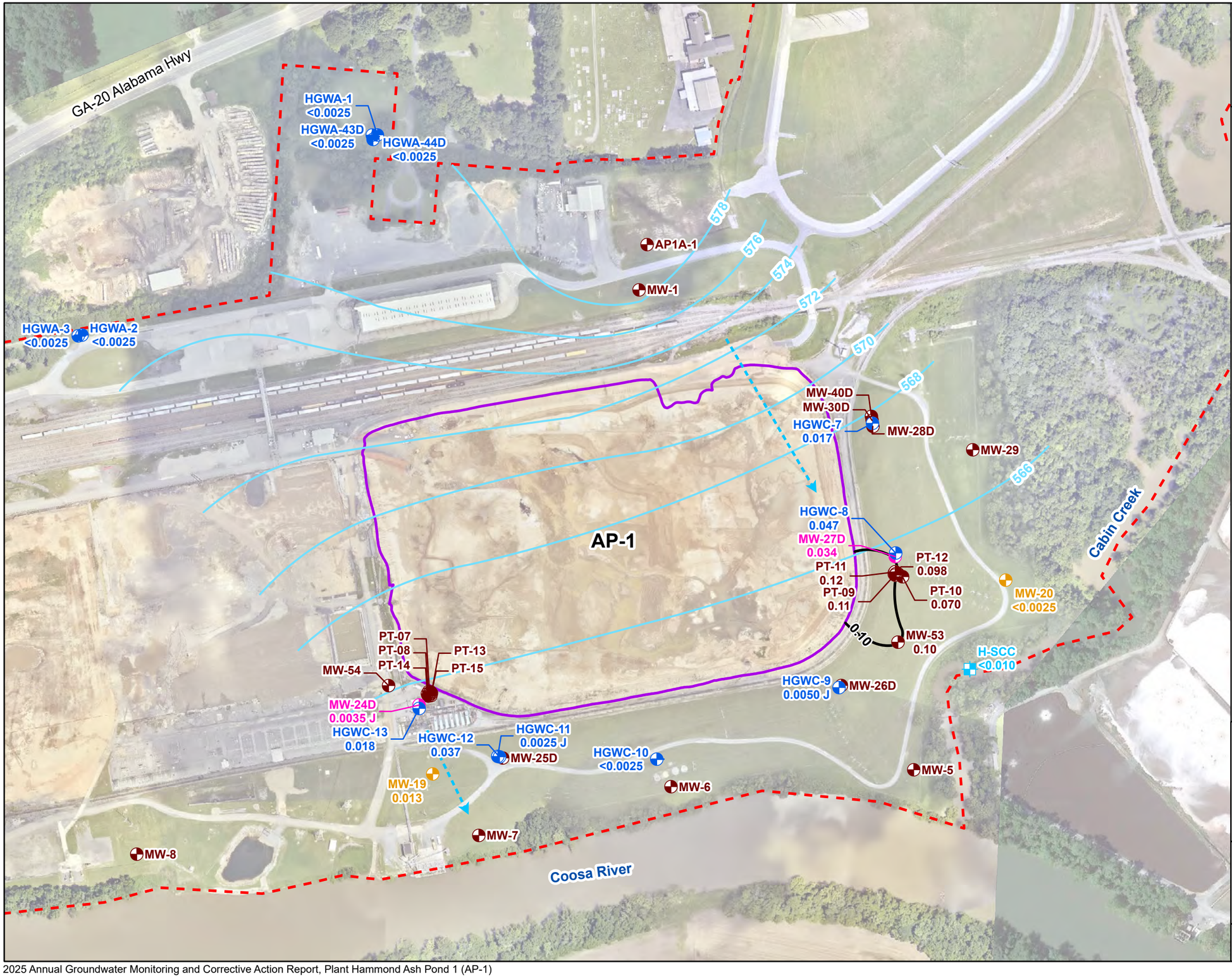
GEORGIA POWER COMPANY
PLANT HAMMOND AP-1
ROME, FLOYD COUNTY, GEORGIA

Prepared For: Georgia Power

Prepared By: Geosyntec consultants

KENNESAW, GA | JANUARY 2026

FIGURE 7



N

LEGEND

- Detection Monitoring Well
- Horizontal Assessment Monitoring Well
- Vertical Assessment Monitoring Well
- Piezometer
- Surface Water Sample Point
- GWPS Molybdenum Iso-Concentration Contour (mg/L)
- Groundwater Elevation Contour
- Approximate Groundwater Flow Direction
- Approximate AP-1 Boundary
- Plant Hammond Property Boundary

Notes:
1. Concentration data from groundwater samples collected during the August 2025 annual monitoring event. Data reported for wells screened deeper in the aquifer were not used to generate the iso-concentration contour (HGWA-43D, HGWA-44D, MW-24D, MW-25D, MW-26D, MW-27D, MW-28D). Concentrations are reported in mg/L.
2. Water level elevation recorded on August 4, 2025. Elevation provided in feet (ft) referenced to the North American Vertical Datum (NAVD) 88.
3. The Groundwater Protection Standard (GWPS) for arsenic is 0.01 mg/L.
4. Piezometers may be sampled as needed for constituent specific site characterization.
5. J - The result is an estimated concentration. “J” qualifiers are applied by the laboratory when the concentration reported is above the method detection limit, but below the laboratory reporting limit.
6. Vertical Assessment Monitoring Wells MW-25D, MW-26D, and MW-28D, and Horizontal Assessment Monitoring Wells MW-5, MW-6, MW-7, and MW-29, were reclassified as Piezometers after the 2025 semiannual groundwater monitoring event.
7. Aerial photograph source: Google Earth Pro, August 2019 and Georgia Power Company, June 2025.

0 150 300 600

SCALE IN FEET

ISO-CONCENTRATION MAP
MOLYBDENUM - AUGUST 2025

GEORGIA POWER COMPANY
PLANT HAMMOND AP-1
ROME, FLOYD COUNTY, GEORGIA

Prepared For: Georgia Power

Prepared By: Geosyntec consultants

KENNESAW, GA | JANUARY 2026

FIGURE 8

APPENDIX A

Well Maintenance and Repair Documentation Memoranda

FEBRUARY 2025

Geosyntec consultants

1255 Roberts Boulevard, Suite 200
Kennesaw, Georgia 30144
PH 678.202.9500
FAX 678.202.9501
www.geosyntec.com

MEMORANDUM

DATE: May 15, 2025

TO: Kristen Jurinko, P.G., Southern Company Services, Inc.

CC: Ben Hodges, P.G. Georgia Power Company

FROM: Geosyntec Consultants

SUBJECT: **Plant Hammond Ash Pond 1 (AP-1) – Well Maintenance and Repair Documentation, Georgia Power Company**

Geosyntec Consultants has prepared this memorandum to provide documentation of groundwater monitoring well maintenance and/or repair performed at Plant Hammond Ash Pond 1 (AP-1) during the February 2025 sampling event. All repairs and maintenance were completed in accordance with the Georgia Environmental Protection Division (GA EPD) guidance on routine visual inspections of groundwater monitoring wells. Documentation of the well inspections are provided as an attachment to this memorandum.

Georgia Power Site/Unit	Date Performed	Well ID	Maintenance/ Repair Performed
Hammond/AP-1	2/10/2025	All Wells	Checked and cleared weep holes of debris.

Attachment
Well Inspection Summary Table

Well Inspection

Site Name: Plant Hammond AP-1

Date: 2/10/2025

Permit Number: 057-023D (CCR)

Field Conditions: Cloudy, 50° F

Well ID:	Location/Identification			
	Visible and accessible	Properly identified with correct well ID	Located in high traffic area; does the well require protection from traffic	Acceptable drainage around well (no standing water, not located in obvious drainage flow path)
HGWA-1	Yes	Yes	No	Yes
HGWA-2	Yes	Yes	No	Yes
HGWA-3	Yes	Yes	No	Yes
HGWA-43D	Yes	Yes	No	Yes
HGWA-44D	Yes	Yes	No	Yes
HGWC-7	Yes	Yes	No	Yes
HGWC-8	Yes	Yes	No	Yes
HGWC-9	Yes	Yes	No	Yes
HGWC-10	Yes	Yes	No	Yes
HGWC-11	Yes	Yes	No	Yes
HGWC-12	Yes	Yes	No	Yes
HGWC-13	Yes	Yes	No	Yes
AP1A-1	Yes	Yes	No	Yes
AS-01	Yes	Yes	No	Yes
AS-02	Yes	Yes	No	Yes
AS-03	Yes	Yes	No	Yes
AS-04	Yes	Yes	No	Yes
INW-03	Yes	Yes	No	Yes
INW-04	Yes	Yes	No	Yes
INW-05	Yes	Yes	No	Yes
MW-1	Yes	Yes	No	Yes
MW-5	Yes	Yes	No	Yes
MW-6	Yes	Yes	No	Yes
MW-7	Yes	Yes	No	Yes
MW-8	Yes	Yes	No	Yes
MW-19	Yes	Yes	No	Yes
MW-20	Yes	Yes	No	Yes
MW-24D	Yes	Yes	No	Yes
MW-25D	Yes	Yes	No	Yes
MW-26D	Yes	Yes	No	Yes
MW-27D	Yes	Yes	No	Yes
MW-28D	Yes	Yes	No	Yes
MW-29	Yes	Yes	No	Yes
MW-30D	Yes	Yes	No	Yes
MW-40D	Yes	Yes	No	Yes
MW-53	Yes	Yes	No	Yes
MW-54	Yes	Yes	No	Yes
PT-07	Yes	Yes	No	Yes
PT-08	Yes	Yes	No	Yes
PT-09	Yes	Yes	No	Yes
PT-10	Yes	Yes	No	Yes
PT-11	Yes	Yes	No	Yes
PT-12	Yes	Yes	No	Yes
PT-13	Yes	Yes	No	Yes
PT-14	Yes	Yes	No	Yes
PT-15	Yes	Yes	No	Yes

Well Inspection

Site Name: Plant Hammond AP-1

Date: 2/10/2025

Permit Number: 057-023D (CCR)

Field Conditions: Cloudy, 50° F

Well ID:	Protective Casing				
	Free from apparent damage and able to be secured	No degradation or deterioration	Functioning weep hole	Annular space clear of debris and water, or filled with pea gravel/sand	Locked and is the lock in good condition
HGWA-1	Yes	Yes	Yes	Yes	Yes
HGWA-2	Yes	Yes	Yes	Yes	Yes
HGWA-3	Yes	Yes	Yes	Yes	Yes
HGWA-43D	Yes	Yes	Yes	Yes	Yes
HGWA-44D	Yes	Yes	Yes	Yes	Yes
HGWC-7	Yes	Yes	Yes	Yes	Yes
HGWC-8	Yes	Yes	Yes	Yes	Yes
HGWC-9	Yes	Yes	Yes	Yes	Yes
HGWC-10	Yes	Yes	Yes	Yes	Yes
HGWC-11	Yes	Yes	Yes	Yes	Yes
HGWC-12	Yes	Yes	Yes	Yes	Yes
HGWC-13	Yes	Yes	Yes	Yes	Yes
AP1A-1	Yes	Yes	Yes	Yes	Yes
AS-01	Yes	Yes	Yes	Yes	Yes
AS-02	Yes	Yes	Yes	Yes	Yes
AS-03	Yes	Yes	Yes	Yes	Yes
AS-04	Yes	Yes	Yes	Yes	Yes
INW-03	Yes	Yes	Yes	Yes	Yes
INW-04	Yes	Yes	Yes	Yes	Yes
INW-05	Yes	Yes	Yes	Yes	Yes
MW-1	Yes	Yes	Yes	Yes	Yes
MW-5	Yes	Yes	Yes	Yes	Yes
MW-6	Yes	Yes	Yes	Yes	Yes
MW-7	Yes	Yes	Yes	Yes	Yes
MW-8	Yes	Yes	Yes	Yes	Yes
MW-19	Yes	Yes	Yes	Yes	Yes
MW-20	Yes	Yes	Yes	Yes	Yes
MW-24D	Yes	Yes	Yes	Yes	Yes
MW-25D	Yes	Yes	Yes	Yes	Yes
MW-26D	Yes	Yes	Yes	Yes	Yes
MW-27D	Yes	Yes	Yes	Yes	Yes
MW-28D	Yes	Yes	Yes	Yes	Yes
MW-29	Yes	Yes	Yes	Yes	Yes
MW-30D	Yes	Yes	Yes	Yes	Yes
MW-40D	Yes	Yes	Yes	Yes	Yes
MW-53	Yes	Yes	Yes	Yes	Yes
MW-54	Yes	Yes	Yes	Yes	Yes
PT-07	Yes	Yes	Yes	Yes	Yes
PT-08	Yes	Yes	Yes	Yes	Yes
PT-09	Yes	Yes	Yes	Yes	Yes
PT-10	Yes	Yes	Yes	Yes	Yes
PT-11	Yes	Yes	Yes	Yes	Yes
PT-12	Yes	Yes	Yes	Yes	Yes
PT-13	Yes	Yes	Yes	Yes	Yes
PT-14	Yes	Yes	Yes	Yes	Yes
PT-15	Yes	Yes	Yes	Yes	Yes

Well Inspection

Site Name: Plant Hammond AP-1

Date: 2/10/2025

Permit Number: 057-023D (CCR)

Field Conditions: Cloudy, 50° F

Well ID:	Surface Pad			Internal Casing		
	Good condition (not cracked/ broken)	Sloped away from the protective casing	In complete contact with the ground surface and stable	Cap prevents entry of foreign material into the well	Free of kinks/bends, or any obstructions from foreign objects (such as bailers)	Properly vented for equilibration of air pressure
HGWA-1	Yes	Yes	Yes	Yes	Yes	Yes
HGWA-2	Yes	Yes	Yes	Yes	Yes	Yes
HGWA-3	Yes	Yes	Yes	Yes	Yes	Yes
HGWA-43D	Yes	Yes	Yes	Yes	Yes	Yes
HGWA-44D	Yes	Yes	Yes	Yes	Yes	Yes
HGWC-7	Yes	Yes	Yes	Yes	Yes	Yes
HGWC-8	Yes	Yes	Yes	Yes	Yes	Yes
HGWC-9	Yes	Yes	Yes	Yes	Yes	Yes
HGWC-10	Yes	Yes	Yes	Yes	Yes	Yes
HGWC-11	Yes	Yes	Yes	Yes	Yes	Yes
HGWC-12	Yes	Yes	Yes	Yes	Yes	Yes
HGWC-13	Yes	Yes	Yes	Yes	Yes	Yes
AP1A-1	Yes	Yes	Yes	Yes	Yes	Yes
AS-01	Yes	Yes	Yes	Yes	Yes	Yes
AS-02	Yes	Yes	Yes	Yes	Yes	Yes
AS-03	Yes	Yes	Yes	Yes	Yes	Yes
AS-04	Yes	Yes	Yes	Yes	Yes	Yes
INW-03	Yes	Yes	Yes	Yes	Yes	Yes
INW-04	Yes	Yes	Yes	Yes	Yes	Yes
INW-05	Yes	Yes	Yes	Yes	Yes	Yes
MW-1	Yes	Yes	Yes	Yes	Yes	Yes
MW-5	Yes	Yes	Yes	Yes	Yes	Yes
MW-6	Yes	Yes	Yes	Yes	Yes	Yes
MW-7	Yes	Yes	Yes	Yes	Yes	Yes
MW-8	Yes	Yes	Yes	Yes	Yes	Yes
MW-19	Yes	Yes	Yes	Yes	Yes	Yes
MW-20	Yes	Yes	Yes	Yes	Yes	Yes
MW-24D	Yes	Yes	Yes	Yes	Yes	Yes
MW-25D	Yes	Yes	Yes	Yes	Yes	Yes
MW-26D	Yes	Yes	Yes	Yes	Yes	Yes
MW-27D	Yes	Yes	Yes	Yes	Yes	Yes
MW-28D	Yes	Yes	Yes	Yes	Yes	Yes
MW-29	Yes	Yes	Yes	Yes	Yes	Yes
MW-30D	Yes	Yes	Yes	Yes	Yes	Yes
MW-40D	Yes	Yes	Yes	Yes	Yes	Yes
MW-53	Yes	Yes	Yes	Yes	Yes	Yes
MW-54	Yes	Yes	Yes	Yes	Yes	Yes
PT-07	Yes	Yes	Yes	Yes	Yes	Yes
PT-08	Yes	Yes	Yes	Yes	Yes	Yes
PT-09	Yes	Yes	Yes	Yes	Yes	Yes
PT-10	Yes	Yes	Yes	Yes	Yes	Yes
PT-11	Yes	Yes	Yes	Yes	Yes	Yes
PT-12	Yes	Yes	Yes	Yes	Yes	Yes
PT-13	Yes	Yes	Yes	Yes	Yes	Yes
PT-14	Yes	Yes	Yes	Yes	Yes	Yes
PT-15	Yes	Yes	Yes	Yes	Yes	Yes

Well Inspection

Site Name: Plant Hammond AP-1

Date: 2/10/2025

Permit Number: 057-023D (CCR)

Field Conditions: Cloudy, 50° F

Well ID:	Corrective actions as needed, by date:
HGWA-1	N/A
HGWA-2	N/A
HGWA-3	N/A
HGWA-43D	N/A
HGWA-44D	N/A
HGWC-7	N/A
HGWC-8	N/A
HGWC-9	N/A
HGWC-10	N/A
HGWC-11	N/A
HGWC-12	N/A
HGWC-13	N/A
AP1A-1	N/A
AS-01	N/A
AS-02	N/A
AS-03	N/A
AS-04	N/A
INW-03	N/A
INW-04	N/A
INW-05	N/A
MW-1	N/A
MW-5	N/A
MW-6	N/A
MW-7	N/A
MW-8	N/A
MW-19	N/A
MW-20	N/A
MW-24D	N/A
MW-25D	N/A
MW-26D	N/A
MW-27D	N/A
MW-28D	N/A
MW-29	N/A
MW-30D	N/A
MW-40D	N/A
MW-53	N/A
MW-54	N/A
PT-07	N/A
PT-08	N/A
PT-09	N/A
PT-10	N/A
PT-11	N/A
PT-12	N/A
PT-13	N/A
PT-14	N/A
PT-15	N/A

AUGUST 2025

Geosyntec consultants

1255 Roberts Boulevard, Suite 200
Kennesaw, Georgia 30144
PH 678.202.9500
FAX 678.202.9501
www.geosyntec.com

MEMORANDUM

DATE: September 15, 2025

TO: Kristen Jurinko, P.G., Southern Company Services, Inc.

CC: Ben Hodges, P.G. Georgia Power Company

FROM: Geosyntec Consultants

SUBJECT: **Plant Hammond Ash Pond 1 (AP-1) – Well Maintenance and Repair Documentation, Georgia Power Company**

Geosyntec Consultants has prepared this memorandum to provide documentation of groundwater monitoring well maintenance and/or repair performed at Plant Hammond Ash Pond 1 (AP-1) during the August 2025 sampling event. All repairs and maintenance were completed in accordance with the Georgia Environmental Protection Division (GA EPD) guidance on routine visual inspections of groundwater monitoring wells. Documentation of the well inspections are provided as an attachment to this memorandum.

Georgia Power Site/Unit	Date Performed	Well ID	Maintenance/ Repair Performed
Hammond/AP-1	8/4/2025	All Wells	Checked and cleared weep holes of debris.

Attachment
Well Inspection Summary Table

Well Inspection

Site Name: Plant Hammond AP-1

Date: 8/4/2025

Permit Number: 057-023D (CCR)

Field Conditions: Partly Cloudy, 65° F

Well ID:	Location/Identification			
	Visible and accessible	Properly identified with correct well ID	Located in high traffic area; does the well require protection from traffic	Acceptable drainage around well (no standing water, not located in obvious drainage flow path)
HGWA-1	Yes	Yes	No	Yes
HGWA-2	Yes	Yes	No	Yes
HGWA-3	Yes	Yes	No	Yes
HGWA-43D	Yes	Yes	No	Yes
HGWA-44D	Yes	Yes	No	Yes
HGWC-7	Yes	Yes	No	Yes
HGWC-8	Yes	Yes	No	Yes
HGWC-9	Yes	Yes	No	Yes
HGWC-10	Yes	Yes	No	Yes
HGWC-11	Yes	Yes	No	Yes
HGWC-12	Yes	Yes	No	Yes
HGWC-13	Yes	Yes	No	Yes
AP1A-1	Yes	Yes	No	Yes
AS-01	Yes	Yes	No	Yes
AS-02	Yes	Yes	No	Yes
AS-03	Yes	Yes	No	Yes
AS-04	Yes	Yes	No	Yes
INW-03	Yes	Yes	No	Yes
INW-04	Yes	Yes	No	Yes
INW-05	Yes	Yes	No	Yes
MW-1	Yes	Yes	No	Yes
MW-5	Yes	Yes	No	Yes
MW-6	Yes	Yes	No	Yes
MW-7	Yes	Yes	No	Yes
MW-8	Yes	Yes	No	Yes
MW-19	Yes	Yes	No	Yes
MW-20	Yes	Yes	No	Yes
MW-24D	Yes	Yes	No	Yes
MW-25D	Yes	Yes	No	Yes
MW-26D	Yes	Yes	No	Yes
MW-27D	Yes	Yes	No	Yes
MW-28D	Yes	Yes	No	Yes
MW-29	Yes	Yes	No	Yes
MW-30D	Yes	Yes	No	Yes
MW-40D	Yes	Yes	No	Yes
MW-53	Yes	Yes	No	Yes
MW-54	Yes	Yes	No	Yes
PT-07	Yes	Yes	No	Yes
PT-08	Yes	Yes	No	Yes
PT-09	Yes	Yes	No	Yes
PT-10	Yes	Yes	No	Yes
PT-11	Yes	Yes	No	Yes
PT-12	Yes	Yes	No	Yes
PT-13	Yes	Yes	No	Yes
PT-14	Yes	Yes	No	Yes
PT-15	Yes	Yes	No	Yes

Well Inspection

Site Name: Plant Hammond AP-1

Date: 8/4/2025

Permit Number: 057-023D (CCR)

Field Conditions: Partly Cloudy, 65° F

Well ID:	Protective Casing				
	Free from apparent damage and able to be secured	No degradation or deterioration	Functioning weep hole	Annular space clear of debris and water, or filled with pea gravel/sand	Locked and is the lock in good condition
HGWA-1	Yes	Yes	Yes	Yes	Yes
HGWA-2	Yes	Yes	Yes	Yes	Yes
HGWA-3	Yes	Yes	Yes	Yes	Yes
HGWA-43D	Yes	Yes	Yes	Yes	Yes
HGWA-44D	Yes	Yes	Yes	Yes	Yes
HGWC-7	Yes	Yes	Yes	Yes	Yes
HGWC-8	Yes	Yes	Yes	Yes	Yes
HGWC-9	Yes	Yes	Yes	Yes	Yes
HGWC-10	Yes	Yes	Yes	Yes	Yes
HGWC-11	Yes	Yes	Yes	Yes	Yes
HGWC-12	Yes	Yes	Yes	Yes	Yes
HGWC-13	Yes	Yes	Yes	Yes	Yes
AP1A-1	Yes	Yes	Yes	Yes	Yes
AS-01	Yes	Yes	Yes	Yes	Yes
AS-02	Yes	Yes	Yes	Yes	Yes
AS-03	Yes	Yes	Yes	Yes	Yes
AS-04	Yes	Yes	Yes	Yes	Yes
INW-03	Yes	Yes	Yes	Yes	Yes
INW-04	Yes	Yes	Yes	Yes	Yes
INW-05	Yes	Yes	Yes	Yes	Yes
MW-1	Yes	Yes	Yes	Yes	Yes
MW-5	Yes	Yes	Yes	Yes	Yes
MW-6	Yes	Yes	Yes	Yes	Yes
MW-7	Yes	Yes	Yes	Yes	Yes
MW-8	Yes	Yes	Yes	Yes	Yes
MW-19	Yes	Yes	Yes	Yes	Yes
MW-20	Yes	Yes	Yes	Yes	Yes
MW-24D	Yes	Yes	Yes	Yes	Yes
MW-25D	Yes	Yes	Yes	Yes	Yes
MW-26D	Yes	Yes	Yes	Yes	Yes
MW-27D	Yes	Yes	Yes	Yes	Yes
MW-28D	Yes	Yes	Yes	Yes	Yes
MW-29	Yes	Yes	Yes	Yes	Yes
MW-30D	Yes	Yes	Yes	Yes	Yes
MW-40D	Yes	Yes	Yes	Yes	Yes
MW-53	Yes	Yes	Yes	Yes	Yes
MW-54	Yes	Yes	Yes	Yes	Yes
PT-07	Yes	Yes	Yes	Yes	Yes
PT-08	Yes	Yes	Yes	Yes	Yes
PT-09	Yes	Yes	Yes	Yes	Yes
PT-10	Yes	Yes	Yes	Yes	Yes
PT-11	Yes	Yes	Yes	Yes	Yes
PT-12	Yes	Yes	Yes	Yes	Yes
PT-13	Yes	Yes	Yes	Yes	Yes
PT-14	Yes	Yes	Yes	Yes	Yes
PT-15	Yes	Yes	Yes	Yes	Yes

Well Inspection

Site Name: Plant Hammond AP-1

Date: 8/4/2025

Permit Number: 057-023D (CCR)

Field Conditions: Partly Cloudy, 65° F

	Surface Pad			Internal Casing		
Well ID:	Good condition (not cracked/ broken)	Sloped away from the protective casing	In complete contact with the ground surface and stable	Cap prevents entry of foreign material into the well	Free of kinks/bends, or any obstructions from foreign objects (such as bailers)	Properly vented for equilibration of air pressure
HGWA-1	Yes	Yes	Yes	Yes	Yes	Yes
HGWA-2	Yes	Yes	Yes	Yes	Yes	Yes
HGWA-3	Yes	Yes	Yes	Yes	Yes	Yes
HGWA-43D	Yes	Yes	Yes	Yes	Yes	Yes
HGWA-44D	Yes	Yes	Yes	Yes	Yes	Yes
HGWC-7	Yes	Yes	Yes	Yes	Yes	Yes
HGWC-8	Yes	Yes	Yes	Yes	Yes	Yes
HGWC-9	Yes	Yes	Yes	Yes	Yes	Yes
HGWC-10	Yes	Yes	Yes	Yes	Yes	Yes
HGWC-11	Yes	Yes	Yes	Yes	Yes	Yes
HGWC-12	Yes	Yes	Yes	Yes	Yes	Yes
HGWC-13	Yes	Yes	Yes	Yes	Yes	Yes
AP1A-1	Yes	Yes	Yes	Yes	Yes	Yes
AS-01	Yes	Yes	Yes	Yes	Yes	Yes
AS-02	Yes	Yes	Yes	Yes	Yes	Yes
AS-03	Yes	Yes	Yes	Yes	Yes	Yes
AS-04	Yes	Yes	Yes	Yes	Yes	Yes
INW-03	Yes	Yes	Yes	Yes	Yes	Yes
INW-04	Yes	Yes	Yes	Yes	Yes	Yes
INW-05	Yes	Yes	Yes	Yes	Yes	Yes
MW-1	Yes	Yes	Yes	Yes	Yes	Yes
MW-5	Yes	Yes	Yes	Yes	Yes	Yes
MW-6	Yes	Yes	Yes	Yes	Yes	Yes
MW-7	Yes	Yes	Yes	Yes	Yes	Yes
MW-8	Yes	Yes	Yes	Yes	Yes	Yes
MW-19	Yes	Yes	Yes	Yes	Yes	Yes
MW-20	Yes	Yes	Yes	Yes	Yes	Yes
MW-24D	Yes	Yes	Yes	Yes	Yes	Yes
MW-25D	Yes	Yes	Yes	Yes	Yes	Yes
MW-26D	Yes	Yes	Yes	Yes	Yes	Yes
MW-27D	Yes	Yes	Yes	Yes	Yes	Yes
MW-28D	Yes	Yes	Yes	Yes	Yes	Yes
MW-29	Yes	Yes	Yes	Yes	Yes	Yes
MW-30D	Yes	Yes	Yes	Yes	Yes	Yes
MW-40D	Yes	Yes	Yes	Yes	Yes	Yes
MW-53	Yes	Yes	Yes	Yes	Yes	Yes
MW-54	Yes	Yes	Yes	Yes	Yes	Yes
PT-07	Yes	Yes	Yes	Yes	Yes	Yes
PT-08	Yes	Yes	Yes	Yes	Yes	Yes
PT-09	Yes	Yes	Yes	Yes	Yes	Yes
PT-10	Yes	Yes	Yes	Yes	Yes	Yes
PT-11	Yes	Yes	Yes	Yes	Yes	Yes
PT-12	Yes	Yes	Yes	Yes	Yes	Yes
PT-13	Yes	Yes	Yes	Yes	Yes	Yes
PT-14	Yes	Yes	Yes	Yes	Yes	Yes
PT-15	Yes	Yes	Yes	Yes	Yes	Yes

Well Inspection

Site Name: Plant Hammond AP-1

Date: 8/4/2025

Permit Number: 057-023D (CCR)

Field Conditions: Partly Cloudy, 65° F

Well ID:	Corrective actions as needed, by date:
HGWA-1	N/A
HGWA-2	N/A
HGWA-3	N/A
HGWA-43D	N/A
HGWA-44D	N/A
HGWC-7	N/A
HGWC-8	N/A
HGWC-9	N/A
HGWC-10	N/A
HGWC-11	N/A
HGWC-12	N/A
HGWC-13	N/A
AP1A-1	N/A
AS-01	N/A
AS-02	N/A
AS-03	N/A
AS-04	N/A
INW-03	N/A
INW-04	N/A
INW-05	N/A
MW-1	N/A
MW-5	N/A
MW-6	N/A
MW-7	N/A
MW-8	N/A
MW-19	N/A
MW-20	N/A
MW-24D	N/A
MW-25D	N/A
MW-26D	N/A
MW-27D	N/A
MW-28D	N/A
MW-29	N/A
MW-30D	N/A
MW-40D	N/A
MW-53	N/A
MW-54	N/A
PT-07	N/A
PT-08	N/A
PT-09	N/A
PT-10	N/A
PT-11	N/A
PT-12	N/A
PT-13	N/A
PT-14	N/A
PT-15	N/A

APPENDIX B

Laboratory Analytical and Field Sampling Reports

LABORATORY ANALYTICAL RESULTS

FEBRUARY 2025

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

March 27, 2025

Kristen Jurinko
Southern Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, GA 30308

RE: Project: Hammond Pooled Upgradient
Pace Project No.: 92779989

Dear Kristen Jurinko:

Enclosed are the analytical results for sample(s) received by the laboratory between February 14, 2025 and February 17, 2025. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace National - Mt. Juliet
- Pace Analytical Services - Asheville
- Pace Analytical Services - West Columbia

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Bonnie Vang

Bonnie Vang
bonnie.vang@pacelabs.com
704-977-0968
Project Manager

Enclosures

cc: Kip Gray, Geosyntec
Christine Hug, Geosyntec Consultants, Inc.
Thomas Kessler, Geosyntec Consultants
Whitney Law, Geosyntec Consultants
Laura Midkiff, Southern Company
Caroline Nelson, Geosyntec Consultants, Inc
Jamie Newsome, Geosyntec Consultants
Zain Webb, Geosyntec Consultants

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: Hammond Pooled Upgradient
Pace Project No.: 92779989

Pace Analytical Services National

12065 Lebanon Road, Mt. Juliet, TN 37122
Alabama Certification #: 40660
Alaska Certification 17-026
Arizona Certification #: AZ0612
Arkansas Certification #: 88-0469
California Certification #: 2932
Canada Certification #: 1461.01
Colorado Certification #: TN00003
Connecticut Certification #: PH-0197
DOD Certification: #1461.01
EPA# TN00003
Florida Certification #: E87487
Georgia DW Certification #: 923
Georgia Certification: NELAP
Idaho Certification #: TN00003
Illinois Certification #: 200008
Indiana Certification #: C-TN-01
Iowa Certification #: 364
Kansas Certification #: E-10277
Kentucky UST Certification #: 16
Kentucky Certification #: 90010
Louisiana Certification #: AI30792
Louisiana DW Certification #: LA180010
Maine Certification #: TN0002
Maryland Certification #: 324
Massachusetts Certification #: M-TN003
Michigan Certification #: 9958
Minnesota Certification #: 047-999-395
Mississippi Certification #: TN00003
Missouri Certification #: 340
Montana Certification #: CERT0086
Nebraska Certification #: NE-OS-15-05
Nevada Certification #: TN-03-2002-34
New Hampshire Certification #: 2975
New Jersey Certification #: TN002
New Mexico DW Certification
New York Certification #: 11742
North Carolina Aquatic Toxicity Certification #: 41
North Carolina Drinking Water Certification #: 21704
North Carolina Environmental Certificate #: 375
North Dakota Certification #: R-140
Ohio VAP Certification #: CL0069
Oklahoma Certification #: 9915
Oregon Certification #: TN200002
Pennsylvania Certification #: 68-02979
Rhode Island Certification #: LAO00356
South Carolina Certification #: 84004
South Dakota Certification
Tennessee DW/Chem/Micro Certification #: 2006
Texas Certification #: T 104704245-17-14
Texas Mold Certification #: LAB0152
USDA Soil Permit #: P330-15-00234
Utah Certification #: TN00003
Virginia Certification #: VT2006
Vermont Dept. of Health: ID# VT-2006
Virginia Certification #: 460132
Washington Certification #: C847
West Virginia Certification #: 233
Wisconsin Certification #: 998093910
Wyoming UST Certification #: via A2LA 2926.01
A2LA-ISO 17025 Certification #: 1461.01
A2LA-ISO 17025 Certification #: 1461.02
AIHA-LAP/LLC EMLAP Certification #:100789

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Laboratory ID: 99030
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services West Columbia

106 Vantage Point Drive, West Columbia, SC 29172
Alaska Dept. of Energy Conservation, Cert# 20-002
California ELAP, cert# 3049
DoD, DoD QSM V5.4, cert# I.2224
DOE, DoD/DOE QSM V5.4, cert# I.2224.01
Florida, Dept. of Health, cert# E87653-70
Georgia, Env. Protection Division, cert# E87653
Illinois, EPA NELAP, cert# 2000552024-9
Kansas, Dept. of Health and Environment, cert# E-10417
Kentucky, Dept. for Env. Protection, UST, cert# 103582
Kentucky, Dept. for Env. Protection, cert# 98037
Louisiana, Dept. of Environmental Quality, cert# 5125
North Carolina, DEQ, Water Resources, cert# 329
New Jersey, Dept. of Env. Protection, cert# NLC 240005
Oklahoma, Dept. of Env. Quality, cert# 2023-175
Oregon, ELAP, cert# 4181-006
Pennsylvania, Dept. of Env. Protection, cert# 003
South Carolina, Dept. of Env. Services, cert# 32010001
Texas, Commission on Env. Quality, cert# TX-C24-00083
Virginia, Dept. of General Services, cert# 13080
Wisconsin, Dept. of Natural Resources, cert# 399136100

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE SUMMARY

Project: Hammond Pooled Upgradient
Pace Project No.: 92779989

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92779989001	**HAM-HGWA-1**	Water	02/12/25 13:38	02/14/25 16:10
92779989002	**HAM-HGWA-3**	Water	02/12/25 14:30	02/14/25 16:10
92779989003	**HAM-HGWA-43D**	Water	02/12/25 14:50	02/14/25 16:10
92779989004	**HAM-HGWA-44D**	Water	02/12/25 15:42	02/14/25 16:10
92779989005	**HAM-UGRD-EB-01**	Water	02/13/25 17:30	02/14/25 16:10
92779989006	**HAM-UGRD-FB-01**	Water	02/13/25 17:25	02/14/25 16:10
92779989007	**HAM-HGWA-2**	Water	02/14/25 09:20	02/17/25 14:45
92779989008	**HAM-UGRD-FD-01**	Water	02/14/25 00:00	02/17/25 14:45

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Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: Hammond Pooled Upgradient
Pace Project No.: 92779989

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92779989001	**HAM-HGWA-1**	EPA 6020B	LD	1	PAN
		EPA 7470A	MAB2	1	PASI-A
		SM 2320B-2011	SMS	3	PASI-A
		SM 2540C-2015	CMW1	1	PASI-A
		SM 4500-S2D-2011	JP1	1	PASI-A
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6020B	BK1	18	PASI-WC
92779989002	**HAM-HGWA-3**	EPA 6020B	SJM	1	PAN
		EPA 7470A	MAB2	1	PASI-A
		SM 2320B-2011	SMS	3	PASI-A
		SM 2540C-2015	CMW1	1	PASI-A
		SM 4500-S2D-2011	JP1	1	PASI-A
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6020B	BK1	18	PASI-WC
92779989003	**HAM-HGWA-43D**	EPA 6020B	SJM	1	PAN
		EPA 7470A	MAB2	1	PASI-A
		SM 2320B-2011	SMS	3	PASI-A
		SM 2540C-2015	CMW1	1	PASI-A
		SM 4500-S2D-2011	JP1	1	PASI-A
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6020B	BK1	18	PASI-WC
92779989004	**HAM-HGWA-44D**	EPA 6020B	SJM	1	PAN
		EPA 7470A	MAB2	1	PASI-A
		SM 2320B-2011	SMS	3	PASI-A
		SM 2540C-2015	CMW1	1	PASI-A
		SM 4500-S2D-2011	JP1	1	PASI-A
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6020B	BK1	18	PASI-WC
92779989005	**HAM-UGRD-EB-01**	EPA 6020B	UNP	1	PAN
		EPA 7470A	MAB2	1	PASI-A
		SM 2540C-2015	HCH	1	PASI-A
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6020B	BK1	13	PASI-WC
92779989006	**HAM-UGRD-FB-01**	EPA 6020B	SJM	1	PAN
		EPA 7470A	MAB2	1	PASI-A
		SM 2540C-2015	HCH	1	PASI-A
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A

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SAMPLE ANALYTE COUNT

Project: Hammond Pooled Upgradient
Pace Project No.: 92779989

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 6020B	BK1	13	PASI-WC
92779989007	**HAM-HGWA-2**	EPA 6020B	SJM	1	PAN
		EPA 7470A	MAB2	1	PASI-A
		SM 2320B-2011	YEG	3	PASI-A
		SM 2540C-2015	CDM	1	PASI-A
		SM 4500-S2D-2011	JP1	1	PASI-A
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6020B	BK1	18	PASI-WC
92779989008	**HAM-UGRD-FD-01**	EPA 6020B	SJM	1	PAN
		EPA 7470A	MAB2	1	PASI-A
		SM 2540C-2015	CDM	1	PASI-A
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6020B	BK1	13	PASI-WC

PAN = Pace National - Mt. Juliet
PASI-A = Pace Analytical Services - Asheville
PASI-WC = Pace Analytical Services - West Columbia

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SUMMARY OF DETECTION

Project: Hammond Pooled Upgradient
Pace Project No.: 92779989

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92779989001	**HAM-HGWA-1**					
EPA 6020B	Lithium	0.00119J	mg/L	0.0300	03/19/25 23:57	J
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	283	mg/L	5.0	02/20/25 14:38	
SM 2320B-2011	Alkalinity, Total as CaCO3	283	mg/L	5.0	02/20/25 14:38	
SM 2540C-2015	Total Dissolved Solids	374	mg/L	25.0	02/18/25 17:54	
EPA 300.0 Rev 2.1 1993	Chloride	4.8	mg/L	1.0	02/18/25 14:32	
EPA 300.0 Rev 2.1 1993	Fluoride	0.10	mg/L	0.10	02/18/25 14:32	
EPA 300.0 Rev 2.1 1993	Sulfate	43.8	mg/L	1.0	02/18/25 14:32	
EPA 6020B	Barium	0.034	mg/L	0.0050	03/13/25 09:40	
EPA 6020B	Boron	0.021J	mg/L	0.040	03/13/25 09:40	
EPA 6020B	Calcium	125	mg/L	10.0	03/12/25 18:52	
EPA 6020B	Iron	0.023J	mg/L	0.040	03/13/25 09:40	
EPA 6020B	Magnesium	4.7	mg/L	0.050	03/13/25 09:40	
EPA 6020B	Manganese	0.063	mg/L	0.040	03/13/25 09:40	
EPA 6020B	Potassium	0.48J	mg/L	0.50	03/13/25 09:40	
EPA 6020B	Sodium	14.7	mg/L	1.0	03/13/25 09:40	
92779989002	**HAM-HGWA-3**					
EPA 6020B	Lithium	0.00331J	mg/L	0.0300	03/19/25 12:43	J
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	223	mg/L	5.0	02/20/25 14:46	
SM 2320B-2011	Alkalinity, Total as CaCO3	223	mg/L	5.0	02/20/25 14:46	
SM 2540C-2015	Total Dissolved Solids	267	mg/L	25.0	02/18/25 17:55	
EPA 300.0 Rev 2.1 1993	Chloride	5.0	mg/L	1.0	02/18/25 14:48	
EPA 300.0 Rev 2.1 1993	Fluoride	0.073J	mg/L	0.10	02/18/25 14:48	
EPA 300.0 Rev 2.1 1993	Sulfate	28.0	mg/L	1.0	02/18/25 14:48	
EPA 6020B	Barium	0.13	mg/L	0.0050	03/13/25 09:49	
EPA 6020B	Boron	0.011J	mg/L	0.040	03/13/25 09:49	
EPA 6020B	Calcium	86.6	mg/L	10.0	03/12/25 19:01	
EPA 6020B	Iron	0.91	mg/L	0.040	03/13/25 09:49	
EPA 6020B	Magnesium	5.5	mg/L	0.050	03/13/25 09:49	
EPA 6020B	Manganese	0.25	mg/L	0.040	03/13/25 09:49	
EPA 6020B	Potassium	0.46J	mg/L	0.50	03/13/25 09:49	
EPA 6020B	Sodium	5.7	mg/L	1.0	03/13/25 09:49	
92779989003	**HAM-HGWA-43D**					
EPA 6020B	Lithium	0.00266J	mg/L	0.0300	03/19/25 12:46	J
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	237	mg/L	5.0	02/20/25 14:54	
SM 2320B-2011	Alkalinity, Total as CaCO3	237	mg/L	5.0	02/20/25 14:54	
SM 2540C-2015	Total Dissolved Solids	273	mg/L	25.0	02/18/25 17:55	
SM 4500-S2D-2011	Sulfide	0.025J	mg/L	0.10	02/19/25 01:49	
EPA 300.0 Rev 2.1 1993	Chloride	3.8	mg/L	1.0	02/18/25 15:04	
EPA 300.0 Rev 2.1 1993	Fluoride	0.21	mg/L	0.10	02/18/25 15:04	
EPA 300.0 Rev 2.1 1993	Sulfate	25.2	mg/L	1.0	02/18/25 15:04	
EPA 6020B	Barium	0.30	mg/L	0.0050	03/13/25 09:58	
EPA 6020B	Boron	0.040J	mg/L	0.040	03/13/25 09:58	
EPA 6020B	Calcium	61.8	mg/L	10.0	03/12/25 19:10	
EPA 6020B	Iron	0.27	mg/L	0.040	03/13/25 09:58	
EPA 6020B	Magnesium	19.3	mg/L	0.050	03/13/25 09:58	
EPA 6020B	Manganese	0.015J	mg/L	0.040	03/13/25 09:58	

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SUMMARY OF DETECTION

Project: Hammond Pooled Upgradient
Pace Project No.: 92779989

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92779989003	**HAM-HGWA-43D**					
EPA 6020B	Potassium	0.86	mg/L	0.50	03/13/25 09:58	
EPA 6020B	Sodium	19.8	mg/L	1.0	03/13/25 09:58	
92779989004	**HAM-HGWA-44D**					
EPA 6020B	Lithium	0.101	mg/L	0.0300	03/19/25 12:49	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	294	mg/L	5.0	02/20/25 15:02	
SM 2320B-2011	Alkalinity, Total as CaCO3	294	mg/L	5.0	02/20/25 15:02	
SM 2540C-2015	Total Dissolved Solids	363	mg/L	25.0	02/18/25 17:55	
SM 4500-S2D-2011	Sulfide	0.10	mg/L	0.10	02/19/25 01:51	
EPA 300.0 Rev 2.1 1993	Chloride	30.7	mg/L	1.0	02/18/25 15:20	
EPA 300.0 Rev 2.1 1993	Fluoride	1.1	mg/L	0.10	02/18/25 15:20	
EPA 300.0 Rev 2.1 1993	Sulfate	0.51J	mg/L	1.0	02/18/25 15:20	
EPA 6020B	Arsenic	0.0014J	mg/L	0.0050	03/12/25 23:41	
EPA 6020B	Barium	0.095	mg/L	0.0050	03/12/25 23:41	
EPA 6020B	Boron	0.54	mg/L	0.40	03/12/25 19:19	
EPA 6020B	Calcium	7.2	mg/L	1.0	03/12/25 23:41	
EPA 6020B	Iron	0.19	mg/L	0.040	03/12/25 23:41	
EPA 6020B	Magnesium	3.5	mg/L	0.050	03/12/25 23:41	
EPA 6020B	Manganese	0.0058J	mg/L	0.040	03/12/25 23:41	
EPA 6020B	Potassium	2.3J	mg/L	5.0	03/12/25 19:19	1g
EPA 6020B	Sodium	141	mg/L	10.0	03/12/25 19:19	
92779989007	**HAM-HGWA-2**					
EPA 6020B	Lithium	0.00183J	mg/L	0.0300	03/19/25 12:56	J
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	58.3	mg/L	5.0	02/25/25 17:18	
SM 2320B-2011	Alkalinity, Total as CaCO3	58.3	mg/L	5.0	02/25/25 17:18	
SM 2540C-2015	Total Dissolved Solids	242	mg/L	25.0	02/21/25 12:15	
EPA 300.0 Rev 2.1 1993	Chloride	8.5	mg/L	1.0	02/18/25 14:01	
EPA 300.0 Rev 2.1 1993	Fluoride	0.10	mg/L	0.10	02/18/25 14:01	
EPA 300.0 Rev 2.1 1993	Sulfate	94.5	mg/L	1.0	02/18/25 14:01	M1
EPA 6020B	Barium	0.057	mg/L	0.0050	03/13/25 02:15	
EPA 6020B	Beryllium	0.00023J	mg/L	0.00050	03/13/25 02:15	
EPA 6020B	Boron	0.053	mg/L	0.040	03/13/25 02:15	
EPA 6020B	Cadmium	0.00028J	mg/L	0.00050	03/13/25 02:15	
EPA 6020B	Calcium	51.5	mg/L	10.0	03/12/25 21:53	
EPA 6020B	Cobalt	0.030	mg/L	0.0050	03/13/25 02:15	
EPA 6020B	Iron	0.068	mg/L	0.040	03/13/25 02:15	
EPA 6020B	Magnesium	5.0	mg/L	0.050	03/13/25 02:15	
EPA 6020B	Manganese	0.84	mg/L	0.40	03/12/25 21:53	
EPA 6020B	Potassium	1.5	mg/L	0.50	03/13/25 02:15	
EPA 6020B	Selenium	0.0043J	mg/L	0.0050	03/14/25 18:01	
EPA 6020B	Sodium	12.5	mg/L	1.0	03/13/25 02:15	
92779989008	**HAM-UGRD-FD-01**					
EPA 6020B	Lithium	0.00182J	mg/L	0.0300	03/19/25 12:59	J
SM 2540C-2015	Total Dissolved Solids	230	mg/L	25.0	02/21/25 12:16	
EPA 300.0 Rev 2.1 1993	Chloride	8.5	mg/L	1.0	02/18/25 15:08	
EPA 300.0 Rev 2.1 1993	Fluoride	0.096J	mg/L	0.10	02/18/25 15:08	
EPA 300.0 Rev 2.1 1993	Sulfate	94.9	mg/L	1.0	02/18/25 15:08	

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SUMMARY OF DETECTION

Project: Hammond Pooled Upgradient
Pace Project No.: 92779989

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92779989008	**HAM-UGRD-FD-01**					
EPA 6020B	Barium	0.052	mg/L	0.0050	03/13/25 02:24	
EPA 6020B	Beryllium	0.00023J	mg/L	0.00050	03/13/25 02:24	
EPA 6020B	Boron	0.050	mg/L	0.040	03/13/25 02:24	
EPA 6020B	Cadmium	0.00026J	mg/L	0.00050	03/13/25 02:24	
EPA 6020B	Calcium	45.9	mg/L	10.0	03/12/25 22:02	
EPA 6020B	Cobalt	0.028	mg/L	0.0050	03/13/25 02:24	
EPA 6020B	Selenium	0.0040J	mg/L	0.0050	03/14/25 18:10	

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ANALYTICAL RESULTS

Project: Hammond Pooled Upgradient
Pace Project No.: 92779989

Sample: HAM-HGWA-1 **Lab ID: 92779989001** Collected: 02/12/25 13:38 Received: 02/14/25 16:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.00119J**	mg/L	0.0300	0.000600	1	03/18/25 08:25	03/19/25 23:57	7439-93-2	J
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	02/18/25 17:23	02/23/25 12:33	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**283**	mg/L	5.0	5.0	1		02/20/25 14:38		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/20/25 14:38		
Alkalinity, Total as CaCO3	**283**	mg/L	5.0	5.0	1		02/20/25 14:38		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**374**	mg/L	25.0	25.0	1		02/18/25 17:54		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		02/19/25 01:49	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**4.8**	mg/L	1.0	0.60	1		02/18/25 14:32	16887-00-6	
Fluoride	**0.10**	mg/L	0.10	0.050	1		02/18/25 14:32	16984-48-8	
Sulfate	**43.8**	mg/L	1.0	0.50	1		02/18/25 14:32	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	03/10/25 11:48	03/13/25 09:40	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/13/25 09:40	7440-38-2	
Barium	**0.034**	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/13/25 09:40	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	03/10/25 11:48	03/13/25 09:40	7440-41-7	
Boron	**0.021J**	mg/L	0.040	0.0062	1	03/10/25 11:48	03/13/25 09:40	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/10/25 11:48	03/13/25 09:40	7440-43-9	
Calcium	**125**	mg/L	10.0	1.0	10	03/10/25 11:48	03/12/25 18:52	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/13/25 09:40	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/13/25 09:40	7440-48-4	
Iron	**0.023J**	mg/L	0.040	0.012	1	03/10/25 11:48	03/13/25 09:40	7439-89-6	
Lead	ND	mg/L	0.0010	0.00025	1	03/10/25 11:48	03/13/25 09:40	7439-92-1	
Magnesium	**4.7**	mg/L	0.050	0.010	1	03/10/25 11:48	03/13/25 09:40	7439-95-4	
Manganese	**0.063**	mg/L	0.040	0.0012	1	03/10/25 11:48	03/13/25 09:40	7439-96-5	
Molybdenum	ND	mg/L	0.010	0.0025	1	03/10/25 11:48	03/13/25 09:40	7439-98-7	
Potassium	**0.48J**	mg/L	0.50	0.10	1	03/10/25 11:48	03/13/25 09:40	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/13/25 09:40	7782-49-2	

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ANALYTICAL RESULTS

Project: Hammond Pooled Upgradient
Pace Project No.: 92779989

Sample: HAM-HGWA-1 **Lab ID: 92779989001** Collected: 02/12/25 13:38 Received: 02/14/25 16:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Sodium	**14.7**	mg/L	1.0	0.15	1	03/10/25 11:48	03/13/25 09:40	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	03/10/25 11:48	03/13/25 09:40	7440-28-0	

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ANALYTICAL RESULTS

Project: Hammond Pooled Upgradient
Pace Project No.: 92779989

Sample: HAM-HGWA-3 **Lab ID: 92779989002** Collected: 02/12/25 14:30 Received: 02/14/25 16:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.00331J**	mg/L	0.0300	0.000600	1	03/18/25 13:14	03/19/25 12:43	7439-93-2	J
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	02/18/25 17:23	02/23/25 12:39	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**223**	mg/L	5.0	5.0	1		02/20/25 14:46		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/20/25 14:46		
Alkalinity, Total as CaCO3	**223**	mg/L	5.0	5.0	1		02/20/25 14:46		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**267**	mg/L	25.0	25.0	1		02/18/25 17:55		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		02/19/25 01:49	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**5.0**	mg/L	1.0	0.60	1		02/18/25 14:48	16887-00-6	
Fluoride	**0.073J**	mg/L	0.10	0.050	1		02/18/25 14:48	16984-48-8	
Sulfate	**28.0**	mg/L	1.0	0.50	1		02/18/25 14:48	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	03/10/25 11:48	03/13/25 09:49	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/13/25 09:49	7440-38-2	
Barium	**0.13**	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/13/25 09:49	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	03/10/25 11:48	03/13/25 09:49	7440-41-7	
Boron	**0.011J**	mg/L	0.040	0.0062	1	03/10/25 11:48	03/13/25 09:49	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/10/25 11:48	03/13/25 09:49	7440-43-9	
Calcium	**86.6**	mg/L	10.0	1.0	10	03/10/25 11:48	03/12/25 19:01	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/13/25 09:49	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/13/25 09:49	7440-48-4	
Iron	**0.91**	mg/L	0.040	0.012	1	03/10/25 11:48	03/13/25 09:49	7439-89-6	
Lead	ND	mg/L	0.0010	0.00025	1	03/10/25 11:48	03/13/25 09:49	7439-92-1	
Magnesium	**5.5**	mg/L	0.050	0.010	1	03/10/25 11:48	03/13/25 09:49	7439-95-4	
Manganese	**0.25**	mg/L	0.040	0.0012	1	03/10/25 11:48	03/13/25 09:49	7439-96-5	
Molybdenum	ND	mg/L	0.010	0.0025	1	03/10/25 11:48	03/13/25 09:49	7439-98-7	
Potassium	**0.46J**	mg/L	0.50	0.10	1	03/10/25 11:48	03/13/25 09:49	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/13/25 09:49	7782-49-2	

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ANALYTICAL RESULTS

Project: Hammond Pooled Upgradient
Pace Project No.: 92779989

Sample: HAM-HGWA-3 **Lab ID: 92779989002** Collected: 02/12/25 14:30 Received: 02/14/25 16:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Sodium	**5.7**	mg/L	1.0	0.15	1	03/10/25 11:48	03/13/25 09:49	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	03/10/25 11:48	03/13/25 09:49	7440-28-0	

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ANALYTICAL RESULTS

Project: Hammond Pooled Upgradient
Pace Project No.: 92779989

Sample: HAM-HGWA-43D **Lab ID: 92779989003** Collected: 02/12/25 14:50 Received: 02/14/25 16:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.00266J**	mg/L	0.0300	0.000600	1	03/18/25 13:14	03/19/25 12:46	7439-93-2	J
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	02/18/25 17:23	02/23/25 12:41	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**237**	mg/L	5.0	5.0	1		02/20/25 14:54		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/20/25 14:54		
Alkalinity, Total as CaCO3	**237**	mg/L	5.0	5.0	1		02/20/25 14:54		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**273**	mg/L	25.0	25.0	1		02/18/25 17:55		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	**0.025J**	mg/L	0.10	0.022	1		02/19/25 01:49	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**3.8**	mg/L	1.0	0.60	1		02/18/25 15:04	16887-00-6	
Fluoride	**0.21**	mg/L	0.10	0.050	1		02/18/25 15:04	16984-48-8	
Sulfate	**25.2**	mg/L	1.0	0.50	1		02/18/25 15:04	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	03/10/25 11:48	03/13/25 09:58	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/13/25 09:58	7440-38-2	
Barium	**0.30**	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/13/25 09:58	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	03/10/25 11:48	03/13/25 09:58	7440-41-7	
Boron	**0.040J**	mg/L	0.040	0.0062	1	03/10/25 11:48	03/13/25 09:58	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/10/25 11:48	03/13/25 09:58	7440-43-9	
Calcium	**61.8**	mg/L	10.0	1.0	10	03/10/25 11:48	03/12/25 19:10	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/13/25 09:58	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/13/25 09:58	7440-48-4	
Iron	**0.27**	mg/L	0.040	0.012	1	03/10/25 11:48	03/13/25 09:58	7439-89-6	
Lead	ND	mg/L	0.0010	0.00025	1	03/10/25 11:48	03/13/25 09:58	7439-92-1	
Magnesium	**19.3**	mg/L	0.050	0.010	1	03/10/25 11:48	03/13/25 09:58	7439-95-4	
Manganese	**0.015J**	mg/L	0.040	0.0012	1	03/10/25 11:48	03/13/25 09:58	7439-96-5	
Molybdenum	ND	mg/L	0.010	0.0025	1	03/10/25 11:48	03/13/25 09:58	7439-98-7	
Potassium	**0.86**	mg/L	0.50	0.10	1	03/10/25 11:48	03/13/25 09:58	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/13/25 09:58	7782-49-2	

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ANALYTICAL RESULTS

Project: Hammond Pooled Upgradient
Pace Project No.: 92779989

Sample: HAM-HGWA-43D **Lab ID: 92779989003** Collected: 02/12/25 14:50 Received: 02/14/25 16:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Sodium	**19.8**	mg/L	1.0	0.15	1	03/10/25 11:48	03/13/25 09:58	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	03/10/25 11:48	03/13/25 09:58	7440-28-0	

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ANALYTICAL RESULTS

Project: Hammond Pooled Upgradient
Pace Project No.: 92779989

Sample: HAM-HGWA-44D **Lab ID: 92779989004** Collected: 02/12/25 15:42 Received: 02/14/25 16:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.101**	mg/L	0.0300	0.000600	1	03/18/25 13:14	03/19/25 12:49	7439-93-2	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	02/18/25 17:23	02/23/25 12:43	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**294**	mg/L	5.0	5.0	1		02/20/25 15:02		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/20/25 15:02		
Alkalinity, Total as CaCO3	**294**	mg/L	5.0	5.0	1		02/20/25 15:02		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**363**	mg/L	25.0	25.0	1		02/18/25 17:55		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	**0.10**	mg/L	0.10	0.022	1		02/19/25 01:51	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**30.7**	mg/L	1.0	0.60	1		02/18/25 15:20	16887-00-6	
Fluoride	**1.1**	mg/L	0.10	0.050	1		02/18/25 15:20	16984-48-8	
Sulfate	**0.51J**	mg/L	1.0	0.50	1		02/18/25 15:20	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	03/10/25 11:48	03/12/25 23:41	7440-36-0	
Arsenic	**0.0014J**	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/12/25 23:41	7440-38-2	
Barium	**0.095**	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/12/25 23:41	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	03/10/25 11:48	03/12/25 23:41	7440-41-7	
Boron	**0.54**	mg/L	0.40	0.062	10	03/10/25 11:48	03/12/25 19:19	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/10/25 11:48	03/12/25 23:41	7440-43-9	
Calcium	**7.2**	mg/L	1.0	0.10	1	03/10/25 11:48	03/12/25 23:41	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/12/25 23:41	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/12/25 23:41	7440-48-4	
Iron	**0.19**	mg/L	0.040	0.012	1	03/10/25 11:48	03/12/25 23:41	7439-89-6	
Lead	ND	mg/L	0.0010	0.00025	1	03/10/25 11:48	03/12/25 23:41	7439-92-1	
Magnesium	**3.5**	mg/L	0.050	0.010	1	03/10/25 11:48	03/12/25 23:41	7439-95-4	
Manganese	**0.0058J**	mg/L	0.040	0.0012	1	03/10/25 11:48	03/12/25 23:41	7439-96-5	
Molybdenum	ND	mg/L	0.010	0.0025	1	03/10/25 11:48	03/12/25 23:41	7439-98-7	
Potassium	**2.3J**	mg/L	5.0	1.0	10	03/10/25 11:48	03/12/25 19:19	7440-09-7	1g
Selenium	ND	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/12/25 23:41	7782-49-2	

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ANALYTICAL RESULTS

Project: Hammond Pooled Upgradient
Pace Project No.: 92779989

Sample: HAM-HGWA-44D **Lab ID: 92779989004** Collected: 02/12/25 15:42 Received: 02/14/25 16:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Sodium	**141**	mg/L	10.0	1.5	10	03/10/25 11:48	03/12/25 19:19	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	03/10/25 11:48	03/12/25 23:41	7440-28-0	

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ANALYTICAL RESULTS

Project: Hammond Pooled Upgradient
Pace Project No.: 92779989

Sample: HAM-UGRD-EB-01 **Lab ID: 92779989005** Collected: 02/13/25 17:30 Received: 02/14/25 16:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	ND	mg/L	0.0300	0.000600	1	03/26/25 19:19	03/27/25 00:09	7439-93-2	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	02/18/25 17:23	02/23/25 12:45	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		02/20/25 13:08		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		02/18/25 00:18	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/18/25 00:18	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		02/18/25 00:18	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	03/17/25 17:45	03/20/25 10:09	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	03/17/25 17:45	03/20/25 10:09	7440-38-2	
Barium	ND	mg/L	0.0050	0.0012	1	03/17/25 17:45	03/20/25 10:09	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	03/17/25 17:45	03/20/25 10:09	7440-41-7	
Boron	ND	mg/L	0.040	0.0062	1	03/17/25 17:45	03/20/25 18:36	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/17/25 17:45	03/20/25 10:09	7440-43-9	
Calcium	ND	mg/L	1.0	0.10	1	03/17/25 17:45	03/20/25 10:09	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/17/25 17:45	03/20/25 10:09	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.0012	1	03/17/25 17:45	03/20/25 10:09	7440-48-4	
Lead	ND	mg/L	0.0010	0.00025	1	03/17/25 17:45	03/20/25 10:09	7439-92-1	
Molybdenum	ND	mg/L	0.010	0.0025	1	03/17/25 17:45	03/20/25 10:09	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0012	1	03/17/25 17:45	03/20/25 10:09	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00015	1	03/17/25 17:45	03/20/25 10:09	7440-28-0	

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ANALYTICAL RESULTS

Project: Hammond Pooled Upgradient
Pace Project No.: 92779989

Sample: HAM-UGRD-FB-01 **Lab ID: 92779989006** Collected: 02/13/25 17:25 Received: 02/14/25 16:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	ND	mg/L	0.0300	0.000600	1	03/18/25 13:14	03/19/25 12:53	7439-93-2	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	02/18/25 17:23	02/23/25 12:47	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		02/20/25 13:08		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		02/18/25 00:34	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/18/25 00:34	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		02/18/25 00:34	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	03/10/25 11:48	03/13/25 10:07	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/13/25 10:07	7440-38-2	
Barium	ND	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/13/25 10:07	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	03/10/25 11:48	03/13/25 10:07	7440-41-7	
Boron	ND	mg/L	0.040	0.0062	1	03/10/25 11:48	03/13/25 10:07	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/10/25 11:48	03/13/25 10:07	7440-43-9	
Calcium	ND	mg/L	1.0	0.10	1	03/10/25 11:48	03/13/25 10:07	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/13/25 10:07	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/13/25 10:07	7440-48-4	
Lead	ND	mg/L	0.0010	0.00025	1	03/10/25 11:48	03/13/25 10:07	7439-92-1	
Molybdenum	ND	mg/L	0.010	0.0025	1	03/10/25 11:48	03/13/25 10:07	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/13/25 10:07	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00015	1	03/10/25 11:48	03/13/25 10:07	7440-28-0	

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ANALYTICAL RESULTS

Project: Hammond Pooled Upgradient
Pace Project No.: 92779989

Sample: HAM-HGWA-2 **Lab ID: 92779989007** Collected: 02/14/25 09:20 Received: 02/17/25 14:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.00183J**	mg/L	0.0300	0.000600	1	03/18/25 13:14	03/19/25 12:56	7439-93-2	J
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	02/20/25 19:10	02/24/25 12:17	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**58.3**	mg/L	5.0	5.0	1		02/25/25 17:18		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/25/25 17:18		
Alkalinity, Total as CaCO3	**58.3**	mg/L	5.0	5.0	1		02/25/25 17:18		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**242**	mg/L	25.0	25.0	1		02/21/25 12:15		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		02/19/25 02:05	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**8.5**	mg/L	1.0	0.60	1		02/18/25 14:01	16887-00-6	
Fluoride	**0.10**	mg/L	0.10	0.050	1		02/18/25 14:01	16984-48-8	
Sulfate	**94.5**	mg/L	1.0	0.50	1		02/18/25 14:01	14808-79-8	M1
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	03/10/25 11:48	03/13/25 02:15	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/13/25 02:15	7440-38-2	
Barium	**0.057**	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/13/25 02:15	7440-39-3	
Beryllium	**0.00023J**	mg/L	0.00050	0.00015	1	03/10/25 11:48	03/13/25 02:15	7440-41-7	
Boron	**0.053**	mg/L	0.040	0.0062	1	03/10/25 11:48	03/13/25 02:15	7440-42-8	
Cadmium	**0.00028J**	mg/L	0.00050	0.00012	1	03/10/25 11:48	03/13/25 02:15	7440-43-9	
Calcium	**51.5**	mg/L	10.0	1.0	10	03/10/25 11:48	03/12/25 21:53	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/13/25 02:15	7440-47-3	
Cobalt	**0.030**	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/13/25 02:15	7440-48-4	
Iron	**0.068**	mg/L	0.040	0.012	1	03/10/25 11:48	03/13/25 02:15	7439-89-6	
Lead	ND	mg/L	0.0010	0.00025	1	03/10/25 11:48	03/13/25 02:15	7439-92-1	
Magnesium	**5.0**	mg/L	0.050	0.010	1	03/10/25 11:48	03/13/25 02:15	7439-95-4	
Manganese	**0.84**	mg/L	0.40	0.012	10	03/10/25 11:48	03/12/25 21:53	7439-96-5	
Molybdenum	ND	mg/L	0.010	0.0025	1	03/10/25 11:48	03/13/25 02:15	7439-98-7	
Potassium	**1.5**	mg/L	0.50	0.10	1	03/10/25 11:48	03/13/25 02:15	7440-09-7	
Selenium	**0.0043J**	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/14/25 18:01	7782-49-2	

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ANALYTICAL RESULTS

Project: Hammond Pooled Upgradient
Pace Project No.: 92779989

Sample: HAM-HGWA-2 **Lab ID: 92779989007** Collected: 02/14/25 09:20 Received: 02/17/25 14:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Sodium	**12.5**	mg/L	1.0	0.15	1	03/10/25 11:48	03/13/25 02:15	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	03/10/25 11:48	03/13/25 02:15	7440-28-0	

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ANALYTICAL RESULTS

Project: Hammond Pooled Upgradient
Pace Project No.: 92779989

Sample: HAM-UGRD-FD-01 **Lab ID: 92779989008** Collected: 02/14/25 00:00 Received: 02/17/25 14:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.00182J**	mg/L	0.0300	0.000600	1	03/18/25 13:14	03/19/25 12:59	7439-93-2	J
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	02/20/25 19:10	02/24/25 12:19	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**230**	mg/L	25.0	25.0	1		02/21/25 12:16		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**8.5**	mg/L	1.0	0.60	1		02/18/25 15:08	16887-00-6	
Fluoride	**0.096J**	mg/L	0.10	0.050	1		02/18/25 15:08	16984-48-8	
Sulfate	**94.9**	mg/L	1.0	0.50	1		02/18/25 15:08	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	03/10/25 11:48	03/13/25 02:24	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/13/25 02:24	7440-38-2	
Barium	**0.052**	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/13/25 02:24	7440-39-3	
Beryllium	**0.00023J**	mg/L	0.00050	0.00015	1	03/10/25 11:48	03/13/25 02:24	7440-41-7	
Boron	**0.050**	mg/L	0.040	0.0062	1	03/10/25 11:48	03/13/25 02:24	7440-42-8	
Cadmium	**0.00026J**	mg/L	0.00050	0.00012	1	03/10/25 11:48	03/13/25 02:24	7440-43-9	
Calcium	**45.9**	mg/L	10.0	1.0	10	03/10/25 11:48	03/12/25 22:02	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/13/25 02:24	7440-47-3	
Cobalt	**0.028**	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/13/25 02:24	7440-48-4	
Lead	ND	mg/L	0.0010	0.00025	1	03/10/25 11:48	03/13/25 02:24	7439-92-1	
Molybdenum	ND	mg/L	0.010	0.0025	1	03/10/25 11:48	03/13/25 02:24	7439-98-7	
Selenium	**0.0040J**	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/14/25 18:10	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00015	1	03/10/25 11:48	03/13/25 02:24	7440-28-0	

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QUALITY CONTROL DATA

Project: Hammond Pooled Upgradient
Pace Project No.: 92779989

QC Batch: 2469158
QC Batch Method: 3015
Analysis Method: EPA 6020B
Analysis Description: Metals (ICPMS) 6020B
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 92779989002, 92779989003, 92779989004, 92779989006, 92779989007, 92779989008

METHOD BLANK: R4188214-1 Matrix: Water
Associated Lab Samples: 92779989002, 92779989003, 92779989004, 92779989006, 92779989007, 92779989008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lithium	mg/L	ND	0.0300	0.000600	03/19/25 11:29	

LABORATORY CONTROL SAMPLE: R4188214-2

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lithium	mg/L	0.0500	0.0447	89.5	80.0-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R4188214-4 R4188214-5

Parameter	Units	L1835821-49 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lithium	mg/L	0.00218	0.0500	0.0500	0.0484	0.0497	92.3	95.0	75.0-125	2.69	20	

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QUALITY CONTROL DATA

Project: Hammond Pooled Upgradient
Pace Project No.: 92779989

QC Batch: 2469175
QC Batch Method: 3015
Analysis Method: EPA 6020B
Analysis Description: Metals (ICPMS) 6020B
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 92779989001

METHOD BLANK: R4188590-1 Matrix: Water
Associated Lab Samples: 92779989001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lithium	mg/L	ND	0.0300	0.000600	03/19/25 23:38	

LABORATORY CONTROL SAMPLE: R4188590-2

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lithium	mg/L	0.0500	0.0510	102	80.0-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R4188590-4 R4188590-5

Parameter	Units	L1836006-05 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lithium	mg/L	ND	0.0500	0.0500	0.0503	0.0511	101	102	75.0-125	1.59	20	

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QUALITY CONTROL DATA

Project: Hammond Pooled Upgradient
Pace Project No.: 92779989

QC Batch: 2476791
QC Batch Method: 3015
Analysis Method: EPA 6020B
Analysis Description: Metals (ICPMS) 6020B
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 92779989005

METHOD BLANK: R4191612-1 Matrix: Water
Associated Lab Samples: 92779989005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lithium	mg/L	ND	0.0300	0.000600	03/27/25 00:03	

LABORATORY CONTROL SAMPLE: R4191612-2

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lithium	mg/L	0.0500	0.0470	94.1	80.0-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R4191612-4 R4191612-5

Parameter	Units	L1839658-04 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lithium	mg/L	0.00782	0.0500	0.0500	0.0534	0.0524	91.2	89.1	75.0-125	1.98	20	

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QUALITY CONTROL DATA

Project: Hammond Pooled Upgradient
Pace Project No.: 92779989

QC Batch: 916942 | Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A | Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92779989001, 92779989002, 92779989003, 92779989004, 92779989005, 92779989006

METHOD BLANK: 4712332 Matrix: Water
Associated Lab Samples: 92779989001, 92779989002, 92779989003, 92779989004, 92779989005, 92779989006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00012	02/23/25 12:29	

LABORATORY CONTROL SAMPLE: 4712333

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0023	92	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4712334 4712335

Parameter	Units	92779989001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0023	0.0024	94	98	75-125	4	25	

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QUALITY CONTROL DATA

Project: Hammond Pooled Upgradient
Pace Project No.: 92779989

QC Batch: 917537
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92779989007, 92779989008

METHOD BLANK: 4715919 Matrix: Water
Associated Lab Samples: 92779989007, 92779989008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00012	02/24/25 11:36	

LABORATORY CONTROL SAMPLE: 4715920

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0023	92	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4715921 4715922

Parameter	Units	92779987006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0023	0.0023	92	93	75-125	2	25	

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QUALITY CONTROL DATA

Project: Hammond Pooled Upgradient
Pace Project No.: 92779989

QC Batch: 917443
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92779989001, 92779989002, 92779989003, 92779989004

METHOD BLANK: 4715340 Matrix: Water
Associated Lab Samples: 92779989001, 92779989002, 92779989003, 92779989004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	02/20/25 11:31	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	02/20/25 11:31	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	02/20/25 11:31	

LABORATORY CONTROL SAMPLE: 4715341

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.4	103	80-120	

LABORATORY CONTROL SAMPLE: 4715342

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	52.6	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4715343 4715344

Parameter	Units	92778538048 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	102	50	50	148	148	91	92	80-120	0	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4715345 4715346

Parameter	Units	92778538049 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	166	50	50	208	211	83	90	80-120	2	25	

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QUALITY CONTROL DATA

Project: Hammond Pooled Upgradient
Pace Project No.: 92779989

QC Batch: 918325
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92779989007

METHOD BLANK: 4719412 Matrix: Water
Associated Lab Samples: 92779989007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	02/25/25 14:59	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	02/25/25 14:59	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	02/25/25 14:59	

LABORATORY CONTROL SAMPLE: 4719413

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.8	104	80-120	

LABORATORY CONTROL SAMPLE: 4719414

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.0	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4719415 4719416

Parameter	Units	92779983010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	143	50	50	191	193	97	100	80-120	1	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4719417 4719418

Parameter	Units	92779983011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	ND	50	50	51.6	51.6	102	102	80-120	0	25	

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QUALITY CONTROL DATA

Project: Hammond Pooled Upgradient
Pace Project No.: 92779989

QC Batch: 917012
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92779989001, 92779989002, 92779989003, 92779989004

METHOD BLANK: 4712793 Matrix: Water
Associated Lab Samples: 92779989001, 92779989002, 92779989003, 92779989004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	02/18/25 17:54	

LABORATORY CONTROL SAMPLE: 4712794

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	244	98	90-110	

SAMPLE DUPLICATE: 4712795

Parameter	Units	92779374018 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	341	348	2	25	

SAMPLE DUPLICATE: 4712796

Parameter	Units	92779989003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	273	273	0	25	

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QUALITY CONTROL DATA

Project: Hammond Pooled Upgradient
Pace Project No.: 92779989

QC Batch: 917325
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92779989005, 92779989006

METHOD BLANK: 4714805 Matrix: Water
Associated Lab Samples: 92779989005, 92779989006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	02/20/25 13:06	

LABORATORY CONTROL SAMPLE: 4714806

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	236	94	90-110	

SAMPLE DUPLICATE: 4714807

Parameter	Units	92779890006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	60.0	52.0	14	25	

SAMPLE DUPLICATE: 4714808

Parameter	Units	92779987005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	90.0	89.0	1	25	

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QUALITY CONTROL DATA

Project: Hammond Pooled Upgradient
Pace Project No.: 92779989

QC Batch: 917626
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92779989007, 92779989008

METHOD BLANK: 4716350 Matrix: Water
Associated Lab Samples: 92779989007, 92779989008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	02/21/25 12:15	

LABORATORY CONTROL SAMPLE: 4716351

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	246	98	90-110	

SAMPLE DUPLICATE: 4716352

Parameter	Units	92779981004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	192	196	2	25	

SAMPLE DUPLICATE: 4716353

Parameter	Units	92779985006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	640	650	2	25	

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QUALITY CONTROL DATA

Project: Hammond Pooled Upgradient
Pace Project No.: 92779989

QC Batch: 916812
QC Batch Method: SM 4500-S2D-2011
Analysis Method: SM 4500-S2D-2011
Analysis Description: 4500S2D Sulfide Water
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92779989001, 92779989002, 92779989003, 92779989004

METHOD BLANK: 4711805 Matrix: Water
Associated Lab Samples: 92779989001, 92779989002, 92779989003, 92779989004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	0.022	02/19/25 01:43	

LABORATORY CONTROL SAMPLE: 4711806

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	0.55	109	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4711807 4711808

Parameter	Units	92779374016 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.55	0.55	110	110	80-120	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4711809 4711810

Parameter	Units	92779989003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	0.025J	0.5	0.5	0.55	0.57	104	109	80-120	4	10	

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QUALITY CONTROL DATA

Project: Hammond Pooled Upgradient
Pace Project No.: 92779989

QC Batch: 916813
QC Batch Method: SM 4500-S2D-2011
Analysis Method: SM 4500-S2D-2011
Analysis Description: 4500S2D Sulfide Water
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92779989007

METHOD BLANK: 4711811 Matrix: Water
Associated Lab Samples: 92779989007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	0.022	02/19/25 01:58	

LABORATORY CONTROL SAMPLE: 4711812

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	0.55	110	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4711813 4711814

Parameter	Units	92779987004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.54	0.53	107	107	80-120	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4711815 4711816

Parameter	Units	92779977007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.52	0.55	104	110	80-120	6	10	

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QUALITY CONTROL DATA

Project: Hammond Pooled Upgradient
Pace Project No.: 92779989

QC Batch: 916738
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92779989001, 92779989002, 92779989003, 92779989004, 92779989005, 92779989006

METHOD BLANK: 4711421 Matrix: Water
Associated Lab Samples: 92779989001, 92779989002, 92779989003, 92779989004, 92779989005, 92779989006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/17/25 22:58	
Fluoride	mg/L	ND	0.10	0.050	02/17/25 22:58	
Sulfate	mg/L	ND	1.0	0.50	02/17/25 22:58	

LABORATORY CONTROL SAMPLE: 4711422

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.3	101	90-110	
Fluoride	mg/L	2.5	2.5	99	90-110	
Sulfate	mg/L	50	50.4	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4711423 4711424

Parameter	Units	92779977001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	11.7	50	50	63.0	64.7	103	106	90-110	3	10	
Fluoride	mg/L	0.30	2.5	2.5	3.1	3.2	111	116	90-110	4	10	M1
Sulfate	mg/L	155	50	50	190	191	70	70	90-110	0	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4711425 4711426

Parameter	Units	92779987003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	2.8	50	50	53.8	56.7	102	108	90-110	5	10	
Fluoride	mg/L	0.093J	2.5	2.5	2.7	2.9	105	112	90-110	6	10	M1
Sulfate	mg/L	1.1	50	50	52.1	55.1	102	108	90-110	5	10	

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QUALITY CONTROL DATA

Project: Hammond Pooled Upgradient
Pace Project No.: 92779989

QC Batch: 916792
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92779989007, 92779989008

METHOD BLANK: 4711732 Matrix: Water
Associated Lab Samples: 92779989007, 92779989008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/18/25 02:03	
Fluoride	mg/L	ND	0.10	0.050	02/18/25 02:03	
Sulfate	mg/L	ND	1.0	0.50	02/18/25 02:03	

LABORATORY CONTROL SAMPLE: 4711733

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.6	101	90-110	
Fluoride	mg/L	2.5	2.5	98	90-110	
Sulfate	mg/L	50	50.0	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4711736 4711737

Parameter	Units	92779987014 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	ND	50	50	51.2	52.1	102	104	90-110	2	10	
Fluoride	mg/L	ND	2.5	2.5	2.6	2.5	105	100	90-110	5	10	
Sulfate	mg/L	ND	50	50	50.5	51.4	101	103	90-110	2	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4711738 4711739

Parameter	Units	92779989007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	8.5	50	50	59.4	62.2	102	107	90-110	5	10	
Fluoride	mg/L	0.10	2.5	2.5	2.6	2.7	101	106	90-110	4	10	
Sulfate	mg/L	94.5	50	50	123	121	57	53	90-110	2	10	M1

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QUALITY CONTROL DATA

Project: Hammond Pooled Upgradient
Pace Project No.: 92779989

QC Batch: 921054
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: WC 6020B MET
Laboratory: Pace Analytical Services - West Columbia
Associated Lab Samples: 92779989001, 92779989002, 92779989003, 92779989004, 92779989006, 92779989007, 92779989008

METHOD BLANK: 4732998 Matrix: Water
Associated Lab Samples: 92779989001, 92779989002, 92779989003, 92779989004, 92779989006, 92779989007, 92779989008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00050	03/13/25 08:35	
Arsenic	mg/L	ND	0.0050	0.0012	03/13/25 08:35	
Barium	mg/L	ND	0.0050	0.0012	03/13/25 08:35	
Beryllium	mg/L	ND	0.00050	0.00015	03/13/25 08:35	
Boron	mg/L	ND	0.040	0.0062	03/13/25 08:35	
Cadmium	mg/L	ND	0.00050	0.00012	03/13/25 08:35	
Calcium	mg/L	ND	1.0	0.10	03/13/25 08:35	
Chromium	mg/L	ND	0.0050	0.0012	03/13/25 08:35	
Cobalt	mg/L	ND	0.0050	0.0012	03/13/25 08:35	
Iron	mg/L	ND	0.040	0.012	03/13/25 08:35	
Lead	mg/L	ND	0.0010	0.00025	03/13/25 08:35	
Magnesium	mg/L	ND	0.050	0.010	03/13/25 08:35	
Manganese	mg/L	ND	0.040	0.0012	03/13/25 08:35	
Molybdenum	mg/L	ND	0.010	0.0025	03/13/25 08:35	
Potassium	mg/L	ND	0.50	0.10	03/13/25 08:35	
Selenium	mg/L	ND	0.0050	0.0012	03/13/25 08:35	
Sodium	mg/L	ND	1.0	0.15	03/13/25 08:35	
Thallium	mg/L	ND	0.0010	0.00015	03/13/25 08:35	

LABORATORY CONTROL SAMPLE: 4732999

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.097	97	80-120	
Arsenic	mg/L	0.1	0.10	100	80-120	
Barium	mg/L	0.1	0.10	103	80-120	
Beryllium	mg/L	0.1	0.093	93	80-120	
Boron	mg/L	0.1	0.10	100	80-120	
Cadmium	mg/L	0.1	0.096	96	80-120	
Calcium	mg/L	1	1.1	111	80-120	
Chromium	mg/L	0.1	0.11	108	80-120	
Cobalt	mg/L	0.1	0.11	111	80-120	
Iron	mg/L	1	1.1	110	80-120	
Lead	mg/L	0.1	0.11	111	80-120	
Magnesium	mg/L	1	1.1	108	80-120	
Manganese	mg/L	0.1	0.11	111	80-120	
Molybdenum	mg/L	0.1	0.10	100	80-120	
Potassium	mg/L	1	1.1	109	80-120	
Selenium	mg/L	0.1	0.091	91	80-120	
Sodium	mg/L	1	1.0	101	80-120	

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QUALITY CONTROL DATA

Project: Hammond Pooled Upgradient
Pace Project No.: 92779989

LABORATORY CONTROL SAMPLE: 4732999

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Thallium	mg/L	0.1	0.11	108	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4733000 4733001

Parameter	Units	92779977007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.10	0.10	102	102	75-125	0	20	
Arsenic	mg/L	ND	0.1	0.1	0.096	0.096	96	96	75-125	0	20	
Barium	mg/L	0.048	0.1	0.1	0.15	0.15	103	103	75-125	0	20	
Beryllium	mg/L	0.00017J	0.1	0.1	0.097	0.097	97	97	75-125	0	20	
Boron	mg/L	1.4	0.1	0.1	1.6	1.5	167	69	75-125	6	20	M1
Cadmium	mg/L	0.00022J	0.1	0.1	0.10	0.10	101	100	75-125	1	20	
Calcium	mg/L	83.3	1	1	87.0	88.6	373	537	75-125	2	20	M1
Chromium	mg/L	ND	0.1	0.1	0.10	0.10	102	101	75-125	1	20	
Cobalt	mg/L	0.0021J	0.1	0.1	0.10	0.10	101	101	75-125	0	20	
Iron	mg/L	0.023J	1	1	1.0	1.0	99	99	75-125	0	20	
Lead	mg/L	ND	0.1	0.1	0.10	0.10	100	101	75-125	1	20	
Magnesium	mg/L	11.7	1	1	12.6	12.7	89	97	75-125	1	20	
Manganese	mg/L	0.39J	0.1	0.1	0.51	0.51	121	117	75-125	1	20	
Molybdenum	mg/L	0.17	0.1	0.1	0.27	0.27	107	106	75-125	0	20	
Potassium	mg/L	5.6	1	1	6.7	6.8	104	119	75-125	2	20	
Selenium	mg/L	ND	0.1	0.1	0.097	0.097	97	96	75-125	1	20	
Sodium	mg/L	8.6	1	1	9.8	9.8	120	120	75-125	0	20	
Thallium	mg/L	ND	0.1	0.1	0.10	0.10	101	101	75-125	0	20	

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QUALITY CONTROL DATA

Project: Hammond Pooled Upgradient
Pace Project No.: 92779989

QC Batch: 922646
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: WC 6020B MET
Laboratory: Pace Analytical Services - West Columbia
Associated Lab Samples: 92779989005

METHOD BLANK: 4740655 Matrix: Water
Associated Lab Samples: 92779989005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00050	03/20/25 10:00	
Arsenic	mg/L	ND	0.0050	0.0012	03/20/25 10:00	
Barium	mg/L	ND	0.0050	0.0012	03/20/25 10:00	
Beryllium	mg/L	ND	0.00050	0.00015	03/20/25 10:00	
Boron	mg/L	ND	0.040	0.0062	03/20/25 16:38	
Cadmium	mg/L	ND	0.00050	0.00012	03/20/25 10:00	
Calcium	mg/L	ND	1.0	0.10	03/20/25 10:00	
Chromium	mg/L	ND	0.0050	0.0012	03/20/25 10:00	
Cobalt	mg/L	ND	0.0050	0.0012	03/20/25 10:00	
Lead	mg/L	ND	0.0010	0.00025	03/20/25 10:00	
Molybdenum	mg/L	ND	0.010	0.0025	03/20/25 10:00	
Selenium	mg/L	ND	0.0050	0.0012	03/20/25 10:00	
Thallium	mg/L	ND	0.0010	0.00015	03/20/25 10:00	

LABORATORY CONTROL SAMPLE: 4740656

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.099	99	80-120	
Arsenic	mg/L	0.1	0.10	103	80-120	
Barium	mg/L	0.1	0.098	98	80-120	
Beryllium	mg/L	0.1	0.10	103	80-120	
Boron	mg/L	0.1	0.099	99	80-120	
Cadmium	mg/L	0.1	0.099	99	80-120	
Calcium	mg/L	1	1.0	105	80-120	
Chromium	mg/L	0.1	0.10	102	80-120	
Cobalt	mg/L	0.1	0.11	106	80-120	
Lead	mg/L	0.1	0.11	106	80-120	
Molybdenum	mg/L	0.1	0.099	99	80-120	
Selenium	mg/L	0.1	0.10	102	80-120	
Thallium	mg/L	0.1	0.10	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4740667 4740668

Parameter	Units	92779989005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.096	0.097	96	97	75-125	0	20	
Arsenic	mg/L	ND	0.1	0.1	0.10	0.10	101	100	75-125	1	20	

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QUALITY CONTROL DATA

Project: Hammond Pooled Upgradient
Pace Project No.: 92779989

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4740667 4740668

Parameter	Units	92779989005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	mg/L	ND	0.1	0.1	0.098	0.098	98	97	75-125	0	20	
Beryllium	mg/L	ND	0.1	0.1	0.10	0.10	102	100	75-125	2	20	
Boron	mg/L	ND	0.1	0.1	0.099	0.098	99	98	75-125	1	20	
Cadmium	mg/L	ND	0.1	0.1	0.099	0.099	99	99	75-125	0	20	
Calcium	mg/L	ND	1	1	1.0	1.0	104	101	75-125	3	20	
Chromium	mg/L	ND	0.1	0.1	0.10	0.10	101	102	75-125	1	20	
Cobalt	mg/L	ND	0.1	0.1	0.10	0.10	104	104	75-125	0	20	
Lead	mg/L	ND	0.1	0.1	0.10	0.10	104	102	75-125	2	20	
Molybdenum	mg/L	ND	0.1	0.1	0.097	0.098	97	98	75-125	0	20	
Selenium	mg/L	ND	0.1	0.1	0.10	0.10	102	102	75-125	1	20	
Thallium	mg/L	ND	0.1	0.1	0.097	0.098	97	98	75-125	2	20	

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QUALIFIERS

Project: Hammond Pooled Upgradient
Pace Project No.: 92779989

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

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TNI - The NELAC Institute.

ANALYTE QUALIFIERS

1g	This analyte is being reported from a diluted analysis since the original undiluted analysis was bracketed by a CCV that was outside 6020B acceptance limits. The reporting limit has been adjusted accordingly.
J	Analyte detected below the reporting limit, therefore result is an estimate. This qualifier is also used for all TICs.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Hammond Pooled Upgradient
Pace Project No.: 92779989

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92779989001	**HAM-HGWA-1**	3015	2469175	EPA 6020B	2469175
92779989002	**HAM-HGWA-3**	3015	2469158	EPA 6020B	2469158
92779989003	**HAM-HGWA-43D**	3015	2469158	EPA 6020B	2469158
92779989004	**HAM-HGWA-44D**	3015	2469158	EPA 6020B	2469158
92779989005	**HAM-UGRD-EB-01**	3015	2476791	EPA 6020B	2476791
92779989006	**HAM-UGRD-FB-01**	3015	2469158	EPA 6020B	2469158
92779989007	**HAM-HGWA-2**	3015	2469158	EPA 6020B	2469158
92779989008	**HAM-UGRD-FD-01**	3015	2469158	EPA 6020B	2469158
92779989001	**HAM-HGWA-1**	EPA 7470A	916942	EPA 7470A	917067
92779989002	**HAM-HGWA-3**	EPA 7470A	916942	EPA 7470A	917067
92779989003	**HAM-HGWA-43D**	EPA 7470A	916942	EPA 7470A	917067
92779989004	**HAM-HGWA-44D**	EPA 7470A	916942	EPA 7470A	917067
92779989005	**HAM-UGRD-EB-01**	EPA 7470A	916942	EPA 7470A	917067
92779989006	**HAM-UGRD-FB-01**	EPA 7470A	916942	EPA 7470A	917067
92779989007	**HAM-HGWA-2**	EPA 7470A	917537	EPA 7470A	917800
92779989008	**HAM-UGRD-FD-01**	EPA 7470A	917537	EPA 7470A	917800
92779989001	**HAM-HGWA-1**	SM 2320B-2011	917443		
92779989002	**HAM-HGWA-3**	SM 2320B-2011	917443		
92779989003	**HAM-HGWA-43D**	SM 2320B-2011	917443		
92779989004	**HAM-HGWA-44D**	SM 2320B-2011	917443		
92779989007	**HAM-HGWA-2**	SM 2320B-2011	918325		
92779989001	**HAM-HGWA-1**	SM 2540C-2015	917012		
92779989002	**HAM-HGWA-3**	SM 2540C-2015	917012		
92779989003	**HAM-HGWA-43D**	SM 2540C-2015	917012		
92779989004	**HAM-HGWA-44D**	SM 2540C-2015	917012		
92779989005	**HAM-UGRD-EB-01**	SM 2540C-2015	917325		
92779989006	**HAM-UGRD-FB-01**	SM 2540C-2015	917325		
92779989007	**HAM-HGWA-2**	SM 2540C-2015	917626		
92779989008	**HAM-UGRD-FD-01**	SM 2540C-2015	917626		
92779989001	**HAM-HGWA-1**	SM 4500-S2D-2011	916812		
92779989002	**HAM-HGWA-3**	SM 4500-S2D-2011	916812		
92779989003	**HAM-HGWA-43D**	SM 4500-S2D-2011	916812		
92779989004	**HAM-HGWA-44D**	SM 4500-S2D-2011	916812		
92779989007	**HAM-HGWA-2**	SM 4500-S2D-2011	916813		
92779989001	**HAM-HGWA-1**	EPA 300.0 Rev 2.1 1993	916738		
92779989002	**HAM-HGWA-3**	EPA 300.0 Rev 2.1 1993	916738		
92779989003	**HAM-HGWA-43D**	EPA 300.0 Rev 2.1 1993	916738		
92779989004	**HAM-HGWA-44D**	EPA 300.0 Rev 2.1 1993	916738		
92779989005	**HAM-UGRD-EB-01**	EPA 300.0 Rev 2.1 1993	916738		
92779989006	**HAM-UGRD-FB-01**	EPA 300.0 Rev 2.1 1993	916738		
92779989007	**HAM-HGWA-2**	EPA 300.0 Rev 2.1 1993	916792		
92779989008	**HAM-UGRD-FD-01**	EPA 300.0 Rev 2.1 1993	916792		

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Hammond Pooled Upgradient
Pace Project No.: 92779989

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92779989001	**HAM-HGWA-1**	EPA 3005A	921054	EPA 6020B	921709
92779989002	**HAM-HGWA-3**	EPA 3005A	921054	EPA 6020B	921709
92779989003	**HAM-HGWA-43D**	EPA 3005A	921054	EPA 6020B	921709
92779989004	**HAM-HGWA-44D**	EPA 3005A	921054	EPA 6020B	921709
92779989005	**HAM-UGRD-EB-01**	EPA 3005A	922646	EPA 6020B	923912
92779989006	**HAM-UGRD-FB-01**	EPA 3005A	921054	EPA 6020B	921709
92779989007	**HAM-HGWA-2**	EPA 3005A	921054	EPA 6020B	921709
92779989008	**HAM-UGRD-FD-01**	EPA 3005A	921054	EPA 6020B	921709

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Pace

DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

aboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mech... ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #:

WO# : 92779989

92779989

Courier: ☐ Commercial ☐ Fed Ex ☑ Pace ☐ UPS ☐ USPS ☐ Other:____ ☐ Client

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No ☑ N/A

Date/Initials Person Examining Contents: 2/14/25 LDH

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 083

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 1.8 Correction Factor: Add/Subtract (°C) -0.1

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 1.9

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☐ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: W				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

Field Data Required? ☐ Yes ☐ No

MMENTS/SAMPLE DISCREPANCY

Lot ID of split containers:

NT NOTIFICATION/RESOLUTION

son contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

iltrax ID: 69614

DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

WO# : 92779989

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg
**Bottom half of box is to list number of bottles
***Check all unpreserved Nitrates for chlorine

Project # PM: BV Due Date: 03/03/25
CLIENT: 92- GP-HAM

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Client _____ Profile/EZ (Circle one) _____ Notes _____

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AGDU-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
CC																												
1		2	1		2	2	1																					
2		2	1			2	1																					
3		2	1		2	2	1																					
4		2	1		2	2	1																					
5		1	1		2	2																						
6		1	1		2	2																						
7																												
8																												
9																												
10																												
11																												
12																												

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers.

Daltrax ID: 69614

WO# : 92779989

PM: BV **Due Date: 03/03/25**

CLIENT: 92- GP-HAM

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Geosyntec Contacts	Company Name:	
				Address:	
Email To:	SCS Contacts	Purchase Order No.:		Pace Quote Reference:	
Phone:	Fax:	Project Name:	Plant Hammond Pooled Upgradient	Pace Project Manager:	Bonnie Vang
Requested Due Date/TAT:	10 Day	Project Number:		Pace Profile #:	10839

REGULATORY AGENCY

NPDES | GROUND WATER | DRINKING WATER

UST | RCRA | ✓ OTHER ~~CCR~~

Site Location STATE: GA

Requested Analysis Filtered (Y/N)

ITEM #	Section D Required Client Information: SAMPLE ID (A-Z, 0-9 / ,) Sample IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX / CODE: DRINKING WATER DW; WATER WT; WASTE WATER WW; PRODUCT P; SOIL/SOLID SL; OIL OL; WIPE WP; AIR AR; OTHER OT; TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE DATE	COLLECTED COMPOSITE TIME	COLLECTED COMPOSITE DATE	COLLECTED COMPOSITE TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N	Analysis Test: Chloride, Fluoride, Sulfate	Full Acp. III and IV metals	RAD 226/228	TDS	Major Ions (Profile 10839-2)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 92779989
1	HAM-HGWA-1		WG	G	2/12/2025	1338			16	8	3		4		1			N	X	X	X	X	X	N	001
2	HAM-HGWA-3		WG	G	2/12/2025	1430			16	6	3		2		1			N	X	X		X	X	N	Radium sent on separate COC 002
3	HAM-HGWA-43D		WG	G	2/12/2025	1450			16	8	3		4		1			N	X	X	X	X	X	N	limited volume for Alkalinity 003
4	HAM-HGWA-44D		WG	G	2/12/2025	1542			15	8	3		4		1			N	X	X	X	X	X	N	004
5	HAM-UGRD-EB-01		WG	G	2/13/2025	1730			15	6	2		4					N	X	X	X	X		N	Matrix = WQ 005
6	HAM-UGRD-FB-01		WG	G	2/13/2025	1725			15	6	2		4					N	X	X	X	X		N	Matrix = WQ 006
7																										
8																										
9																										
10																										
11																										
12																										

2/12/13/25

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Task Code: HAM-CCR-ASSMT-2025S1(1)	Zain Webb / Geosyntec	2-14-25	1340	Ryan Williams / Pace	2-14-25	1340	
	Ryan Williams / Pace	2/14/25	1610	Chandler Hunt	2/14/25	1610	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Amanda Tomlinson, Zain Webb, Thomas Kessler / Geosyntec Consultants,

SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY): 2-13-25

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #:

Courier: ☐ Commercial ☐ FedEx ☑ Pace ☐ UPS ☐ USPS ☐ Other:____ ☐ Client

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No ☑ N/A

Date/Initials Person Examining Contents: 2/17/25 CH

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☐ N/A

Thermometer: ☑ IR Gun ID: 083 Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 1.7 Correction Factor: Add/Subtract (°C) -0.1

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 1.8

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: W				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

Field Data Required? ☐ Yes ☐ No

COMMENTS/SAMPLE DISCREPANCY

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg
**Bottom half of box is to list number of bottles
***Check all unpreserved Nitrates for chlorine

Project #

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Client_____ Profile/EZ (Circle one)_____ Notes_____

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BPN	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
CC																														
1		2	1		2*		2*	1*																						
2					2*																									
3		1	1		2*		2*																							
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11																														
12																														

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers.

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: GA Power	Report To: SCS Contacts	Attention: Southern Co.
Address: Atlanta, GA	Copy To: Geosyntec Contacts	Company Name:
		Address:
Email To: SCS Contacts	Purchase Order No.:	Pace Quote Reference:
Phone: Fax:	Project Name: Plant Hammond Pooled Upgradient	Pace Project Manager: Bonnie Vang
Requested Due Date/TAT: 10 Day	Project Number:	Pace Profile #: 10839

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA ✓ OTHER CCR

Site Location STATE: GA

Section D Required Client Information

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END DATE	COLLECTED COMPOSITE END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	Chloride, Fluoride, Sulfate	Full App. III and IV metals	RAD 226/228	TDS	Major Ions (Profile 10839-2)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
																		Requested Analysis Filtered (Y/N)	N	N	N	N				
1	HAM-HGWA-2	WG	G	2/14/2025	0920			16	8	3		4		1					X	X	X	X	X	N	92779989 007
2	HAM-HGWA-3	WG	G	2/14/2025	1107			16	2			2									X			N	Last Sample
3	HAM-UGRD-FD-01	WG	G	2/14/2025	0000			16	6	2		4							X	X	X	X		N	008
4																									
5																									
6																									
7																									
8																									
9																									
10																									
11																									
12																									

ART 2/16/2025

ART 2/16/2025

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Task Code: HAM-CCR-ASSMT-2025S1	Zain Webb / Geosyntec	2-17-25	1230	Ryan Williams / Pace	2/17/2025	1230	
	Ryan Williams / Pace	2/17/2025	1445		2/17/25	1445	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Amanda Tominson, Zain Webb, Thomas Kessler / Geosyntec Consultants, Inc.

SIGNATURE of SAMPLER: Zain Webb (AT) (TK) DATE Signed (MM/DD/YY): 2-17-25

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-Feb-2007

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

March 13, 2025

Kristen Jurinko
Southern Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, GA 30308

RE: Project: Hammond Pooled Upgradient-RAD
Pace Project No.: 92779992

Dear Kristen Jurinko:

Enclosed are the analytical results for sample(s) received by the laboratory between February 14, 2025 and February 17, 2025. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Greensburg

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Bonnie Vang
bonnie.vang@pacelabs.com
704-977-0968
Project Manager

Enclosures

cc: Kip Gray, Geosyntec
Christine Hug, Geosyntec Consultants, Inc.
Thomas Kessler, Geosyntec Consultants
Whitney Law, Geosyntec Consultants
Laura Midkiff, Southern Company
Caroline Nelson, Geosyntec Consultants, Inc
Jamie Newsome, Geosyntec Consultants
Zain Webb, Geosyntec Consultants

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Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: Hammond Pooled Upgradient-RAD
Pace Project No.: 92779992

Pace Analytical Services Pennsylvania
1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
ANABISO/IEC 17025:2017 Rad Cert#: L24170
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 2950
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA010
Louisiana DEQ/TNI Certification #: 04086
Maine Certification #: 2023021
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991
Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572023-03
New Hampshire/TNI Certification #: 297622
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-015
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: TN02867
Texas/TNI Certification #: T104704188-22-18
Utah/TNI Certification #: PA014572223-14
USDA Soil Permit #: 525-23-67-77263
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad

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SAMPLE SUMMARY

Project: Hammond Pooled Upgradient-RAD
Pace Project No.: 92779992

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92779992001	**HAM-HGWA-1**	Water	02/12/25 13:38	02/14/25 16:10
92779992002	**HAM-HGWA-43D**	Water	02/12/25 14:50	02/14/25 16:10
92779992003	**HAM-HGWA-44D**	Water	02/12/25 15:42	02/14/25 16:10
92779992004	**HAM-UGRD-EB-01**	Water	02/13/25 17:30	02/14/25 16:10
92779992005	**HAM-UGRD-FB-01**	Water	02/13/25 17:25	02/14/25 16:10
92779992006	**HAM-HGWA-2**	Water	02/14/25 09:20	02/17/25 14:45
92779992007	**HAM-HGWA-3**	Water	02/14/25 11:07	02/17/25 14:45
92779992008	**HAM-UGRD-FD-01**	Water	02/14/25 00:00	02/17/25 14:45

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Hammond Pooled Upgradient-RAD
Pace Project No.: 92779992

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92779992001	**HAM-HGWA-1**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92779992002	**HAM-HGWA-43D**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92779992003	**HAM-HGWA-44D**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92779992004	**HAM-UGRD-EB-01**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92779992005	**HAM-UGRD-FB-01**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92779992006	**HAM-HGWA-2**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92779992007	**HAM-HGWA-3**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92779992008	**HAM-UGRD-FD-01**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

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SUMMARY OF DETECTION

Project: Hammond Pooled Upgradient-RAD
Pace Project No.: 92779992

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92779992001	**HAM-HGWA-1**					
EPA 9315	Radium-226	0.226U ± 0.230 (0.456) C:63% T:NA	pCi/L		03/11/25 09:55	
EPA 9320	Radium-228	0.398U ± 0.429 (0.896) C:73% T:84%	pCi/L		03/10/25 11:58	
Total Radium Calculation	Total Radium	0.624U ± 0.659 (1.35)	pCi/L		03/11/25 15:09	
92779992002	**HAM-HGWA-43D**					
EPA 9315	Radium-226	0.0667U ± 0.224 (0.551) C:52% T:NA	pCi/L		03/11/25 08:22	
EPA 9320	Radium-228	0.557U ± 0.441 (0.877) C:74% T:76%	pCi/L		03/10/25 11:58	
Total Radium Calculation	Total Radium	0.624U ± 0.665 (1.43)	pCi/L		03/11/25 15:09	
92779992003	**HAM-HGWA-44D**					
EPA 9315	Radium-226	0.269U ± 0.221 (0.430) C:100% T:NA	pCi/L		03/11/25 08:22	
EPA 9320	Radium-228	0.353U ± 0.501 (1.08) C:74% T:79%	pCi/L		03/10/25 11:58	
Total Radium Calculation	Total Radium	0.622U ± 0.722 (1.51)	pCi/L		03/11/25 15:09	
92779992004	**HAM-UGRD-EB-01**					
EPA 9315	Radium-226	0.0565U ± 0.227 (0.553) C:74% T:NA	pCi/L		03/11/25 08:23	
EPA 9320	Radium-228	0.601U ± 0.435 (0.855) C:77% T:88%	pCi/L		03/10/25 11:58	
Total Radium Calculation	Total Radium	0.658U ± 0.662 (1.41)	pCi/L		03/11/25 15:09	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Hammond Pooled Upgradient-RAD
Pace Project No.: 92779992

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92779992005	**HAM-UGRD-FB-01**					
EPA 9315	Radium-226	0.119U ± 0.237 (0.546) C:83% T:NA	pCi/L		03/11/25 08:23	
EPA 9320	Radium-228	0.998U ± 0.566 (1.04) C:72% T:75%	pCi/L		03/10/25 15:00	
Total Radium Calculation	Total Radium	1.12U ± 0.803 (1.59)	pCi/L		03/11/25 15:09	
92779992006	**HAM-HGWA-2**					
EPA 9315	Radium-226	0.294U ± 0.267 (0.531) C:72% T:NA	pCi/L		03/11/25 08:23	
EPA 9320	Radium-228	0.907U ± 0.509 (0.929) C:71% T:80%	pCi/L		03/10/25 15:00	
Total Radium Calculation	Total Radium	1.20U ± 0.776 (1.46)	pCi/L		03/11/25 15:09	
92779992007	**HAM-HGWA-3**					
EPA 9315	Radium-226	0.100U ± 0.145 (0.310) C:81% T:NA	pCi/L		03/11/25 10:00	
EPA 9320	Radium-228	0.506U ± 0.572 (1.21) C:71% T:76%	pCi/L		03/10/25 15:00	
Total Radium Calculation	Total Radium	0.606U ± 0.717 (1.52)	pCi/L		03/11/25 15:09	
92779992008	**HAM-UGRD-FD-01**					
EPA 9315	Radium-226	0.401 ± 0.236 (0.356) C:72% T:NA	pCi/L		03/11/25 10:00	
EPA 9320	Radium-228	1.30 ± 0.581 (0.983) C:75% T:82%	pCi/L		03/10/25 15:00	
Total Radium Calculation	Total Radium	1.70 ± 0.817 (1.34)	pCi/L		03/11/25 15:09	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Hammond Pooled Upgradient-RAD
Pace Project No.: 92779992

Sample: HAM-HGWA-1 **Lab ID: 92779992001** Collected: 02/12/25 13:38 Received: 02/14/25 16:10 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.226U ± 0.230 (0.456) C:63% T:NA**	pCi/L	03/11/25 09:55	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.398U ± 0.429 (0.896) C:73% T:84%**	pCi/L	03/10/25 11:58	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.624U ± 0.659 (1.35)**	pCi/L	03/11/25 15:09	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Hammond Pooled Upgradient-RAD
Pace Project No.: 92779992

Sample: HAM-HGWA-43D **Lab ID: 92779992002** Collected: 02/12/25 14:50 Received: 02/14/25 16:10 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0667U ± 0.224 (0.551) C:52% T:NA**	pCi/L	03/11/25 08:22	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.557U ± 0.441 (0.877) C:74% T:76%**	pCi/L	03/10/25 11:58	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.624U ± 0.665 (1.43)**	pCi/L	03/11/25 15:09	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Hammond Pooled Upgradient-RAD
Pace Project No.: 92779992

Sample: HAM-HGWA-44D **Lab ID: 92779992003** Collected: 02/12/25 15:42 Received: 02/14/25 16:10 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.269U ± 0.221 (0.430) C:100% T:NA**	pCi/L	03/11/25 08:22	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.353U ± 0.501 (1.08) C:74% T:79%**	pCi/L	03/10/25 11:58	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.622U ± 0.722 (1.51)**	pCi/L	03/11/25 15:09	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Hammond Pooled Upgradient-RAD
Pace Project No.: 92779992

Sample: HAM-UGRD-EB-01 **Lab ID: 92779992004** Collected: 02/13/25 17:30 Received: 02/14/25 16:10 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0565U ± 0.227 (0.553) C:74% T:NA**	pCi/L	03/11/25 08:23	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.601U ± 0.435 (0.855) C:77% T:88%**	pCi/L	03/10/25 11:58	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.658U ± 0.662 (1.41)**	pCi/L	03/11/25 15:09	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Hammond Pooled Upgradient-RAD
Pace Project No.: 92779992

Sample: HAM-UGRD-FB-01 **Lab ID: 92779992005** Collected: 02/13/25 17:25 Received: 02/14/25 16:10 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.119U ± 0.237 (0.546) C:83% T:NA**	pCi/L	03/11/25 08:23	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.998U ± 0.566 (1.04) C:72% T:75%**	pCi/L	03/10/25 15:00	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.12U ± 0.803 (1.59)**	pCi/L	03/11/25 15:09	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Hammond Pooled Upgradient-RAD
Pace Project No.: 92779992

Sample: HAM-HGWA-2 **Lab ID: 92779992006** Collected: 02/14/25 09:20 Received: 02/17/25 14:45 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.294U ± 0.267 (0.531) C:72% T:NA**	pCi/L	03/11/25 08:23	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.907U ± 0.509 (0.929) C:71% T:80%**	pCi/L	03/10/25 15:00	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.20U ± 0.776 (1.46)**	pCi/L	03/11/25 15:09	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Hammond Pooled Upgradient-RAD
Pace Project No.: 92779992

Sample: HAM-HGWA-3 **Lab ID: 92779992007** Collected: 02/14/25 11:07 Received: 02/17/25 14:45 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.100U ± 0.145 (0.310) C:81% T:NA**	pCi/L	03/11/25 10:00	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.506U ± 0.572 (1.21) C:71% T:76%**	pCi/L	03/10/25 15:00	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.606U ± 0.717 (1.52)**	pCi/L	03/11/25 15:09	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Hammond Pooled Upgradient-RAD
Pace Project No.: 92779992

Sample: HAM-UGRD-FD-01 **Lab ID: 92779992008** Collected: 02/14/25 00:00 Received: 02/17/25 14:45 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.401 ± 0.236 (0.356) C:72% T:NA**	pCi/L	03/11/25 10:00	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**1.30 ± 0.581 (0.983) C:75% T:82%**	pCi/L	03/10/25 15:00	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.70 ± 0.817 (1.34)**	pCi/L	03/11/25 15:09	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Hammond Pooled Upgradient-RAD
Pace Project No.: 92779992

QC Batch: 728168
QC Batch Method: EPA 9315
Analysis Method: EPA 9315
Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92779992001, 92779992002, 92779992003, 92779992004, 92779992005, 92779992006, 92779992007, 92779992008

METHOD BLANK: 3544497 Matrix: Water
Associated Lab Samples: 92779992001, 92779992002, 92779992003, 92779992004, 92779992005, 92779992006, 92779992007, 92779992008

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.652 ± 0.323 (0.458) C:64% T:NA	pCi/L	03/11/25 08:21	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Hammond Pooled Upgradient-RAD
Pace Project No.: 92779992

QC Batch: 728170 Analysis Method: EPA 9320
QC Batch Method: EPA 9320 Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92779992001, 92779992002, 92779992003, 92779992004, 92779992005, 92779992006, 92779992007, 92779992008

METHOD BLANK: 3544499 Matrix: Water
Associated Lab Samples: 92779992001, 92779992002, 92779992003, 92779992004, 92779992005, 92779992006, 92779992007, 92779992008

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.679 ± 0.418 (0.785) C:74% T:86%	pCi/L	03/10/25 11:58	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALIFIERS

Project: Hammond Pooled Upgradient-RAD
Pace Project No.: 92779992

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval). Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Hammond Pooled Upgradient-RAD
Pace Project No.: 92779992

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92779992001	**HAM-HGWA-1**	EPA 9315	728168		
92779992002	**HAM-HGWA-43D**	EPA 9315	728168		
92779992003	**HAM-HGWA-44D**	EPA 9315	728168		
92779992004	**HAM-UGRD-EB-01**	EPA 9315	728168		
92779992005	**HAM-UGRD-FB-01**	EPA 9315	728168		
92779992006	**HAM-HGWA-2**	EPA 9315	728168		
92779992007	**HAM-HGWA-3**	EPA 9315	728168		
92779992008	**HAM-UGRD-FD-01**	EPA 9315	728168		
92779992001	**HAM-HGWA-1**	EPA 9320	728170		
92779992002	**HAM-HGWA-43D**	EPA 9320	728170		
92779992003	**HAM-HGWA-44D**	EPA 9320	728170		
92779992004	**HAM-UGRD-EB-01**	EPA 9320	728170		
92779992005	**HAM-UGRD-FB-01**	EPA 9320	728170		
92779992006	**HAM-HGWA-2**	EPA 9320	728170		
92779992007	**HAM-HGWA-3**	EPA 9320	728170		
92779992008	**HAM-UGRD-FD-01**	EPA 9320	728170		
92779992001	**HAM-HGWA-1**	Total Radium Calculation	732070		
92779992002	**HAM-HGWA-43D**	Total Radium Calculation	732070		
92779992003	**HAM-HGWA-44D**	Total Radium Calculation	732070		
92779992004	**HAM-UGRD-EB-01**	Total Radium Calculation	732070		
92779992005	**HAM-UGRD-FB-01**	Total Radium Calculation	732070		
92779992006	**HAM-HGWA-2**	Total Radium Calculation	732070		
92779992007	**HAM-HGWA-3**	Total Radium Calculation	732070		
92779992008	**HAM-UGRD-FD-01**	Total Radium Calculation	732070		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #:

WO# : 92779992

92779992

Courier: ☐ Commercial ☐ Fed Ex ☑ Pace ☐ UPS ☐ USPS ☐ Other: ☐ Client

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No ☑ N/A

Date/Initials Person Examining Contents: 2/14/25 LDH

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 083

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 1.8 Correction Factor: Add/Subtract (°C) -0.1

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 1.9

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: W				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

Field Data Required? ☐ Yes ☐ No

COMMENTS/SAMPLE DISCREPANCY

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

Ultrax ID: 69614

DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

WO# : 92779992

PM: BV Due Date: 03/10/25

CLIENT: 92- GP-HAM

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg
**Bottom half of box is to list number of bottles
***Check all unpreserved Nitrates for chlorine

Project #

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Client_____ Profile/EZ (Circle one)_____ Notes_____

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH4)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
CC																													
1		2	1		2	2	1																						
2		2	1			2	1																						
3		2	1		2	2	1																						
4		2	1		2	2	1																						
5		1	1		2	2																							
6		1	1		2	2																							
7																													
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pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers.

Jaltrax ID: 69614

WO#: 92779992

PM: BV **Due Date: 03/10/25**

CLIENT: 92- GP-HAM

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Geosyntec Contacts	Company Name:	
				Address:	
Email To:	SCS Contacts	Purchase Order No.:		Pace Quote Reference:	
Phone:	Fax:	Project Name:	Plant Hammond Pooled Upgradient	Pace Project Manager:	Bonnie Vang
Requested Due Date/TAT:	10 Day	Project Number:		Pace Profile #:	10839

REGULATORY AGENCY

NPDES | GROUND WATER | DRINKING WATER

UST | RCRA | ✓ OTHER CCR

Site Location STATE: GA

Requested Analysis Filtered (Y/N)

ITEM #	Section D Required Client Information: SAMPLE ID (A-Z, 0-9 / , -) Sample IDs MUST BE UNIQUE	Valid Matrix Codes: MATRIX / CODE — DRINKING WATER DW; WATER WT; WASTE WATER WW; PRODUCT P; SOIL/SOLID SL; OIL OL; WIPE WP; AIR AR; OTHER OT; TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	COMPOSITE DATE	COMPOSITE TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	Chloride, Fluoride, Sulfate	Full Acp. III and IV metals	RAD 226/228	TDS	Major Ions (Profile 10839-2)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
																			Y/N	N	N	N	N			
1	HAM-HGWA-1		WG	G	2/12/2025	1338				16	8	3		4		1				X	X	X	X	X	N	001
2	HAM-HGWA-3		WG	G	2/12/2025	1430				16	6	3		2		1				X	X		X	X	N	Radium sent on separate COC
3	HAM-HGWA-43D		WG	G	2/12/2025	1450				16	8	3		4		1				X	X	X	X	X	N	002 limited volume for Alkalinity
4	HAM-HGWA-44D		WG	G	2/12/2025	1542				15	8	3		4		1				X	X	X	X	X	N	003
5	HAM-UGRD-EB-01		WG	G	2/13/2025	1730				15	6	2		4						X	X	X	X		N	Matrix = WQ 004
6	HAM-UGRD-FB-01		WG	G	2/13/2025	1725				15	6	2		4						X	X	X	X		N	Matrix = WQ 005
7																										
8																										
9																										
10																										
11																										
12																										

2/12-2/13/25

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Task Code: HAM-CCR-ASSMT-2025S1(1)	Zain Webb / Geosyntec	2-14-25	1340	Ryan Williams / Pace	2/14/25	1340	
	Ryan Williams / Pace	2/14/25	1610	Amanda Tomlinson / Geosyntec	2/14/25	1610	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Amanda Tomlinson, Zain Webb, Thomas Kessler / Geosyntec Consultants,

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 2-13-25

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #:

Courier: ☐ Commercial ☐ FedEx ☑ Pace ☐ UPS ☐ USPS ☐ Other:____ ☐ Client

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No ☑ N/A

Date/Initials Person Examining Contents: 2/17/25 CH

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☐ N/A

Thermometer: ☑ IR Gun ID: 083

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 1.7 Correction Factor: Add/Subtract (°C) +0.1

Cooler Temp Corrected (°C): 1.8

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: W	☑ Yes	☐ No	☐ N/A	9.
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

Field Data Required? ☐ Yes ☐ No

COMMENTS/SAMPLE DISCREPANCY

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg
**Bottom half of box is to list number of bottles
***Check all unpreserved Nitrates for chlorine

Project #

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Client_____ Profile/EZ (Circle one)_____ Notes_____

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG9T-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
CC																													
1		2	1		2	2	1																						
2					2																								
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pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers.

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately

Page: 1 of 1

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: GA Power	Report To: SCS Contacts	Attention: Southern Co.
Address: Atlanta, GA	Copy To: Geosyntec Contacts	Company Name:
		Address:
Email To: SCS Contacts	Purchase Order No.:	Pace Quote Reference:
Phone: Fax:	Project Name: Plant Hammond Pooled Upgradient	Pace Project Manager: Bonnie Vang
Requested Due Date/TAT: 10 Day	Project Number:	Pace Profile #: 10839

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER

UST RCRA ✓ OTHER CCR

Site Location STATE: GA

Section D Required Client Information

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END DATE	COLLECTED COMPOSITE END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	Chloride, Fluoride, Sulfate	Full App. III and IV metals	RAD 226/228	TDS	Major Ions (Profile 10839-2)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	HAM-HGWA-2	WG	G	2/14/2025	0920				16	8	3		4		1				X	X	X	X	X	N	006
2	HAM-HGWA-3	WG	G	2/14/2025	1107				16	2			2								X			N	Last Sample 007
3	HAM-UGRD-FD-01	WG	G	2/14/2025	0000				16	6	2		4						X	X	X	X		N	008
4																									
5																									
6																									
7																									
8																									
9																									
10																									
11																									
12																									

ART 2/16/2025

ART 2/16/2025

92779992

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Task Code: HAM-CCR-ASSMT-2025S1	Zain Webb / Geosyntec	2-17-25	1230	Ryan Williams / Pace	2/17/2025	1230	✓
	Ryan Williams / Pace	2/17/2025	1445		2/17/25	1445	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Amanda Tominson, Zain Webb, Thomas Kessler / Geosyntec Consultants, Inc.

SIGNATURE of SAMPLER: Zain Webb (AT) (TK) DATE Signed (MM/DD/YY): 2-17-25

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test:	Ra-228
Analyst:	VAL
Date:	3/3/2025
Worklist:	83720
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3544499
MB concentration:	0.679
M/B 2 Sigma CSU:	0.418
MB MDC:	0.785
MB Numerical Performance Indicator:	3.18
MB Status vs Numerical Indicator:	Fail*
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS83720	LCSD83720
Count Date:	3/10/2025	3/10/2025
Spike I.D.:	23-043	23-043
Decay Corrected Spike Concentration (pCi/mL):	33.291	33.291
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.818	0.819
Target Conc. (pCi/L, g, F):	4.072	4.063
Uncertainty (Calculated):	0.200	0.199
Result (pCi/L, g, F):	4.052	4.826
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.964	1.108
Numerical Performance Indicator:	-0.04	1.33
Percent Recovery:	99.52%	118.77%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS83720	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD83720	
Sample Result (pCi/L, g, F):	4.052	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.964	
Sample Duplicate Result (pCi/L, g, F):	4.826	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.108	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	-1.033	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	17.64%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

~~*If the lowest activity sample in this batch is greater than ten times the blank value, the blank is acceptable; otherwise this batch must be re-prepped.~~ X MB activity < MDC, Pass

VAL 3/11/25

3/11/25

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test:	Ra-226
Analyst:	SLC
Date:	3/8/2025
Worklist:	83719
Matrix:	W

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3544497
MB concentration:	0.652
M/B 2 Sigma CSU:	0.323
MB MDC:	0.458
MB Numerical Performance Indicator:	3.95
MB Status vs Numerical Indicator:	Fail*
MB Status vs. MDC:	N/A

OK - less than RL

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS83719	LCSD83719
Count Date:	3/11/2025	3/11/2025
Spike I.D.:	23-014	23-014
Decay Corrected Spike Concentration (pCi/mL):	25.014	25.014
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.506	0.507
Target Conc. (pCi/L, g, F):	4.945	4.936
Uncertainty (Calculated):	0.232	0.232
Result (pCi/L, g, F):	5.458	5.846
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.037	1.114
Numerical Performance Indicator:	0.95	1.57
Percent Recovery:	110.38%	118.45%
Status vs Numerical Indicator:	Pass	Pass
Status vs Recovery:	N/A	N/A
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS83719	92779986008
Duplicate Sample I.D.	LCSD83719	92779986008DUP
Sample Result (pCi/L, g, F):	5.458	0.048
Sample Result 2 Sigma CSU (pCi/L, g, F):	1.037	0.216
Sample Duplicate Result (pCi/L, g, F):	5.846	0.085
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.114	0.130
Are sample and/or duplicate results below RL?	NO	See Below ##
Duplicate Numerical Performance Indicator:	-0.500	-0.291
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	7.06%	56.33%
Duplicate Status vs Numerical Indicator:	Pass	Pass
Duplicate Status vs RPD:	N/A	N/A
% RPD Limit:	25%	25%

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:
*If the lowest activity ~~sample in this batch is greater than ten times the blank value, the blank is acceptable, otherwise this batch must be re-prepped.~~ OK less than RL

LAM 3/11/25

LAM 3/11/25

SLC 3/11/25

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

March 28, 2025

Kristen Jurinko
Southern Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, GA 30308

RE: Project: Hammond AP-1
Pace Project No.: 92779977

Dear Kristen Jurinko:

Enclosed are the analytical results for sample(s) received by the laboratory between February 14, 2025 and February 19, 2025. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace National - Mt. Juliet
- Pace Analytical Services - Asheville
- Pace Analytical Services - West Columbia

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Bonnie Vang
bonnie.vang@pacelabs.com
704-977-0968
Project Manager

Enclosures

cc: Kip Gray, Geosyntec
Christine Hug, Geosyntec Consultants, Inc.
Thomas Kessler, Geosyntec Consultants
Whitney Law, Geosyntec Consultants
Laura Midkiff, Southern Company
Caroline Nelson, Geosyntec Consultants, Inc
Jamie Newsome, Geosyntec Consultants
Zain Webb, Geosyntec Consultants

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CERTIFICATIONS

Project: Hammond AP-1
Pace Project No.: 92779977

Pace Analytical Services National

12065 Lebanon Road, Mt. Juliet, TN 37122
Alabama Certification #: 40660
Alaska Certification 17-026
Arizona Certification #: AZ0612
Arkansas Certification #: 88-0469
California Certification #: 2932
Canada Certification #: 1461.01
Colorado Certification #: TN00003
Connecticut Certification #: PH-0197
DOD Certification: #1461.01
EPA# TN00003
Florida Certification #: E87487
Georgia DW Certification #: 923
Georgia Certification: NELAP
Idaho Certification #: TN00003
Illinois Certification #: 200008
Indiana Certification #: C-TN-01
Iowa Certification #: 364
Kansas Certification #: E-10277
Kentucky UST Certification #: 16
Kentucky Certification #: 90010
Louisiana Certification #: AI30792
Louisiana DW Certification #: LA180010
Maine Certification #: TN0002
Maryland Certification #: 324
Massachusetts Certification #: M-TN003
Michigan Certification #: 9958
Minnesota Certification #: 047-999-395
Mississippi Certification #: TN00003
Missouri Certification #: 340
Montana Certification #: CERT0086
Nebraska Certification #: NE-OS-15-05
Nevada Certification #: TN-03-2002-34
New Hampshire Certification #: 2975
New Jersey Certification #: TN002
New Mexico DW Certification
New York Certification #: 11742
North Carolina Aquatic Toxicity Certification #: 41
North Carolina Drinking Water Certification #: 21704
North Carolina Environmental Certificate #: 375
North Dakota Certification #: R-140
Ohio VAP Certification #: CL0069
Oklahoma Certification #: 9915
Oregon Certification #: TN200002
Pennsylvania Certification #: 68-02979
Rhode Island Certification #: LAO00356
South Carolina Certification #: 84004
South Dakota Certification
Tennessee DW/Chem/Micro Certification #: 2006
Texas Certification #: T 104704245-17-14
Texas Mold Certification #: LAB0152
USDA Soil Permit #: P330-15-00234
Utah Certification #: TN00003
Virginia Certification #: VT2006
Vermont Dept. of Health: ID# VT-2006
Virginia Certification #: 460132
Washington Certification #: C847
West Virginia Certification #: 233
Wisconsin Certification #: 998093910
Wyoming UST Certification #: via A2LA 2926.01
A2LA-ISO 17025 Certification #: 1461.01
A2LA-ISO 17025 Certification #: 1461.02
AIHA-LAP/LLC EMLAP Certification #:100789

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Laboratory ID: 99030
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services West Columbia

106 Vantage Point Drive, West Columbia, SC 29172
Alaska Dept. of Energy Conservation, Cert# 20-002
California ELAP, cert# 3049
DoD, DoD QSM V5.4, cert# I.2224
DOE, DoD/DOE QSM V5.4, cert# I.2224.01
Florida, Dept. of Health, cert# E87653-70
Georgia, Env. Protection Division, cert# E87653
Illinois, EPA NELAP, cert# 2000552024-9
Kansas, Dept. of Health and Environment, cert# E-10417
Kentucky, Dept. for Env. Protection, UST, cert# 103582
Kentucky, Dept. for Env. Protection, cert# 98037
Louisiana, Dept. of Environmental Quality, cert# 5125
North Carolina, DEQ, Water Resources, cert# 329
New Jersey, Dept. of Env. Protection, cert# NLC 240005
Oklahoma, Dept. of Env. Quality, cert# 2023-175
Oregon, ELAP, cert# 4181-006
Pennsylvania, Dept. of Env. Protection, cert# 003
South Carolina, Dept. of Env. Services, cert# 32010001
Texas, Commission on Env. Quality, cert# TX-C24-00083
Virginia, Dept. of General Services, cert# 13080
Wisconsin, Dept. of Natural Resources, cert# 399136100

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SAMPLE SUMMARY

Project: Hammond AP-1
Pace Project No.: 92779977

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92779977001	**HAM-HGWC-11**	Water	02/13/25 15:32	02/14/25 16:10
92779977002	**HAM-HGWC-12**	Water	02/13/25 13:26	02/14/25 16:10
92779977003	**HAM-MW-7**	Water	02/13/25 11:52	02/14/25 16:10
92779977004	**HAM-MW-19**	Water	02/13/25 10:38	02/14/25 16:10
92779977005	**HAM-MW-25D**	Water	02/13/25 14:26	02/14/25 16:10
92779977006	**HAM-HGWC-7**	Water	02/16/25 11:54	02/17/25 14:45
92779977007	**HAM-HGWC-8**	Water	02/15/25 16:22	02/17/25 14:45
92779977008	**HAM-HGWC-9**	Water	02/15/25 09:58	02/17/25 14:45
92779977009	**HAM-HGWC-10**	Water	02/14/25 12:18	02/17/25 14:45
92779977010	**HAM-MW-5**	Water	02/14/25 15:14	02/17/25 14:45
92779977011	**HAM-MW-6**	Water	02/14/25 13:24	02/17/25 14:45
92779977012	**HAM-MW-20**	Water	02/15/25 11:11	02/17/25 14:45
92779977013	**HAM-MW-24D**	Water	02/16/25 15:36	02/17/25 14:45
92779977014	**HAM-MW-26D**	Water	02/14/25 16:34	02/17/25 14:45
92779977015	**HAM-MW-27D**	Water	02/15/25 14:45	02/17/25 14:45
92779977016	**HAM-MW-28D**	Water	02/16/25 10:18	02/17/25 14:45
92779977017	**HAM-MW-29**	Water	02/16/25 09:10	02/17/25 14:45
92779977018	**HAM-AP1-EB-01**	Water	02/14/25 16:30	02/17/25 14:45
92779977019	**HAM-AP1-FB-01**	Water	02/14/25 16:25	02/17/25 14:45
92779977020	**HAM-AP1-EB-02**	Water	02/16/25 16:15	02/17/25 14:45
92779977021	**HAM-AP1-FB-02**	Water	02/16/25 16:05	02/17/25 14:45
92779977022	**HAM-AP1-FD-02**	Water	02/14/25 00:00	02/17/25 14:45
92779977023	**HAM-HGWC-13**	Water	02/17/25 13:20	02/19/25 15:25
92779977024	**HAM-AP1-FD-01**	Water	02/17/25 00:00	02/19/25 15:25

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SAMPLE ANALYTE COUNT

Project: Hammond AP-1
Pace Project No.: 92779977

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92779977001	**HAM-HGWC-11**	EPA 6020B	JPD	1	PAN
		EPA 7470A	TMM	1	PASI-A
		SM 2320B-2011	YEG	3	PASI-A
		SM 2540C-2015	HCH	1	PASI-A
		SM 4500-S2D-2011	JP1	1	PASI-A
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6020B	BK1	18	PASI-WC
92779977002	**HAM-HGWC-12**	EPA 6020B	JPD	1	PAN
		EPA 7470A	TMM	1	PASI-A
		SM 2320B-2011	YEG	3	PASI-A
		SM 2540C-2015	HCH	1	PASI-A
		SM 4500-S2D-2011	JP1	1	PASI-A
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6020B	BK1	18	PASI-WC
92779977003	**HAM-MW-7**	EPA 6020B	JPD	1	PAN
		EPA 7470A	TMM	1	PASI-A
		SM 2320B-2011	YEG	3	PASI-A
		SM 2540C-2015	HCH	1	PASI-A
		SM 4500-S2D-2011	JP1	1	PASI-A
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6020B	BK1	18	PASI-WC
92779977004	**HAM-MW-19**	EPA 6020B	JPD	1	PAN
		EPA 7470A	TMM	1	PASI-A
		SM 2320B-2011	YEG	3	PASI-A
		SM 2540C-2015	HCH	1	PASI-A
		SM 4500-S2D-2011	JP1	1	PASI-A
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6020B	BK1	18	PASI-WC
92779977005	**HAM-MW-25D**	EPA 6020B	JPD	1	PAN
		EPA 7470A	TMM	1	PASI-A
		SM 2320B-2011	YEG	3	PASI-A
		SM 2540C-2015	HCH	1	PASI-A
		SM 4500-S2D-2011	JP1	1	PASI-A
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6020B	BK1	18	PASI-WC
92779977006	**HAM-HGWC-7**	EPA 6020B	JPD	1	PAN
		EPA 7470A	MAB2	1	PASI-A

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SAMPLE ANALYTE COUNT

Project: Hammond AP-1
Pace Project No.: 92779977

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 2320B-2011	YEG	3	PASI-A
		SM 2540C-2015	CDM	1	PASI-A
		SM 4500-S2D-2011	JP1	1	PASI-A
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6020B	BK1	18	PASI-WC
92779977007	**HAM-HGWC-8**	EPA 6020B	JPD	1	PAN
		EPA 7470A	MAB2	1	PASI-A
		SM 2320B-2011	YEG	3	PASI-A
		SM 2540C-2015	CDM	1	PASI-A
		SM 4500-S2D-2011	JP1	1	PASI-A
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6020B	BK1	18	PASI-WC
92779977008	**HAM-HGWC-9**	EPA 6020B	JPD	1	PAN
		EPA 7470A	MAB2	1	PASI-A
		SM 2320B-2011	YEG	3	PASI-A
		SM 2540C-2015	CDM	1	PASI-A
		SM 4500-S2D-2011	JP1	1	PASI-A
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6020B	BK1	18	PASI-WC
92779977009	**HAM-HGWC-10**	EPA 6020B	JPD	1	PAN
		EPA 7470A	MAB2	1	PASI-A
		SM 2320B-2011	YEG	3	PASI-A
		SM 2540C-2015	HCH	1	PASI-A
		SM 4500-S2D-2011	JP1	1	PASI-A
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6020B	BK1	18	PASI-WC
92779977010	**HAM-MW-5**	EPA 6020B	JPD	1	PAN
		EPA 7470A	MAB2	1	PASI-A
		SM 2320B-2011	YEG	3	PASI-A
		SM 2540C-2015	HCH	1	PASI-A
		SM 4500-S2D-2011	JP1	1	PASI-A
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6020B	BK1	18	PASI-WC
92779977011	**HAM-MW-6**	EPA 6020B	JPD	1	PAN
		EPA 7470A	MAB2	1	PASI-A
		SM 2320B-2011	YEG	3	PASI-A
		SM 2540C-2015	HCH	1	PASI-A

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SAMPLE ANALYTE COUNT

Project: Hammond AP-1
Pace Project No.: 92779977

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 4500-S2D-2011	JP1	1	PASI-A
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6020B	BK1	18	PASI-WC
92779977012	**HAM-MW-20**	EPA 6020B	JPD	1	PAN
		EPA 7470A	MAB2	1	PASI-A
		SM 2320B-2011	YEG	3	PASI-A
		SM 2540C-2015	CDM	1	PASI-A
		SM 4500-S2D-2011	JP1	1	PASI-A
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6020B	BK1	18	PASI-WC
92779977013	**HAM-MW-24D**	EPA 6020B	JPD	1	PAN
		EPA 7470A	MAB2	1	PASI-A
		SM 2320B-2011	YEG	3	PASI-A
		SM 2540C-2015	CMW1	1	PASI-A
		SM 4500-S2D-2011	JP1	1	PASI-A
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6020B	BK1	18	PASI-WC
92779977014	**HAM-MW-26D**	EPA 6020B	JPD	1	PAN
		EPA 7470A	MAB2	1	PASI-A
		SM 2320B-2011	YEG	3	PASI-A
		SM 2540C-2015	HCH	1	PASI-A
		SM 4500-S2D-2011	JP1	1	PASI-A
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6020B	BK1	18	PASI-WC
92779977015	**HAM-MW-27D**	EPA 6020B	JPD	1	PAN
		EPA 7470A	MAB2	1	PASI-A
		SM 2320B-2011	YEG	3	PASI-A
		SM 2540C-2015	CDM	1	PASI-A
		SM 4500-S2D-2011	JP1	1	PASI-A
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6020B	BK1	18	PASI-WC
92779977016	**HAM-MW-28D**	EPA 6020B	JPD	1	PAN
		EPA 7470A	MAB2	1	PASI-A
		SM 2320B-2011	YEG	3	PASI-A
		SM 2540C-2015	CMW1	1	PASI-A
		SM 4500-S2D-2011	JP1	1	PASI-A
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A

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SAMPLE ANALYTE COUNT

Project: Hammond AP-1
Pace Project No.: 92779977

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 6020B	BK1	18	PASI-WC
92779977017	**HAM-MW-29**	EPA 6020B	JPD	1	PAN
		EPA 7470A	MAB2	1	PASI-A
		SM 2320B-2011	YEG	3	PASI-A
		SM 2540C-2015	CMW1	1	PASI-A
		SM 4500-S2D-2011	JP1	1	PASI-A
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6020B	BK1	18	PASI-WC
92779977018	**HAM-AP1-EB-01**	EPA 6020B	JPD	1	PAN
		EPA 7470A	MAB2	1	PASI-A
		SM 2540C-2015	HCH	1	PASI-A
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6020B	BK1	13	PASI-WC
92779977019	**HAM-AP1-FB-01**	EPA 6020B	JPD	1	PAN
		EPA 7470A	MAB2	1	PASI-A
		SM 2540C-2015	HCH	1	PASI-A
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6020B	BK1	13	PASI-WC
92779977020	**HAM-AP1-EB-02**	EPA 6020B	JPD	1	PAN
		EPA 7470A	MAB2	1	PASI-A
		SM 2540C-2015	CMW1	1	PASI-A
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6020B	BK1	13	PASI-WC
92779977021	**HAM-AP1-FB-02**	EPA 6020B	JPD	1	PAN
		EPA 7470A	MAB2	1	PASI-A
		SM 2540C-2015	CMW1	1	PASI-A
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6020B	BK1	13	PASI-WC
92779977022	**HAM-AP1-FD-02**	EPA 6020B	JPD	1	PAN
		EPA 7470A	MAB2	1	PASI-A
		SM 2540C-2015	HCH	1	PASI-A
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6020B	BK1	13	PASI-WC
92779977023	**HAM-HGWC-13**	EPA 6020B	JPD	1	PAN
		EPA 7470A	MAB2	1	PASI-A
		SM 2320B-2011	SMS	3	PASI-A
		SM 2540C-2015	CDM	1	PASI-A

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SAMPLE ANALYTE COUNT

Project: Hammond AP-1
Pace Project No.: 92779977

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 4500-S2D-2011	JP1	1	PASI-A
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6020B	BK1	18	PASI-WC
92779977024	**HAM-AP1-FD-01**	EPA 6020B	JPD	1	PAN
		EPA 7470A	MAB2	1	PASI-A
		SM 2540C-2015	CDM	1	PASI-A
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6020B	BK1	13	PASI-WC

PAN = Pace National - Mt. Juliet
PASI-A = Pace Analytical Services - Asheville
PASI-WC = Pace Analytical Services - West Columbia

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SUMMARY OF DETECTION

Project: Hammond AP-1
Pace Project No.: 92779977

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92779977001	**HAM-HGWC-11**					
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	168	mg/L	5.0	02/22/25 17:04	
SM 2320B-2011	Alkalinity, Total as CaCO3	168	mg/L	5.0	02/22/25 17:04	
SM 2540C-2015	Total Dissolved Solids	478	mg/L	25.0	02/20/25 13:06	
EPA 300.0 Rev 2.1 1993	Chloride	11.7	mg/L	1.0	02/18/25 07:56	
EPA 300.0 Rev 2.1 1993	Fluoride	0.30	mg/L	0.10	02/18/25 07:56	M1
EPA 300.0 Rev 2.1 1993	Sulfate	155	mg/L	4.0	02/18/25 17:26	M1
EPA 6020B	Barium	0.042	mg/L	0.0050	03/12/25 22:29	
EPA 6020B	Boron	0.92	mg/L	0.40	03/12/25 17:48	
EPA 6020B	Calcium	133	mg/L	10.0	03/12/25 17:48	
EPA 6020B	Iron	0.015J	mg/L	0.040	03/12/25 22:29	
EPA 6020B	Magnesium	14.3	mg/L	0.050	03/12/25 22:29	
EPA 6020B	Manganese	0.028J	mg/L	0.040	03/12/25 22:29	
EPA 6020B	Molybdenum	0.041	mg/L	0.010	03/12/25 22:29	
EPA 6020B	Potassium	4.4J	mg/L	5.0	03/12/25 17:48	2g
EPA 6020B	Sodium	5.0	mg/L	1.0	03/12/25 22:29	
92779977002	**HAM-HGWC-12**					
EPA 6020B	Lithium	0.00909J	mg/L	0.0300	03/13/25 15:30	J
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	207	mg/L	5.0	02/22/25 17:15	
SM 2320B-2011	Alkalinity, Total as CaCO3	207	mg/L	5.0	02/22/25 17:15	
SM 2540C-2015	Total Dissolved Solids	590	mg/L	25.0	02/20/25 13:06	
EPA 300.0 Rev 2.1 1993	Chloride	24.3	mg/L	1.0	02/18/25 08:44	
EPA 300.0 Rev 2.1 1993	Fluoride	0.24	mg/L	0.10	02/18/25 08:44	
EPA 300.0 Rev 2.1 1993	Sulfate	198	mg/L	5.0	02/18/25 18:12	
EPA 6020B	Arsenic	0.0033J	mg/L	0.0050	03/12/25 22:38	
EPA 6020B	Barium	0.068	mg/L	0.0050	03/12/25 22:38	
EPA 6020B	Boron	1.4	mg/L	0.40	03/12/25 17:57	
EPA 6020B	Calcium	160	mg/L	10.0	03/12/25 17:57	
EPA 6020B	Cobalt	0.0015J	mg/L	0.0050	03/12/25 22:38	
EPA 6020B	Iron	0.21	mg/L	0.040	03/12/25 22:38	
EPA 6020B	Magnesium	15.0	mg/L	0.050	03/12/25 22:38	
EPA 6020B	Manganese	1.8	mg/L	0.40	03/12/25 17:57	
EPA 6020B	Molybdenum	0.044	mg/L	0.010	03/12/25 22:38	
EPA 6020B	Potassium	6.9	mg/L	5.0	03/12/25 17:57	2g
EPA 6020B	Sodium	7.5	mg/L	1.0	03/12/25 22:38	
92779977003	**HAM-MW-7**					
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	174	mg/L	5.0	02/22/25 17:23	
SM 2320B-2011	Alkalinity, Total as CaCO3	174	mg/L	5.0	02/22/25 17:23	
SM 2540C-2015	Total Dissolved Solids	302	mg/L	25.0	02/20/25 13:07	
EPA 300.0 Rev 2.1 1993	Chloride	3.8	mg/L	1.0	02/18/25 09:00	
EPA 300.0 Rev 2.1 1993	Fluoride	0.090J	mg/L	0.10	02/18/25 09:00	
EPA 300.0 Rev 2.1 1993	Sulfate	74.0	mg/L	1.0	02/18/25 09:00	
EPA 6020B	Barium	0.066	mg/L	0.0050	03/13/25 09:13	
EPA 6020B	Boron	0.19	mg/L	0.040	03/13/25 09:13	
EPA 6020B	Calcium	91.8	mg/L	10.0	03/12/25 18:07	
EPA 6020B	Chromium	0.0016J	mg/L	0.0050	03/13/25 09:13	
EPA 6020B	Iron	0.026J	mg/L	0.040	03/13/25 09:13	

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(704)875-9092

SUMMARY OF DETECTION

Project: Hammond AP-1
Pace Project No.: 92779977

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92779977003	**HAM-MW-7**					
EPA 6020B	Magnesium	7.0	mg/L	0.050	03/13/25 09:13	
EPA 6020B	Molybdenum	0.0025J	mg/L	0.010	03/13/25 09:13	
EPA 6020B	Potassium	0.82	mg/L	0.50	03/13/25 09:13	
EPA 6020B	Selenium	0.0019J	mg/L	0.0050	03/13/25 09:13	
EPA 6020B	Sodium	6.0	mg/L	1.0	03/13/25 09:13	
92779977004	**HAM-MW-19**					
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	115	mg/L	5.0	02/22/25 17:34	
SM 2320B-2011	Alkalinity, Total as CaCO3	115	mg/L	5.0	02/22/25 17:34	
SM 2540C-2015	Total Dissolved Solids	396	mg/L	25.0	02/20/25 13:07	
EPA 300.0 Rev 2.1 1993	Chloride	10.9	mg/L	1.0	02/18/25 09:15	
EPA 300.0 Rev 2.1 1993	Fluoride	0.075J	mg/L	0.10	02/18/25 09:15	
EPA 300.0 Rev 2.1 1993	Sulfate	141	mg/L	3.0	02/18/25 18:28	
EPA 6020B	Barium	0.035	mg/L	0.0050	03/13/25 09:22	
EPA 6020B	Boron	0.33J	mg/L	0.40	03/12/25 18:34	ED
EPA 6020B	Calcium	111	mg/L	10.0	03/12/25 18:34	
EPA 6020B	Cobalt	0.017	mg/L	0.0050	03/13/25 09:22	
EPA 6020B	Iron	0.16	mg/L	0.040	03/13/25 09:22	
EPA 6020B	Magnesium	10.4	mg/L	0.050	03/13/25 09:22	
EPA 6020B	Manganese	1.3	mg/L	0.40	03/12/25 18:34	
EPA 6020B	Potassium	1.2	mg/L	0.50	03/13/25 09:22	
EPA 6020B	Sodium	5.7	mg/L	1.0	03/13/25 09:22	
92779977005	**HAM-MW-25D**					
EPA 6020B	Lithium	0.0362	mg/L	0.0300	03/13/25 15:37	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	295	mg/L	5.0	02/22/25 17:41	
SM 2320B-2011	Alkalinity, Total as CaCO3	295	mg/L	5.0	02/22/25 17:41	
SM 2540C-2015	Total Dissolved Solids	324	mg/L	25.0	02/20/25 13:07	
SM 4500-S2D-2011	Sulfide	0.18	mg/L	0.10	02/19/25 01:54	
EPA 300.0 Rev 2.1 1993	Chloride	11.5	mg/L	1.0	02/18/25 09:31	
EPA 300.0 Rev 2.1 1993	Fluoride	1.4	mg/L	0.10	02/18/25 09:31	
EPA 6020B	Barium	0.77	mg/L	0.050	03/12/25 18:43	
EPA 6020B	Boron	0.34J	mg/L	0.40	03/12/25 18:43	ED
EPA 6020B	Calcium	23.0	mg/L	1.0	03/13/25 09:31	
EPA 6020B	Iron	0.36	mg/L	0.040	03/13/25 09:31	
EPA 6020B	Lead	0.00037J	mg/L	0.0010	03/13/25 09:31	
EPA 6020B	Magnesium	11.6	mg/L	0.050	03/13/25 09:31	
EPA 6020B	Manganese	0.015J	mg/L	0.040	03/13/25 09:31	
EPA 6020B	Potassium	0.52	mg/L	0.50	03/13/25 09:31	
EPA 6020B	Sodium	98.1	mg/L	10.0	03/12/25 18:43	
92779977006	**HAM-HGWC-7**					
EPA 6020B	Lithium	0.00167J	mg/L	0.0300	03/13/25 15:40	J
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	186	mg/L	5.0	02/25/25 19:56	
SM 2320B-2011	Alkalinity, Total as CaCO3	186	mg/L	5.0	02/25/25 19:56	
SM 2540C-2015	Total Dissolved Solids	408	mg/L	25.0	02/21/25 12:18	
EPA 300.0 Rev 2.1 1993	Chloride	30.7	mg/L	1.0	02/18/25 09:00	
EPA 300.0 Rev 2.1 1993	Fluoride	0.056J	mg/L	0.10	02/18/25 09:00	
EPA 300.0 Rev 2.1 1993	Sulfate	98.5	mg/L	1.0	02/18/25 09:00	M1

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SUMMARY OF DETECTION

Project: Hammond AP-1
Pace Project No.: 92779977

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92779977006	**HAM-HGWC-7**					
EPA 6020B	Barium	0.092	mg/L	0.0050	03/13/25 10:16	
EPA 6020B	Boron	0.90	mg/L	0.40	03/12/25 19:37	
EPA 6020B	Calcium	114	mg/L	10.0	03/12/25 19:37	
EPA 6020B	Iron	0.026J	mg/L	0.040	03/13/25 10:16	
EPA 6020B	Magnesium	10.8	mg/L	0.050	03/13/25 10:16	
EPA 6020B	Manganese	0.26	mg/L	0.040	03/13/25 10:16	
EPA 6020B	Molybdenum	0.019	mg/L	0.010	03/13/25 10:16	
EPA 6020B	Potassium	1.7	mg/L	0.50	03/13/25 10:16	
EPA 6020B	Sodium	10.5	mg/L	1.0	03/13/25 10:16	
92779977007	**HAM-HGWC-8**					
EPA 6020B	Lithium	0.000838J	mg/L	0.0300	03/18/25 13:17	J
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	76.9	mg/L	5.0	02/25/25 17:27	
SM 2320B-2011	Alkalinity, Total as CaCO3	76.9	mg/L	5.0	02/25/25 17:27	
SM 2540C-2015	Total Dissolved Solids	340	mg/L	25.0	02/21/25 12:16	
EPA 300.0 Rev 2.1 1993	Chloride	25.0	mg/L	1.0	02/18/25 09:45	
EPA 300.0 Rev 2.1 1993	Fluoride	0.24	mg/L	0.10	02/18/25 09:45	
EPA 300.0 Rev 2.1 1993	Sulfate	104	mg/L	3.0	02/18/25 15:27	
EPA 6020B	Barium	0.048	mg/L	0.0050	03/13/25 00:26	
EPA 6020B	Beryllium	0.00017J	mg/L	0.00050	03/13/25 00:26	
EPA 6020B	Boron	1.4	mg/L	0.40	03/12/25 19:46	M1
EPA 6020B	Cadmium	0.00022J	mg/L	0.00050	03/13/25 00:26	
EPA 6020B	Calcium	83.3	mg/L	10.0	03/12/25 19:46	M1
EPA 6020B	Cobalt	0.0021J	mg/L	0.0050	03/13/25 00:26	
EPA 6020B	Iron	0.023J	mg/L	0.040	03/13/25 00:26	
EPA 6020B	Magnesium	11.7	mg/L	0.050	03/13/25 00:26	
EPA 6020B	Manganese	0.39J	mg/L	0.40	03/12/25 19:46	ED
EPA 6020B	Molybdenum	0.17	mg/L	0.010	03/13/25 00:26	
EPA 6020B	Potassium	5.6	mg/L	5.0	03/12/25 19:46	2g
EPA 6020B	Sodium	8.6	mg/L	1.0	03/13/25 00:26	
92779977008	**HAM-HGWC-9**					
EPA 6020B	Lithium	0.00343J	mg/L	0.0300	03/18/25 13:26	J
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	182	mg/L	5.0	02/25/25 17:34	
SM 2320B-2011	Alkalinity, Total as CaCO3	182	mg/L	5.0	02/25/25 17:34	
SM 2540C-2015	Total Dissolved Solids	628	mg/L	25.0	02/21/25 12:16	
EPA 300.0 Rev 2.1 1993	Chloride	81.2	mg/L	1.0	02/18/25 10:00	
EPA 300.0 Rev 2.1 1993	Fluoride	0.071J	mg/L	0.10	02/18/25 10:00	
EPA 300.0 Rev 2.1 1993	Sulfate	169	mg/L	4.0	02/18/25 15:42	
EPA 6020B	Barium	0.065	mg/L	0.0050	03/13/25 01:12	
EPA 6020B	Boron	2.0	mg/L	0.40	03/12/25 21:07	
EPA 6020B	Calcium	171	mg/L	10.0	03/12/25 21:07	
EPA 6020B	Iron	0.094	mg/L	0.040	03/13/25 01:12	
EPA 6020B	Magnesium	17.6	mg/L	0.050	03/13/25 01:12	
EPA 6020B	Manganese	0.39J	mg/L	0.40	03/12/25 21:07	ED
EPA 6020B	Molybdenum	0.013	mg/L	0.010	03/13/25 01:12	
EPA 6020B	Potassium	3.1J	mg/L	5.0	03/12/25 21:07	2g
EPA 6020B	Sodium	13.0	mg/L	1.0	03/13/25 01:12	

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SUMMARY OF DETECTION

Project: Hammond AP-1
Pace Project No.: 92779977

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92779977009	**HAM-HGWC-10**					
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	116	mg/L	5.0	02/25/25 15:54	
SM 2320B-2011	Alkalinity, Total as CaCO3	116	mg/L	5.0	02/25/25 15:54	
SM 2540C-2015	Total Dissolved Solids	208	mg/L	25.0	02/21/25 11:31	
EPA 300.0 Rev 2.1 1993	Chloride	2.1	mg/L	1.0	02/18/25 10:44	
EPA 300.0 Rev 2.1 1993	Fluoride	0.086J	mg/L	0.10	02/18/25 10:44	
EPA 300.0 Rev 2.1 1993	Sulfate	39.2	mg/L	1.0	02/18/25 10:44	
EPA 6020B	Barium	0.049	mg/L	0.0050	03/13/25 01:21	
EPA 6020B	Boron	0.10	mg/L	0.040	03/13/25 01:21	
EPA 6020B	Calcium	61.0	mg/L	10.0	03/12/25 21:16	
EPA 6020B	Chromium	0.0014J	mg/L	0.0050	03/13/25 01:21	
EPA 6020B	Iron	0.20	mg/L	0.040	03/13/25 01:21	
EPA 6020B	Magnesium	4.1	mg/L	0.050	03/13/25 01:21	
EPA 6020B	Manganese	0.042	mg/L	0.040	03/13/25 01:21	
EPA 6020B	Potassium	5.5	mg/L	5.0	03/12/25 21:16	2g
EPA 6020B	Selenium	0.0024J	mg/L	0.0050	03/13/25 01:21	
EPA 6020B	Sodium	3.8	mg/L	1.0	03/13/25 01:21	
92779977010	**HAM-MW-5**					
EPA 6020B	Lithium	0.000687J	mg/L	0.0300	03/18/25 13:30	J
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	163	mg/L	5.0	02/25/25 16:10	
SM 2320B-2011	Alkalinity, Total as CaCO3	163	mg/L	5.0	02/25/25 16:10	
SM 2540C-2015	Total Dissolved Solids	345	mg/L	25.0	02/21/25 11:31	
EPA 300.0 Rev 2.1 1993	Chloride	0.97J	mg/L	1.0	02/18/25 10:59	
EPA 300.0 Rev 2.1 1993	Fluoride	0.067J	mg/L	0.10	02/18/25 10:59	
EPA 300.0 Rev 2.1 1993	Sulfate	91.8	mg/L	2.0	02/18/25 15:57	
EPA 6020B	Barium	0.052	mg/L	0.0050	03/13/25 10:25	
EPA 6020B	Boron	0.039J	mg/L	0.040	03/13/25 10:25	
EPA 6020B	Calcium	91.2	mg/L	10.0	03/12/25 21:25	
EPA 6020B	Chromium	0.0023J	mg/L	0.0050	03/13/25 10:25	
EPA 6020B	Iron	0.021J	mg/L	0.040	03/13/25 10:25	
EPA 6020B	Magnesium	9.6	mg/L	0.050	03/13/25 10:25	
EPA 6020B	Potassium	1.0	mg/L	0.50	03/13/25 10:25	
EPA 6020B	Selenium	0.0034J	mg/L	0.0050	03/13/25 10:25	
EPA 6020B	Sodium	14.7	mg/L	1.0	03/13/25 10:25	
92779977011	**HAM-MW-6**					
EPA 6020B	Lithium	0.000625J	mg/L	0.0300	03/13/25 15:46	J
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	287	mg/L	5.0	02/25/25 16:18	
SM 2320B-2011	Alkalinity, Total as CaCO3	287	mg/L	5.0	02/25/25 16:18	
SM 2540C-2015	Total Dissolved Solids	634	mg/L	50.0	02/21/25 11:31	
EPA 300.0 Rev 2.1 1993	Chloride	17.5	mg/L	1.0	02/18/25 11:14	
EPA 300.0 Rev 2.1 1993	Sulfate	177	mg/L	4.0	02/18/25 16:42	
EPA 6020B	Barium	0.080	mg/L	0.0050	03/13/25 10:34	
EPA 6020B	Boron	0.68	mg/L	0.40	03/12/25 21:34	
EPA 6020B	Calcium	194	mg/L	10.0	03/12/25 21:34	
EPA 6020B	Iron	0.37	mg/L	0.040	03/13/25 10:34	
EPA 6020B	Magnesium	14.3	mg/L	0.050	03/13/25 10:34	
EPA 6020B	Manganese	0.89	mg/L	0.40	03/12/25 21:34	

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SUMMARY OF DETECTION

Project: Hammond AP-1
Pace Project No.: 92779977

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92779977011	**HAM-MW-6**					
EPA 6020B	Molybdenum	0.0029J	mg/L	0.010	03/13/25 10:34	
EPA 6020B	Potassium	1.3	mg/L	0.50	03/13/25 10:34	
EPA 6020B	Selenium	0.0035J	mg/L	0.0050	03/13/25 10:34	
EPA 6020B	Sodium	11.3	mg/L	1.0	03/13/25 10:34	
92779977012	**HAM-MW-20**					
EPA 6020B	Lithium	0.000940J	mg/L	0.0300	03/18/25 13:33	J
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	219	mg/L	5.0	02/25/25 17:53	
SM 2320B-2011	Alkalinity, Total as CaCO3	219	mg/L	5.0	02/25/25 17:53	
SM 2540C-2015	Total Dissolved Solids	472	mg/L	25.0	02/21/25 12:16	
EPA 300.0 Rev 2.1 1993	Chloride	29.6	mg/L	1.0	02/18/25 11:29	
EPA 300.0 Rev 2.1 1993	Sulfate	100	mg/L	2.0	02/18/25 16:57	
EPA 6020B	Barium	0.097	mg/L	0.0050	03/13/25 02:06	
EPA 6020B	Boron	0.13	mg/L	0.040	03/13/25 02:06	
EPA 6020B	Calcium	141	mg/L	10.0	03/12/25 21:43	
EPA 6020B	Iron	2.6	mg/L	0.040	03/13/25 02:06	
EPA 6020B	Magnesium	9.7	mg/L	0.050	03/13/25 02:06	
EPA 6020B	Manganese	0.11	mg/L	0.040	03/13/25 02:06	
EPA 6020B	Potassium	0.34J	mg/L	0.50	03/13/25 02:06	
EPA 6020B	Sodium	11.5	mg/L	1.0	03/13/25 02:06	
92779977013	**HAM-MW-24D**					
EPA 6020B	Lithium	0.00274J	mg/L	0.0300	03/13/25 15:50	J
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	94.1	mg/L	5.0	02/25/25 20:07	
SM 2320B-2011	Alkalinity, Total as CaCO3	94.1	mg/L	5.0	02/25/25 20:07	
SM 2540C-2015	Total Dissolved Solids	301	mg/L	25.0	02/21/25 16:57	
EPA 300.0 Rev 2.1 1993	Chloride	23.4	mg/L	1.0	02/18/25 11:44	
EPA 300.0 Rev 2.1 1993	Fluoride	0.11	mg/L	0.10	02/18/25 11:44	
EPA 300.0 Rev 2.1 1993	Sulfate	96.2	mg/L	2.0	02/18/25 17:12	
EPA 6020B	Antimony	0.00066J	mg/L	0.0030	03/25/25 15:42	
EPA 6020B	Barium	0.039	mg/L	0.0050	03/25/25 15:42	
EPA 6020B	Boron	0.51	mg/L	0.20	03/26/25 08:42	
EPA 6020B	Calcium	75.4	mg/L	5.0	03/26/25 08:42	
EPA 6020B	Iron	0.068	mg/L	0.040	03/25/25 15:42	
EPA 6020B	Magnesium	8.2	mg/L	0.050	03/25/25 15:42	
EPA 6020B	Manganese	0.013J	mg/L	0.040	03/25/25 15:42	
EPA 6020B	Molybdenum	0.0067J	mg/L	0.010	03/25/25 15:42	
EPA 6020B	Potassium	1.2	mg/L	0.50	03/25/25 15:42	
EPA 6020B	Sodium	8.8	mg/L	1.0	03/25/25 15:42	
92779977014	**HAM-MW-26D**					
EPA 6020B	Lithium	0.00342J	mg/L	0.0300	03/13/25 15:53	J
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	210	mg/L	5.0	02/25/25 16:26	
SM 2320B-2011	Alkalinity, Total as CaCO3	210	mg/L	5.0	02/25/25 16:26	
SM 2540C-2015	Total Dissolved Solids	612	mg/L	50.0	02/21/25 11:32	
EPA 300.0 Rev 2.1 1993	Chloride	57.8	mg/L	1.0	02/18/25 11:59	
EPA 300.0 Rev 2.1 1993	Fluoride	0.081J	mg/L	0.10	02/18/25 11:59	
EPA 300.0 Rev 2.1 1993	Sulfate	160	mg/L	4.0	02/18/25 17:27	
EPA 6020B	Barium	0.053	mg/L	0.0050	03/25/25 15:51	

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SUMMARY OF DETECTION

Project: Hammond AP-1
Pace Project No.: 92779977

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92779977014	**HAM-MW-26D**					
EPA 6020B	Boron	1.9	mg/L	0.40	03/26/25 08:51	
EPA 6020B	Calcium	149	mg/L	10.0	03/26/25 08:51	
EPA 6020B	Iron	0.34	mg/L	0.040	03/25/25 15:51	
EPA 6020B	Magnesium	14.9	mg/L	0.050	03/25/25 15:51	
EPA 6020B	Manganese	0.54	mg/L	0.40	03/26/25 08:51	
EPA 6020B	Molybdenum	0.022	mg/L	0.010	03/25/25 15:51	
EPA 6020B	Potassium	3.3	mg/L	0.50	03/25/25 15:51	
EPA 6020B	Sodium	10.4	mg/L	1.0	03/25/25 15:51	
92779977015	**HAM-MW-27D**					
EPA 6020B	Lithium	0.0115J	mg/L	0.0300	03/13/25 15:56	J
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	52.9	mg/L	5.0	02/25/25 18:06	
SM 2320B-2011	Alkalinity,Carbonate (CaCO3)	37.2	mg/L	5.0	02/25/25 18:06	
SM 2320B-2011	Alkalinity, Total as CaCO3	90.1	mg/L	5.0	02/25/25 18:06	
SM 2540C-2015	Total Dissolved Solids	128	mg/L	25.0	02/21/25 12:16	
EPA 300.0 Rev 2.1 1993	Chloride	25.2	mg/L	1.0	02/18/25 12:14	
EPA 300.0 Rev 2.1 1993	Fluoride	0.17	mg/L	0.10	02/18/25 12:14	
EPA 300.0 Rev 2.1 1993	Sulfate	6.5	mg/L	1.0	02/18/25 12:14	
EPA 6020B	Barium	0.49	mg/L	0.050	03/26/25 09:00	
EPA 6020B	Boron	0.12	mg/L	0.040	03/25/25 16:09	
EPA 6020B	Calcium	37.4	mg/L	10.0	03/26/25 09:00	
EPA 6020B	Iron	0.11	mg/L	0.040	03/25/25 16:09	
EPA 6020B	Magnesium	10.1	mg/L	0.050	03/25/25 16:09	
EPA 6020B	Manganese	0.030J	mg/L	0.040	03/25/25 16:09	
EPA 6020B	Molybdenum	0.022	mg/L	0.010	03/25/25 16:09	
EPA 6020B	Potassium	2.1	mg/L	0.50	03/25/25 16:09	
EPA 6020B	Sodium	25.2	mg/L	1.0	03/25/25 16:09	
92779977016	**HAM-MW-28D**					
EPA 6020B	Lithium	0.00738J	mg/L	0.0300	03/13/25 16:00	J
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	213	mg/L	5.0	02/25/25 20:15	
SM 2320B-2011	Alkalinity, Total as CaCO3	213	mg/L	5.0	02/25/25 20:15	
SM 2540C-2015	Total Dissolved Solids	326	mg/L	25.0	02/21/25 16:57	
SM 4500-S2D-2011	Sulfide	0.036J	mg/L	0.10	02/19/25 02:15	
EPA 300.0 Rev 2.1 1993	Chloride	22.0	mg/L	1.0	02/18/25 12:29	
EPA 300.0 Rev 2.1 1993	Fluoride	0.13	mg/L	0.10	02/18/25 12:29	
EPA 300.0 Rev 2.1 1993	Sulfate	53.6	mg/L	1.0	02/18/25 12:29	M1, R1
EPA 6020B	Barium	0.51	mg/L	0.025	03/26/25 09:09	
EPA 6020B	Boron	0.49	mg/L	0.20	03/26/25 09:09	
EPA 6020B	Calcium	67.2	mg/L	5.0	03/26/25 09:09	
EPA 6020B	Iron	0.24	mg/L	0.040	03/25/25 16:37	
EPA 6020B	Magnesium	22.1	mg/L	0.050	03/25/25 16:37	
EPA 6020B	Manganese	0.12	mg/L	0.040	03/25/25 16:37	
EPA 6020B	Molybdenum	0.0031J	mg/L	0.010	03/25/25 16:37	
EPA 6020B	Potassium	1.1	mg/L	0.50	03/25/25 16:37	
EPA 6020B	Sodium	12.8	mg/L	1.0	03/25/25 16:37	
92779977017	**HAM-MW-29**					
EPA 6020B	Lithium	0.00371J	mg/L	0.0300	03/18/25 13:36	J

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SUMMARY OF DETECTION

Project: Hammond AP-1
Pace Project No.: 92779977

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92779977017	**HAM-MW-29**					
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	205	mg/L	5.0	02/25/25 20:23	
SM 2320B-2011	Alkalinity, Total as CaCO3	205	mg/L	5.0	02/25/25 20:23	
SM 2540C-2015	Total Dissolved Solids	506	mg/L	25.0	02/21/25 16:57	
EPA 300.0 Rev 2.1 1993	Chloride	51.2	mg/L	1.0	02/18/25 13:43	
EPA 300.0 Rev 2.1 1993	Sulfate	122	mg/L	3.0	02/18/25 17:56	
EPA 6020B	Barium	0.062	mg/L	0.0050	03/25/25 16:46	
EPA 6020B	Boron	1.1	mg/L	0.40	03/26/25 09:18	
EPA 6020B	Cadmium	0.00039J	mg/L	0.00050	03/25/25 16:46	
EPA 6020B	Calcium	136	mg/L	10.0	03/26/25 09:18	
EPA 6020B	Iron	0.19	mg/L	0.040	03/25/25 16:46	
EPA 6020B	Magnesium	11.0	mg/L	0.050	03/25/25 16:46	
EPA 6020B	Manganese	1.0	mg/L	0.40	03/26/25 09:18	
EPA 6020B	Potassium	0.79	mg/L	0.50	03/25/25 16:46	
EPA 6020B	Sodium	11.1	mg/L	1.0	03/25/25 16:46	
92779977022	**HAM-AP1-FD-02**					
EPA 6020B	Lithium	0.00334J	mg/L	0.0300	03/13/25 16:45	J
SM 2540C-2015	Total Dissolved Solids	618	mg/L	50.0	02/21/25 11:32	
EPA 300.0 Rev 2.1 1993	Chloride	58.1	mg/L	1.0	02/18/25 13:58	
EPA 300.0 Rev 2.1 1993	Fluoride	0.081J	mg/L	0.10	02/18/25 13:58	
EPA 300.0 Rev 2.1 1993	Sulfate	162	mg/L	4.0	02/18/25 18:11	
EPA 6020B	Barium	0.053	mg/L	0.0050	03/25/25 17:31	
EPA 6020B	Boron	1.9	mg/L	0.40	03/26/25 09:28	
EPA 6020B	Calcium	151	mg/L	10.0	03/26/25 09:28	
EPA 6020B	Molybdenum	0.022	mg/L	0.010	03/25/25 17:31	
92779977023	**HAM-HGWC-13**					
EPA 6020B	Lithium	0.0325	mg/L	0.0300	03/13/25 16:48	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	168	mg/L	5.0	02/26/25 19:38	
SM 2320B-2011	Alkalinity, Total as CaCO3	168	mg/L	5.0	02/26/25 19:38	
SM 2540C-2015	Total Dissolved Solids	522	mg/L	50.0	02/22/25 14:31	
EPA 300.0 Rev 2.1 1993	Chloride	13.5	mg/L	1.0	02/20/25 06:48	
EPA 300.0 Rev 2.1 1993	Fluoride	0.40	mg/L	0.10	02/20/25 06:48	
EPA 300.0 Rev 2.1 1993	Sulfate	167	mg/L	4.0	02/20/25 14:00	M1
EPA 6020B	Arsenic	0.34	mg/L	0.050	03/26/25 10:32	
EPA 6020B	Barium	0.046	mg/L	0.0050	03/25/25 19:21	
EPA 6020B	Boron	1.0	mg/L	0.40	03/26/25 10:32	
EPA 6020B	Calcium	115	mg/L	10.0	03/26/25 10:32	
EPA 6020B	Cobalt	0.0087	mg/L	0.0050	03/25/25 19:21	
EPA 6020B	Iron	3.7	mg/L	0.040	03/25/25 19:21	
EPA 6020B	Magnesium	12.8	mg/L	0.050	03/25/25 19:21	
EPA 6020B	Manganese	4.1	mg/L	4.0	03/26/25 10:41	
EPA 6020B	Molybdenum	0.015	mg/L	0.010	03/25/25 19:21	
EPA 6020B	Potassium	4.9	mg/L	0.50	03/25/25 19:21	
EPA 6020B	Sodium	6.1	mg/L	1.0	03/25/25 19:21	
EPA 6020B	Thallium	0.00025J	mg/L	0.0010	03/25/25 19:21	
92779977024	**HAM-AP1-FD-01**					
EPA 6020B	Lithium	0.0327	mg/L	0.0300	03/13/25 16:51	

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SUMMARY OF DETECTION

Project: Hammond AP-1
Pace Project No.: 92779977

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92779977024	**HAM-AP1-FD-01**					
SM 2540C-2015	Total Dissolved Solids	522	mg/L	50.0	02/22/25 14:31	
EPA 300.0 Rev 2.1 1993	Chloride	13.5	mg/L	1.0	02/20/25 07:33	
EPA 300.0 Rev 2.1 1993	Fluoride	0.39	mg/L	0.10	02/20/25 07:33	
EPA 300.0 Rev 2.1 1993	Sulfate	167	mg/L	4.0	02/20/25 14:44	
EPA 6020B	Arsenic	0.34	mg/L	0.050	03/26/25 10:50	
EPA 6020B	Barium	0.047	mg/L	0.0050	03/25/25 19:30	
EPA 6020B	Boron	1.0	mg/L	0.40	03/26/25 10:50	
EPA 6020B	Calcium	119	mg/L	10.0	03/26/25 10:50	
EPA 6020B	Cobalt	0.0090	mg/L	0.0050	03/25/25 19:30	
EPA 6020B	Molybdenum	0.015	mg/L	0.010	03/25/25 19:30	
EPA 6020B	Thallium	0.00025J	mg/L	0.0010	03/25/25 19:30	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92779977

Sample: HAM-HGWC-11 **Lab ID: 92779977001** Collected: 02/13/25 15:32 Received: 02/14/25 16:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	ND	mg/L	0.0300	0.000600	1	03/18/25 08:39	03/18/25 13:10	7439-93-2	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	02/18/25 17:23	02/21/25 16:02	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**168**	mg/L	5.0	5.0	1		02/22/25 17:04		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/22/25 17:04		
Alkalinity, Total as CaCO3	**168**	mg/L	5.0	5.0	1		02/22/25 17:04		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**478**	mg/L	25.0	25.0	1		02/20/25 13:06		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		02/19/25 01:52	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**11.7**	mg/L	1.0	0.60	1		02/18/25 07:56	16887-00-6	
Fluoride	**0.30**	mg/L	0.10	0.050	1		02/18/25 07:56	16984-48-8	M1
Sulfate	**155**	mg/L	4.0	2.0	4		02/18/25 17:26	14808-79-8	M1
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	03/10/25 11:48	03/12/25 22:29	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/12/25 22:29	7440-38-2	
Barium	**0.042**	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/12/25 22:29	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	03/10/25 11:48	03/12/25 22:29	7440-41-7	
Boron	**0.92**	mg/L	0.40	0.062	10	03/10/25 11:48	03/12/25 17:48	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/10/25 11:48	03/12/25 22:29	7440-43-9	
Calcium	**133**	mg/L	10.0	1.0	10	03/10/25 11:48	03/12/25 17:48	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/12/25 22:29	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/12/25 22:29	7440-48-4	
Iron	**0.015J**	mg/L	0.040	0.012	1	03/10/25 11:48	03/12/25 22:29	7439-89-6	
Lead	ND	mg/L	0.0010	0.00025	1	03/10/25 11:48	03/12/25 22:29	7439-92-1	
Magnesium	**14.3**	mg/L	0.050	0.010	1	03/10/25 11:48	03/12/25 22:29	7439-95-4	
Manganese	**0.028J**	mg/L	0.040	0.0012	1	03/10/25 11:48	03/12/25 22:29	7439-96-5	
Molybdenum	**0.041**	mg/L	0.010	0.0025	1	03/10/25 11:48	03/12/25 22:29	7439-98-7	
Potassium	**4.4J**	mg/L	5.0	1.0	10	03/10/25 11:48	03/12/25 17:48	7440-09-7	2g
Selenium	ND	mg/L	0.050	0.012	10	03/10/25 11:48	03/12/25 17:48	7782-49-2	ED

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92779977

Sample: HAM-HGWC-11 **Lab ID: 92779977001** Collected: 02/13/25 15:32 Received: 02/14/25 16:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Sodium	**5.0**	mg/L	1.0	0.15	1	03/10/25 11:48	03/12/25 22:29	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	03/10/25 11:48	03/12/25 22:29	7440-28-0	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92779977

Sample: HAM-HGWC-12 **Lab ID: 92779977002** Collected: 02/13/25 13:26 Received: 02/14/25 16:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.00909J**	mg/L	0.0300	0.000600	1	03/13/25 12:34	03/13/25 15:30	7439-93-2	J
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	02/18/25 17:23	02/21/25 16:04	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**207**	mg/L	5.0	5.0	1		02/22/25 17:15		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/22/25 17:15		
Alkalinity, Total as CaCO3	**207**	mg/L	5.0	5.0	1		02/22/25 17:15		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**590**	mg/L	25.0	25.0	1		02/20/25 13:06		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		02/19/25 01:52	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**24.3**	mg/L	1.0	0.60	1		02/18/25 08:44	16887-00-6	
Fluoride	**0.24**	mg/L	0.10	0.050	1		02/18/25 08:44	16984-48-8	
Sulfate	**198**	mg/L	5.0	2.5	5		02/18/25 18:12	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	03/10/25 11:48	03/12/25 22:38	7440-36-0	
Arsenic	**0.0033J**	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/12/25 22:38	7440-38-2	
Barium	**0.068**	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/12/25 22:38	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	03/10/25 11:48	03/12/25 22:38	7440-41-7	
Boron	**1.4**	mg/L	0.40	0.062	10	03/10/25 11:48	03/12/25 17:57	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/10/25 11:48	03/12/25 22:38	7440-43-9	
Calcium	**160**	mg/L	10.0	1.0	10	03/10/25 11:48	03/12/25 17:57	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/12/25 22:38	7440-47-3	
Cobalt	**0.0015J**	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/12/25 22:38	7440-48-4	
Iron	**0.21**	mg/L	0.040	0.012	1	03/10/25 11:48	03/12/25 22:38	7439-89-6	
Lead	ND	mg/L	0.0010	0.00025	1	03/10/25 11:48	03/12/25 22:38	7439-92-1	
Magnesium	**15.0**	mg/L	0.050	0.010	1	03/10/25 11:48	03/12/25 22:38	7439-95-4	
Manganese	**1.8**	mg/L	0.40	0.012	10	03/10/25 11:48	03/12/25 17:57	7439-96-5	
Molybdenum	**0.044**	mg/L	0.010	0.0025	1	03/10/25 11:48	03/12/25 22:38	7439-98-7	
Potassium	**6.9**	mg/L	5.0	1.0	10	03/10/25 11:48	03/12/25 17:57	7440-09-7	2g
Selenium	ND	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/12/25 22:38	7782-49-2	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92779977

Sample: HAM-HGWC-12 **Lab ID: 92779977002** Collected: 02/13/25 13:26 Received: 02/14/25 16:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Sodium	**7.5**	mg/L	1.0	0.15	1	03/10/25 11:48	03/12/25 22:38	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	03/10/25 11:48	03/12/25 22:38	7440-28-0	

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Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92779977

Sample: HAM-MW-7 **Lab ID: 92779977003** Collected: 02/13/25 11:52 Received: 02/14/25 16:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	ND	mg/L	0.0300	0.000600	1	03/13/25 12:34	03/13/25 15:33	7439-93-2	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	02/18/25 17:23	02/21/25 16:06	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**174**	mg/L	5.0	5.0	1		02/22/25 17:23		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/22/25 17:23		
Alkalinity, Total as CaCO3	**174**	mg/L	5.0	5.0	1		02/22/25 17:23		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**302**	mg/L	25.0	25.0	1		02/20/25 13:07		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		02/19/25 01:54	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**3.8**	mg/L	1.0	0.60	1		02/18/25 09:00	16887-00-6	
Fluoride	**0.090J**	mg/L	0.10	0.050	1		02/18/25 09:00	16984-48-8	
Sulfate	**74.0**	mg/L	1.0	0.50	1		02/18/25 09:00	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	03/10/25 11:48	03/13/25 09:13	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/13/25 09:13	7440-38-2	
Barium	**0.066**	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/13/25 09:13	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	03/10/25 11:48	03/13/25 09:13	7440-41-7	
Boron	**0.19**	mg/L	0.040	0.0062	1	03/10/25 11:48	03/13/25 09:13	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/10/25 11:48	03/13/25 09:13	7440-43-9	
Calcium	**91.8**	mg/L	10.0	1.0	10	03/10/25 11:48	03/12/25 18:07	7440-70-2	
Chromium	**0.0016J**	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/13/25 09:13	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/13/25 09:13	7440-48-4	
Iron	**0.026J**	mg/L	0.040	0.012	1	03/10/25 11:48	03/13/25 09:13	7439-89-6	
Lead	ND	mg/L	0.0010	0.00025	1	03/10/25 11:48	03/13/25 09:13	7439-92-1	
Magnesium	**7.0**	mg/L	0.050	0.010	1	03/10/25 11:48	03/13/25 09:13	7439-95-4	
Manganese	ND	mg/L	0.040	0.0012	1	03/10/25 11:48	03/13/25 09:13	7439-96-5	
Molybdenum	**0.0025J**	mg/L	0.010	0.0025	1	03/10/25 11:48	03/13/25 09:13	7439-98-7	
Potassium	**0.82**	mg/L	0.50	0.10	1	03/10/25 11:48	03/13/25 09:13	7440-09-7	
Selenium	**0.0019J**	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/13/25 09:13	7782-49-2	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92779977

Sample: HAM-MW-7 **Lab ID: 92779977003** Collected: 02/13/25 11:52 Received: 02/14/25 16:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Sodium	**6.0**	mg/L	1.0	0.15	1	03/10/25 11:48	03/13/25 09:13	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	03/10/25 11:48	03/13/25 09:13	7440-28-0	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92779977

Sample: HAM-MW-19 **Lab ID: 92779977004** Collected: 02/13/25 10:38 Received: 02/14/25 16:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	ND	mg/L	0.0300	0.000600	1	03/18/25 08:39	03/18/25 13:13	7439-93-2	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	02/18/25 17:23	02/21/25 16:08	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**115**	mg/L	5.0	5.0	1		02/22/25 17:34		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/22/25 17:34		
Alkalinity, Total as CaCO3	**115**	mg/L	5.0	5.0	1		02/22/25 17:34		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**396**	mg/L	25.0	25.0	1		02/20/25 13:07		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		02/19/25 01:54	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**10.9**	mg/L	1.0	0.60	1		02/18/25 09:15	16887-00-6	
Fluoride	**0.075J**	mg/L	0.10	0.050	1		02/18/25 09:15	16984-48-8	
Sulfate	**141**	mg/L	3.0	1.5	3		02/18/25 18:28	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	03/10/25 11:48	03/13/25 09:22	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/13/25 09:22	7440-38-2	
Barium	**0.035**	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/13/25 09:22	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	03/10/25 11:48	03/13/25 09:22	7440-41-7	
Boron	**0.33J**	mg/L	0.40	0.062	10	03/10/25 11:48	03/12/25 18:34	7440-42-8	ED
Cadmium	ND	mg/L	0.00050	0.00012	1	03/10/25 11:48	03/13/25 09:22	7440-43-9	
Calcium	**111**	mg/L	10.0	1.0	10	03/10/25 11:48	03/12/25 18:34	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/13/25 09:22	7440-47-3	
Cobalt	**0.017**	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/13/25 09:22	7440-48-4	
Iron	**0.16**	mg/L	0.040	0.012	1	03/10/25 11:48	03/13/25 09:22	7439-89-6	
Lead	ND	mg/L	0.0010	0.00025	1	03/10/25 11:48	03/13/25 09:22	7439-92-1	
Magnesium	**10.4**	mg/L	0.050	0.010	1	03/10/25 11:48	03/13/25 09:22	7439-95-4	
Manganese	**1.3**	mg/L	0.40	0.012	10	03/10/25 11:48	03/12/25 18:34	7439-96-5	
Molybdenum	ND	mg/L	0.010	0.0025	1	03/10/25 11:48	03/13/25 09:22	7439-98-7	
Potassium	**1.2**	mg/L	0.50	0.10	1	03/10/25 11:48	03/13/25 09:22	7440-09-7	
Selenium	ND	mg/L	0.050	0.012	10	03/10/25 11:48	03/12/25 18:34	7782-49-2	ED

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92779977

Sample: HAM-MW-19 **Lab ID: 92779977004** Collected: 02/13/25 10:38 Received: 02/14/25 16:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Sodium	**5.7**	mg/L	1.0	0.15	1	03/10/25 11:48	03/13/25 09:22	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	03/10/25 11:48	03/13/25 09:22	7440-28-0	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92779977

Sample: HAM-MW-25D **Lab ID: 92779977005** Collected: 02/13/25 14:26 Received: 02/14/25 16:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.0362**	mg/L	0.0300	0.000600	1	03/13/25 12:34	03/13/25 15:37	7439-93-2	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	02/18/25 17:23	02/21/25 16:11	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**295**	mg/L	5.0	5.0	1		02/22/25 17:41		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/22/25 17:41		
Alkalinity, Total as CaCO3	**295**	mg/L	5.0	5.0	1		02/22/25 17:41		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**324**	mg/L	25.0	25.0	1		02/20/25 13:07		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	**0.18**	mg/L	0.10	0.022	1		02/19/25 01:54	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**11.5**	mg/L	1.0	0.60	1		02/18/25 09:31	16887-00-6	
Fluoride	**1.4**	mg/L	0.10	0.050	1		02/18/25 09:31	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		02/18/25 09:31	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	03/10/25 11:48	03/13/25 09:31	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/13/25 09:31	7440-38-2	
Barium	**0.77**	mg/L	0.050	0.012	10	03/10/25 11:48	03/12/25 18:43	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	03/10/25 11:48	03/13/25 09:31	7440-41-7	
Boron	**0.34J**	mg/L	0.40	0.062	10	03/10/25 11:48	03/12/25 18:43	7440-42-8	ED
Cadmium	ND	mg/L	0.00050	0.00012	1	03/10/25 11:48	03/13/25 09:31	7440-43-9	
Calcium	**23.0**	mg/L	1.0	0.10	1	03/10/25 11:48	03/13/25 09:31	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/13/25 09:31	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/13/25 09:31	7440-48-4	
Iron	**0.36**	mg/L	0.040	0.012	1	03/10/25 11:48	03/13/25 09:31	7439-89-6	
Lead	**0.00037J**	mg/L	0.0010	0.00025	1	03/10/25 11:48	03/13/25 09:31	7439-92-1	
Magnesium	**11.6**	mg/L	0.050	0.010	1	03/10/25 11:48	03/13/25 09:31	7439-95-4	
Manganese	**0.015J**	mg/L	0.040	0.0012	1	03/10/25 11:48	03/13/25 09:31	7439-96-5	
Molybdenum	ND	mg/L	0.010	0.0025	1	03/10/25 11:48	03/13/25 09:31	7439-98-7	
Potassium	**0.52**	mg/L	0.50	0.10	1	03/10/25 11:48	03/13/25 09:31	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/13/25 09:31	7782-49-2	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92779977

Sample: HAM-MW-25D **Lab ID: 92779977005** Collected: 02/13/25 14:26 Received: 02/14/25 16:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Sodium	**98.1**	mg/L	10.0	1.5	10	03/10/25 11:48	03/12/25 18:43	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	03/10/25 11:48	03/13/25 09:31	7440-28-0	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92779977

Sample: HAM-HGWC-7 **Lab ID: 92779977006** Collected: 02/16/25 11:54 Received: 02/17/25 14:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.00167J**	mg/L	0.0300	0.000600	1	03/13/25 12:34	03/13/25 15:40	7439-93-2	J
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	02/18/25 17:23	02/23/25 12:53	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**186**	mg/L	5.0	5.0	1		02/25/25 19:56		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/25/25 19:56		
Alkalinity, Total as CaCO3	**186**	mg/L	5.0	5.0	1		02/25/25 19:56		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**408**	mg/L	25.0	25.0	1		02/21/25 12:18		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		02/19/25 02:14	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**30.7**	mg/L	1.0	0.60	1		02/18/25 09:00	16887-00-6	
Fluoride	**0.056J**	mg/L	0.10	0.050	1		02/18/25 09:00	16984-48-8	
Sulfate	**98.5**	mg/L	1.0	0.50	1		02/18/25 09:00	14808-79-8	M1
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	03/10/25 11:48	03/13/25 10:16	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/13/25 10:16	7440-38-2	
Barium	**0.092**	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/13/25 10:16	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	03/10/25 11:48	03/13/25 10:16	7440-41-7	
Boron	**0.90**	mg/L	0.40	0.062	10	03/10/25 11:48	03/12/25 19:37	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/10/25 11:48	03/13/25 10:16	7440-43-9	
Calcium	**114**	mg/L	10.0	1.0	10	03/10/25 11:48	03/12/25 19:37	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/13/25 10:16	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/13/25 10:16	7440-48-4	
Iron	**0.026J**	mg/L	0.040	0.012	1	03/10/25 11:48	03/13/25 10:16	7439-89-6	
Lead	ND	mg/L	0.0010	0.00025	1	03/10/25 11:48	03/13/25 10:16	7439-92-1	
Magnesium	**10.8**	mg/L	0.050	0.010	1	03/10/25 11:48	03/13/25 10:16	7439-95-4	
Manganese	**0.26**	mg/L	0.040	0.0012	1	03/10/25 11:48	03/13/25 10:16	7439-96-5	
Molybdenum	**0.019**	mg/L	0.010	0.0025	1	03/10/25 11:48	03/13/25 10:16	7439-98-7	
Potassium	**1.7**	mg/L	0.50	0.10	1	03/10/25 11:48	03/13/25 10:16	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/13/25 10:16	7782-49-2	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92779977

Sample: HAM-HGWC-7 **Lab ID: 92779977006** Collected: 02/16/25 11:54 Received: 02/17/25 14:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Sodium	**10.5**	mg/L	1.0	0.15	1	03/10/25 11:48	03/13/25 10:16	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	03/10/25 11:48	03/13/25 10:16	7440-28-0	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92779977

Sample: HAM-HGWC-8 **Lab ID: 92779977007** Collected: 02/15/25 16:22 Received: 02/17/25 14:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.000838J**	mg/L	0.0300	0.000600	1	03/18/25 08:39	03/18/25 13:17	7439-93-2	J
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	02/18/25 17:23	02/23/25 12:55	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**76.9**	mg/L	5.0	5.0	1		02/25/25 17:27		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/25/25 17:27		
Alkalinity, Total as CaCO3	**76.9**	mg/L	5.0	5.0	1		02/25/25 17:27		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**340**	mg/L	25.0	25.0	1		02/21/25 12:16		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		02/19/25 02:05	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**25.0**	mg/L	1.0	0.60	1		02/18/25 09:45	16887-00-6	
Fluoride	**0.24**	mg/L	0.10	0.050	1		02/18/25 09:45	16984-48-8	
Sulfate	**104**	mg/L	3.0	1.5	3		02/18/25 15:27	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	03/10/25 11:48	03/13/25 00:26	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/13/25 00:26	7440-38-2	
Barium	**0.048**	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/13/25 00:26	7440-39-3	
Beryllium	**0.00017J**	mg/L	0.00050	0.00015	1	03/10/25 11:48	03/13/25 00:26	7440-41-7	
Boron	**1.4**	mg/L	0.40	0.062	10	03/10/25 11:48	03/12/25 19:46	7440-42-8	M1
Cadmium	**0.00022J**	mg/L	0.00050	0.00012	1	03/10/25 11:48	03/13/25 00:26	7440-43-9	
Calcium	**83.3**	mg/L	10.0	1.0	10	03/10/25 11:48	03/12/25 19:46	7440-70-2	M1
Chromium	ND	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/13/25 00:26	7440-47-3	
Cobalt	**0.0021J**	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/13/25 00:26	7440-48-4	
Iron	**0.023J**	mg/L	0.040	0.012	1	03/10/25 11:48	03/13/25 00:26	7439-89-6	
Lead	ND	mg/L	0.0010	0.00025	1	03/10/25 11:48	03/13/25 00:26	7439-92-1	
Magnesium	**11.7**	mg/L	0.050	0.010	1	03/10/25 11:48	03/13/25 00:26	7439-95-4	
Manganese	**0.39J**	mg/L	0.40	0.012	10	03/10/25 11:48	03/12/25 19:46	7439-96-5	ED
Molybdenum	**0.17**	mg/L	0.010	0.0025	1	03/10/25 11:48	03/13/25 00:26	7439-98-7	
Potassium	**5.6**	mg/L	5.0	1.0	10	03/10/25 11:48	03/12/25 19:46	7440-09-7	2g
Selenium	ND	mg/L	0.050	0.012	10	03/10/25 11:48	03/12/25 19:46	7782-49-2	1g

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92779977

Sample: HAM-HGWC-8 **Lab ID: 92779977007** Collected: 02/15/25 16:22 Received: 02/17/25 14:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Sodium	**8.6**	mg/L	1.0	0.15	1	03/10/25 11:48	03/13/25 00:26	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	03/10/25 11:48	03/13/25 00:26	7440-28-0	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92779977

Sample: HAM-HGWC-9 **Lab ID: 92779977008** Collected: 02/15/25 09:58 Received: 02/17/25 14:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.00343J**	mg/L	0.0300	0.000600	1	03/18/25 08:39	03/18/25 13:26	7439-93-2	J
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	02/18/25 17:23	02/23/25 12:57	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**182**	mg/L	5.0	5.0	1		02/25/25 17:34		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/25/25 17:34		
Alkalinity, Total as CaCO3	**182**	mg/L	5.0	5.0	1		02/25/25 17:34		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**628**	mg/L	25.0	25.0	1		02/21/25 12:16		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		02/19/25 02:06	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**81.2**	mg/L	1.0	0.60	1		02/18/25 10:00	16887-00-6	
Fluoride	**0.071J**	mg/L	0.10	0.050	1		02/18/25 10:00	16984-48-8	
Sulfate	**169**	mg/L	4.0	2.0	4		02/18/25 15:42	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	03/10/25 11:48	03/13/25 01:12	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/13/25 01:12	7440-38-2	
Barium	**0.065**	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/13/25 01:12	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	03/10/25 11:48	03/13/25 01:12	7440-41-7	
Boron	**2.0**	mg/L	0.40	0.062	10	03/10/25 11:48	03/12/25 21:07	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/10/25 11:48	03/13/25 01:12	7440-43-9	
Calcium	**171**	mg/L	10.0	1.0	10	03/10/25 11:48	03/12/25 21:07	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/13/25 01:12	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/13/25 01:12	7440-48-4	
Iron	**0.094**	mg/L	0.040	0.012	1	03/10/25 11:48	03/13/25 01:12	7439-89-6	
Lead	ND	mg/L	0.0010	0.00025	1	03/10/25 11:48	03/13/25 01:12	7439-92-1	
Magnesium	**17.6**	mg/L	0.050	0.010	1	03/10/25 11:48	03/13/25 01:12	7439-95-4	
Manganese	**0.39J**	mg/L	0.40	0.012	10	03/10/25 11:48	03/12/25 21:07	7439-96-5	ED
Molybdenum	**0.013**	mg/L	0.010	0.0025	1	03/10/25 11:48	03/13/25 01:12	7439-98-7	
Potassium	**3.1J**	mg/L	5.0	1.0	10	03/10/25 11:48	03/12/25 21:07	7440-09-7	2g
Selenium	ND	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/13/25 01:12	7782-49-2	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92779977

Sample: HAM-HGWC-9 **Lab ID: 92779977008** Collected: 02/15/25 09:58 Received: 02/17/25 14:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Sodium	**13.0**	mg/L	1.0	0.15	1	03/10/25 11:48	03/13/25 01:12	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	03/10/25 11:48	03/13/25 01:12	7440-28-0	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92779977

Sample: HAM-HGWC-10 **Lab ID: 92779977009** Collected: 02/14/25 12:18 Received: 02/17/25 14:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	ND	mg/L	0.0300	0.000600	1	03/13/25 12:34	03/13/25 15:43	7439-93-2	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	02/18/25 17:23	02/23/25 12:59	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**116**	mg/L	5.0	5.0	1		02/25/25 15:54		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/25/25 15:54		
Alkalinity, Total as CaCO3	**116**	mg/L	5.0	5.0	1		02/25/25 15:54		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**208**	mg/L	25.0	25.0	1		02/21/25 11:31		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		02/19/25 02:01	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**2.1**	mg/L	1.0	0.60	1		02/18/25 10:44	16887-00-6	
Fluoride	**0.086J**	mg/L	0.10	0.050	1		02/18/25 10:44	16984-48-8	
Sulfate	**39.2**	mg/L	1.0	0.50	1		02/18/25 10:44	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	03/10/25 11:48	03/13/25 01:21	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/13/25 01:21	7440-38-2	
Barium	**0.049**	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/13/25 01:21	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	03/10/25 11:48	03/13/25 01:21	7440-41-7	
Boron	**0.10**	mg/L	0.040	0.0062	1	03/10/25 11:48	03/13/25 01:21	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/10/25 11:48	03/13/25 01:21	7440-43-9	
Calcium	**61.0**	mg/L	10.0	1.0	10	03/10/25 11:48	03/12/25 21:16	7440-70-2	
Chromium	**0.0014J**	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/13/25 01:21	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/13/25 01:21	7440-48-4	
Iron	**0.20**	mg/L	0.040	0.012	1	03/10/25 11:48	03/13/25 01:21	7439-89-6	
Lead	ND	mg/L	0.0010	0.00025	1	03/10/25 11:48	03/13/25 01:21	7439-92-1	
Magnesium	**4.1**	mg/L	0.050	0.010	1	03/10/25 11:48	03/13/25 01:21	7439-95-4	
Manganese	**0.042**	mg/L	0.040	0.0012	1	03/10/25 11:48	03/13/25 01:21	7439-96-5	
Molybdenum	ND	mg/L	0.010	0.0025	1	03/10/25 11:48	03/13/25 01:21	7439-98-7	
Potassium	**5.5**	mg/L	5.0	1.0	10	03/10/25 11:48	03/12/25 21:16	7440-09-7	2g
Selenium	**0.0024J**	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/13/25 01:21	7782-49-2	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92779977

Sample: HAM-HGWC-10 **Lab ID: 92779977009** Collected: 02/14/25 12:18 Received: 02/17/25 14:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Sodium	**3.8**	mg/L	1.0	0.15	1	03/10/25 11:48	03/13/25 01:21	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	03/10/25 11:48	03/13/25 01:21	7440-28-0	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92779977

Sample: HAM-MW-5 **Lab ID: 92779977010** Collected: 02/14/25 15:14 Received: 02/17/25 14:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.000687J**	mg/L	0.0300	0.000600	1	03/18/25 08:39	03/18/25 13:30	7439-93-2	J
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	02/18/25 17:23	02/23/25 13:02	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**163**	mg/L	5.0	5.0	1		02/25/25 16:10		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/25/25 16:10		
Alkalinity, Total as CaCO3	**163**	mg/L	5.0	5.0	1		02/25/25 16:10		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**345**	mg/L	25.0	25.0	1		02/21/25 11:31		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		02/19/25 02:01	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**0.97J**	mg/L	1.0	0.60	1		02/18/25 10:59	16887-00-6	
Fluoride	**0.067J**	mg/L	0.10	0.050	1		02/18/25 10:59	16984-48-8	
Sulfate	**91.8**	mg/L	2.0	1.0	2		02/18/25 15:57	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	03/10/25 11:48	03/13/25 10:25	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/13/25 10:25	7440-38-2	
Barium	**0.052**	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/13/25 10:25	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	03/10/25 11:48	03/13/25 10:25	7440-41-7	
Boron	**0.039J**	mg/L	0.040	0.0062	1	03/10/25 11:48	03/13/25 10:25	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/10/25 11:48	03/13/25 10:25	7440-43-9	
Calcium	**91.2**	mg/L	10.0	1.0	10	03/10/25 11:48	03/12/25 21:25	7440-70-2	
Chromium	**0.0023J**	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/13/25 10:25	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/13/25 10:25	7440-48-4	
Iron	**0.021J**	mg/L	0.040	0.012	1	03/10/25 11:48	03/13/25 10:25	7439-89-6	
Lead	ND	mg/L	0.0010	0.00025	1	03/10/25 11:48	03/13/25 10:25	7439-92-1	
Magnesium	**9.6**	mg/L	0.050	0.010	1	03/10/25 11:48	03/13/25 10:25	7439-95-4	
Manganese	ND	mg/L	0.040	0.0012	1	03/10/25 11:48	03/13/25 10:25	7439-96-5	
Molybdenum	ND	mg/L	0.010	0.0025	1	03/10/25 11:48	03/13/25 10:25	7439-98-7	
Potassium	**1.0**	mg/L	0.50	0.10	1	03/10/25 11:48	03/13/25 10:25	7440-09-7	
Selenium	**0.0034J**	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/13/25 10:25	7782-49-2	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92779977

Sample: HAM-MW-5 **Lab ID: 92779977010** Collected: 02/14/25 15:14 Received: 02/17/25 14:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Sodium	**14.7**	mg/L	1.0	0.15	1	03/10/25 11:48	03/13/25 10:25	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	03/10/25 11:48	03/13/25 10:25	7440-28-0	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92779977

Sample: HAM-MW-6 **Lab ID: 92779977011** Collected: 02/14/25 13:24 Received: 02/17/25 14:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.000625J**	mg/L	0.0300	0.000600	1	03/13/25 12:34	03/13/25 15:46	7439-93-2	J
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	02/18/25 17:23	02/23/25 13:04	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**287**	mg/L	5.0	5.0	1		02/25/25 16:18		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/25/25 16:18		
Alkalinity, Total as CaCO3	**287**	mg/L	5.0	5.0	1		02/25/25 16:18		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**634**	mg/L	50.0	50.0	1		02/21/25 11:31		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		02/19/25 02:01	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**17.5**	mg/L	1.0	0.60	1		02/18/25 11:14	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/18/25 11:14	16984-48-8	
Sulfate	**177**	mg/L	4.0	2.0	4		02/18/25 16:42	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	03/10/25 11:48	03/13/25 10:34	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/13/25 10:34	7440-38-2	
Barium	**0.080**	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/13/25 10:34	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	03/10/25 11:48	03/13/25 10:34	7440-41-7	
Boron	**0.68**	mg/L	0.40	0.062	10	03/10/25 11:48	03/12/25 21:34	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/10/25 11:48	03/13/25 10:34	7440-43-9	
Calcium	**194**	mg/L	10.0	1.0	10	03/10/25 11:48	03/12/25 21:34	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/13/25 10:34	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/13/25 10:34	7440-48-4	
Iron	**0.37**	mg/L	0.040	0.012	1	03/10/25 11:48	03/13/25 10:34	7439-89-6	
Lead	ND	mg/L	0.0010	0.00025	1	03/10/25 11:48	03/13/25 10:34	7439-92-1	
Magnesium	**14.3**	mg/L	0.050	0.010	1	03/10/25 11:48	03/13/25 10:34	7439-95-4	
Manganese	**0.89**	mg/L	0.40	0.012	10	03/10/25 11:48	03/12/25 21:34	7439-96-5	
Molybdenum	**0.0029J**	mg/L	0.010	0.0025	1	03/10/25 11:48	03/13/25 10:34	7439-98-7	
Potassium	**1.3**	mg/L	0.50	0.10	1	03/10/25 11:48	03/13/25 10:34	7440-09-7	
Selenium	**0.0035J**	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/13/25 10:34	7782-49-2	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92779977

Sample: HAM-MW-6 **Lab ID: 92779977011** Collected: 02/14/25 13:24 Received: 02/17/25 14:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Sodium	**11.3**	mg/L	1.0	0.15	1	03/10/25 11:48	03/13/25 10:34	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	03/10/25 11:48	03/13/25 10:34	7440-28-0	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92779977

Sample: HAM-MW-20 **Lab ID: 92779977012** Collected: 02/15/25 11:11 Received: 02/17/25 14:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.000940J**	mg/L	0.0300	0.000600	1	03/18/25 08:39	03/18/25 13:33	7439-93-2	J
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	02/18/25 17:23	02/23/25 13:06	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**219**	mg/L	5.0	5.0	1		02/25/25 17:53		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/25/25 17:53		
Alkalinity, Total as CaCO3	**219**	mg/L	5.0	5.0	1		02/25/25 17:53		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**472**	mg/L	25.0	25.0	1		02/21/25 12:16		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		02/19/25 02:07	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**29.6**	mg/L	1.0	0.60	1		02/18/25 11:29	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/18/25 11:29	16984-48-8	
Sulfate	**100**	mg/L	2.0	1.0	2		02/18/25 16:57	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	03/10/25 11:48	03/13/25 02:06	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/13/25 02:06	7440-38-2	
Barium	**0.097**	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/13/25 02:06	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	03/10/25 11:48	03/13/25 02:06	7440-41-7	
Boron	**0.13**	mg/L	0.040	0.0062	1	03/10/25 11:48	03/13/25 02:06	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/10/25 11:48	03/13/25 02:06	7440-43-9	
Calcium	**141**	mg/L	10.0	1.0	10	03/10/25 11:48	03/12/25 21:43	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/13/25 02:06	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/13/25 02:06	7440-48-4	
Iron	**2.6**	mg/L	0.040	0.012	1	03/10/25 11:48	03/13/25 02:06	7439-89-6	
Lead	ND	mg/L	0.0010	0.00025	1	03/10/25 11:48	03/13/25 02:06	7439-92-1	
Magnesium	**9.7**	mg/L	0.050	0.010	1	03/10/25 11:48	03/13/25 02:06	7439-95-4	
Manganese	**0.11**	mg/L	0.040	0.0012	1	03/10/25 11:48	03/13/25 02:06	7439-96-5	
Molybdenum	ND	mg/L	0.010	0.0025	1	03/10/25 11:48	03/13/25 02:06	7439-98-7	
Potassium	**0.34J**	mg/L	0.50	0.10	1	03/10/25 11:48	03/13/25 02:06	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/13/25 02:06	7782-49-2	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92779977

Sample: HAM-MW-20 **Lab ID: 92779977012** Collected: 02/15/25 11:11 Received: 02/17/25 14:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Sodium	**11.5**	mg/L	1.0	0.15	1	03/10/25 11:48	03/13/25 02:06	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	03/10/25 11:48	03/13/25 02:06	7440-28-0	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92779977

Sample: HAM-MW-24D **Lab ID: 92779977013** Collected: 02/16/25 15:36 Received: 02/17/25 14:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.00274J**	mg/L	0.0300	0.000600	1	03/13/25 12:34	03/13/25 15:50	7439-93-2	J
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	02/18/25 17:23	02/23/25 13:08	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**94.1**	mg/L	5.0	5.0	1		02/25/25 20:07		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/25/25 20:07		
Alkalinity, Total as CaCO3	**94.1**	mg/L	5.0	5.0	1		02/25/25 20:07		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**301**	mg/L	25.0	25.0	1		02/21/25 16:57		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		02/19/25 02:15	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**23.4**	mg/L	1.0	0.60	1		02/18/25 11:44	16887-00-6	
Fluoride	**0.11**	mg/L	0.10	0.050	1		02/18/25 11:44	16984-48-8	
Sulfate	**96.2**	mg/L	2.0	1.0	2		02/18/25 17:12	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	**0.00066J**	mg/L	0.0030	0.00050	1	03/10/25 11:48	03/25/25 15:42	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/25/25 15:42	7440-38-2	
Barium	**0.039**	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/25/25 15:42	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	03/10/25 11:48	03/25/25 15:42	7440-41-7	
Boron	**0.51**	mg/L	0.20	0.031	5	03/10/25 11:48	03/26/25 08:42	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/10/25 11:48	03/25/25 15:42	7440-43-9	
Calcium	**75.4**	mg/L	5.0	0.50	5	03/10/25 11:48	03/26/25 08:42	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/25/25 15:42	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/25/25 15:42	7440-48-4	
Iron	**0.068**	mg/L	0.040	0.012	1	03/10/25 11:48	03/25/25 15:42	7439-89-6	
Lead	ND	mg/L	0.0010	0.00025	1	03/10/25 11:48	03/25/25 15:42	7439-92-1	
Magnesium	**8.2**	mg/L	0.050	0.010	1	03/10/25 11:48	03/25/25 15:42	7439-95-4	
Manganese	**0.013J**	mg/L	0.040	0.0012	1	03/10/25 11:48	03/25/25 15:42	7439-96-5	
Molybdenum	**0.0067J**	mg/L	0.010	0.0025	1	03/10/25 11:48	03/25/25 15:42	7439-98-7	
Potassium	**1.2**	mg/L	0.50	0.10	1	03/10/25 11:48	03/25/25 15:42	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/25/25 15:42	7782-49-2	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92779977

Sample: HAM-MW-24D **Lab ID: 92779977013** Collected: 02/16/25 15:36 Received: 02/17/25 14:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Sodium	**8.8**	mg/L	1.0	0.15	1	03/10/25 11:48	03/25/25 15:42	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	03/10/25 11:48	03/25/25 15:42	7440-28-0	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92779977

Sample: HAM-MW-26D **Lab ID: 92779977014** Collected: 02/14/25 16:34 Received: 02/17/25 14:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.00342J**	mg/L	0.0300	0.000600	1	03/13/25 12:34	03/13/25 15:53	7439-93-2	J
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	02/18/25 17:23	02/23/25 13:10	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**210**	mg/L	5.0	5.0	1		02/25/25 16:26		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/25/25 16:26		
Alkalinity, Total as CaCO3	**210**	mg/L	5.0	5.0	1		02/25/25 16:26		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**612**	mg/L	50.0	50.0	1		02/21/25 11:32		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		02/19/25 02:02	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**57.8**	mg/L	1.0	0.60	1		02/18/25 11:59	16887-00-6	
Fluoride	**0.081J**	mg/L	0.10	0.050	1		02/18/25 11:59	16984-48-8	
Sulfate	**160**	mg/L	4.0	2.0	4		02/18/25 17:27	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	03/10/25 11:48	03/25/25 15:51	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/25/25 15:51	7440-38-2	
Barium	**0.053**	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/25/25 15:51	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	03/10/25 11:48	03/25/25 15:51	7440-41-7	
Boron	**1.9**	mg/L	0.40	0.062	10	03/10/25 11:48	03/26/25 08:51	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/10/25 11:48	03/25/25 15:51	7440-43-9	
Calcium	**149**	mg/L	10.0	1.0	10	03/10/25 11:48	03/26/25 08:51	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/25/25 15:51	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/25/25 15:51	7440-48-4	
Iron	**0.34**	mg/L	0.040	0.012	1	03/10/25 11:48	03/25/25 15:51	7439-89-6	
Lead	ND	mg/L	0.0010	0.00025	1	03/10/25 11:48	03/25/25 15:51	7439-92-1	
Magnesium	**14.9**	mg/L	0.050	0.010	1	03/10/25 11:48	03/25/25 15:51	7439-95-4	
Manganese	**0.54**	mg/L	0.40	0.012	10	03/10/25 11:48	03/26/25 08:51	7439-96-5	
Molybdenum	**0.022**	mg/L	0.010	0.0025	1	03/10/25 11:48	03/25/25 15:51	7439-98-7	
Potassium	**3.3**	mg/L	0.50	0.10	1	03/10/25 11:48	03/25/25 15:51	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/25/25 15:51	7782-49-2	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92779977

Sample: HAM-MW-26D **Lab ID: 92779977014** Collected: 02/14/25 16:34 Received: 02/17/25 14:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Sodium	**10.4**	mg/L	1.0	0.15	1	03/10/25 11:48	03/25/25 15:51	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	03/10/25 11:48	03/25/25 15:51	7440-28-0	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92779977

Sample: HAM-MW-27D **Lab ID: 92779977015** Collected: 02/15/25 14:45 Received: 02/17/25 14:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.0115J**	mg/L	0.0300	0.000600	1	03/13/25 12:34	03/13/25 15:56	7439-93-2	J
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	02/18/25 17:23	02/23/25 13:12	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**52.9**	mg/L	5.0	5.0	1		02/25/25 18:06		
Alkalinity,Carbonate (CaCO3)	**37.2**	mg/L	5.0	5.0	1		02/25/25 18:06		
Alkalinity, Total as CaCO3	**90.1**	mg/L	5.0	5.0	1		02/25/25 18:06		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**128**	mg/L	25.0	25.0	1		02/21/25 12:16		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		02/19/25 02:08	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**25.2**	mg/L	1.0	0.60	1		02/18/25 12:14	16887-00-6	
Fluoride	**0.17**	mg/L	0.10	0.050	1		02/18/25 12:14	16984-48-8	
Sulfate	**6.5**	mg/L	1.0	0.50	1		02/18/25 12:14	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	03/10/25 11:48	03/25/25 16:09	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/25/25 16:09	7440-38-2	
Barium	**0.49**	mg/L	0.050	0.012	10	03/10/25 11:48	03/26/25 09:00	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	03/10/25 11:48	03/25/25 16:09	7440-41-7	
Boron	**0.12**	mg/L	0.040	0.0062	1	03/10/25 11:48	03/25/25 16:09	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/10/25 11:48	03/25/25 16:09	7440-43-9	
Calcium	**37.4**	mg/L	10.0	1.0	10	03/10/25 11:48	03/26/25 09:00	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/25/25 16:09	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/25/25 16:09	7440-48-4	
Iron	**0.11**	mg/L	0.040	0.012	1	03/10/25 11:48	03/25/25 16:09	7439-89-6	
Lead	ND	mg/L	0.0010	0.00025	1	03/10/25 11:48	03/25/25 16:09	7439-92-1	
Magnesium	**10.1**	mg/L	0.050	0.010	1	03/10/25 11:48	03/25/25 16:09	7439-95-4	
Manganese	**0.030J**	mg/L	0.040	0.0012	1	03/10/25 11:48	03/25/25 16:09	7439-96-5	
Molybdenum	**0.022**	mg/L	0.010	0.0025	1	03/10/25 11:48	03/25/25 16:09	7439-98-7	
Potassium	**2.1**	mg/L	0.50	0.10	1	03/10/25 11:48	03/25/25 16:09	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/25/25 16:09	7782-49-2	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92779977

Sample: HAM-MW-27D **Lab ID: 92779977015** Collected: 02/15/25 14:45 Received: 02/17/25 14:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Sodium	**25.2**	mg/L	1.0	0.15	1	03/10/25 11:48	03/25/25 16:09	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	03/10/25 11:48	03/25/25 16:09	7440-28-0	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92779977

Sample: HAM-MW-28D **Lab ID: 92779977016** Collected: 02/16/25 10:18 Received: 02/17/25 14:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.00738J**	mg/L	0.0300	0.000600	1	03/13/25 12:34	03/13/25 16:00	7439-93-2	J
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	02/18/25 17:23	02/23/25 13:18	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**213**	mg/L	5.0	5.0	1		02/25/25 20:15		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/25/25 20:15		
Alkalinity, Total as CaCO3	**213**	mg/L	5.0	5.0	1		02/25/25 20:15		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**326**	mg/L	25.0	25.0	1		02/21/25 16:57		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	**0.036J**	mg/L	0.10	0.022	1		02/19/25 02:15	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**22.0**	mg/L	1.0	0.60	1		02/18/25 12:29	16887-00-6	
Fluoride	**0.13**	mg/L	0.10	0.050	1		02/18/25 12:29	16984-48-8	
Sulfate	**53.6**	mg/L	1.0	0.50	1		02/18/25 12:29	14808-79-8	M1,R1
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	03/10/25 11:48	03/25/25 16:37	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/25/25 16:37	7440-38-2	
Barium	**0.51**	mg/L	0.025	0.0062	5	03/10/25 11:48	03/26/25 09:09	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	03/10/25 11:48	03/25/25 16:37	7440-41-7	
Boron	**0.49**	mg/L	0.20	0.031	5	03/10/25 11:48	03/26/25 09:09	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/10/25 11:48	03/25/25 16:37	7440-43-9	
Calcium	**67.2**	mg/L	5.0	0.50	5	03/10/25 11:48	03/26/25 09:09	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/25/25 16:37	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/25/25 16:37	7440-48-4	
Iron	**0.24**	mg/L	0.040	0.012	1	03/10/25 11:48	03/25/25 16:37	7439-89-6	
Lead	ND	mg/L	0.0010	0.00025	1	03/10/25 11:48	03/25/25 16:37	7439-92-1	
Magnesium	**22.1**	mg/L	0.050	0.010	1	03/10/25 11:48	03/25/25 16:37	7439-95-4	
Manganese	**0.12**	mg/L	0.040	0.0012	1	03/10/25 11:48	03/25/25 16:37	7439-96-5	
Molybdenum	**0.0031J**	mg/L	0.010	0.0025	1	03/10/25 11:48	03/25/25 16:37	7439-98-7	
Potassium	**1.1**	mg/L	0.50	0.10	1	03/10/25 11:48	03/25/25 16:37	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/25/25 16:37	7782-49-2	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92779977

Sample: HAM-MW-28D **Lab ID: 92779977016** Collected: 02/16/25 10:18 Received: 02/17/25 14:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Sodium	**12.8**	mg/L	1.0	0.15	1	03/10/25 11:48	03/25/25 16:37	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	03/10/25 11:48	03/25/25 16:37	7440-28-0	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92779977

Sample: HAM-MW-29 **Lab ID: 92779977017** Collected: 02/16/25 09:10 Received: 02/17/25 14:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.00371J**	mg/L	0.0300	0.000600	1	03/18/25 08:39	03/18/25 13:36	7439-93-2	J
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	02/18/25 17:23	02/23/25 13:20	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**205**	mg/L	5.0	5.0	1		02/25/25 20:23		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/25/25 20:23		
Alkalinity, Total as CaCO3	**205**	mg/L	5.0	5.0	1		02/25/25 20:23		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**506**	mg/L	25.0	25.0	1		02/21/25 16:57		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		02/19/25 02:15	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**51.2**	mg/L	1.0	0.60	1		02/18/25 13:43	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/18/25 13:43	16984-48-8	
Sulfate	**122**	mg/L	3.0	1.5	3		02/18/25 17:56	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	03/10/25 11:48	03/25/25 16:46	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/25/25 16:46	7440-38-2	
Barium	**0.062**	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/25/25 16:46	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	03/10/25 11:48	03/25/25 16:46	7440-41-7	
Boron	**1.1**	mg/L	0.40	0.062	10	03/10/25 11:48	03/26/25 09:18	7440-42-8	
Cadmium	**0.00039J**	mg/L	0.00050	0.00012	1	03/10/25 11:48	03/25/25 16:46	7440-43-9	
Calcium	**136**	mg/L	10.0	1.0	10	03/10/25 11:48	03/26/25 09:18	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/25/25 16:46	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/25/25 16:46	7440-48-4	
Iron	**0.19**	mg/L	0.040	0.012	1	03/10/25 11:48	03/25/25 16:46	7439-89-6	
Lead	ND	mg/L	0.0010	0.00025	1	03/10/25 11:48	03/25/25 16:46	7439-92-1	
Magnesium	**11.0**	mg/L	0.050	0.010	1	03/10/25 11:48	03/25/25 16:46	7439-95-4	
Manganese	**1.0**	mg/L	0.40	0.012	10	03/10/25 11:48	03/26/25 09:18	7439-96-5	
Molybdenum	ND	mg/L	0.010	0.0025	1	03/10/25 11:48	03/25/25 16:46	7439-98-7	
Potassium	**0.79**	mg/L	0.50	0.10	1	03/10/25 11:48	03/25/25 16:46	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/25/25 16:46	7782-49-2	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92779977

Sample: HAM-MW-29 **Lab ID: 92779977017** Collected: 02/16/25 09:10 Received: 02/17/25 14:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Sodium	**11.1**	mg/L	1.0	0.15	1	03/10/25 11:48	03/25/25 16:46	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	03/10/25 11:48	03/25/25 16:46	7440-28-0	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92779977

Sample: HAM-AP1-EB-01 **Lab ID: 92779977018** Collected: 02/14/25 16:30 Received: 02/17/25 14:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	ND	mg/L	0.0300	0.000600	1	03/13/25 12:34	03/13/25 16:35	7439-93-2	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	02/18/25 17:23	02/23/25 13:22	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		02/21/25 11:32		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		02/18/25 00:08	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/18/25 00:08	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		02/18/25 00:08	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	03/10/25 11:48	03/25/25 16:55	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/25/25 16:55	7440-38-2	
Barium	ND	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/25/25 16:55	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	03/10/25 11:48	03/25/25 16:55	7440-41-7	
Boron	ND	mg/L	0.040	0.0062	1	03/10/25 11:48	03/25/25 16:55	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/10/25 11:48	03/25/25 16:55	7440-43-9	
Calcium	ND	mg/L	1.0	0.10	1	03/10/25 11:48	03/25/25 16:55	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/25/25 16:55	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/25/25 16:55	7440-48-4	
Lead	ND	mg/L	0.0010	0.00025	1	03/10/25 11:48	03/25/25 16:55	7439-92-1	
Molybdenum	ND	mg/L	0.010	0.0025	1	03/10/25 11:48	03/25/25 16:55	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/25/25 16:55	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00015	1	03/10/25 11:48	03/25/25 16:55	7440-28-0	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92779977

Sample: HAM-AP1-FB-01 **Lab ID: 92779977019** Collected: 02/14/25 16:25 Received: 02/17/25 14:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	ND	mg/L	0.0300	0.000600	1	03/13/25 12:34	03/13/25 16:38	7439-93-2	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	02/18/25 17:23	02/23/25 13:24	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		02/21/25 11:32		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		02/18/25 00:23	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/18/25 00:23	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		02/18/25 00:23	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	03/10/25 11:48	03/25/25 17:04	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/25/25 17:04	7440-38-2	
Barium	ND	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/25/25 17:04	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	03/10/25 11:48	03/25/25 17:04	7440-41-7	
Boron	ND	mg/L	0.040	0.0062	1	03/10/25 11:48	03/25/25 17:04	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/10/25 11:48	03/25/25 17:04	7440-43-9	
Calcium	ND	mg/L	1.0	0.10	1	03/10/25 11:48	03/25/25 17:04	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/25/25 17:04	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/25/25 17:04	7440-48-4	
Lead	ND	mg/L	0.0010	0.00025	1	03/10/25 11:48	03/25/25 17:04	7439-92-1	
Molybdenum	ND	mg/L	0.010	0.0025	1	03/10/25 11:48	03/25/25 17:04	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/25/25 17:04	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00015	1	03/10/25 11:48	03/25/25 17:04	7440-28-0	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92779977

Sample: HAM-AP1-EB-02 **Lab ID: 92779977020** Collected: 02/16/25 16:15 Received: 02/17/25 14:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	ND	mg/L	0.0300	0.000600	1	03/18/25 08:39	03/18/25 13:40	7439-93-2	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	02/19/25 18:51	02/23/25 13:34	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		02/21/25 16:58		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		02/18/25 00:38	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/18/25 00:38	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		02/18/25 00:38	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	03/10/25 11:48	03/25/25 17:13	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/25/25 17:13	7440-38-2	
Barium	ND	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/25/25 17:13	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	03/10/25 11:48	03/25/25 17:13	7440-41-7	
Boron	ND	mg/L	0.040	0.0062	1	03/10/25 11:48	03/25/25 17:13	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/10/25 11:48	03/25/25 17:13	7440-43-9	
Calcium	ND	mg/L	1.0	0.10	1	03/10/25 11:48	03/25/25 17:13	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/25/25 17:13	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/25/25 17:13	7440-48-4	
Lead	ND	mg/L	0.0010	0.00025	1	03/10/25 11:48	03/25/25 17:13	7439-92-1	
Molybdenum	ND	mg/L	0.010	0.0025	1	03/10/25 11:48	03/25/25 17:13	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/25/25 17:13	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00015	1	03/10/25 11:48	03/25/25 17:13	7440-28-0	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92779977

Sample: HAM-AP1-FB-02 **Lab ID: 92779977021** Collected: 02/16/25 16:05 Received: 02/17/25 14:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	ND	mg/L	0.0300	0.000600	1	03/13/25 12:34	03/13/25 16:41	7439-93-2	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	02/19/25 18:51	02/23/25 13:36	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		02/21/25 16:58		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		02/18/25 01:37	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/18/25 01:37	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		02/18/25 01:37	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	03/10/25 11:48	03/25/25 17:22	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/25/25 17:22	7440-38-2	
Barium	ND	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/25/25 17:22	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	03/10/25 11:48	03/25/25 17:22	7440-41-7	
Boron	ND	mg/L	0.040	0.0062	1	03/10/25 11:48	03/25/25 17:22	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/10/25 11:48	03/25/25 17:22	7440-43-9	
Calcium	ND	mg/L	1.0	0.10	1	03/10/25 11:48	03/25/25 17:22	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/25/25 17:22	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/25/25 17:22	7440-48-4	
Lead	ND	mg/L	0.0010	0.00025	1	03/10/25 11:48	03/25/25 17:22	7439-92-1	
Molybdenum	ND	mg/L	0.010	0.0025	1	03/10/25 11:48	03/25/25 17:22	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/25/25 17:22	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00015	1	03/10/25 11:48	03/25/25 17:22	7440-28-0	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92779977

Sample: HAM-AP1-FD-02 **Lab ID: 92779977022** Collected: 02/14/25 00:00 Received: 02/17/25 14:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.00334J**	mg/L	0.0300	0.000600	1	03/13/25 12:34	03/13/25 16:45	7439-93-2	J
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	02/19/25 18:51	02/23/25 13:39	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**618**	mg/L	50.0	50.0	1		02/21/25 11:32		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**58.1**	mg/L	1.0	0.60	1		02/18/25 13:58	16887-00-6	
Fluoride	**0.081J**	mg/L	0.10	0.050	1		02/18/25 13:58	16984-48-8	
Sulfate	**162**	mg/L	4.0	2.0	4		02/18/25 18:11	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	03/10/25 11:48	03/25/25 17:31	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/25/25 17:31	7440-38-2	
Barium	**0.053**	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/25/25 17:31	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	03/10/25 11:48	03/25/25 17:31	7440-41-7	
Boron	**1.9**	mg/L	0.40	0.062	10	03/10/25 11:48	03/26/25 09:28	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/10/25 11:48	03/25/25 17:31	7440-43-9	
Calcium	**151**	mg/L	10.0	1.0	10	03/10/25 11:48	03/26/25 09:28	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/25/25 17:31	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/25/25 17:31	7440-48-4	
Lead	ND	mg/L	0.0010	0.00025	1	03/10/25 11:48	03/25/25 17:31	7439-92-1	
Molybdenum	**0.022**	mg/L	0.010	0.0025	1	03/10/25 11:48	03/25/25 17:31	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/25/25 17:31	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00015	1	03/10/25 11:48	03/25/25 17:31	7440-28-0	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92779977

Sample: HAM-HGWC-13 **Lab ID: 92779977023** Collected: 02/17/25 13:20 Received: 02/19/25 15:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.0325**	mg/L	0.0300	0.000600	1	03/13/25 12:34	03/13/25 16:48	7439-93-2	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	02/22/25 19:50	02/24/25 13:51	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**168**	mg/L	5.0	5.0	1		02/26/25 19:38		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/26/25 19:38		
Alkalinity, Total as CaCO3	**168**	mg/L	5.0	5.0	1		02/26/25 19:38		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**522**	mg/L	50.0	50.0	1		02/22/25 14:31		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		02/21/25 03:44	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**13.5**	mg/L	1.0	0.60	1		02/20/25 06:48	16887-00-6	
Fluoride	**0.40**	mg/L	0.10	0.050	1		02/20/25 06:48	16984-48-8	
Sulfate	**167**	mg/L	4.0	2.0	4		02/20/25 14:00	14808-79-8	M1
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	03/10/25 11:48	03/25/25 19:21	7440-36-0	
Arsenic	**0.34**	mg/L	0.050	0.012	10	03/10/25 11:48	03/26/25 10:32	7440-38-2	
Barium	**0.046**	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/25/25 19:21	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	03/10/25 11:48	03/25/25 19:21	7440-41-7	
Boron	**1.0**	mg/L	0.40	0.062	10	03/10/25 11:48	03/26/25 10:32	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/10/25 11:48	03/25/25 19:21	7440-43-9	
Calcium	**115**	mg/L	10.0	1.0	10	03/10/25 11:48	03/26/25 10:32	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/25/25 19:21	7440-47-3	
Cobalt	**0.0087**	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/25/25 19:21	7440-48-4	
Iron	**3.7**	mg/L	0.040	0.012	1	03/10/25 11:48	03/25/25 19:21	7439-89-6	
Lead	ND	mg/L	0.0010	0.00025	1	03/10/25 11:48	03/25/25 19:21	7439-92-1	
Magnesium	**12.8**	mg/L	0.050	0.010	1	03/10/25 11:48	03/25/25 19:21	7439-95-4	
Manganese	**4.1**	mg/L	4.0	0.12	100	03/10/25 11:48	03/26/25 10:41	7439-96-5	
Molybdenum	**0.015**	mg/L	0.010	0.0025	1	03/10/25 11:48	03/25/25 19:21	7439-98-7	
Potassium	**4.9**	mg/L	0.50	0.10	1	03/10/25 11:48	03/25/25 19:21	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/25/25 19:21	7782-49-2	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92779977

Sample: HAM-HGWC-13 **Lab ID: 92779977023** Collected: 02/17/25 13:20 Received: 02/19/25 15:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Sodium	**6.1**	mg/L	1.0	0.15	1	03/10/25 11:48	03/25/25 19:21	7440-23-5	
Thallium	**0.00025J**	mg/L	0.0010	0.00015	1	03/10/25 11:48	03/25/25 19:21	7440-28-0	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92779977

Sample: HAM-AP1-FD-01 **Lab ID: 92779977024** Collected: 02/17/25 00:00 Received: 02/19/25 15:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.0327**	mg/L	0.0300	0.000600	1	03/13/25 12:34	03/13/25 16:51	7439-93-2	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	02/22/25 19:50	02/24/25 13:53	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**522**	mg/L	50.0	50.0	1		02/22/25 14:31		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**13.5**	mg/L	1.0	0.60	1		02/20/25 07:33	16887-00-6	
Fluoride	**0.39**	mg/L	0.10	0.050	1		02/20/25 07:33	16984-48-8	
Sulfate	**167**	mg/L	4.0	2.0	4		02/20/25 14:44	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	03/10/25 11:48	03/25/25 19:30	7440-36-0	
Arsenic	**0.34**	mg/L	0.050	0.012	10	03/10/25 11:48	03/26/25 10:50	7440-38-2	
Barium	**0.047**	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/25/25 19:30	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	03/10/25 11:48	03/25/25 19:30	7440-41-7	
Boron	**1.0**	mg/L	0.40	0.062	10	03/10/25 11:48	03/26/25 10:50	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/10/25 11:48	03/25/25 19:30	7440-43-9	
Calcium	**119**	mg/L	10.0	1.0	10	03/10/25 11:48	03/26/25 10:50	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/25/25 19:30	7440-47-3	
Cobalt	**0.0090**	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/25/25 19:30	7440-48-4	
Lead	ND	mg/L	0.0010	0.00025	1	03/10/25 11:48	03/25/25 19:30	7439-92-1	
Molybdenum	**0.015**	mg/L	0.010	0.0025	1	03/10/25 11:48	03/25/25 19:30	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0012	1	03/10/25 11:48	03/25/25 19:30	7782-49-2	
Thallium	**0.00025J**	mg/L	0.0010	0.00015	1	03/10/25 11:48	03/25/25 19:30	7440-28-0	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92779977

QC Batch: 2467969
QC Batch Method: 3015
Analysis Method: EPA 6020B
Analysis Description: Metals (ICPMS) 6020B
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 92779977002, 92779977003, 92779977005, 92779977006, 92779977009, 92779977011, 92779977013, 92779977014, 92779977015, 92779977016, 92779977018, 92779977019, 92779977021, 92779977022, 92779977023, 92779977024

METHOD BLANK: R4186118-1 Matrix: Water
Associated Lab Samples: 92779977002, 92779977003, 92779977005, 92779977006, 92779977009, 92779977011, 92779977013, 92779977014, 92779977015, 92779977016, 92779977018, 92779977019, 92779977021, 92779977022, 92779977023, 92779977024

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lithium	mg/L	ND	0.0300	0.000600	03/13/25 14:53	

LABORATORY CONTROL SAMPLE: R4186118-2

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lithium	mg/L	0.0500	0.0462	92.4	80.0-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R4186118-4 R4186118-5

Parameter	Units	L1835231-21 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lithium	mg/L	0.0168	0.0500	0.0500	0.0639	0.0640	94.3	94.4	75.0-125	0.089	20	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92779977

QC Batch: 2470161
QC Batch Method: 3015
Analysis Method: EPA 6020B
Analysis Description: Metals (ICPMS) 6020B
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 92779977001, 92779977004, 92779977007, 92779977008, 92779977010, 92779977012, 92779977017, 92779977020

METHOD BLANK: R4187700-1 Matrix: Water
Associated Lab Samples: 92779977001, 92779977004, 92779977007, 92779977008, 92779977010, 92779977012, 92779977017, 92779977020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lithium	mg/L	ND	0.0300	0.000600	03/18/25 12:47	

LABORATORY CONTROL SAMPLE: R4187700-2

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lithium	mg/L	0.0500	0.0523	105	80.0-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R4187700-4 R4187700-5

Parameter	Units	L1834697-20 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lithium	mg/L	0.000839	0.0500	0.0500	0.0525	0.0551	103	108	75.0-125	4.65	20	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92779977

QC Batch: 916870
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92779977001, 92779977002, 92779977003, 92779977004, 92779977005

METHOD BLANK: 4711924 Matrix: Water
Associated Lab Samples: 92779977001, 92779977002, 92779977003, 92779977004, 92779977005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00012	02/21/25 15:35	

LABORATORY CONTROL SAMPLE: 4711925

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0025	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4711926 4711927

Parameter	Units	92779246001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0025	0.0025	97	97	75-125	0	25	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92779977

QC Batch: 916942 — Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A — Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92779977006, 92779977007, 92779977008, 92779977009, 92779977010, 92779977011, 92779977012, 92779977013, 92779977014, 92779977015, 92779977016, 92779977017, 92779977018, 92779977019

METHOD BLANK: 4712332 — Matrix: Water
Associated Lab Samples: 92779977006, 92779977007, 92779977008, 92779977009, 92779977010, 92779977011, 92779977012, 92779977013, 92779977014, 92779977015, 92779977016, 92779977017, 92779977018, 92779977019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00012	02/23/25 12:29	

LABORATORY CONTROL SAMPLE: 4712333

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0023	92	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4712334 4712335

Parameter	Units	92779989001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0023	0.0024	94	98	75-125	4	25	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92779977

QC Batch: 917240
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92779977020, 92779977021, 92779977022

METHOD BLANK: 4713992 Matrix: Water
Associated Lab Samples: 92779977020, 92779977021, 92779977022

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00012	02/23/25 13:30	

LABORATORY CONTROL SAMPLE: 4713993

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0023	92	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4713994 4713995

Parameter	Units	92779981002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0024	0.0024	97	98	75-125	1	25	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92779977

QC Batch: 917874
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92779977023, 92779977024

METHOD BLANK: 4717719 Matrix: Water
Associated Lab Samples: 92779977023, 92779977024

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00012	02/24/25 13:41	

LABORATORY CONTROL SAMPLE: 4717720

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0026	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4717721 4717722

Parameter	Units	92780477002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0026	0.0025	103	102	75-125	1	25	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92779977

QC Batch: 917923
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92779977001, 92779977002, 92779977003, 92779977004, 92779977005

METHOD BLANK: 4717861 Matrix: Water
Associated Lab Samples: 92779977001, 92779977002, 92779977003, 92779977004, 92779977005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	02/22/25 14:57	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	02/22/25 14:57	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	02/22/25 14:57	

LABORATORY CONTROL SAMPLE: 4717862

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.4	103	80-120	

LABORATORY CONTROL SAMPLE: 4717863

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	52.0	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4717864 4717865

Parameter	Units	92779260002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	ND	50	50	52.8	52.9	99	99	80-120	0	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4717866 4717867

Parameter	Units	92780100001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	8.7	50	50	60.6	60.7	104	104	80-120	0	25	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92779977

QC Batch: 918325
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92779977007, 92779977008, 92779977009, 92779977010, 92779977011, 92779977012, 92779977014, 92779977015

METHOD BLANK: 4719412 Matrix: Water
Associated Lab Samples: 92779977007, 92779977008, 92779977009, 92779977010, 92779977011, 92779977012, 92779977014, 92779977015

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	02/25/25 14:59	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	02/25/25 14:59	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	02/25/25 14:59	

LABORATORY CONTROL SAMPLE: 4719413

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.8	104	80-120	

LABORATORY CONTROL SAMPLE: 4719414

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.0	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4719415 4719416

Parameter	Units	92779983010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	143	50	50	191	193	97	100	80-120	1	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4719417 4719418

Parameter	Units	92779983011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	ND	50	50	51.6	51.6	102	102	80-120	0	25	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92779977

QC Batch: 918376
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92779977006, 92779977013, 92779977016, 92779977017

METHOD BLANK: 4719836 Matrix: Water
Associated Lab Samples: 92779977006, 92779977013, 92779977016, 92779977017

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	02/25/25 19:19	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	02/25/25 19:19	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	02/25/25 19:19	

LABORATORY CONTROL SAMPLE: 4719837

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.8	104	80-120	

LABORATORY CONTROL SAMPLE: 4719838

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.1	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4719839 4719840

Parameter	Units	92780133001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	48.5	50	50	88.4	99.6	80	102	80-120	12	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4719841 4719842

Parameter	Units	92780133002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	48.3	50	50	97.7	98.1	99	100	80-120	0	25	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92779977

QC Batch: 918580
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92779977023

METHOD BLANK: 4720642 Matrix: Water
Associated Lab Samples: 92779977023

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	02/26/25 16:07	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	02/26/25 16:07	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	02/26/25 16:07	

LABORATORY CONTROL SAMPLE: 4720643

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.7	103	80-120	

LABORATORY CONTROL SAMPLE: 4720644

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.9	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4722358 4722359

Parameter	Units	92780145004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	82.2	50	50	134	135	104	105	80-120	0	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4722360 4722361

Parameter	Units	92780145005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	68.8	50	50	119	120	100	103	80-120	1	25	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92779977

QC Batch: 917325 | Analysis Method: SM 2540C-2015
QC Batch Method: SM 2540C-2015 | Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92779977001, 92779977002, 92779977003, 92779977004, 92779977005

METHOD BLANK: 4714805 Matrix: Water
Associated Lab Samples: 92779977001, 92779977002, 92779977003, 92779977004, 92779977005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	02/20/25 13:06	

LABORATORY CONTROL SAMPLE: 4714806

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	236	94	90-110	

SAMPLE DUPLICATE: 4714807

Parameter	Units	92779890006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	60.0	52.0	14	25	

SAMPLE DUPLICATE: 4714808

Parameter	Units	92779987005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	90.0	89.0	1	25	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92779977

QC Batch: 917625 | Analysis Method: SM 2540C-2015
QC Batch Method: SM 2540C-2015 | Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92779977009, 92779977010, 92779977011, 92779977014, 92779977018, 92779977019, 92779977022

METHOD BLANK: 4716346 Matrix: Water
Associated Lab Samples: 92779977009, 92779977010, 92779977011, 92779977014, 92779977018, 92779977019, 92779977022

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	02/21/25 11:28	

LABORATORY CONTROL SAMPLE: 4716347

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	244	98	90-110	

SAMPLE DUPLICATE: 4716348

Parameter	Units	92779777001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	5470	5540	1	25	

SAMPLE DUPLICATE: 4716349

Parameter	Units	92779991002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	506	480	5	25	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92779977

QC Batch: 917626 | Analysis Method: SM 2540C-2015
QC Batch Method: SM 2540C-2015 | Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92779977006, 92779977007, 92779977008, 92779977012, 92779977015

METHOD BLANK: 4716350 Matrix: Water
Associated Lab Samples: 92779977006, 92779977007, 92779977008, 92779977012, 92779977015

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	02/21/25 12:15	

LABORATORY CONTROL SAMPLE: 4716351

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	246	98	90-110	

SAMPLE DUPLICATE: 4716352

Parameter	Units	92779981004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	192	196	2	25	

SAMPLE DUPLICATE: 4716353

Parameter	Units	92779985006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	640	650	2	25	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92779977

QC Batch: 917627 | Analysis Method: SM 2540C-2015
QC Batch Method: SM 2540C-2015 | Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92779977013, 92779977016, 92779977017, 92779977020, 92779977021

METHOD BLANK: 4716354 Matrix: Water
Associated Lab Samples: 92779977013, 92779977016, 92779977017, 92779977020, 92779977021

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	02/21/25 16:57	

LABORATORY CONTROL SAMPLE: 4716355

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	240	96	90-110	

SAMPLE DUPLICATE: 4716356

Parameter	Units	92779977013 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	301	302	0	25	

SAMPLE DUPLICATE: 4716357

Parameter	Units	92779987010 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	275	287	4	25	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92779977

QC Batch: 917869
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92779977023, 92779977024

METHOD BLANK: 4717705 Matrix: Water
Associated Lab Samples: 92779977023, 92779977024

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	02/22/25 14:30	

LABORATORY CONTROL SAMPLE: 4717706

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	270	108	90-110	

SAMPLE DUPLICATE: 4717707

Parameter	Units	92780440001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	290	296	2	25	

SAMPLE DUPLICATE: 4717708

Parameter	Units	92779981018 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	770	754	2	25	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92779977

QC Batch: 916812 | Analysis Method: SM 4500-S2D-2011
QC Batch Method: SM 4500-S2D-2011 | Analysis Description: 4500S2D Sulfide Water
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92779977001, 92779977002, 92779977003, 92779977004, 92779977005

METHOD BLANK: 4711805 Matrix: Water
Associated Lab Samples: 92779977001, 92779977002, 92779977003, 92779977004, 92779977005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	0.022	02/19/25 01:43	

LABORATORY CONTROL SAMPLE: 4711806

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	0.55	109	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4711807 4711808

Parameter	Units	92779374016 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.55	0.55	110	110	80-120	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4711809 4711810

Parameter	Units	92779989003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	0.025J	0.5	0.5	0.55	0.57	104	109	80-120	4	10	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92779977

QC Batch: 916813
QC Batch Method: SM 4500-S2D-2011
Analysis Method: SM 4500-S2D-2011
Analysis Description: 4500S2D Sulfide Water
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92779977007, 92779977008, 92779977009, 92779977010, 92779977011, 92779977012, 92779977014, 92779977015

METHOD BLANK: 4711811 Matrix: Water
Associated Lab Samples: 92779977007, 92779977008, 92779977009, 92779977010, 92779977011, 92779977012, 92779977014, 92779977015

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	0.022	02/19/25 01:58	

LABORATORY CONTROL SAMPLE: 4711812

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	0.55	110	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4711813 4711814

Parameter	Units	92779987004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.54	0.53	107	107	80-120	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4711815 4711816

Parameter	Units	92779977007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.52	0.55	104	110	80-120	6	10	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92779977

QC Batch: 916814
QC Batch Method: SM 4500-S2D-2011
Analysis Method: SM 4500-S2D-2011
Analysis Description: 4500S2D Sulfide Water
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92779977006, 92779977013, 92779977016, 92779977017

METHOD BLANK: 4711817 Matrix: Water
Associated Lab Samples: 92779977006, 92779977013, 92779977016, 92779977017

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	0.022	02/19/25 02:11	

LABORATORY CONTROL SAMPLE: 4711818

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	0.54	107	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4711819 4711820

Parameter	Units	92779987007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.48	0.51	96	103	80-120	7	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4711821 4711822

Parameter	Units	92779987011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.53	0.55	107	111	80-120	3	10	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92779977

QC Batch: 917635
QC Batch Method: SM 4500-S2D-2011
Analysis Method: SM 4500-S2D-2011
Analysis Description: 4500S2D Sulfide Water
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92779977023

METHOD BLANK: 4716376 Matrix: Water
Associated Lab Samples: 92779977023

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	0.022	02/21/25 03:40	

LABORATORY CONTROL SAMPLE: 4716377

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	0.43	86	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4716380 4716381

Parameter	Units	92780281001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.50	0.51	99	100	80-120	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4716410 4716411

Parameter	Units	92780075001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.52	0.55	104	109	80-120	5	10	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92779977

QC Batch: 916738
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92779977001, 92779977002, 92779977003, 92779977004, 92779977005

METHOD BLANK: 4711421 Matrix: Water
Associated Lab Samples: 92779977001, 92779977002, 92779977003, 92779977004, 92779977005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/17/25 22:58	
Fluoride	mg/L	ND	0.10	0.050	02/17/25 22:58	
Sulfate	mg/L	ND	1.0	0.50	02/17/25 22:58	

LABORATORY CONTROL SAMPLE: 4711422

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.3	101	90-110	
Fluoride	mg/L	2.5	2.5	99	90-110	
Sulfate	mg/L	50	50.4	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4711423 4711424

Parameter	Units	92779977001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	11.7	50	50	63.0	64.7	103	106	90-110	3	10	
Fluoride	mg/L	0.30	2.5	2.5	3.1	3.2	111	116	90-110	4	10	M1
Sulfate	mg/L	155	50	50	190	191	70	70	90-110	0	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4711425 4711426

Parameter	Units	92779987003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	2.8	50	50	53.8	56.7	102	108	90-110	5	10	
Fluoride	mg/L	0.093J	2.5	2.5	2.7	2.9	105	112	90-110	6	10	M1
Sulfate	mg/L	1.1	50	50	52.1	55.1	102	108	90-110	5	10	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92779977

QC Batch: 916790
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92779977006, 92779977007, 92779977008, 92779977009, 92779977010, 92779977011, 92779977012, 92779977013, 92779977014, 92779977015, 92779977016, 92779977017, 92779977018, 92779977019, 92779977020, 92779977021, 92779977022

METHOD BLANK: 4711720 Matrix: Water
Associated Lab Samples: 92779977006, 92779977007, 92779977008, 92779977009, 92779977010, 92779977011, 92779977012, 92779977013, 92779977014, 92779977015, 92779977016, 92779977017, 92779977018, 92779977019, 92779977020, 92779977021, 92779977022

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/17/25 23:38	
Fluoride	mg/L	ND	0.10	0.050	02/17/25 23:38	
Sulfate	mg/L	ND	1.0	0.50	02/17/25 23:38	

LABORATORY CONTROL SAMPLE: 4711721

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	48.3	97	90-110	
Fluoride	mg/L	2.5	2.4	95	90-110	
Sulfate	mg/L	50	45.5	91	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4711722 4711723

Parameter	Units	92779977006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	30.7	50	50	81.7	82.9	102	105	90-110	1	10	
Fluoride	mg/L	0.056J	2.5	2.5	2.4	2.5	95	98	90-110	3	10	
Sulfate	mg/L	98.5	50	50	128	128	60	59	90-110	0	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4711724 4711725

Parameter	Units	92779977016 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	22.0	50	50	72.6	70.0	101	96	90-110	4	10	
Fluoride	mg/L	0.13	2.5	2.5	2.5	2.4	95	90	90-110	5	10	
Sulfate	mg/L	53.6	50	50	88.8	99.3	70	92	90-110	11	10	M1,R1

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92779977

QC Batch: 917348
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92779977023, 92779977024

METHOD BLANK: 4715005 Matrix: Water
Associated Lab Samples: 92779977023, 92779977024

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/19/25 22:03	
Fluoride	mg/L	ND	0.10	0.050	02/19/25 22:03	
Sulfate	mg/L	ND	1.0	0.50	02/19/25 22:03	

LABORATORY CONTROL SAMPLE: 4715006

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.4	99	90-110	
Fluoride	mg/L	2.5	2.4	95	90-110	
Sulfate	mg/L	50	47.2	94	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4715007 4715008

Parameter	Units	92779977023 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	13.5	50	50	64.5	66.0	102	105	90-110	2	10	
Fluoride	mg/L	0.40	2.5	2.5	2.9	2.9	99	101	90-110	2	10	
Sulfate	mg/L	167	50	50	209	210	85	87	90-110	1	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4715009 4715010

Parameter	Units	92779981017 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	3.2	50	50	54.8	56.4	103	106	90-110	3	10	
Fluoride	mg/L	ND	2.5	2.5	2.4	2.5	95	98	90-110	3	10	
Sulfate	mg/L	19.1	50	50	68.0	69.6	98	101	90-110	2	10	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92779977

QC Batch: 921054
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: WC 6020B MET
Laboratory: Pace Analytical Services - West Columbia
Associated Lab Samples: 92779977001, 92779977002, 92779977003, 92779977004, 92779977005, 92779977006, 92779977007, 92779977008, 92779977009, 92779977010, 92779977011, 92779977012

METHOD BLANK: 4732998 Matrix: Water
Associated Lab Samples: 92779977001, 92779977002, 92779977003, 92779977004, 92779977005, 92779977006, 92779977007, 92779977008, 92779977009, 92779977010, 92779977011, 92779977012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00050	03/13/25 08:35	
Arsenic	mg/L	ND	0.0050	0.0012	03/13/25 08:35	
Barium	mg/L	ND	0.0050	0.0012	03/13/25 08:35	
Beryllium	mg/L	ND	0.00050	0.00015	03/13/25 08:35	
Boron	mg/L	ND	0.040	0.0062	03/13/25 08:35	
Cadmium	mg/L	ND	0.00050	0.00012	03/13/25 08:35	
Calcium	mg/L	ND	1.0	0.10	03/13/25 08:35	
Chromium	mg/L	ND	0.0050	0.0012	03/13/25 08:35	
Cobalt	mg/L	ND	0.0050	0.0012	03/13/25 08:35	
Iron	mg/L	ND	0.040	0.012	03/13/25 08:35	
Lead	mg/L	ND	0.0010	0.00025	03/13/25 08:35	
Magnesium	mg/L	ND	0.050	0.010	03/13/25 08:35	
Manganese	mg/L	ND	0.040	0.0012	03/13/25 08:35	
Molybdenum	mg/L	ND	0.010	0.0025	03/13/25 08:35	
Potassium	mg/L	ND	0.50	0.10	03/13/25 08:35	
Selenium	mg/L	ND	0.0050	0.0012	03/13/25 08:35	
Sodium	mg/L	ND	1.0	0.15	03/13/25 08:35	
Thallium	mg/L	ND	0.0010	0.00015	03/13/25 08:35	

LABORATORY CONTROL SAMPLE: 4732999

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.097	97	80-120	
Arsenic	mg/L	0.1	0.10	100	80-120	
Barium	mg/L	0.1	0.10	103	80-120	
Beryllium	mg/L	0.1	0.093	93	80-120	
Boron	mg/L	0.1	0.10	100	80-120	
Cadmium	mg/L	0.1	0.096	96	80-120	
Calcium	mg/L	1	1.1	111	80-120	
Chromium	mg/L	0.1	0.11	108	80-120	
Cobalt	mg/L	0.1	0.11	111	80-120	
Iron	mg/L	1	1.1	110	80-120	
Lead	mg/L	0.1	0.11	111	80-120	
Magnesium	mg/L	1	1.1	108	80-120	
Manganese	mg/L	0.1	0.11	111	80-120	
Molybdenum	mg/L	0.1	0.10	100	80-120	
Potassium	mg/L	1	1.1	109	80-120	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92779977

LABORATORY CONTROL SAMPLE: 4732999

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Selenium	mg/L	0.1	0.091	91	80-120	
Sodium	mg/L	1	1.0	101	80-120	
Thallium	mg/L	0.1	0.11	108	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4733000 4733001

Parameter	Units	92779977007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.10	0.10	102	102	75-125	0	20	
Arsenic	mg/L	ND	0.1	0.1	0.096	0.096	96	96	75-125	0	20	
Barium	mg/L	0.048	0.1	0.1	0.15	0.15	103	103	75-125	0	20	
Beryllium	mg/L	0.00017J	0.1	0.1	0.097	0.097	97	97	75-125	0	20	
Boron	mg/L	1.4	0.1	0.1	1.6	1.5	167	69	75-125	6	20	M1
Cadmium	mg/L	0.00022J	0.1	0.1	0.10	0.10	101	100	75-125	1	20	
Calcium	mg/L	83.3	1	1	87.0	88.6	373	537	75-125	2	20	M1
Chromium	mg/L	ND	0.1	0.1	0.10	0.10	102	101	75-125	1	20	
Cobalt	mg/L	0.0021J	0.1	0.1	0.10	0.10	101	101	75-125	0	20	
Iron	mg/L	0.023J	1	1	1.0	1.0	99	99	75-125	0	20	
Lead	mg/L	ND	0.1	0.1	0.10	0.10	100	101	75-125	1	20	
Magnesium	mg/L	11.7	1	1	12.6	12.7	89	97	75-125	1	20	
Manganese	mg/L	0.39J	0.1	0.1	0.51	0.51	121	117	75-125	1	20	
Molybdenum	mg/L	0.17	0.1	0.1	0.27	0.27	107	106	75-125	0	20	
Potassium	mg/L	5.6	1	1	6.7	6.8	104	119	75-125	2	20	
Selenium	mg/L	ND	0.1	0.1	0.097	0.097	97	96	75-125	1	20	
Sodium	mg/L	8.6	1	1	9.8	9.8	120	120	75-125	0	20	
Thallium	mg/L	ND	0.1	0.1	0.10	0.10	101	101	75-125	0	20	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92779977

QC Batch: 921055
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: WC 6020B MET
Laboratory: Pace Analytical Services - West Columbia
Associated Lab Samples: 92779977013, 92779977014, 92779977015, 92779977016, 92779977017, 92779977018, 92779977019, 92779977020, 92779977021, 92779977022, 92779977023, 92779977024

METHOD BLANK: 4733004 Matrix: Water
Associated Lab Samples: 92779977013, 92779977014, 92779977015, 92779977016, 92779977017, 92779977018, 92779977019, 92779977020, 92779977021, 92779977022, 92779977023, 92779977024

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00050	03/25/25 14:38	
Arsenic	mg/L	ND	0.0050	0.0012	03/25/25 14:38	
Barium	mg/L	ND	0.0050	0.0012	03/25/25 14:38	
Beryllium	mg/L	ND	0.00050	0.00015	03/25/25 14:38	
Boron	mg/L	ND	0.040	0.0062	03/25/25 14:38	
Cadmium	mg/L	ND	0.00050	0.00012	03/25/25 14:38	
Calcium	mg/L	ND	1.0	0.10	03/25/25 14:38	
Chromium	mg/L	ND	0.0050	0.0012	03/25/25 14:38	
Cobalt	mg/L	ND	0.0050	0.0012	03/25/25 14:38	
Iron	mg/L	ND	0.040	0.012	03/25/25 14:38	
Lead	mg/L	ND	0.0010	0.00025	03/25/25 14:38	
Magnesium	mg/L	ND	0.050	0.010	03/25/25 14:38	
Manganese	mg/L	ND	0.040	0.0012	03/25/25 14:38	
Molybdenum	mg/L	ND	0.010	0.0025	03/25/25 14:38	
Potassium	mg/L	ND	0.50	0.10	03/25/25 14:38	
Selenium	mg/L	ND	0.0050	0.0012	03/25/25 14:38	
Sodium	mg/L	ND	1.0	0.15	03/25/25 14:38	
Thallium	mg/L	ND	0.0010	0.00015	03/25/25 14:38	

LABORATORY CONTROL SAMPLE: 4733005

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.097	97	80-120	
Arsenic	mg/L	0.1	0.084	84	80-120	
Barium	mg/L	0.1	0.10	100	80-120	
Beryllium	mg/L	0.1	0.091	91	80-120	
Boron	mg/L	0.1	0.10	103	80-120	
Cadmium	mg/L	0.1	0.097	97	80-120	
Calcium	mg/L	1	1.0	103	80-120	
Chromium	mg/L	0.1	0.10	100	80-120	
Cobalt	mg/L	0.1	0.11	106	80-120	
Iron	mg/L	1	1.0	101	80-120	
Lead	mg/L	0.1	0.10	104	80-120	
Magnesium	mg/L	1	1.0	101	80-120	
Manganese	mg/L	0.1	0.10	101	80-120	
Molybdenum	mg/L	0.1	0.095	95	80-120	
Potassium	mg/L	1	1.0	102	80-120	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92779977

LABORATORY CONTROL SAMPLE: 4733005

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Selenium	mg/L	0.1	0.084	84	80-120	
Sodium	mg/L	1	0.96J	96	80-120	
Thallium	mg/L	0.1	0.11	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4733006 4733007

Parameter	Units	92779981001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.10	0.10	102	101	75-125	1	20	
Arsenic	mg/L	ND	0.1	0.1	0.091	0.091	91	90	75-125	1	20	
Barium	mg/L	0.061	0.1	0.1	0.16	0.16	100	100	75-125	0	20	
Beryllium	mg/L	0.00018J	0.1	0.1	0.097	0.097	97	97	75-125	0	20	
Boron	mg/L	0.023J	0.1	0.1	0.13	0.13	109	108	75-125	1	20	
Cadmium	mg/L	ND	0.1	0.1	0.096	0.096	96	96	75-125	0	20	
Calcium	mg/L	21.5	1	1	21.8	21.7	33	24	75-125	0	20	M1
Chromium	mg/L	ND	0.1	0.1	0.10	0.10	100	100	75-125	0	20	
Cobalt	mg/L	ND	0.1	0.1	0.10	0.10	104	103	75-125	1	20	
Iron	mg/L	0.093	1	1	1.1	1.1	100	99	75-125	1	20	
Lead	mg/L	ND	0.1	0.1	0.099	0.099	99	98	75-125	0	20	
Magnesium	mg/L	4.0	1	1	4.9	4.9	95	93	75-125	0	20	
Manganese	mg/L	0.023J	0.1	0.1	0.12	0.12	99	98	75-125	1	20	
Molybdenum	mg/L	ND	0.1	0.1	0.095	0.094	94	94	75-125	0	20	
Potassium	mg/L	1.1	1	1	2.1	2.1	100	99	75-125	0	20	
Selenium	mg/L	ND	0.1	0.1	0.095	0.093	94	93	75-125	1	20	
Sodium	mg/L	4.9	1	1	5.9	5.8	99	98	75-125	0	20	
Thallium	mg/L	ND	0.1	0.1	0.10	0.10	102	102	75-125	0	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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(704)875-9092

QUALIFIERS

Project: Hammond AP-1
Pace Project No.: 92779977

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

WORKORDER QUALIFIERS

WO: 92779977

[1]

ANALYTE QUALIFIERS

1g	Due to the sample matrix effect on the associated internal standard, a dilution was required. The LOQ has been adjusted accordingly.
2g	This analyte is being reported from a diluted analysis since the original undiluted analysis was bracketed by a CCV that was outside 6020B acceptance limits. The reporting limit has been adjusted accordingly.
ED	Due to the extract's physical characteristics, the analysis was performed at dilution.
J	Analyte detected below the reporting limit, therefore result is an estimate. This qualifier is also used for all TICs.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
R1	RPD value was outside control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Hammond AP-1
Pace Project No.: 92779977

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92779977001	**HAM-HGWC-11**	3015	2470161	EPA 6020B	2470161
92779977002	**HAM-HGWC-12**	3015	2467969	EPA 6020B	2467969
92779977003	**HAM-MW-7**	3015	2467969	EPA 6020B	2467969
92779977004	**HAM-MW-19**	3015	2470161	EPA 6020B	2470161
92779977005	**HAM-MW-25D**	3015	2467969	EPA 6020B	2467969
92779977006	**HAM-HGWC-7**	3015	2467969	EPA 6020B	2467969
92779977007	**HAM-HGWC-8**	3015	2470161	EPA 6020B	2470161
92779977008	**HAM-HGWC-9**	3015	2470161	EPA 6020B	2470161
92779977009	**HAM-HGWC-10**	3015	2467969	EPA 6020B	2467969
92779977010	**HAM-MW-5**	3015	2470161	EPA 6020B	2470161
92779977011	**HAM-MW-6**	3015	2467969	EPA 6020B	2467969
92779977012	**HAM-MW-20**	3015	2470161	EPA 6020B	2470161
92779977013	**HAM-MW-24D**	3015	2467969	EPA 6020B	2467969
92779977014	**HAM-MW-26D**	3015	2467969	EPA 6020B	2467969
92779977015	**HAM-MW-27D**	3015	2467969	EPA 6020B	2467969
92779977016	**HAM-MW-28D**	3015	2467969	EPA 6020B	2467969
92779977017	**HAM-MW-29**	3015	2470161	EPA 6020B	2470161
92779977018	**HAM-AP1-EB-01**	3015	2467969	EPA 6020B	2467969
92779977019	**HAM-AP1-FB-01**	3015	2467969	EPA 6020B	2467969
92779977020	**HAM-AP1-EB-02**	3015	2470161	EPA 6020B	2470161
92779977021	**HAM-AP1-FB-02**	3015	2467969	EPA 6020B	2467969
92779977022	**HAM-AP1-FD-02**	3015	2467969	EPA 6020B	2467969
92779977023	**HAM-HGWC-13**	3015	2467969	EPA 6020B	2467969
92779977024	**HAM-AP1-FD-01**	3015	2467969	EPA 6020B	2467969
92779977001	**HAM-HGWC-11**	EPA 7470A	916870	EPA 7470A	917066
92779977002	**HAM-HGWC-12**	EPA 7470A	916870	EPA 7470A	917066
92779977003	**HAM-MW-7**	EPA 7470A	916870	EPA 7470A	917066
92779977004	**HAM-MW-19**	EPA 7470A	916870	EPA 7470A	917066
92779977005	**HAM-MW-25D**	EPA 7470A	916870	EPA 7470A	917066
92779977006	**HAM-HGWC-7**	EPA 7470A	916942	EPA 7470A	917067
92779977007	**HAM-HGWC-8**	EPA 7470A	916942	EPA 7470A	917067
92779977008	**HAM-HGWC-9**	EPA 7470A	916942	EPA 7470A	917067
92779977009	**HAM-HGWC-10**	EPA 7470A	916942	EPA 7470A	917067
92779977010	**HAM-MW-5**	EPA 7470A	916942	EPA 7470A	917067
92779977011	**HAM-MW-6**	EPA 7470A	916942	EPA 7470A	917067
92779977012	**HAM-MW-20**	EPA 7470A	916942	EPA 7470A	917067
92779977013	**HAM-MW-24D**	EPA 7470A	916942	EPA 7470A	917067
92779977014	**HAM-MW-26D**	EPA 7470A	916942	EPA 7470A	917067
92779977015	**HAM-MW-27D**	EPA 7470A	916942	EPA 7470A	917067
92779977016	**HAM-MW-28D**	EPA 7470A	916942	EPA 7470A	917067
92779977017	**HAM-MW-29**	EPA 7470A	916942	EPA 7470A	917067

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Hammond AP-1
Pace Project No.: 92779977

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92779977018	**HAM-AP1-EB-01**	EPA 7470A	916942	EPA 7470A	917067
92779977019	**HAM-AP1-FB-01**	EPA 7470A	916942	EPA 7470A	917067
92779977020	**HAM-AP1-EB-02**	EPA 7470A	917240	EPA 7470A	917352
92779977021	**HAM-AP1-FB-02**	EPA 7470A	917240	EPA 7470A	917352
92779977022	**HAM-AP1-FD-02**	EPA 7470A	917240	EPA 7470A	917352
92779977023	**HAM-HGWC-13**	EPA 7470A	917874	EPA 7470A	918004
92779977024	**HAM-AP1-FD-01**	EPA 7470A	917874	EPA 7470A	918004
92779977001	**HAM-HGWC-11**	SM 2320B-2011	917923		
92779977002	**HAM-HGWC-12**	SM 2320B-2011	917923		
92779977003	**HAM-MW-7**	SM 2320B-2011	917923		
92779977004	**HAM-MW-19**	SM 2320B-2011	917923		
92779977005	**HAM-MW-25D**	SM 2320B-2011	917923		
92779977006	**HAM-HGWC-7**	SM 2320B-2011	918376		
92779977007	**HAM-HGWC-8**	SM 2320B-2011	918325		
92779977008	**HAM-HGWC-9**	SM 2320B-2011	918325		
92779977009	**HAM-HGWC-10**	SM 2320B-2011	918325		
92779977010	**HAM-MW-5**	SM 2320B-2011	918325		
92779977011	**HAM-MW-6**	SM 2320B-2011	918325		
92779977012	**HAM-MW-20**	SM 2320B-2011	918325		
92779977013	**HAM-MW-24D**	SM 2320B-2011	918376		
92779977014	**HAM-MW-26D**	SM 2320B-2011	918325		
92779977015	**HAM-MW-27D**	SM 2320B-2011	918325		
92779977016	**HAM-MW-28D**	SM 2320B-2011	918376		
92779977017	**HAM-MW-29**	SM 2320B-2011	918376		
92779977023	**HAM-HGWC-13**	SM 2320B-2011	918580		
92779977001	**HAM-HGWC-11**	SM 2540C-2015	917325		
92779977002	**HAM-HGWC-12**	SM 2540C-2015	917325		
92779977003	**HAM-MW-7**	SM 2540C-2015	917325		
92779977004	**HAM-MW-19**	SM 2540C-2015	917325		
92779977005	**HAM-MW-25D**	SM 2540C-2015	917325		
92779977006	**HAM-HGWC-7**	SM 2540C-2015	917626		
92779977007	**HAM-HGWC-8**	SM 2540C-2015	917626		
92779977008	**HAM-HGWC-9**	SM 2540C-2015	917626		
92779977009	**HAM-HGWC-10**	SM 2540C-2015	917625		
92779977010	**HAM-MW-5**	SM 2540C-2015	917625		
92779977011	**HAM-MW-6**	SM 2540C-2015	917625		
92779977012	**HAM-MW-20**	SM 2540C-2015	917626		
92779977013	**HAM-MW-24D**	SM 2540C-2015	917627		
92779977014	**HAM-MW-26D**	SM 2540C-2015	917625		
92779977015	**HAM-MW-27D**	SM 2540C-2015	917626		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Hammond AP-1
Pace Project No.: 92779977

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92779977016	**HAM-MW-28D**	SM 2540C-2015	917627		
92779977017	**HAM-MW-29**	SM 2540C-2015	917627		
92779977018	**HAM-AP1-EB-01**	SM 2540C-2015	917625		
92779977019	**HAM-AP1-FB-01**	SM 2540C-2015	917625		
92779977020	**HAM-AP1-EB-02**	SM 2540C-2015	917627		
92779977021	**HAM-AP1-FB-02**	SM 2540C-2015	917627		
92779977022	**HAM-AP1-FD-02**	SM 2540C-2015	917625		
92779977023	**HAM-HGWC-13**	SM 2540C-2015	917869		
92779977024	**HAM-AP1-FD-01**	SM 2540C-2015	917869		
92779977001	**HAM-HGWC-11**	SM 4500-S2D-2011	916812		
92779977002	**HAM-HGWC-12**	SM 4500-S2D-2011	916812		
92779977003	**HAM-MW-7**	SM 4500-S2D-2011	916812		
92779977004	**HAM-MW-19**	SM 4500-S2D-2011	916812		
92779977005	**HAM-MW-25D**	SM 4500-S2D-2011	916812		
92779977006	**HAM-HGWC-7**	SM 4500-S2D-2011	916814		
92779977007	**HAM-HGWC-8**	SM 4500-S2D-2011	916813		
92779977008	**HAM-HGWC-9**	SM 4500-S2D-2011	916813		
92779977009	**HAM-HGWC-10**	SM 4500-S2D-2011	916813		
92779977010	**HAM-MW-5**	SM 4500-S2D-2011	916813		
92779977011	**HAM-MW-6**	SM 4500-S2D-2011	916813		
92779977012	**HAM-MW-20**	SM 4500-S2D-2011	916813		
92779977013	**HAM-MW-24D**	SM 4500-S2D-2011	916814		
92779977014	**HAM-MW-26D**	SM 4500-S2D-2011	916813		
92779977015	**HAM-MW-27D**	SM 4500-S2D-2011	916813		
92779977016	**HAM-MW-28D**	SM 4500-S2D-2011	916814		
92779977017	**HAM-MW-29**	SM 4500-S2D-2011	916814		
92779977023	**HAM-HGWC-13**	SM 4500-S2D-2011	917635		
92779977001	**HAM-HGWC-11**	EPA 300.0 Rev 2.1 1993	916738		
92779977002	**HAM-HGWC-12**	EPA 300.0 Rev 2.1 1993	916738		
92779977003	**HAM-MW-7**	EPA 300.0 Rev 2.1 1993	916738		
92779977004	**HAM-MW-19**	EPA 300.0 Rev 2.1 1993	916738		
92779977005	**HAM-MW-25D**	EPA 300.0 Rev 2.1 1993	916738		
92779977006	**HAM-HGWC-7**	EPA 300.0 Rev 2.1 1993	916790		
92779977007	**HAM-HGWC-8**	EPA 300.0 Rev 2.1 1993	916790		
92779977008	**HAM-HGWC-9**	EPA 300.0 Rev 2.1 1993	916790		
92779977009	**HAM-HGWC-10**	EPA 300.0 Rev 2.1 1993	916790		
92779977010	**HAM-MW-5**	EPA 300.0 Rev 2.1 1993	916790		
92779977011	**HAM-MW-6**	EPA 300.0 Rev 2.1 1993	916790		
92779977012	**HAM-MW-20**	EPA 300.0 Rev 2.1 1993	916790		
92779977013	**HAM-MW-24D**	EPA 300.0 Rev 2.1 1993	916790		
92779977014	**HAM-MW-26D**	EPA 300.0 Rev 2.1 1993	916790		
92779977015	**HAM-MW-27D**	EPA 300.0 Rev 2.1 1993	916790		

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Pace Project No.: 92779977

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92779977016	**HAM-MW-28D**	EPA 300.0 Rev 2.1 1993	916790		
92779977017	**HAM-MW-29**	EPA 300.0 Rev 2.1 1993	916790		
92779977018	**HAM-AP1-EB-01**	EPA 300.0 Rev 2.1 1993	916790		
92779977019	**HAM-AP1-FB-01**	EPA 300.0 Rev 2.1 1993	916790		
92779977020	**HAM-AP1-EB-02**	EPA 300.0 Rev 2.1 1993	916790		
92779977021	**HAM-AP1-FB-02**	EPA 300.0 Rev 2.1 1993	916790		
92779977022	**HAM-AP1-FD-02**	EPA 300.0 Rev 2.1 1993	916790		
92779977023	**HAM-HGWC-13**	EPA 300.0 Rev 2.1 1993	917348		
92779977024	**HAM-AP1-FD-01**	EPA 300.0 Rev 2.1 1993	917348		
92779977001	**HAM-HGWC-11**	EPA 3005A	921054	EPA 6020B	921709
92779977002	**HAM-HGWC-12**	EPA 3005A	921054	EPA 6020B	921709
92779977003	**HAM-MW-7**	EPA 3005A	921054	EPA 6020B	921709
92779977004	**HAM-MW-19**	EPA 3005A	921054	EPA 6020B	921709
92779977005	**HAM-MW-25D**	EPA 3005A	921054	EPA 6020B	921709
92779977006	**HAM-HGWC-7**	EPA 3005A	921054	EPA 6020B	921709
92779977007	**HAM-HGWC-8**	EPA 3005A	921054	EPA 6020B	921709
92779977008	**HAM-HGWC-9**	EPA 3005A	921054	EPA 6020B	921709
92779977009	**HAM-HGWC-10**	EPA 3005A	921054	EPA 6020B	921709
92779977010	**HAM-MW-5**	EPA 3005A	921054	EPA 6020B	921709
92779977011	**HAM-MW-6**	EPA 3005A	921054	EPA 6020B	921709
92779977012	**HAM-MW-20**	EPA 3005A	921054	EPA 6020B	921709
92779977013	**HAM-MW-24D**	EPA 3005A	921055	EPA 6020B	924771
92779977014	**HAM-MW-26D**	EPA 3005A	921055	EPA 6020B	924771
92779977015	**HAM-MW-27D**	EPA 3005A	921055	EPA 6020B	924771
92779977016	**HAM-MW-28D**	EPA 3005A	921055	EPA 6020B	924771
92779977017	**HAM-MW-29**	EPA 3005A	921055	EPA 6020B	924771
92779977018	**HAM-AP1-EB-01**	EPA 3005A	921055	EPA 6020B	924771
92779977019	**HAM-AP1-FB-01**	EPA 3005A	921055	EPA 6020B	924771
92779977020	**HAM-AP1-EB-02**	EPA 3005A	921055	EPA 6020B	924771
92779977021	**HAM-AP1-FB-02**	EPA 3005A	921055	EPA 6020B	924771
92779977022	**HAM-AP1-FD-02**	EPA 3005A	921055	EPA 6020B	924771
92779977023	**HAM-HGWC-13**	EPA 3005A	921055	EPA 6020B	924771
92779977024	**HAM-AP1-FD-01**	EPA 3005A	921055	EPA 6020B	924771

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DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

aboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mec

Sample Condition Upon Receipt

WO# : 92779977

92779977

Client Name: G A Power

Project #:

Courier: ☐ Commercial ☐ Fed Ex ☑ Pace ☐ UPS ☐ USPS ☐ Other: ☐ Client

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No ☑ N/A

Date/Initials Person Examining Contents: 2/14/25 LH

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 083

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 1.4 Correction Factor: Add/Subtract (°C) +0.1

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 1.5

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix:	W			
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

MMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

NT NOTIFICATION/RESOLUTION

'son contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

Pace ANALYTICAL SERVICES

DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

WO#: 92779977

PM: BV Due Date: 03/03/25

CLIENT: 92- GP-HAM

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg
**Bottom half of box is to list number of bottles
***Check all unpreserved Nitrates for chlorine

Project #

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Client_____ Profile/EZ (Circle one)_____ Notes_____

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)		BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG9A-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9Y-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
CC																														
1		2	1		2		2	1																						
2		2	1		2		2	1																						
3		2	1		2		2	1																						
4		2	1		2		2	1																						
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pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers.

Jaltrax ID: 69614

WO# : 92779977

PM: BV **Due Date: 03/03/25**

CLIENT: 92- GP-HAM

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Geosyntec Contacts	Company Name:	
				Address:	
Email To:	SCS Contacts	Purchase Order No.:		Pace Quote Reference:	
Phone:	Fax:	Project Name:	Hammond AP-1	Pace Project Manager:	Bonnie Vang
Requested Due Date/TAT:	10 Day	Project Number:		Pace Profile #:	10839

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER

UST RCRA ✓ OTHER CCR

Site Location STATE: GA

Requested Analysis Filtered (Y/N)

ITEM #	Section D Required Client Information: SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX / CODE: DRINKING WATER DW; WATER WT; WASTE WATER WW; PRODUCT P; SOIL/SOLID SL; OIL OL; WIPE WP; AIR AR; OTHER OT; TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED: COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test → Y/N	Chloride, Fluoride, Sulfate	Full App. III and IV metals	RAD 226/228	TDS	Major Ions (Profile 10839-2)								Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 92779977
1	HAM-HGWC-11		WG	G	2/13/2025	1532			18	8	3		4				1		N	X	X	X	X	X									N	001
2	HAM-HGWC-12		WG	G	2/13/2025	1326			19	8	3		4				1		N	X	X	X	X	X									N	002
3	HAM-MW-7		WG	G	2/13/2025	1152			17	8	3		4				1		N	X	X	X	X	X									N	003
4	HAM-MW-19		WG	G	2/13/2025	1038			18	8	3		4				1		N	X	X	X	X	X									N	004
5	HAM-MW-25D		WG	G	2/13/2025	1426			19	8	3		4				1		N	X	X	X	X	X									N	005
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12																																	

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Task Code: HAM-CCR-ASSMT-2025S1	Zain Webb/Geosyntec	2-14-25	1340	Ryan W. Hines / Pace	2/14/25	1340	
				Cassandra Jones	2/14/25	1610	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Amanda Tomlinson, Zain Webb, Thomas Kessler / Geosyntec Consultants

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 2-13-25

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

aboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #:

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace ☐ Other:

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No ☑ N/A

Date/Initials Person Examining Contents: 2/17/25 LDS

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☐ N/A

Thermometer: ☑ IR Gun ID: 083

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 1.1 Correction Factor: Add/Subtract (°C) +0.1

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 1.2

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: W	☑ Yes	☐ No	☐ N/A	9.
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

OMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

ENT NOTIFICATION/RESOLUTION

erson contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg
**Bottom half of box is to list number of bottles
***Check all unpreserved Nitrates for chlorine

Project #

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Client_____ Profile/EZ (Circle one)_____ Notes_____

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP1N	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
CC																														
1		2	1		2		2	1																						
2		2	1		2		2	1																						
3		2	1		2		2	1																						
4		2	1		2		2	1																						
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11		2	1		2		2	1																						
12		2	1		2		2	1																						

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers.

DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg
**Bottom half of box is to list number of bottles
***Check all unpreserved Nitrates for chlorine

Project #

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Client_____ Profile/EZ (Circle one)_____ Notes_____

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BPIN	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG9H-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
CC																														
1		1	1		2		2																							
2		1	1		2		2																							
3		1	1		2		2																							
4		1	1		2		2																							
5		1	1		2		2																							
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pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers.

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 2

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: GA Power	Report To: SCS Contacts	Attention: Southern Co.
Address: Atlanta, GA	Copy To: Geosyntec Contacts	Company Name:
		Address:
Email To: SCS Contacts	Purchase Order No.:	Pace Quote Reference:
Phone: Fax:	Project Name: Hammond AP-1	Pace Project Manager: Bonnie Vang
Requested Due Date/TAT: 10 Day	Project Number:	Pace Profile #: 10839

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER

UST RCRA ✓ OTHER CCR

Site Location STATE: GA

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	Chloride, Fluoride, Sulfate	Full App II and IV metals	RAD 226/228	TDS	Major Ions (Profile 10839-2)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 92779977
																	Requested Analysis Filtered (Y/N)	N	N	N	N	N			
1	HAM-HGWC-7	WG	G	2/16/2025	1154			17	8	3		4		1				X	X	X	X	X	N	006
2	HAM-HGWC-8	WG	G	2/15/2025	1622			17	8	3		4		1				X	X	X	X	X	N	007
3	HAM-HGWC-9	WG	G	2/15/2025	0958			16	8	3		4		1				X	X	X	X	X	N	008
4	HAM-HGWC-10	WG	G	2/14/2025	1218			15	8	3		4		1				X	X	X	X	X	N	009
5	HAM-MW-5	WG	G	2/14/2025	1514			19	8	3		4		1				X	X	X	X	X	N	010
6	HAM-MW-6	WG	G	2/14/2025	1324			20	8	3		4		1				X	X	X	X	X	N	011
7	HAM-MW-20	WG	G	2/15/2025	1111			17	8	3		4		1				X	X	X	X	X	N	012
8	HAM-MW-24D	WG	G	2/16/2025	1536			17	8	3		4		1				X	X	X	X	X	N	013
9	HAM-MW-26D	WG	G	2/14/2025	1534	ART 2/16/2025		17	8	3		4		1				X	X	X	X	X	N	014
10	HAM-MW-27D	WG	G	2/15/2025	1445			17	8	3		4		1				X	X	X	X	X	N	015
11	HAM-MW-28D	WG	G	2/16/2025	1018			17	8	3		4		1				X	X	X	X	X	N	016
12	HAM-MW-29	WG	G	2/16/2025	0910			15	8	3		4		1				X	X	X	X	X	N	017

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Task Code: HAM-CCR-ASSMT-2025S1	[illegible] / Geosyntec	2-17-25	1230	Ryan Williams / Pace	2/17/2025	1230	
	Ryan Williams / Pace	2/17/2025	1445	[signature]	2/17/25	1445	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Amanda Tomlinson, Zain Webb, Thomas Kessler / Geosyntec Consultants, Inc.

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 2-17-25

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

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Page: 2 of 2

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Address: Atlanta, GA	Copy To: Geosyntec Contacts	Company Name:
		Address:
Email To: SCS Contacts	Purchase Order No.:	Pace Quote Reference:
Phone: Fax:	Project Name: Hammond AP-1	Pace Project Manager: Bonnie Vang
Requested Due Date/TAT: 10 Day	Project Number:	Pace Profile #: 10839

REGULATORY AGENCY

NPDES | GROUND WATER | DRINKING WATER

UST | RCRA | ✓ OTHER CCR

Site Location STATE: GA

Requested Analysis Filtered (Y/N)

ITEM #	Section D Required Client Information: SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED: COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	Chloride, Fluoride, Sulfate	Full Anp. III and IV metals	RAD 226/228	TDS	Major Ions (Profile 10839-2)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
	Valid Matrix Codes: MATRIX / CODE — DRINKING WATER DW; WATER WT; WASTE WATER WW; PRODUCT P; SOIL/SOLID SL; OIL OL; WIPE WP; AIR AR; OTHER OT; TISSUE TS																	Y/N	N	N	N	N				
1	HAM-AP-1-EB-01	WQ	G	2/14/2025	1630			17	6	2		4							X	X	X	X			N	018
2	HAM-AP-1-FB-01	WQ	G	2/14/2025	1625			17	6	2		4							X	X	X	X			N	019
3	HAM-AP-1-EB-02	WQ	G	2/16/2025	1615			17	6	2		4							X	X	X	X			N	020
4	HAM-AP-1-FB-02	WQ	G	2/16/2025	1605	ART 2/16/2025		17	6	2		4							X	X	X	X			N	021
5	HAM-AP-1-FD-02	WG	G	2/14/2025	0000			17	6	2		4							X	X	X	X			N	022
6																										
7																										
8	ART 2/16/2025																									
9																										
10																										
11																										
12																										

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Task Code: HAM-CCR-ASSMT-2025S1	Zain Webb/Geosyntec	2-17-25	1230	Ryan Williams / Pace	2/17/2025	1230	
	Ryan Williams / Pace	2/17/2025	1445	Carla Hunter	2/17/25	1445	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Amanda Tomlinson, Zain Webb, Thomas Kessler / Geosyntec Consultants, Inc.

SIGNATURE of SAMPLER: Zain Webb (AT) (TK) DATE Signed (MM/DD/YY): 2-17-25

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Pace

DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

aboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #:

Courier: ☐ Commercial ☐ Fed Ex ☑ Pace ☐ UPS ☐ USPS ☐ Other: ☐ Client

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No ☑ N/A

Date/Initials Person Examining Contents: 2/19/25 DIT

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 230

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 2.1 Correction Factor: Add/Subtract (°C) +0.1

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 2.2

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: W				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

MMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

NT NOTIFICATION/RESOLUTION

rson contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

altrax ID: 69614

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg
**Bottom half of box is to list number of bottles
***Check all unpreserved Nitrates for chlorine

Project #

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Client_____ Profile/EZ (Circle one)_____ Notes_____

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP1N	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
CC																														
1		2	1		2 ✓		2 ✓	1 ✓																						
2		1	1		2 ✓		2 ✓																							
3																														
4																														
5																														
6																														
7																														
8																														
9																														
10																														
11																														
12																														

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers.

Pace Analytical
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: GA Power	Report To: SCS Contacts	Attention: Southern Co
Address: Atlanta, GA	Copy To: Geosyntec Contacts	Company Name:
		Address:
Email To: SCS Contacts	Purchase Order No:	Pace Quote Reference:
Phone: Fax:	Project Name: Hammond AP-1	Pace Project Manager: Bonnie Vang
Requested Due Date/TAT: 10 Day	Project Number:	Pace Profile #: 10839

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☑ OTHER CCR

Site Location STATE: GA

ITEM #	Section D Required Client Information: SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED: COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	Requested Analysis Filtered (Y/N): Chloride, Fluoride, Sulfate	Full App. III and IV metals	RAD 226/228	TDS	Major Ions (Profile 10839-2)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	HAM-HGWC-13	WG	G	2/17/2025	1320	ART 2/18/2025		18	8	3		4					1		X	X	X	X	X	N	92779977
2	HAM-AP1-FD-01	WG	G	2/17/2025	0000			18	6	2		4					1		X	X	X	X		N	Last sample 024
3																									
4																									
5																									
6	ART 2/18/2025																								
7																									
8																									
9																									
10																									
11																									
12																									

Valid Matrix Codes: DRINKING WATER DW; WATER WT; WASTE WATER WW; PRODUCT P; SOIL/SOLID SL; OIL OL; WIPE WP; AIR AR; OTHER OT; TISSUE TS

023 024 023 024 023 024 023 024 023 024 023 024

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Template: HAM-CCR-ASSMT-2025S1	[signature] Geosyntec	2/19/2025	1220	Ryan William / Pace	2/19/2025	1220	
	Ryan William / Pace	2/19/2025	1525	[signature]	2/19/25	1525	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Amanda Tomlinson / Geosyntec Consultants, Inc.

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 2/19/2025

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-Feb-2007

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

March 18, 2025

Kristen Jurinko
Southern Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, GA 30308

RE: Project: Hammond AP-1- RAD
Pace Project No.: 92779979

Dear Kristen Jurinko:

Enclosed are the analytical results for sample(s) received by the laboratory between February 14, 2025 and February 19, 2025. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Greensburg

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Bonnie Vang
bonnie.vang@pacelabs.com
704-977-0968
Project Manager

Enclosures

cc: Kip Gray, Geosyntec
Christine Hug, Geosyntec Consultants, Inc.
Thomas Kessler, Geosyntec Consultants
Whitney Law, Geosyntec Consultants
Laura Midkiff, Southern Company
Caroline Nelson, Geosyntec Consultants, Inc
Jamie Newsome, Geosyntec Consultants
Zain Webb, Geosyntec Consultants

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CERTIFICATIONS

Project: Hammond AP-1- RAD
Pace Project No.: 92779979

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
ANABISO/IEC 17025:2017 Rad Cert#: L24170
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 2950
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA010
Louisiana DEQ/TNI Certification #: 04086
Maine Certification #: 2023021
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991
Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572023-03
New Hampshire/TNI Certification #: 297622
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-015
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: TN02867
Texas/TNI Certification #: T104704188-22-18
Utah/TNI Certification #: PA014572223-14
USDA Soil Permit #: 525-23-67-77263
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad

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SAMPLE SUMMARY

Project: Hammond AP-1- RAD
Pace Project No.: 92779979

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92779979001	**HAM-HGWC-11**	Water	02/13/25 15:32	02/14/25 16:10
92779979002	**HAM-HGWC-12**	Water	02/13/25 13:26	02/14/25 16:10
92779979003	**HAM-MW-7**	Water	02/13/25 11:52	02/14/25 16:10
92779979004	**HAM-MW-19**	Water	02/13/25 10:38	02/14/25 16:10
92779979005	**HAM-MW-25D**	Water	02/13/25 14:26	02/14/25 16:10
92779979006	**HAM-HGWC-7**	Water	02/16/25 11:54	02/17/25 14:45
92779979007	**HAM-HGWC-8**	Water	02/15/25 16:22	02/17/25 14:45
92779979008	**HAM-HGWC-9**	Water	02/15/25 09:58	02/17/25 14:45
92779979009	**HAM-HGWC-10**	Water	02/14/25 12:18	02/17/25 14:45
92779979010	**HAM-MW-5**	Water	02/14/25 15:14	02/17/25 14:45
92779979011	**HAM-MW-6**	Water	02/14/25 13:24	02/17/25 14:45
92779979012	**HAM-MW-20**	Water	02/15/25 11:11	02/17/25 14:45
92779979013	**HAM-MW-24D**	Water	02/16/25 15:36	02/17/25 14:45
92779979014	**HAM-MW-26D**	Water	02/14/25 16:34	02/17/25 14:45
92779979015	**HAM-MW-27D**	Water	02/15/25 14:45	02/17/25 14:45
92779979016	**HAM-MW-28D**	Water	02/16/25 10:18	02/17/25 14:45
92779979017	**HAM-MW-29**	Water	02/16/25 09:10	02/17/25 14:45
92779979018	**HAM-AP1-EB-01**	Water	02/14/25 16:30	02/17/25 14:45
92779979019	**HAM-AP1-FB-01**	Water	02/14/25 16:25	02/17/25 14:45
92779979020	**HAM-AP1-EB-02**	Water	02/16/25 16:15	02/17/25 14:45
92779979021	**HAM-AP1-FB-02**	Water	02/16/25 16:05	02/17/25 14:45
92779979022	**HAM-AP1-FD-02**	Water	02/14/25 00:00	02/17/25 14:45
92779979023	**HAM-HGWC-13**	Water	02/17/25 13:20	02/19/25 15:25
92779979024	**HAM-AP1-FD-01**	Water	02/17/25 00:00	02/19/25 15:25

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SAMPLE ANALYTE COUNT

Project: Hammond AP-1- RAD
Pace Project No.: 92779979

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92779979001	**HAM-HGWC-11**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92779979002	**HAM-HGWC-12**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92779979003	**HAM-MW-7**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92779979004	**HAM-MW-19**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92779979005	**HAM-MW-25D**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92779979006	**HAM-HGWC-7**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92779979007	**HAM-HGWC-8**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92779979008	**HAM-HGWC-9**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92779979009	**HAM-HGWC-10**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92779979010	**HAM-MW-5**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92779979011	**HAM-MW-6**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92779979012	**HAM-MW-20**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92779979013	**HAM-MW-24D**	EPA 9315	SLC	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: Hammond AP-1- RAD
Pace Project No.: 92779979

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92779979014	**HAM-MW-26D**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92779979015	**HAM-MW-27D**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92779979016	**HAM-MW-28D**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92779979017	**HAM-MW-29**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92779979018	**HAM-AP1-EB-01**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92779979019	**HAM-AP1-FB-01**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92779979020	**HAM-AP1-EB-02**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92779979021	**HAM-AP1-FB-02**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92779979022	**HAM-AP1-FD-02**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92779979023	**HAM-HGWC-13**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92779979024	**HAM-AP1-FD-01**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SUMMARY OF DETECTION

Project: Hammond AP-1- RAD
Pace Project No.: 92779979

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92779979001	**HAM-HGWC-11**					
EPA 9315	Radium-226	0.139U ± 0.281 (0.649) C:82% T:NA	pCi/L		03/10/25 10:09	
EPA 9320	Radium-228	0.352U ± 0.370 (0.767) C:79% T:79%	pCi/L		03/07/25 14:30	
Total Radium Calculation	Total Radium	0.491U ± 0.651 (1.42)	pCi/L		03/10/25 15:52	
92779979002	**HAM-HGWC-12**					
EPA 9315	Radium-226	0.187U ± 0.184 (0.369) C:69% T:NA	pCi/L		03/14/25 13:10	
EPA 9320	Radium-228	0.538U ± 0.449 (0.905) C:75% T:84%	pCi/L		03/10/25 15:04	
Total Radium Calculation	Total Radium	0.725U ± 0.633 (1.27)	pCi/L		03/18/25 11:22	
92779979003	**HAM-MW-7**					
EPA 9315	Radium-226	0.0397U ± 0.123 (0.301) C:73% T:NA	pCi/L		03/14/25 13:10	
EPA 9320	Radium-228	0.553U ± 0.401 (0.784) C:76% T:90%	pCi/L		03/10/25 15:04	
Total Radium Calculation	Total Radium	0.593U ± 0.524 (1.09)	pCi/L		03/18/25 11:22	
92779979004	**HAM-MW-19**					
EPA 9315	Radium-226	0.241U ± 0.173 (0.296) C:77% T:NA	pCi/L		03/14/25 13:10	
EPA 9320	Radium-228	0.468U ± 0.419 (0.851) C:73% T:84%	pCi/L		03/10/25 15:05	
Total Radium Calculation	Total Radium	0.709U ± 0.592 (1.15)	pCi/L		03/18/25 11:22	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SUMMARY OF DETECTION

Project: Hammond AP-1- RAD
Pace Project No.: 92779979

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92779979005	**HAM-MW-25D**					
EPA 9315	Radium-226	0.767 ± 0.275 (0.310) C:81% T:NA	pCi/L		03/14/25 13:10	
EPA 9320	Radium-228	0.446U ± 0.380 (0.758) C:74% T:90%	pCi/L		03/10/25 15:04	
Total Radium Calculation	Total Radium	1.21 ± 0.655 (1.07)	pCi/L		03/18/25 11:22	
92779979006	**HAM-HGWC-7**					
EPA 9315	Radium-226	0.217U ± 0.173 (0.298) C:61% T:NA	pCi/L		03/14/25 13:10	
EPA 9320	Radium-228	0.132U ± 0.349 (0.782) C:74% T:87%	pCi/L		03/10/25 15:04	
Total Radium Calculation	Total Radium	0.349U ± 0.522 (1.08)	pCi/L		03/18/25 11:22	
92779979007	**HAM-HGWC-8**					
EPA 9315	Radium-226	0.0795U ± 0.131 (0.291) C:76% T:NA	pCi/L		03/14/25 13:13	
EPA 9320	Radium-228	0.283U ± 0.420 (0.906) C:74% T:89%	pCi/L		03/10/25 15:04	
Total Radium Calculation	Total Radium	0.363U ± 0.551 (1.20)	pCi/L		03/18/25 11:22	
92779979008	**HAM-HGWC-9**					
EPA 9315	Radium-226	0.183U ± 0.143 (0.241) C:78% T:NA	pCi/L		03/14/25 13:13	
EPA 9320	Radium-228	0.141U ± 0.448 (1.01) C:74% T:82%	pCi/L		03/10/25 15:04	
Total Radium Calculation	Total Radium	0.324U ± 0.591 (1.25)	pCi/L		03/18/25 11:22	

REPORT OF LABORATORY ANALYSIS

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SUMMARY OF DETECTION

Project: Hammond AP-1- RAD
Pace Project No.: 92779979

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92779979009	**HAM-HGWC-10**					
EPA 9315	Radium-226	0.223U ± 0.156 (0.266) C:85% T:NA	pCi/L		03/14/25 13:13	
EPA 9320	Radium-228	0.149U ± 0.361 (0.805) C:72% T:88%	pCi/L		03/10/25 15:05	
Total Radium Calculation	Total Radium	0.372U ± 0.517 (1.07)	pCi/L		03/18/25 11:22	
92779979010	**HAM-MW-5**					
EPA 9315	Radium-226	0.183U ± 0.150 (0.271) C:71% T:NA	pCi/L		03/14/25 13:13	
EPA 9320	Radium-228	0.334U ± 0.386 (0.810) C:74% T:84%	pCi/L		03/10/25 15:05	
Total Radium Calculation	Total Radium	0.517U ± 0.536 (1.08)	pCi/L		03/18/25 11:22	
92779979011	**HAM-MW-6**					
EPA 9315	Radium-226	0.333U ± 0.204 (0.335) C:73% T:NA	pCi/L		03/14/25 13:15	
EPA 9320	Radium-228	0.602U ± 0.404 (0.767) C:75% T:87%	pCi/L		03/10/25 15:05	
Total Radium Calculation	Total Radium	0.935U ± 0.608 (1.10)	pCi/L		03/18/25 11:22	
92779979012	**HAM-MW-20**					
EPA 9315	Radium-226	0.322 ± 0.193 (0.285) C:73% T:NA	pCi/L		03/14/25 13:17	
EPA 9320	Radium-228	0.892U ± 0.533 (0.979) C:65% T:81%	pCi/L		03/10/25 15:05	
Total Radium Calculation	Total Radium	1.21U ± 0.726 (1.26)	pCi/L		03/18/25 11:22	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Hammond AP-1- RAD
Pace Project No.: 92779979

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92779979013	**HAM-MW-24D**					
EPA 9315	Radium-226	0.230U ± 0.201 (0.378) C:58% T:NA	pCi/L		03/14/25 13:17	
EPA 9320	Radium-228	0.0409U ± 0.396 (0.912) C:71% T:87%	pCi/L		03/10/25 15:05	
Total Radium Calculation	Total Radium	0.271U ± 0.597 (1.29)	pCi/L		03/18/25 11:22	
92779979014	**HAM-MW-26D**					
EPA 9315	Radium-226	0.155U ± 0.183 (0.385) C:66% T:NA	pCi/L		03/14/25 15:04	
EPA 9320	Radium-228	0.139U ± 0.370 (0.831) C:69% T:86%	pCi/L		03/10/25 15:05	
Total Radium Calculation	Total Radium	0.294U ± 0.553 (1.22)	pCi/L		03/18/25 11:22	
92779979015	**HAM-MW-27D**					
EPA 9315	Radium-226	0.364 ± 0.200 (0.298) C:74% T:NA	pCi/L		03/14/25 15:04	
EPA 9320	Radium-228	0.302U ± 0.382 (0.808) C:69% T:87%	pCi/L		03/10/25 15:06	
Total Radium Calculation	Total Radium	0.666U ± 0.582 (1.11)	pCi/L		03/18/25 11:22	
92779979016	**HAM-MW-28D**					
EPA 9315	Radium-226	0.529 ± 0.265 (0.371) C:59% T:NA	pCi/L		03/14/25 15:04	
EPA 9320	Radium-228	0.499U ± 0.438 (0.885) C:67% T:88%	pCi/L		03/10/25 15:06	
Total Radium Calculation	Total Radium	1.03U ± 0.703 (1.26)	pCi/L		03/18/25 11:22	

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SUMMARY OF DETECTION

Project: Hammond AP-1- RAD
Pace Project No.: 92779979

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92779979017	**HAM-MW-29**					
EPA 9315	Radium-226	0.0707U ± 0.156 (0.365) C:65% T:NA	pCi/L		03/14/25 15:05	
EPA 9320	Radium-228	0.934U ± 0.591 (1.13) C:66% T:88%	pCi/L		03/10/25 15:06	
Total Radium Calculation	Total Radium	1.00U ± 0.747 (1.50)	pCi/L		03/18/25 11:22	
92779979018	**HAM-AP1-EB-01**					
EPA 9315	Radium-226	0.00273U ± 0.0911 (0.254) C:73% T:NA	pCi/L		03/14/25 15:05	
EPA 9320	Radium-228	1.09 ± 0.526 (0.894) C:64% T:89%	pCi/L		03/10/25 15:06	
Total Radium Calculation	Total Radium	1.09U ± 0.617 (1.15)	pCi/L		03/18/25 11:22	
92779979019	**HAM-AP1-FB-01**					
EPA 9315	Radium-226	0.168U ± 0.153 (0.291) C:76% T:NA	pCi/L		03/14/25 15:07	
EPA 9320	Radium-228	0.611U ± 0.480 (0.953) C:67% T:90%	pCi/L		03/10/25 15:06	
Total Radium Calculation	Total Radium	0.779U ± 0.633 (1.24)	pCi/L		03/18/25 11:22	
92779979020	**HAM-AP1-EB-02**					
EPA 9315	Radium-226	0.0808U ± 0.117 (0.250) C:74% T:NA	pCi/L		03/14/25 15:07	
EPA 9320	Radium-228	0.0736U ± 0.343 (0.782) C:69% T:95%	pCi/L		03/10/25 15:06	
Total Radium Calculation	Total Radium	0.154U ± 0.460 (1.03)	pCi/L		03/18/25 11:22	

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SUMMARY OF DETECTION

Project: Hammond AP-1- RAD
Pace Project No.: 92779979

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92779979021	**HAM-AP1-FB-02**					
EPA 9315	Radium-226	0.0160U ± 0.103 (0.266) C:85% T:NA	pCi/L		03/14/25 15:07	
EPA 9320	Radium-228	0.219U ± 0.353 (0.767) C:67% T:89%	pCi/L		03/10/25 15:06	
Total Radium Calculation	Total Radium	0.235U ± 0.456 (1.03)	pCi/L		03/18/25 11:22	
92779979022	**HAM-AP1-FD-02**					
EPA 9315	Radium-226	0.605U ± 0.367 (0.641) C:62% T:NA	pCi/L		03/11/25 08:57	
EPA 9320	Radium-228	0.764U ± 0.488 (0.925) C:71% T:80%	pCi/L		03/10/25 11:57	
Total Radium Calculation	Total Radium	1.37U ± 0.855 (1.57)	pCi/L		03/11/25 15:09	
92779979023	**HAM-HGWC-13**					
EPA 9315	Radium-226	0.255U ± 0.215 (0.406) C:83% T:NA	pCi/L		03/12/25 08:27	
EPA 9320	Radium-228	0.753U ± 0.443 (0.803) C:77% T:77%	pCi/L		03/10/25 15:26	
Total Radium Calculation	Total Radium	1.01U ± 0.658 (1.21)	pCi/L		03/12/25 13:31	
92779979024	**HAM-AP1-FD-01**					
EPA 9315	Radium-226	0.156U ± 0.165 (0.333) C:92% T:NA	pCi/L		03/12/25 08:27	
EPA 9320	Radium-228	0.559U ± 0.397 (0.764) C:80% T:81%	pCi/L		03/10/25 15:26	
Total Radium Calculation	Total Radium	0.715U ± 0.562 (1.10)	pCi/L		03/12/25 13:31	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Hammond AP-1- RAD
Pace Project No.: 92779979

Sample: HAM-HGWC-11 **Lab ID: 92779979001** Collected: 02/13/25 15:32 Received: 02/14/25 16:10 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.139U ± 0.281 (0.649) C:82% T:NA**	pCi/L	03/10/25 10:09	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.352U ± 0.370 (0.767) C:79% T:79%**	pCi/L	03/07/25 14:30	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.491U ± 0.651 (1.42)**	pCi/L	03/10/25 15:52	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Hammond AP-1- RAD
Pace Project No.: 92779979

Sample: HAM-HGWC-12 **Lab ID: 92779979002** Collected: 02/13/25 13:26 Received: 02/14/25 16:10 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.187U ± 0.184 (0.369) C:69% T:NA**	pCi/L	03/14/25 13:10	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.538U ± 0.449 (0.905) C:75% T:84%**	pCi/L	03/10/25 15:04	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.725U ± 0.633 (1.27)**	pCi/L	03/18/25 11:22	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Hammond AP-1- RAD
Pace Project No.: 92779979

Sample: HAM-MW-7 **Lab ID: 92779979003** Collected: 02/13/25 11:52 Received: 02/14/25 16:10 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0397U ± 0.123 (0.301) C:73% T:NA**	pCi/L	03/14/25 13:10	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.553U ± 0.401 (0.784) C:76% T:90%**	pCi/L	03/10/25 15:04	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.593U ± 0.524 (1.09)**	pCi/L	03/18/25 11:22	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Hammond AP-1- RAD
Pace Project No.: 92779979

Sample: HAM-MW-19 **Lab ID: 92779979004** Collected: 02/13/25 10:38 Received: 02/14/25 16:10 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.241U ± 0.173 (0.296) C:77% T:NA**	pCi/L	03/14/25 13:10	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.468U ± 0.419 (0.851) C:73% T:84%**	pCi/L	03/10/25 15:05	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.709U ± 0.592 (1.15)**	pCi/L	03/18/25 11:22	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Hammond AP-1- RAD
Pace Project No.: 92779979

Sample: HAM-MW-25D **Lab ID: 92779979005** Collected: 02/13/25 14:26 Received: 02/14/25 16:10 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.767 ± 0.275 (0.310) C:81% T:NA**	pCi/L	03/14/25 13:10	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.446U ± 0.380 (0.758) C:74% T:90%**	pCi/L	03/10/25 15:04	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.21 ± 0.655 (1.07)**	pCi/L	03/18/25 11:22	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Hammond AP-1- RAD
Pace Project No.: 92779979

Sample: HAM-HGWC-7 **Lab ID: 92779979006** Collected: 02/16/25 11:54 Received: 02/17/25 14:45 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.217U ± 0.173 (0.298) C:61% T:NA**	pCi/L	03/14/25 13:10	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.132U ± 0.349 (0.782) C:74% T:87%**	pCi/L	03/10/25 15:04	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.349U ± 0.522 (1.08)**	pCi/L	03/18/25 11:22	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Hammond AP-1- RAD
Pace Project No.: 92779979

Sample: HAM-HGWC-8 **Lab ID: 92779979007** Collected: 02/15/25 16:22 Received: 02/17/25 14:45 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0795U ± 0.131 (0.291) C:76% T:NA**	pCi/L	03/14/25 13:13	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.283U ± 0.420 (0.906) C:74% T:89%**	pCi/L	03/10/25 15:04	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.363U ± 0.551 (1.20)**	pCi/L	03/18/25 11:22	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Hammond AP-1- RAD
Pace Project No.: 92779979

Sample: HAM-HGWC-9 **Lab ID: 92779979008** Collected: 02/15/25 09:58 Received: 02/17/25 14:45 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.183U ± 0.143 (0.241) C:78% T:NA**	pCi/L	03/14/25 13:13	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.141U ± 0.448 (1.01) C:74% T:82%**	pCi/L	03/10/25 15:04	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.324U ± 0.591 (1.25)**	pCi/L	03/18/25 11:22	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Hammond AP-1- RAD
Pace Project No.: 92779979

Sample: HAM-HGWC-10 **Lab ID: 92779979009** Collected: 02/14/25 12:18 Received: 02/17/25 14:45 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.223U ± 0.156 (0.266) C:85% T:NA**	pCi/L	03/14/25 13:13	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.149U ± 0.361 (0.805) C:72% T:88%**	pCi/L	03/10/25 15:05	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.372U ± 0.517 (1.07)**	pCi/L	03/18/25 11:22	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Hammond AP-1- RAD
Pace Project No.: 92779979

Sample: HAM-MW-5 **Lab ID: 92779979010** Collected: 02/14/25 15:14 Received: 02/17/25 14:45 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.183U ± 0.150 (0.271) C:71% T:NA**	pCi/L	03/14/25 13:13	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.334U ± 0.386 (0.810) C:74% T:84%**	pCi/L	03/10/25 15:05	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.517U ± 0.536 (1.08)**	pCi/L	03/18/25 11:22	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Hammond AP-1- RAD
Pace Project No.: 92779979

Sample: HAM-MW-6 **Lab ID: 92779979011** Collected: 02/14/25 13:24 Received: 02/17/25 14:45 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.333U ± 0.204 (0.335) C:73% T:NA**	pCi/L	03/14/25 13:15	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.602U ± 0.404 (0.767) C:75% T:87%**	pCi/L	03/10/25 15:05	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.935U ± 0.608 (1.10)**	pCi/L	03/18/25 11:22	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Hammond AP-1- RAD
Pace Project No.: 92779979

Sample: HAM-MW-20 **Lab ID: 92779979012** Collected: 02/15/25 11:11 Received: 02/17/25 14:45 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.322 ± 0.193 (0.285) C:73% T:NA**	pCi/L	03/14/25 13:17	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.892U ± 0.533 (0.979) C:65% T:81%**	pCi/L	03/10/25 15:05	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.21U ± 0.726 (1.26)**	pCi/L	03/18/25 11:22	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Hammond AP-1- RAD
Pace Project No.: 92779979

Sample: HAM-MW-24D **Lab ID: 92779979013** Collected: 02/16/25 15:36 Received: 02/17/25 14:45 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.230U ± 0.201 (0.378) C:58% T:NA**	pCi/L	03/14/25 13:17	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.0409U ± 0.396 (0.912) C:71% T:87%**	pCi/L	03/10/25 15:05	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.271U ± 0.597 (1.29)**	pCi/L	03/18/25 11:22	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Hammond AP-1- RAD
Pace Project No.: 92779979

Sample: HAM-MW-26D **Lab ID: 92779979014** Collected: 02/14/25 16:34 Received: 02/17/25 14:45 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.155U ± 0.183 (0.385) C:66% T:NA**	pCi/L	03/14/25 15:04	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.139U ± 0.370 (0.831) C:69% T:86%**	pCi/L	03/10/25 15:05	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.294U ± 0.553 (1.22)**	pCi/L	03/18/25 11:22	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Hammond AP-1- RAD
Pace Project No.: 92779979

Sample: HAM-MW-27D **Lab ID: 92779979015** Collected: 02/15/25 14:45 Received: 02/17/25 14:45 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.364 ± 0.200 (0.298) C:74% T:NA**	pCi/L	03/14/25 15:04	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.302U ± 0.382 (0.808) C:69% T:87%**	pCi/L	03/10/25 15:06	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.666U ± 0.582 (1.11)**	pCi/L	03/18/25 11:22	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Hammond AP-1- RAD
Pace Project No.: 92779979

Sample: HAM-MW-28D **Lab ID: 92779979016** Collected: 02/16/25 10:18 Received: 02/17/25 14:45 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.529 ± 0.265 (0.371) C:59% T:NA**	pCi/L	03/14/25 15:04	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.499U ± 0.438 (0.885) C:67% T:88%**	pCi/L	03/10/25 15:06	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.03U ± 0.703 (1.26)**	pCi/L	03/18/25 11:22	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Hammond AP-1- RAD
Pace Project No.: 92779979

Sample: HAM-MW-29 **Lab ID: 92779979017** Collected: 02/16/25 09:10 Received: 02/17/25 14:45 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0707U ± 0.156 (0.365) C:65% T:NA**	pCi/L	03/14/25 15:05	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.934U ± 0.591 (1.13) C:66% T:88%**	pCi/L	03/10/25 15:06	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.00U ± 0.747 (1.50)**	pCi/L	03/18/25 11:22	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Hammond AP-1- RAD
Pace Project No.: 92779979

Sample: HAM-AP1-EB-01 **Lab ID: 92779979018** Collected: 02/14/25 16:30 Received: 02/17/25 14:45 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.00273U ± 0.0911 (0.254) C:73% T:NA**	pCi/L	03/14/25 15:05	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**1.09 ± 0.526 (0.894) C:64% T:89%**	pCi/L	03/10/25 15:06	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.09U ± 0.617 (1.15)**	pCi/L	03/18/25 11:22	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Hammond AP-1- RAD
Pace Project No.: 92779979

Sample: HAM-AP1-FB-01 **Lab ID: 92779979019** Collected: 02/14/25 16:25 Received: 02/17/25 14:45 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.168U ± 0.153 (0.291) C:76% T:NA**	pCi/L	03/14/25 15:07	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.611U ± 0.480 (0.953) C:67% T:90%**	pCi/L	03/10/25 15:06	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.779U ± 0.633 (1.24)**	pCi/L	03/18/25 11:22	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Hammond AP-1- RAD
Pace Project No.: 92779979

Sample: HAM-AP1-EB-02 **Lab ID: 92779979020** Collected: 02/16/25 16:15 Received: 02/17/25 14:45 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0808U ± 0.117 (0.250) C:74% T:NA**	pCi/L	03/14/25 15:07	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.0736U ± 0.343 (0.782) C:69% T:95%**	pCi/L	03/10/25 15:06	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.154U ± 0.460 (1.03)**	pCi/L	03/18/25 11:22	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Hammond AP-1- RAD
Pace Project No.: 92779979

Sample: HAM-AP1-FB-02 **Lab ID: 92779979021** Collected: 02/16/25 16:05 Received: 02/17/25 14:45 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0160U ± 0.103 (0.266) C:85% T:NA**	pCi/L	03/14/25 15:07	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.219U ± 0.353 (0.767) C:67% T:89%**	pCi/L	03/10/25 15:06	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.235U ± 0.456 (1.03)**	pCi/L	03/18/25 11:22	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Hammond AP-1- RAD
Pace Project No.: 92779979

Sample: HAM-AP1-FD-02 **Lab ID: 92779979022** Collected: 02/14/25 00:00 Received: 02/17/25 14:45 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.605U ± 0.367 (0.641) C:62% T:NA**	pCi/L	03/11/25 08:57	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.764U ± 0.488 (0.925) C:71% T:80%**	pCi/L	03/10/25 11:57	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.37U ± 0.855 (1.57)**	pCi/L	03/11/25 15:09	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Hammond AP-1- RAD
Pace Project No.: 92779979

Sample: HAM-HGWC-13 **Lab ID: 92779979023** Collected: 02/17/25 13:20 Received: 02/19/25 15:25 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.255U ± 0.215 (0.406) C:83% T:NA**	pCi/L	03/12/25 08:27	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.753U ± 0.443 (0.803) C:77% T:77%**	pCi/L	03/10/25 15:26	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.01U ± 0.658 (1.21)**	pCi/L	03/12/25 13:31	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Hammond AP-1- RAD
Pace Project No.: 92779979

Sample: HAM-AP1-FD-01 **Lab ID: 92779979024** Collected: 02/17/25 00:00 Received: 02/19/25 15:25 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.156U ± 0.165 (0.333) C:92% T:NA**	pCi/L	03/12/25 08:27	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.559U ± 0.397 (0.764) C:80% T:81%**	pCi/L	03/10/25 15:26	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.715U ± 0.562 (1.10)**	pCi/L	03/12/25 13:31	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Hammond AP-1- RAD
Pace Project No.: 92779979

QC Batch: 728166
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92779979002, 92779979003, 92779979004, 92779979005, 92779979006, 92779979007, 92779979008, 92779979009, 92779979010, 92779979011, 92779979012, 92779979013, 92779979014, 92779979015, 92779979016, 92779979017, 92779979018, 92779979019, 92779979020, 92779979021

METHOD BLANK: 3544486
Matrix: Water
Associated Lab Samples: 92779979002, 92779979003, 92779979004, 92779979005, 92779979006, 92779979007, 92779979008, 92779979009, 92779979010, 92779979011, 92779979012, 92779979013, 92779979014, 92779979015, 92779979016, 92779979017, 92779979018, 92779979019, 92779979020, 92779979021

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.381 ± 0.374 (0.763) C:69% T:85%	pCi/L	03/10/25 15:05	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Hammond AP-1- RAD
Pace Project No.: 92779979

QC Batch: 728164
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92779979001

METHOD BLANK: 3544473 Matrix: Water
Associated Lab Samples: 92779979001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.636 ± 0.471 (0.938) C:78% T:90%	pCi/L	03/07/25 14:27	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Hammond AP-1- RAD
Pace Project No.: 92779979

QC Batch: 728168
QC Batch Method: EPA 9315
Analysis Method: EPA 9315
Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92779979022

METHOD BLANK: 3544497 Matrix: Water
Associated Lab Samples: 92779979022

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.652 ± 0.323 (0.458) C:64% T:NA	pCi/L	03/11/25 08:21	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Hammond AP-1- RAD
Pace Project No.: 92779979

QC Batch: 729141
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92779979023, 92779979024

METHOD BLANK: 3549310
Matrix: Water
Associated Lab Samples: 92779979023, 92779979024

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.192 ± 0.350 (0.767) C:73% T:80%	pCi/L	03/10/25 15:25	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Hammond AP-1- RAD
Pace Project No.: 92779979

QC Batch: 728170
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92779979022

METHOD BLANK: 3544499
Matrix: Water
Associated Lab Samples: 92779979022

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.679 ± 0.418 (0.785) C:74% T:86%	pCi/L	03/10/25 11:58	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Hammond AP-1- RAD
Pace Project No.: 92779979

QC Batch: 728165
QC Batch Method: EPA 9315
Analysis Method: EPA 9315
Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92779979002, 92779979003, 92779979004, 92779979005, 92779979006, 92779979007, 92779979008, 92779979009, 92779979010, 92779979011, 92779979012, 92779979013, 92779979014, 92779979015, 92779979016, 92779979017, 92779979018, 92779979019, 92779979020, 92779979021

METHOD BLANK: 3544481
Matrix: Water
Associated Lab Samples: 92779979002, 92779979003, 92779979004, 92779979005, 92779979006, 92779979007, 92779979008, 92779979009, 92779979010, 92779979011, 92779979012, 92779979013, 92779979014, 92779979015, 92779979016, 92779979017, 92779979018, 92779979019, 92779979020, 92779979021

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.270 ± 0.337 (0.725) C:66% T:NA	pCi/L	03/10/25 10:08	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Hammond AP-1- RAD
Pace Project No.: 92779979

QC Batch: 729140
QC Batch Method: EPA 9315
Analysis Method: EPA 9315
Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92779979023, 92779979024

METHOD BLANK: 3549309 Matrix: Water
Associated Lab Samples: 92779979023, 92779979024

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.0236 ± 0.117 (0.342) C:89% T:NA	pCi/L	03/12/25 08:25	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Hammond AP-1- RAD
Pace Project No.: 92779979

QC Batch: 728163
QC Batch Method: EPA 9315
Analysis Method: EPA 9315
Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92779979001

METHOD BLANK: 3544469 Matrix: Water
Associated Lab Samples: 92779979001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.0429 ± 0.143 (0.428) C:85% T:NA	pCi/L	03/10/25 10:05	

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QUALIFIERS

Project: Hammond AP-1- RAD
Pace Project No.: 92779979

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval). Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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TNI - The NELAC Institute.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Hammond AP-1- RAD
Pace Project No.: 92779979

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92779979001	**HAM-HGWC-11**	EPA 9315	728163		
92779979002	**HAM-HGWC-12**	EPA 9315	728165		
92779979003	**HAM-MW-7**	EPA 9315	728165		
92779979004	**HAM-MW-19**	EPA 9315	728165		
92779979005	**HAM-MW-25D**	EPA 9315	728165		
92779979006	**HAM-HGWC-7**	EPA 9315	728165		
92779979007	**HAM-HGWC-8**	EPA 9315	728165		
92779979008	**HAM-HGWC-9**	EPA 9315	728165		
92779979009	**HAM-HGWC-10**	EPA 9315	728165		
92779979010	**HAM-MW-5**	EPA 9315	728165		
92779979011	**HAM-MW-6**	EPA 9315	728165		
92779979012	**HAM-MW-20**	EPA 9315	728165		
92779979013	**HAM-MW-24D**	EPA 9315	728165		
92779979014	**HAM-MW-26D**	EPA 9315	728165		
92779979015	**HAM-MW-27D**	EPA 9315	728165		
92779979016	**HAM-MW-28D**	EPA 9315	728165		
92779979017	**HAM-MW-29**	EPA 9315	728165		
92779979018	**HAM-AP1-EB-01**	EPA 9315	728165		
92779979019	**HAM-AP1-FB-01**	EPA 9315	728165		
92779979020	**HAM-AP1-EB-02**	EPA 9315	728165		
92779979021	**HAM-AP1-FB-02**	EPA 9315	728165		
92779979022	**HAM-AP1-FD-02**	EPA 9315	728168		
92779979023	**HAM-HGWC-13**	EPA 9315	729140		
92779979024	**HAM-AP1-FD-01**	EPA 9315	729140		
92779979001	**HAM-HGWC-11**	EPA 9320	728164		
92779979002	**HAM-HGWC-12**	EPA 9320	728166		
92779979003	**HAM-MW-7**	EPA 9320	728166		
92779979004	**HAM-MW-19**	EPA 9320	728166		
92779979005	**HAM-MW-25D**	EPA 9320	728166		
92779979006	**HAM-HGWC-7**	EPA 9320	728166		
92779979007	**HAM-HGWC-8**	EPA 9320	728166		
92779979008	**HAM-HGWC-9**	EPA 9320	728166		
92779979009	**HAM-HGWC-10**	EPA 9320	728166		
92779979010	**HAM-MW-5**	EPA 9320	728166		
92779979011	**HAM-MW-6**	EPA 9320	728166		
92779979012	**HAM-MW-20**	EPA 9320	728166		
92779979013	**HAM-MW-24D**	EPA 9320	728166		
92779979014	**HAM-MW-26D**	EPA 9320	728166		
92779979015	**HAM-MW-27D**	EPA 9320	728166		
92779979016	**HAM-MW-28D**	EPA 9320	728166		
92779979017	**HAM-MW-29**	EPA 9320	728166		
92779979018	**HAM-AP1-EB-01**	EPA 9320	728166		
92779979019	**HAM-AP1-FB-01**	EPA 9320	728166		
92779979020	**HAM-AP1-EB-02**	EPA 9320	728166		
92779979021	**HAM-AP1-FB-02**	EPA 9320	728166		
92779979022	**HAM-AP1-FD-02**	EPA 9320	728170		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Hammond AP-1- RAD
Pace Project No.: 92779979

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92779979023	**HAM-HGWC-13**	EPA 9320	729141		
92779979024	**HAM-AP1-FD-01**	EPA 9320	729141		
92779979001	**HAM-HGWC-11**	Total Radium Calculation	731764		
92779979002	**HAM-HGWC-12**	Total Radium Calculation	733584		
92779979003	**HAM-MW-7**	Total Radium Calculation	733584		
92779979004	**HAM-MW-19**	Total Radium Calculation	733584		
92779979005	**HAM-MW-25D**	Total Radium Calculation	733584		
92779979006	**HAM-HGWC-7**	Total Radium Calculation	733584		
92779979007	**HAM-HGWC-8**	Total Radium Calculation	733584		
92779979008	**HAM-HGWC-9**	Total Radium Calculation	733584		
92779979009	**HAM-HGWC-10**	Total Radium Calculation	733584		
92779979010	**HAM-MW-5**	Total Radium Calculation	733584		
92779979011	**HAM-MW-6**	Total Radium Calculation	733584		
92779979012	**HAM-MW-20**	Total Radium Calculation	733584		
92779979013	**HAM-MW-24D**	Total Radium Calculation	733584		
92779979014	**HAM-MW-26D**	Total Radium Calculation	733584		
92779979015	**HAM-MW-27D**	Total Radium Calculation	733584		
92779979016	**HAM-MW-28D**	Total Radium Calculation	733584		
92779979017	**HAM-MW-29**	Total Radium Calculation	733584		
92779979018	**HAM-AP1-EB-01**	Total Radium Calculation	733584		
92779979019	**HAM-AP1-FB-01**	Total Radium Calculation	733584		
92779979020	**HAM-AP1-EB-02**	Total Radium Calculation	733584		
92779979021	**HAM-AP1-FB-02**	Total Radium Calculation	733584		
92779979022	**HAM-AP1-FD-02**	Total Radium Calculation	732070		
92779979023	**HAM-HGWC-13**	Total Radium Calculation	732353		
92779979024	**HAM-AP1-FD-01**	Total Radium Calculation	732353		

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

aboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #: **WO# : 92779979**

92779979

Courier: ☐ Commercial ☐ Fed Ex ☑ Pace ☐ UPS ☐ USPS ☐ Other: ☐ Client

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No ☑ N/A

Date/Initials Person Examining Contents: 4/19/25 bm

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 083

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 1.4 Correction Factor: Add/Subtract (°C) +0.1

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 1.5

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix:	W			
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

MMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

NT NOTIFICATION/RESOLUTION

son contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

Pace

DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

WO# : 92779979

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg
**Bottom half of box is to list number of bottles
***Check all unpreserved Nitrates for chlorine

Project #

PM: BV Due Date: 03/10/25
CLIENT: 92- GP-HAM

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Client_____ Profile/EZ (Circle one)_____ Notes_____

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)		BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG9A-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
CC																													
1		2	1		2		2	1																					
2		2	1		2		2	1																					
3		2	1		2		2	1																					
4		2	1		2		2	1																					
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pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers.

Jaltrax ID: 69614

WO# : 92779979

PM: BV **Due Date: 03/10/25**

CLIENT: 92- GP-HAM

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Geosyntec Contacts	Company Name:	
				Address:	
Email To:	SCS Contacts	Purchase Order No.:		Pace Quote Reference:	
Phone:	Fax:	Project Name:	Hammond AP-1	Pace Project Manager:	Bonnie Vang
Requested Due Date/TAT:	10 Day	Project Number:		Pace Profile #:	10839

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER

UST RCRA ✓ OTHER CCR

Site Location STATE: GA

Requested Analysis Filtered (Y/N)

ITEM #	Section D Required Client Information: SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX / CODE: DRINKING WATER DW; WATER WT; WASTE WATER WW; PRODUCT P; SOIL/SOLID SL; OIL OL; WIPE WP; AIR AR; OTHER OT; TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED: COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test → Y/N	Chloride, Fluoride, Sulfate	Full App. III and IV metals	RAD 226/228	TDS	Major Ions (Profile 10839-2)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
																				Y/N →	N	N	N	N	N		
1	HAM-HGWC-11		WG	G	2/13/2025	1532			18	8	3		4					1		X	X	X	X	X	N	001
2	HAM-HGWC-12		WG	G	2/13/2025	1326			19	8	3		4					1		X	X	X	X	X	N	002
3	HAM-MW-7		WG	G	2/13/2025	1152			17	8	3		4					1		X	X	X	X	X	N	003
4	HAM-MW-19		WG	G	2/13/2025	1038			18	8	3		4					1		X	X	X	X	X	N	004
5	HAM-MW-25D		WG	G	2/13/2025	1426			19	8	3		4					1		X	X	X	X	X	N	005
6																										
7																										
8																										
9																										
10																										
11																										
12																										

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Task Code: HAM-CCR-ASSMT-2025S1	Zain Webb/Geosyntec	2-14-25	1340	Ryan Williams / Pace	2/14/25	1340	
				Cassandra Hooks	2/14/25	1610	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Amanda Tomlinson, Zain Webb, Thomas Kessler / Geosyntec Consultants

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 2-13-25

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Pace

DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

aboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #:

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace ☐ Other:

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No ☑ N/A

Date/Initials Person Examining Contents: 2/17/25 LAP

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☐ N/A

Thermometer: ☑ IR Gun ID: 083 Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 1.1 Correction Factor: Add/Subtract (°C) +0.1

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 1.2

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix:	W			
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

OMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

ENT NOTIFICATION/RESOLUTION

erson contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg
**Bottom half of box is to list number of bottles
***Check all unpreserved Nitrates for chlorine

Project #

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Client _____ Profile/EZ (Circle one) _____ Notes _____

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	10P1N	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	VGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
CC																														
1		2	1		2		2	1																						
2		2	1		2		2	1																						
3		2	1		2		2	1																						
4		2	1		2		2	1																						
5		2	1		2		2	1																						
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7		2	1		2		2	1																						
8		2	1		2		2	1																						
9		2	1		2		2	1																						
10		2	1		2		2	1																						
11		2	1		2		2	1																						
12		2	1		2		2	1																						

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers.

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg
**Bottom half of box is to list number of bottles
***Check all unpreserved Nitrates for chlorine

Project #

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Client_____ Profile/EZ (Circle one)_____ Notes_____

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BPN	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SPST-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
CC																														
1		1	1		2		2																							
2		1	1		2		2																							
3		1	1		2		2																							
4		1	1		2		2																							
5		1	1		2		2																							
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pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers.

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 2

Section A Required Client Information:

Company:	GA Power
Address:	Atlanta, GA
Email To:	SCS Contacts
Phone:	Fax:
Requested Due Date/TAT:	10 Day

Section B Required Project Information:

Report To:	SCS Contacts
Copy To:	Geosyntec Contacts
Purchase Order No.:	
Project Name:	Hammond AP-1
Project Number:	

Section C Invoice Information:

Attention:	Southern Co.
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	Bonnie Vang
Pace Profile #:	10839

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER

UST RCRA ✓ OTHER CCR

Site Location STATE: GA

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	Chloride, Fluoride, Sulfate	Full App III and IV metals	RAD 226/228	TDS	Major Ions (Profile 10839-2)												Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 92779979
																		Requested Analysis Filtered (Y/N)	N	N	N	N	N																
1	HAM-HGWC-7	WG	G	2/16/2025	1154			17	8	3		4		1					X	X	X	X	X												N	006
2	HAM-HGWC-8	WG	G	2/15/2025	1622			17	8	3		4		1					X	X	X	X	X												N	007
3	HAM-HGWC-9	WG	G	2/15/2025	0958			16	8	3		4		1					X	X	X	X	X												N	008
4	HAM-HGWC-10	WG	G	2/14/2025	1218			15	8	3		4		1					X	X	X	X	X												N	009
5	HAM-MW-5	WG	G	2/14/2025	1514			19	8	3		4		1					X	X	X	X	X												N	010
6	HAM-MW-6	WG	G	2/14/2025	1324			20	8	3		4		1					X	X	X	X	X												N	011
7	HAM-MW-20	WG	G	2/15/2025	1111			17	8	3		4		1					X	X	X	X	X												N	012
8	HAM-MW-24D	WG	G	2/16/2025	1536			17	8	3		4		1					X	X	X	X	X												N	013
9	HAM-MW-26D	WG	G	2/14/2025	1634	ART 2/16/2025		17	8	3		4		1					X	X	X	X	X												N	014
10	HAM-MW-27D	WG	G	2/15/2025	1445			17	8	3		4		1					X	X	X	X	X												N	015
11	HAM-MW-28D	WG	G	2/16/2025	1018			17	8	3		4		1					X	X	X	X	X												N	016
12	HAM-MW-29	WG	G	2/16/2025	0910			15	8	3		4		1					X	X	X	X	X												N	017

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Task Code: HAM-CCR-ASSMT-2025S1	Amanda Tomlinson / Geosyntec	2-17-25	1230	Ryan Williams / Pace	2/17/2025	1230	
	Ryan Williams / Pace	2/17/2025	1445	Connor Henderson	2/17/25	1445	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Amanda Tomlinson, Zain Webb, Thomas Kessler / Geosyntec Consultants, Inc.

SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY): 2-17-25

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 2 of 2

Section A Required Client Information:

Company:	GA Power
Address:	Atlanta, GA
Email To:	SCS Contacts
Phone:	Fax:
Requested Due Date/TAT:	10 Day

Section B Required Project Information:

Report To:	SCS Contacts
Copy To:	Geosyntec Contacts
Purchase Order No.:	
Project Name	Hammond AP-1
Project Number:	

Section C Invoice Information:

Attention:	Southern Co.
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	Bonnie Vang
Pace Profile #:	10839

REGULATORY AGENCY

NPDES | GROUND WATER | DRINKING WATER
UST | RCRA | ✓ OTHER CCE

Site Location STATE: GA

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	Chloride, Fluoride, Sulfate	Full App. III and IV metals	RAD 226/228	TDS	Major Ions (Profile 10839-2)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
																	Y/N	N	N	N	N			
1	HAM-AP-1-EB-01	WQ	G	2/14/2025	1630				17	6	2		4					X	X	X	X			N	018
2	HAM-AP-1-FB-01	WQ	G	2/14/2025	1625				17	6	2		4					X	X	X	X			N	019
3	HAM-AP-1-EB-02	WQ	G	2/16/2025	1615				17	6	2		4					X	X	X	X			N	020
4	HAM-AP-1-FB-02	WQ	G	2/16/2025	1605	ART 2/16/2025			17	6	2		4					X	X	X	X			N	021
5	HAM-AP-1-FD-02	WG	G	2/14/2025	0000				17	6	2		4					X	X	X	X			N	022
6																									
7																									
8	ART 2/16/2025																								
9																									
10																									
11																									
12																									

Requested Analysis Filtered (Y/N)

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Task Code: HAM-CCR-ASSMT-2025S1	Zain Webb/Geosyntec	2-17-25	1230	Ryan Williams / Pace	2/17/2025	1230	
	Ryan Williams / Pace	2/17/2025	1445	Charles Hunt	2/17/25	1445	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Amanda Tomlinson, Zain Webb, Thomas Kessler / Geosyntec Consultants, Inc.

SIGNATURE of SAMPLER: Zain Webb (AT) (TK) DATE Signed (MM/DD/YY): 2-17-25

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Pace

DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

aboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #:

Courier: ☐ Commercial ☐ Fed Ex ☑ Pace ☐ UPS ☐ USPS ☐ Other:____ ☐ Client

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No ☑ N/A

Date/Initials Person Examining Contents: 2/19/25 tdt

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 230

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 2.1 Correction Factor: Add/Subtract (°C) +0.1

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 2.2

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: W				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

Field Data Required? ☐ Yes ☐ No

MMENTS/SAMPLE DISCREPANCY

Lot ID of split containers:

NT NOTIFICATION/RESOLUTION

rson contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg
**Bottom half of box is to list number of bottles
***Check all unpreserved Nitrates for chlorine

Project #

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Client_____ Profile/EZ (Circle one)_____ Notes_____

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
CC																												
1		2	1		2	2	1																					
2		1	1		2	2																						
3																												
4																												
5																												
6																												
7																												
8																												
9																												
10																												
11																												
12																												

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers.

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: GA Power	Report To: SCS Contacts	Attention: Southern Co
Address: Atlanta, GA	Copy To: Geosyntec Contacts	Company Name:
		Address:
Email To: SCS Contacts	Purchase Order No:	Pace Quote Reference:
Phone: Fax:	Project Name: Hammond AP-1	Pace Project Manager: Bonnie Varig
Requested Due Date/TAT: 10 Day	Project Number:	Pace Profile #: 10839

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☑ OTHER CCR

Site Location STATE: GA

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

#	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	Chloride, Fluoride, Sulfate	Full App. III and IV metals	RAD 226/228	TDS	Major Ions (Profile 10839-2)	Residual Chlorine (Y/N)
																		Requested Analysis Filtered (Y/N)	N	N	N	N	N	
1	HAM-HGWC-13	WG	G	2/17/2025	1320	ART 2/18/2025			18	8	3		4				1		X	X	X	X	X	N
2	HAM-AP1-FD-01	WG	G	2/17/2025	0000	ART 2/18/2025			18	6	2		4				1		X	X	X	X		N
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								

ART 2/18/2025

92779979
Pace Project No./ Lab I.D.

1 N 023
2 N Last sample 024

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Task Code: HAM-CCR-ASSMT-2025S1	AT / Geosyntec	2/19/2025	1220	Ryan William / Pace	2/19/2025	1220	
	Ryan Williams / Pace	2/19/25	1525		2/19/25	1525	

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	Amanda Tomlinson / Geosyntec Consultants, Inc.				
SIGNATURE of SAMPLER:	DATE Signed (MM/DD/YY): 2/19/2025				

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test:	Ra-228
Analyst:	VAL
Date:	3/3/2025
Worklist:	83720
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3544499
MB concentration:	0.679
M/B 2 Sigma CSU:	0.418
MB MDC:	0.785
MB Numerical Performance Indicator:	3.18
MB Status vs Numerical Indicator:	Fail*
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS83720	LCSD83720
Count Date:	3/10/2025	3/10/2025
Spike I.D.:	23-043	23-043
Decay Corrected Spike Concentration (pCi/mL):	33.291	33.291
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.818	0.819
Target Conc. (pCi/L, g, F):	4.072	4.063
Uncertainty (Calculated):	0.200	0.199
Result (pCi/L, g, F):	4.052	4.826
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.964	1.108
Numerical Performance Indicator:	-0.04	1.33
Percent Recovery:	99.52%	118.77%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS83720	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD83720	
Sample Result (pCi/L, g, F):	4.052	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.964	
Sample Duplicate Result (pCi/L, g, F):	4.826	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.108	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	-1.033	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	17.64%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

~~*If the lowest activity sample in this batch is greater than ten times the blank value, the blank is acceptable; otherwise this batch must be re-prepped.~~ X MB activity < MDC, Pass

VAL 3/11/25

3/11/25

Quality Control Sample Performance Assessment

Pace Analytical™
www.pacelabs.com

Test:	Ra-226
Analyst:	SLC
Date:	3/8/2025
Worklist:	83715
Matrix:	W

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3544469
MB concentration:	-0.043
M/B 2 Sigma CSU:	0.143
MB MDC:	0.428
MB Numerical Performance Indicator:	-0.59
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS83715	LCSD83715
Count Date:	3/10/2025	3/10/2025
Spike I.D.:	23-014	23-014
Decay Corrected Spike Concentration (pCi/mL):	25.015	25.015
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.500	0.501
Target Conc. (pCi/L, g, F):	5.001	4.993
Uncertainty (Calculated):	0.235	0.235
Result (pCi/L, g, F):	5.025	5.383
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.072	1.084
Numerical Performance Indicator:	0.04	0.69
Percent Recovery:	100.48%	107.80%
Status vs Numerical Indicator:	Pass	Pass
Status vs Recovery:	N/A	N/A
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS83715	92779979001
Duplicate Sample I.D.	LCSD83715	92779979001DUP
Sample Result (pCi/L, g, F):	5.025	0.139
Sample Result 2 Sigma CSU (pCi/L, g, F):	1.072	0.281
Sample Duplicate Result (pCi/L, g, F):	5.383	0.180
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.084	0.211
Are sample and/or duplicate results below RL?	NO	See Below ##
Duplicate Numerical Performance Indicator:	-0.460	-0.233
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	7.03%	26.19%
Duplicate Status vs Numerical Indicator:	Pass	Pass
Duplicate Status vs RPD:	N/A	N/A
% RPD Limit:	25%	25%

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

VAM 3/10/25

ET 3-10-25

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test:	Ra-228
Analyst:	ZPC
Date:	3/3/2025
Worklist:	83787
Matrix:	WT

Method Blank Assessment	
MB Sample ID	3549310
MB concentration:	0.192
M/B 2 Sigma CSU:	0.350
MB MDC:	0.767
MB Numerical Performance Indicator:	1.07
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS83787	**LCSD83787**
Count Date:	3/10/2025	3/10/2025
Spike I.D.:	23-043	23-043
Decay Corrected Spike Concentration (pCi/mL):	33.291	33.291
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.820	0.818
Target Conc. (pCi/L, g, F):	4.060	4.068
Uncertainty (Calculated):	0.199	0.199
Result (pCi/L, g, F):	4.016	4.709
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.971	1.066
Numerical Performance Indicator:	-0.09	1.16
Percent Recovery:	98.93%	115.78%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS83787	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD83787	
Sample Result (pCi/L, g, F):	4.016	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.971	
Sample Duplicate Result (pCi/L, g, F):	4.709	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.066	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	-0.942	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	15.70%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

VAL
3/11/25

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test:	Ra-226
Analyst:	SLC
Date:	3/8/2025
Worklist:	83719
Matrix:	W

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3544497
MB concentration:	0.652
M/B 2 Sigma CSU:	0.323
MB MDC:	0.458
MB Numerical Performance Indicator:	3.95
MB Status vs Numerical Indicator:	Fail*
MB Status vs. MDC:	N/A

OK - less than RL

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS83719	LCSD83719
Count Date:	3/11/2025	3/11/2025
Spike I.D.:	23-014	23-014
Decay Corrected Spike Concentration (pCi/mL):	25.014	25.014
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.506	0.507
Target Conc. (pCi/L, g, F):	4.945	4.936
Uncertainty (Calculated):	0.232	0.232
Result (pCi/L, g, F):	5.458	5.846
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.037	1.114
Numerical Performance Indicator:	0.95	1.57
Percent Recovery:	110.38%	118.45%
Status vs Numerical Indicator:	Pass	Pass
Status vs Recovery:	N/A	N/A
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS83719	92779986008
Duplicate Sample I.D.	LCSD83719	92779986008DUP
Sample Result (pCi/L, g, F):	5.458	0.048
Sample Result 2 Sigma CSU (pCi/L, g, F):	1.037	0.216
Sample Duplicate Result (pCi/L, g, F):	5.846	0.085
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.114	0.130
Are sample and/or duplicate results below RL?	NO	See Below ##
Duplicate Numerical Performance Indicator:	-0.500	-0.291
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	7.06%	56.33%
Duplicate Status vs Numerical Indicator:	Pass	Pass
Duplicate Status vs RPD:	N/A	N/A
% RPD Limit:	25%	25%

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:
*If the lowest activity ~~sample in this batch is greater than ten times the blank value, the blank is acceptable, otherwise this batch must be re-prepped~~. OK less than RL

LAM 3/11/25

SLC 3/11/25

LAM 3/11/25

Quality Control Sample Performance Assessment

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test:	Ra-226
Analyst:	SLC
Date:	3/8/2025
Worklist:	83717
Matrix:	W

Method Blank Assessment	
MB Sample ID	3544481
MB concentration:	0.270
M/B 2 Sigma CSU:	0.337
MB MDC:	0.725
MB Numerical Performance Indicator:	1.57
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS83717	LCSD83717
Count Date:	3/10/2025	3/10/2025
Spike I.D.:	23-014	23-014
Decay Corrected Spike Concentration (pCi/mL):	25.015	25.015
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.501	0.501
Target Conc. (pCi/L, g, F):	4.994	4.996
Uncertainty (Calculated):	0.235	0.235
Result (pCi/L, g, F):	5.269	6.200
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.055	1.216
Numerical Performance Indicator:	0.50	1.91
Percent Recovery:	105.51%	124.11%
Status vs Numerical Indicator:	Pass	Pass
Status vs Recovery:	N/A	N/A
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS83717	92779979021
Duplicate Sample I.D.	LCSD83717	92779979021DUP
Sample Result (pCi/L, g, F):	5.269	0.016
Sample Result 2 Sigma CSU (pCi/L, g, F):	1.055	0.103
Sample Duplicate Result (pCi/L, g, F):	6.200	0.138
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.216	0.122
Are sample and/or duplicate results below RL?	NO	See Below ##
Duplicate Numerical Performance Indicator:	-1.133	-1.496
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	16.21%	158.45%
Duplicate Status vs Numerical Indicator:	Pass	Pass
Duplicate Status vs RPD:	N/A	N/A
% RPD Limit:	25%	25%

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

VAM 3/7/25

CT
83728

Quality Control Sample Performance Assessment

Pace Analytical™
www.pacelabs.com

Test:	Ra-228
Analyst:	ZPC
Date:	3/3/2025
Worklist:	83718
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3544486
MB concentration:	0.381
M/B 2 Sigma CSU:	0.374
MB MDC:	0.763
MB Numerical Performance Indicator:	2.00
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS83718	LCSD83718
Count Date:	3/10/2025	3/10/2025
Spike I.D.:	23-043	23-043
Decay Corrected Spike Concentration (pCi/mL):	33.291	33.291
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.819	0.820
Target Conc. (pCi/L, g, F):	4.066	4.058
Uncertainty (Calculated):	0.199	0.199
Result (pCi/L, g, F):	2.888	2.891
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.813	0.799
Numerical Performance Indicator:	-2.76	-2.78
Percent Recovery:	71.03%	71.25%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS83718	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD83718	
Sample Result (pCi/L, g, F):	2.888	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.813	
Sample Duplicate Result (pCi/L, g, F):	2.891	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.799	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	-0.005	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	0.31%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

VAL
3/11/25

Quality Control Sample Performance Assessment

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Test:	Ra-226
Analyst:	SLC
Date:	3/9/2025
Worklist:	83786
Matrix:	W

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3549309
MB concentration:	-0.024
M/B 2 Sigma CSU:	0.117
MB MDC:	0.342
MB Numerical Performance Indicator:	-0.40
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS83786	LCSD83786
Count Date:	3/12/2025	3/12/2025
Spike I.D.:	23-014	23-014
Decay Corrected Spike Concentration (pCi/mL):	25.014	25.014
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.524	0.522
Target Conc. (pCi/L, g, F):	4.776	4.796
Uncertainty (Calculated):	0.224	0.225
Result (pCi/L, g, F):	4.500	5.030
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.883	0.971
Numerical Performance Indicator:	-0.59	0.46
Percent Recovery:	94.24%	104.86%
Status vs Numerical Indicator:	Pass	Pass
Status vs Recovery:	N/A	N/A
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS83786	92779982016
Duplicate Sample I.D.	LCSD83786	92779982016DUP
Sample Result (pCi/L, g, F):	4.500	0.482
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.883	0.259 ✓
Sample Duplicate Result (pCi/L, g, F):	5.030	0.019 ✓
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.971	0.098
Are sample and/or duplicate results below RL?	NO	See Below ##
Duplicate Numerical Performance Indicator:	-0.790	3.284
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	10.67%	184.96%
Duplicate Status vs Numerical Indicator:	Pass	Fail***
Duplicate Status vs RPD:	N/A	N/A
% RPD Limit:	25%	25%

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

~~***Batch must be re-prepped due to unacceptable precision.~~ N/A LAM 3/12/25 Activity below RL

LAM 3/12/25

LAM 3/12/25

Quality Control Sample Performance Assessment

Pace Analytical™
www.pacelabs.com

Test:	Ra-228
Analyst:	ZPC
Date:	3/3/2025
Worklist:	83716
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3544473
MB concentration:	0.636
M/B 2 Sigma CSU:	0.471
MB MDC:	0.938
MB Numerical Performance Indicator:	2.65
MB Status vs Numerical Indicator:	Warning
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS83716	LCSD83716
Count Date:	3/7/2025	3/7/2025
Spike I.D.:	23-043	23-043
Decay Corrected Spike Concentration (pCi/mL):	33.325	33.325
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.822	0.817
Target Conc. (pCi/L, g, F):	4.055	4.079
Uncertainty (Calculated):	0.199	0.200
Result (pCi/L, g, F):	3.423	3.297
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.860	0.830
Numerical Performance Indicator:	-1.40	-1.80
Percent Recovery:	84.40%	80.82%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS83716	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD83716	
Sample Result (pCi/L, g, F):	3.423	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.860	
Sample Duplicate Result (pCi/L, g, F):	3.297	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.830	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	0.206	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	4.34%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

3/10/25

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

March 06, 2025

Ben Hodges
Southern Company

,

RE: Project: Plant Hammond-CCR Ash Pond
Pace Project No.: 92780426

Dear Ben Hodges:

Enclosed are the analytical results for sample(s) received by the laboratory on February 18, 2025. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Asheville

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Maiya Parks
maiya.parks@pacelabs.com
770-734-4205
Project Manager

Enclosures

cc: Jordan Gamble, ARCADIS US, Inc. - Atlanta
Christine Hug, Geosyntec Consultants, Inc.
Priya Jacob, ARCADIS US, Inc. - Atlanta
Allison Keefer, Southern Company
Laura Midkiff, Southern Company
Caroline Nelson, Geosyntec Consultants, Inc
Noelia Muskus Ruiz, Georgia Power
Tina Sullivan, ERM

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(770)734-4200

CERTIFICATIONS

Project: Plant Hammond-CCR Ash Pond
Pace Project No.: 92780426

Pace Analytical Services Asheville
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Laboratory ID: 99030
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Plant Hammond-CCR Ash Pond
Pace Project No.: 92780426

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92780426001	**HAM-H-SCC-NBR**	Water	02/17/25 12:15	02/18/25 15:46
92780426002	**HAM-H-SCC**	Water	02/17/25 11:53	02/18/25 15:46

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SAMPLE ANALYTE COUNT

Project: Plant Hammond-CCR Ash Pond
Pace Project No.: 92780426

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92780426001	**HAM-H-SCC-NBR**	EPA 6010D	DBB1	5	PASI-A
		EPA 6020B	DBB1	1	PASI-A
		SM 2320B-2011	YEG	3	PASI-A
		SM 2540C-2015	CDM	1	PASI-A
		EPA 9056A	JCM	3	PASI-A
92780426002	**HAM-H-SCC**	EPA 6010D	DBB1	5	PASI-A
		EPA 6020B	DBB1	1	PASI-A
		SM 2320B-2011	YEG	3	PASI-A
		SM 2540C-2015	CDM	1	PASI-A
		EPA 9056A	JCM	3	PASI-A

PASI-A = Pace Analytical Services - Asheville

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ANALYTICAL RESULTS

Project: Plant Hammond-CCR Ash Pond
Pace Project No.: 92780426

Sample: HAM-H-SCC-NBR **Lab ID: 92780426001** Collected: 02/17/25 12:15 Received: 02/18/25 15:46 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Boron	ND	mg/L	0.050	1	02/21/25 01:00	02/21/25 13:08	7440-42-8	
Calcium	**6.6**	mg/L	0.10	1	02/21/25 01:00	02/21/25 13:08	7440-70-2	
Magnesium	**1.6**	mg/L	0.10	1	02/21/25 01:00	02/21/25 13:08	7439-95-4	
Potassium	ND	mg/L	5.0	1	02/21/25 01:00	02/21/25 13:08	7440-09-7	
Sodium	ND	mg/L	5.0	1	02/21/25 01:00	02/21/25 13:08	7440-23-5	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Molybdenum	ND	mg/L	0.0010	1	03/05/25 02:05	03/05/25 20:44	7439-98-7	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville							
Alkalinity,Bicarbonate (CaCO3)	**14.7**	mg/L	5.0	1		02/24/25 22:24		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1		02/24/25 22:24		
Alkalinity, Total as CaCO3	**14.7**	mg/L	5.0	1		02/24/25 22:24		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville							
Total Dissolved Solids	**60.0**	mg/L	25.0	1		02/22/25 12:39		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville							
Chloride	ND	mg/L	1.0	1		02/19/25 23:11	16887-00-6	
Fluoride	ND	mg/L	0.10	1		02/19/25 23:11	16984-48-8	
Sulfate	**5.9**	mg/L	1.0	1		02/19/25 23:11	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Hammond-CCR Ash Pond
Pace Project No.: 92780426

Sample: HAM-H-SCC **Lab ID: 92780426002** Collected: 02/17/25 11:53 Received: 02/18/25 15:46 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Boron	ND	mg/L	0.050	1	02/21/25 01:00	02/21/25 13:29	7440-42-8	
Calcium	**8.5**	mg/L	0.10	1	02/21/25 01:00	02/21/25 13:29	7440-70-2	
Magnesium	**1.8**	mg/L	0.10	1	02/21/25 01:00	02/21/25 13:29	7439-95-4	
Potassium	ND	mg/L	5.0	1	02/21/25 01:00	02/21/25 13:29	7440-09-7	
Sodium	ND	mg/L	5.0	1	02/21/25 01:00	02/21/25 13:29	7440-23-5	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Molybdenum	ND	mg/L	0.0010	1	03/05/25 02:05	03/05/25 21:03	7439-98-7	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville							
Alkalinity,Bicarbonate (CaCO3)	**21.6**	mg/L	5.0	1		02/24/25 22:29		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1		02/24/25 22:29		
Alkalinity, Total as CaCO3	**21.6**	mg/L	5.0	1		02/24/25 22:29		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville							
Total Dissolved Solids	**76.0**	mg/L	25.0	1		02/22/25 12:39		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville							
Chloride	ND	mg/L	1.0	1		02/19/25 23:56	16887-00-6	
Fluoride	ND	mg/L	0.10	1		02/19/25 23:56	16984-48-8	
Sulfate	**6.2**	mg/L	1.0	1		02/19/25 23:56	14808-79-8	

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QUALITY CONTROL DATA

Project: Plant Hammond-CCR Ash Pond
Pace Project No.: 92780426

QC Batch: 917648
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92780426001, 92780426002

METHOD BLANK: 4716427 Matrix: Water
Associated Lab Samples: 92780426001, 92780426002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Boron	mg/L	ND	0.050	02/21/25 13:01	
Calcium	mg/L	ND	0.10	02/21/25 13:01	
Magnesium	mg/L	ND	0.10	02/21/25 13:01	
Potassium	mg/L	ND	5.0	02/21/25 13:01	
Sodium	mg/L	ND	5.0	02/21/25 13:01	

LABORATORY CONTROL SAMPLE: 4716428

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	mg/L	0.5	0.50	100	80-120	
Calcium	mg/L	5	4.9	99	80-120	
Magnesium	mg/L	5	4.8	96	80-120	
Potassium	mg/L	5	4.9J	97	80-120	
Sodium	mg/L	5	ND	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4716429 4716430

Parameter	Units	92780426001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron	mg/L	ND	0.5	0.5	0.55	0.55	105	106	75-125	0	20	
Calcium	mg/L	6.6	5	5	11.7	11.5	100	97	75-125	1	20	
Magnesium	mg/L	1.6	5	5	6.8	6.8	103	103	75-125	0	20	
Potassium	mg/L	ND	5	5	6.2	6.1	104	103	75-125	1	20	
Sodium	mg/L	ND	5	5	6.5	6.4	104	103	75-125	1	20	

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QUALITY CONTROL DATA

Project: Plant Hammond-CCR Ash Pond
Pace Project No.: 92780426

QC Batch: 920025
QC Batch Method: EPA 3010A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92780426001, 92780426002

METHOD BLANK: 4727577 Matrix: Water
Associated Lab Samples: 92780426001, 92780426002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Molybdenum	mg/L	ND	0.0010	03/05/25 20:36	

LABORATORY CONTROL SAMPLE: 4727578

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Molybdenum	mg/L	0.05	0.051	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4727579 4727580

Parameter	Units	92780426001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Molybdenum	mg/L	ND	0.05	0.05	0.050	0.050	99	100	75-125	1	20	

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QUALITY CONTROL DATA

Project: Plant Hammond-CCR Ash Pond
Pace Project No.: 92780426

QC Batch: 918109
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92780426001, 92780426002

METHOD BLANK: 4718509 Matrix: Water
Associated Lab Samples: 92780426001, 92780426002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	02/24/25 19:40	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	02/24/25 19:40	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	02/24/25 19:40	

LABORATORY CONTROL SAMPLE: 4718510

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.6	101	80-120	

LABORATORY CONTROL SAMPLE: 4718511

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.9	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4718512 4718513

Parameter	Units	92779769001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	75.8	50	50	124	123	96	95	80-120	0	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4718514 4718515

Parameter	Units	92779769002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	65.5	50	50	114	114	96	97	80-120	0	25	

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QUALITY CONTROL DATA

Project: Plant Hammond-CCR Ash Pond
Pace Project No.: 92780426

QC Batch: 917868
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92780426001, 92780426002

METHOD BLANK: 4717701 Matrix: Water
Associated Lab Samples: 92780426001, 92780426002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	02/22/25 12:38	

LABORATORY CONTROL SAMPLE: 4717702

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	248	99	90-110	

SAMPLE DUPLICATE: 4717703

Parameter	Units	92780908011 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	73.0	69.0	6	25	

SAMPLE DUPLICATE: 4717704

Parameter	Units	92780424002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	52.0	50.0	4	25	

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QUALITY CONTROL DATA

Project: Plant Hammond-CCR Ash Pond
Pace Project No.: 92780426

QC Batch: 917316
QC Batch Method: EPA 9056A
Analysis Method: EPA 9056A
Analysis Description: 9056 IC anions 28 Days
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92780426001, 92780426002

METHOD BLANK: 4714729 Matrix: Water
Associated Lab Samples: 92780426001, 92780426002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	02/19/25 21:33	
Fluoride	mg/L	ND	0.10	02/19/25 21:33	
Sulfate	mg/L	ND	1.0	02/19/25 21:33	

LABORATORY CONTROL SAMPLE: 4714730

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.4	99	90-110	
Fluoride	mg/L	2.5	2.4	95	90-110	
Sulfate	mg/L	50	47.2	94	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4714731 4714732

Parameter	Units	92780426001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	ND	50	50	52.5	53.6	103	105	90-110	2	10	
Fluoride	mg/L	ND	2.5	2.5	2.5	2.5	98	100	90-110	2	10	
Sulfate	mg/L	5.9	50	50	55.2	56.4	99	101	90-110	2	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4714733 4714734

Parameter	Units	92780627003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	58.7	50	50	93.8	97.3	70	77	90-110	4	10	M1
Fluoride	mg/L	0.14	2.5	2.5	2.6	2.8	99	105	90-110	6	10	
Sulfate	mg/L	250	50	50	288	292	76	83	90-110	1	10	M1

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QUALIFIERS

Project: Plant Hammond-CCR Ash Pond
Pace Project No.: 92780426

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Hammond-CCR Ash Pond
Pace Project No.: 92780426

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92780426001	**HAM-H-SCC-NBR**	EPA 3010A	917648	EPA 6010D	917660
92780426002	**HAM-H-SCC**	EPA 3010A	917648	EPA 6010D	917660
92780426001	**HAM-H-SCC-NBR**	EPA 3010A	920025	EPA 6020B	920046
92780426002	**HAM-H-SCC**	EPA 3010A	920025	EPA 6020B	920046
92780426001	**HAM-H-SCC-NBR**	SM 2320B-2011	918109		
92780426002	**HAM-H-SCC**	SM 2320B-2011	918109		
92780426001	**HAM-H-SCC-NBR**	SM 2540C-2015	917868		
92780426002	**HAM-H-SCC**	SM 2540C-2015	917868		
92780426001	**HAM-H-SCC-NBR**	EPA 9056A	917316		
92780426002	**HAM-H-SCC**	EPA 9056A	917316		

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Pace® Location Requested (City/State):
Pace Analytical Peachtree Corners
110 Technology Pkwy, Peachtree Corners, GA 30092

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

WO# : 92780426

92780426

Company Name:	ARCADIS US, Inc. - Atlanta	Contact/Report To:	Priya Jacob
Street Address:	2839 Paces Ferry Rd STE 900 Atlanta, GA 30339	Phone #:	(618)790-6528
		E-Mail:	priya.jacob@arcadis.com
		Cc E-Mail:	Arcadis-Atl + GA Power Distribution List
Customer Project #:			
Project Name:	Plant Hammond/CCR-Ash Pond Closure	Invoice To:	Accounts Payable
		Invoice E-Mail:	georgiapowerinvoices@southernco.com
Site Collection Info/Facility ID (as applicable):	AP-1	Purchase Order # (if applicable):	GPC82474-0001
		Quote #:	
Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [ ] ET		County / State origin of sample(s):	Georgia
Data Deliverables: [ ] Level II [ ] Level III [ ] Level IV [ ] EQUIS [ ] Other		Regulatory Program (DW, RCRA, etc.) as applicable:	Reportable [ ] Yes [ ] No
		Rush (Pre-approval required): [ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day [ ] Other _____	DW PWSID # or WW Permit # as applicable:
		Date Results Requested: 5 Day TAT	Field Filtered (if applicable): [ ] Yes [ ] No Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Specify Container Size **

Identify Container Preservative Type***

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) 90mL, (10) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only: Proj. Mgr: Maiya Parks; AcctNum / Client ID:; Table #:; Profile / Template: 12590; Prelog / Bottle Ord. ID: EZ 3227736

Customer Sample ID	Matrix *	Comp / Grab	Composite Start Date	Composite Start Time	Collected or Composite End Date	Collected or Composite End Time	# Cont.	Res. Chlorine Results	Res. Chlorine Units	App. IV Metals - Mo only	App. III Metals - B, Ca	Metals - K, Mg, Na	Alkalinity (Total/Bicarb), Cl, F, SO4	TDS	Sample Comment	Preservation non-conformance identified for sample
HAM-H-SCC-NBR	WS	G	2/17/25	1215			3			X	X	X	X	X		
HAM-H-SCC	WS	G	2/17/25	1153			3			X	X	X	X	X		

Additional Instructions from Pace*:
HAM-CSURF-ASSMT-2025S1

Collected By: (Printed Name) Cignatt G.
Signature:

Customer Remarks / Special Conditions / Possible Hazards:

Coolers: | Thermometer ID: | Correction Factor (°C): | Obs. Temp. (°C) | Corrected Temp. (°C) | On Ice:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
Arcadis	2/18/25 1546		2/18/25 1546	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Delivered by: [ ] In- Person [ ] Courier [ ] FedEX [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: 1 of 1

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

Pace ANALYTICAL SERVICES

DC#_Title: ENV-FRM-HUNT-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Arcadis

Project #: WO#: 92780426

PM: MP Due Date: 02/26/25

CLIENT: GA-ArcadAtl

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Commercial ☐ Pace ☐ Other:____

Custody Seal Present? ☑ Yes ☐ No Seals Intact? ☑ Yes ☐ No ☐ N/A

Date/Initials Person Examining Contents: 2/18/25 MW

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☐ IR Gun ID: 214

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 4.6 Correction Factor: Add/Subtract (°C) 0

Temp should be above freezing to 6°C

☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 4.6

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☑ No	☐ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: WS				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

Pace ANALYTICAL SERVICES

DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

WO#: 92780426

PM: MP Due Date: 02/26/25

CLIENT: GA-ArcadAtl

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Project #

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Client Arcadis Profile/EZ (Circle one) 322773 Notes

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)		BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
CC																														
1			2				1 ✓																							
2			2				1																							
3																														
4																														
5																														
6																														
7																														
8																														
9																														
10																														
11																														
12																														

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers.

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

March 06, 2025

Ben Hodges
Southern Company

,

RE: Project: Plant Hammond-CCR Ash Pond
Pace Project No.: 92780429

Dear Ben Hodges:

Enclosed are the analytical results for sample(s) received by the laboratory on February 18, 2025. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Asheville

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Maiya Parks
maiya.parks@pacelabs.com
770-734-4205
Project Manager

Enclosures

cc: Jordan Gamble, ARCADIS US, Inc. - Atlanta
Christine Hug, Geosyntec Consultants, Inc.
Priya Jacob, ARCADIS US, Inc. - Atlanta
Allison Keefer, Southern Company
Laura Midkiff, Southern Company
Caroline Nelson, Geosyntec Consultants, Inc
Noelia Muskus Ruiz, Georgia Power
Tina Sullivan, ERM

REPORT OF LABORATORY ANALYSIS

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110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

CERTIFICATIONS

Project: Plant Hammond-CCR Ash Pond
Pace Project No.: 92780429

Pace Analytical Services Asheville
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Laboratory ID: 99030
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

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SAMPLE SUMMARY

Project: Plant Hammond-CCR Ash Pond
Pace Project No.: 92780429

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92780429001	**HAM-H+0.25**	Water	02/17/25 11:12	02/18/25 15:46

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SAMPLE ANALYTE COUNT

Project: Plant Hammond-CCR Ash Pond
Pace Project No.: 92780429

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92780429001	**HAM-H+0.25**	EPA 6010D	DBB1	5	PASI-A
		EPA 6020B	DBB1	2	PASI-A
		SM 2320B-2011	YEG	3	PASI-A
		SM 2540C-2015	CDM	1	PASI-A
		EPA 9056A	JCM	3	PASI-A

PASI-A = Pace Analytical Services - Asheville

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ANALYTICAL RESULTS

Project: Plant Hammond-CCR Ash Pond
Pace Project No.: 92780429

Sample: HAM-H+0.25 **Lab ID: 92780429001** Collected: 02/17/25 11:12 Received: 02/18/25 15:46 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Boron	ND	mg/L	0.050	1	02/21/25 01:00	02/21/25 13:32	7440-42-8	
Calcium	**11.9**	mg/L	0.10	1	02/21/25 01:00	02/21/25 13:32	7440-70-2	
Magnesium	**2.9**	mg/L	0.10	1	02/21/25 01:00	02/21/25 13:32	7439-95-4	
Potassium	ND	mg/L	5.0	1	02/21/25 01:00	02/21/25 13:32	7440-09-7	
Sodium	ND	mg/L	5.0	1	02/21/25 01:00	02/21/25 13:32	7440-23-5	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3010A Pace Analytical Services - Asheville							
Cobalt	**0.0011**	mg/L	0.0010	1	03/05/25 02:05	03/05/25 21:14	7440-48-4	
Molybdenum	ND	mg/L	0.0010	1	03/05/25 02:05	03/05/25 21:14	7439-98-7	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville							
Alkalinity,Bicarbonate (CaCO3)	**35.1**	mg/L	5.0	1		02/24/25 22:34		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1		02/24/25 22:34		
Alkalinity, Total as CaCO3	**35.1**	mg/L	5.0	1		02/24/25 22:34		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville							
Total Dissolved Solids	**82.0**	mg/L	25.0	1		02/22/25 12:40		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville							
Chloride	**2.9**	mg/L	1.0	1		02/20/25 00:40	16887-00-6	
Fluoride	ND	mg/L	0.10	1		02/20/25 00:40	16984-48-8	
Sulfate	**4.4**	mg/L	1.0	1		02/20/25 00:40	14808-79-8	

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QUALITY CONTROL DATA

Project: Plant Hammond-CCR Ash Pond
Pace Project No.: 92780429

QC Batch: 917648
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92780429001

METHOD BLANK: 4716427 Matrix: Water
Associated Lab Samples: 92780429001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Boron	mg/L	ND	0.050	02/21/25 13:01	
Calcium	mg/L	ND	0.10	02/21/25 13:01	
Magnesium	mg/L	ND	0.10	02/21/25 13:01	
Potassium	mg/L	ND	5.0	02/21/25 13:01	
Sodium	mg/L	ND	5.0	02/21/25 13:01	

LABORATORY CONTROL SAMPLE: 4716428

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	mg/L	0.5	0.50	100	80-120	
Calcium	mg/L	5	4.9	99	80-120	
Magnesium	mg/L	5	4.8	96	80-120	
Potassium	mg/L	5	4.9J	97	80-120	
Sodium	mg/L	5	ND	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4716429 4716430

Parameter	Units	92780426001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron	mg/L	ND	0.5	0.5	0.55	0.55	105	106	75-125	0	20	
Calcium	mg/L	6.6	5	5	11.7	11.5	100	97	75-125	1	20	
Magnesium	mg/L	1.6	5	5	6.8	6.8	103	103	75-125	0	20	
Potassium	mg/L	ND	5	5	6.2	6.1	104	103	75-125	1	20	
Sodium	mg/L	ND	5	5	6.5	6.4	104	103	75-125	1	20	

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QUALITY CONTROL DATA

Project: Plant Hammond-CCR Ash Pond
Pace Project No.: 92780429

QC Batch: 920025
QC Batch Method: EPA 3010A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92780429001

METHOD BLANK: 4727577 Matrix: Water
Associated Lab Samples: 92780429001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cobalt	mg/L	ND	0.0010	03/05/25 20:36	
Molybdenum	mg/L	ND	0.0010	03/05/25 20:36	

LABORATORY CONTROL SAMPLE: 4727578

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cobalt	mg/L	0.05	0.051	101	80-120	
Molybdenum	mg/L	0.05	0.051	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4727579 4727580

Parameter	Units	92780426001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cobalt	mg/L	ND	0.05	0.05	0.052	0.049	103	98	75-125	5	20	
Molybdenum	mg/L	ND	0.05	0.05	0.050	0.050	99	100	75-125	1	20	

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QUALITY CONTROL DATA

Project: Plant Hammond-CCR Ash Pond
Pace Project No.: 92780429

QC Batch: 918109
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92780429001

METHOD BLANK: 4718509 Matrix: Water
Associated Lab Samples: 92780429001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	02/24/25 19:40	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	02/24/25 19:40	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	02/24/25 19:40	

LABORATORY CONTROL SAMPLE: 4718510

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.6	101	80-120	

LABORATORY CONTROL SAMPLE: 4718511

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.9	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4718512 4718513

Parameter	Units	92779769001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	75.8	50	50	124	123	96	95	80-120	0	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4718514 4718515

Parameter	Units	92779769002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	65.5	50	50	114	114	96	97	80-120	0	25	

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QUALITY CONTROL DATA

Project: Plant Hammond-CCR Ash Pond
Pace Project No.: 92780429

QC Batch: 917868
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92780429001

METHOD BLANK: 4717701 Matrix: Water
Associated Lab Samples: 92780429001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	02/22/25 12:38	

LABORATORY CONTROL SAMPLE: 4717702

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	248	99	90-110	

SAMPLE DUPLICATE: 4717703

Parameter	Units	92780908011 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	73.0	69.0	6	25	

SAMPLE DUPLICATE: 4717704

Parameter	Units	92780424002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	52.0	50.0	4	25	

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QUALITY CONTROL DATA

Project: Plant Hammond-CCR Ash Pond
Pace Project No.: 92780429

QC Batch: 917316
QC Batch Method: EPA 9056A
Analysis Method: EPA 9056A
Analysis Description: 9056 IC anions 28 Days
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92780429001

METHOD BLANK: 4714729 Matrix: Water
Associated Lab Samples: 92780429001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	02/19/25 21:33	
Fluoride	mg/L	ND	0.10	02/19/25 21:33	
Sulfate	mg/L	ND	1.0	02/19/25 21:33	

LABORATORY CONTROL SAMPLE: 4714730

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.4	99	90-110	
Fluoride	mg/L	2.5	2.4	95	90-110	
Sulfate	mg/L	50	47.2	94	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4714731 4714732

Parameter	Units	92780426001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	ND	50	50	52.5	53.6	103	105	90-110	2	10	
Fluoride	mg/L	ND	2.5	2.5	2.5	2.5	98	100	90-110	2	10	
Sulfate	mg/L	5.9	50	50	55.2	56.4	99	101	90-110	2	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4714733 4714734

Parameter	Units	92780627003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	58.7	50	50	93.8	97.3	70	77	90-110	4	10	M1
Fluoride	mg/L	0.14	2.5	2.5	2.6	2.8	99	105	90-110	6	10	
Sulfate	mg/L	250	50	50	288	292	76	83	90-110	1	10	M1

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QUALIFIERS

Project: Plant Hammond-CCR Ash Pond
Pace Project No.: 92780429

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Hammond-CCR Ash Pond
Pace Project No.: 92780429

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92780429001	**HAM-H+0.25**	EPA 3010A	917648	EPA 6010D	917660
92780429001	**HAM-H+0.25**	EPA 3010A	920025	EPA 6020B	920046
92780429001	**HAM-H+0.25**	SM 2320B-2011	918109		
92780429001	**HAM-H+0.25**	SM 2540C-2015	917868		
92780429001	**HAM-H+0.25**	EPA 9056A	917316		

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Pace® Location Requested (City/State):
Pace Analytical Peachtree Corners
110 Technology Pkwy, Peachtree Corners, GA 30092

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

WO# : 92780429

92780429

Company Name:	ARCADIS US, Inc. - Atlanta	Contact/Report To:	Priya Jacob
Street Address:	2839 Paces Ferry Rd STE 900 Atlanta, GA 30339	Phone #:	(618)790-6528
		E-Mail:	priya.jacob@arcadis.com
		Cc E-Mail:	Arcadis-Atl + GA Power Distribution List
Customer Project #:		Invoice To:	Accounts Payable
Project Name:	Plant Hammond/CCR-Ash Pond Closure	Invoice E-Mail:	georgiapowerinvoices@southernco.com
Site Collection Info/Facility ID (as applicable):	AP-1/AP-2	Purchase Order # (if applicable):	GPC82474-0001
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [ ] ET

County / State origin of sample(s): Georgia

Data Deliverables:
[ ] Level II [ ] Level III [ ] Level IV
[ ] EQUIS
[ ] Other _____

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [ ] No

Rush (Pre-approval required):
[ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day [ ] Other _____

DW PWSID # or WW Permit # as applicable:

Date Results Requested: 5 Day TAT

Field Filtered (if applicable): [ ] Yes [ ] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Composite Start Date	Composite Start Time	Collected or Composite End Date	Collected or Composite End Time	# Cont.	Res. Chlorine Results	Res. Chlorine Units	App. IV Metals - Co, Mo only	App. III Metals - B, Ca	Metals - K, Mg, Na	Alkalinity (Total/Bicarb), Cl, F, SO4	TDS						Sample Comment	Preservation non-conformance identified for sample:
HAM-H+0.25	WS	G	2/17/25	1112			3			X	X	X	X	X	X						

Specify Container Size **

Identify Container Preservative Type***

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) 90mL, (10) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only

Proj. Mgr: Maiya Parks

AcctNum / Client ID:

Table #:

Profile / Template: 12590

Prelog / Bottle Ord. ID: EZ 3227736

Additional Instructions from Pace®:
HAM-CSURF-ASSMT-2025S1

Collected By:
(Printed Name) Garrett G
Signature:

Customer Remarks / Special Conditions / Possible Hazards:

Coolers: Thermometer ID: Correction Factor (°C): Obs. Temp. (°C) Corrected Temp. (°C) On Ice:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
Arcadis	2/18/25 1546		2/18/25 1546	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Delivered by: [ ] In-Person [ ] Courier
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	[ ] FedEX [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: 1 of 1

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

Pace ANALYTICAL SERVICES

DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Arcadis

Project #:

WO#: 92780429

PM: MP Due Date: 02/26/25

CLIENT: GA-ArcadAtl

Courier: ☐ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Pace ☐ Other:____

Custody Seal Present? ☑ Yes ☐ No Seals Intact? ☑ Yes ☐ No ☐ N/A

Date/Initials Person Examining Contents: 2/18/25 MW

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☐ IR Gun ID: 214

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 4.6 Correction Factor: Add/Subtract (°C) 0

Temp should be above freezing to 6°C

☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 4.6

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☑ No	☐ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: WS				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

WO#: 92780429

PM: MP Due Date: 02/26/25

CLIENT: GA-ArcadAtl

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Proje

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Client Arcadis Profile/EZ (Circle one) 322773 6 Notes

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)		BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
CC																													
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12																													

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

ote: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. ut of hold, incorrect preservative, out of temp, incorrect containers.

AUGUST 2025

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

September 10, 2025

Kristen Jurinko
Southern Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, GA 30308

RE: Project: Plant Hammond-Upgradient
Pace Project No.: 92817686

Dear Kristen Jurinko:

Enclosed are the analytical results for sample(s) received by the laboratory on August 06, 2025. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace National - Mt. Juliet
- Pace Analytical Services - Asheville
- Pace Analytical Services - West Columbia

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Bonnie Vang
bonnie.vang@pacelabs.com
704-977-0968
Project Manager

Enclosures

cc: Kip Gray, Geosyntec
Christine Hug, Geosyntec Consultants, Inc.
Thomas Kessler, Geosyntec Consultants
Whitney Law, Geosyntec Consultants
Laura Midkiff, Southern Company
Caroline Nelson, Geosyntec Consultants, Inc
Jamie Newsome, Geosyntec Consultants
Amanda Tomlinson, Geosyntec Consultants
Zain Webb, Geosyntec Consultants

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: Plant Hammond-Upgradient
Pace Project No.: 92817686

Pace Analytical Services National

12065 Lebanon Road, Mt. Juliet, TN 37122
Alabama Certification #: 40660
Alaska Certification 17-026
Arizona Certification #: AZ0612
Arkansas Certification #: 88-0469
California Certification #: 2932
Canada Certification #: 1461.01
Colorado Certification #: TN00003
Connecticut Certification #: PH-0197
DOD Certification: #1461.01
EPA# TN00003
Florida Certification #: E87487
Georgia DW Certification #: 923
Georgia Certification: NELAP
Idaho Certification #: TN00003
Illinois Certification #: 200008
Indiana Certification #: C-TN-01
Iowa Certification #: 364
Kansas Certification #: E-10277
Kentucky UST Certification #: 16
Kentucky Certification #: 90010
Louisiana Certification #: AI30792
Louisiana DW Certification #: LA180010
Maine Certification #: TN0002
Maryland Certification #: 324
Massachusetts Certification #: M-TN003
Michigan Certification #: 9958
Minnesota Certification #: 047-999-395
Mississippi Certification #: TN00003
Missouri Certification #: 340
Montana Certification #: CERT0086
Nebraska Certification #: NE-OS-15-05
Nevada Certification #: TN-03-2002-34
New Hampshire Certification #: 2975
New Jersey Certification #: TN002
New Mexico DW Certification
New York Certification #: 11742
North Carolina Aquatic Toxicity Certification #: 41
North Carolina Drinking Water Certification #: 21704
North Carolina Environmental Certificate #: 375
North Dakota Certification #: R-140
Ohio VAP Certification #: CL0069
Oklahoma Certification #: 9915
Oregon Certification #: TN200002
Pennsylvania Certification #: 68-02979
Rhode Island Certification #: LAO00356
South Carolina Certification #: 84004
South Dakota Certification
Tennessee DW/Chem/Micro Certification #: 2006
Texas Certification #: T 104704245-17-14
Texas Mold Certification #: LAB0152
USDA Soil Permit #: P330-15-00234
Utah Certification #: TN00003
Virginia Certification #: VT2006
Vermont Dept. of Health: ID# VT-2006
Virginia Certification #: 460132
Washington Certification #: C847
West Virginia Certification #: 233
Wisconsin Certification #: 998093910
Wyoming UST Certification #: via A2LA 2926.01
A2LA-ISO 17025 Certification #: 1461.01
A2LA-ISO 17025 Certification #: 1461.02
AIHA-LAP/LLC EMLAP Certification #:100789

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Laboratory ID: 99030
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services West Columbia

106 Vantage Point Drive, West Columbia, SC 29172
Alaska Dept. of Energy Conservation, Cert# 20-002
California ELAP, cert# 3049
DoD, DoD QSM V5.4, cert# I.2224
DOE, DoD/DOE QSM V5.4, cert# I.2224.01
Florida, Dept. of Health, cert# E87653-70
Georgia, Env. Protection Division, cert# E87653
Illinois, EPA NELAP, cert# 2000552024-9
Kansas, Dept. of Health and Environment, cert# E-10417
Kentucky, Dept. for Env. Protection, UST, cert# 103582
Kentucky, Dept. for Env. Protection, cert# 98037
Louisiana, Dept. of Environmental Quality, cert# 5125
North Carolina, DEQ, Water Resources, cert# 329
New Jersey, Dept. of Env. Protection, cert# NLC 240005
Oklahoma, Dept. of Env. Quality, cert# 2023-175
Oregon, ELAP, cert# 4181-006
Pennsylvania, Dept. of Env. Protection, cert# 003
South Carolina, Dept. of Env. Services, cert# 32010001
Texas, Commission on Env. Quality, cert# TX-C24-00083
Virginia, Dept. of General Services, cert# 13080
Wisconsin, Dept. of Natural Resources, cert# 399136100

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE SUMMARY

Project: Plant Hammond-Upgradient
Pace Project No.: 92817686

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92811471001	**HAM-HGWA-1**	Water	08/05/25 13:49	08/06/25 15:50
92811471002	**HAM-HGWA-2**	Water	08/05/25 12:50	08/06/25 15:50
92811471003	**HAM-HGWA-3**	Water	08/05/25 13:55	08/06/25 15:50
92811471004	**HAM-HGWA-43D**	Water	08/05/25 12:09	08/06/25 15:50
92811471005	**HAM-HGWA-44D**	Water	08/05/25 10:35	08/06/25 15:50
92811471006	**HAM-UGRD-FD-01**	Water	08/05/25 00:00	08/06/25 15:50
92811471007	**HAM-UGRD-EB-01**	Water	08/05/25 16:55	08/06/25 15:50
92811471008	**HAM-UGRD-FB-01**	Water	08/05/25 17:05	08/06/25 15:50

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SAMPLE ANALYTE COUNT

Project: Plant Hammond-Upgradient
Pace Project No.: 92817686

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92811471001	**HAM-HGWA-1**	EPA 6020B	JPD	1	PAN
		SM 2540C-2020	CDM	1	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6020B	BW	13	PASI-WC
		EPA 7470A	KAJ1	1	PASI-WC
92811471002	**HAM-HGWA-2**	EPA 6020B	JPD	1	PAN
		SM 2540C-2020	CDM	1	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6020B	BW	13	PASI-WC
		EPA 7470A	KAJ1	1	PASI-WC
92811471003	**HAM-HGWA-3**	EPA 6020B	JPD	1	PAN
		SM 2540C-2020	CDM	1	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6020B	BW	13	PASI-WC
		EPA 7470A	KAJ1	1	PASI-WC
92811471004	**HAM-HGWA-43D**	EPA 6020B	JPD	1	PAN
		SM 2540C-2020	CDM	1	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6020B	BW	13	PASI-WC
		EPA 7470A	KAJ1	1	PASI-WC
92811471005	**HAM-HGWA-44D**	EPA 6020B	JPD	1	PAN
		SM 2540C-2020	CDM	1	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6020B	BW	13	PASI-WC
		EPA 7470A	KAJ1	1	PASI-WC
92811471006	**HAM-UGRD-FD-01**	EPA 6020B	JPD	1	PAN
		SM 2540C-2020	CDM	1	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6020B	BW	13	PASI-WC
		EPA 7470A	KAJ1	1	PASI-WC
92811471007	**HAM-UGRD-EB-01**	EPA 6020B	JPD	1	PAN
		SM 2540C-2020	CDM	1	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6020B	BW	13	PASI-WC
		EPA 7470A	KAJ1	1	PASI-WC
92811471008	**HAM-UGRD-FB-01**	EPA 6020B	JPD	1	PAN
		SM 2540C-2020	CDM	1	PASI-A

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SAMPLE ANALYTE COUNT

Project: Plant Hammond-Upgradient
Pace Project No.: 92817686

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6020B	BW	13	PASI-WC
		EPA 7470A	KAJ1	1	PASI-WC

PAN = Pace National - Mt. Juliet
PASI-A = Pace Analytical Services - Asheville
PASI-WC = Pace Analytical Services - West Columbia

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
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SUMMARY OF DETECTION

Project: Plant Hammond-Upgradient
Pace Project No.: 92817686

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92811471001	**HAM-HGWA-1**					
EPA 6020B	Lithium	0.00116J	mg/L	0.00200	08/27/25 17:25	J
SM 2540C-2020	Total Dissolved Solids	416	mg/L	25.0	08/09/25 15:39	
EPA 300.0 Rev 2.1 1993	Chloride	17.2	mg/L	1.0	08/08/25 00:27	
EPA 300.0 Rev 2.1 1993	Fluoride	0.055J	mg/L	0.10	08/08/25 00:27	M1, R1
EPA 300.0 Rev 2.1 1993	Sulfate	57.6	mg/L	1.0	08/08/25 00:27	M1
EPA 6020B	Barium	0.033	mg/L	0.0050	08/13/25 20:01	
EPA 6020B	Boron	0.019J	mg/L	0.040	08/13/25 20:01	
EPA 6020B	Calcium	113	mg/L	2.0	08/14/25 05:00	
92811471002	**HAM-HGWA-2**					
EPA 6020B	Lithium	0.00260	mg/L	0.00200	08/27/25 17:29	
SM 2540C-2020	Total Dissolved Solids	160	mg/L	25.0	08/09/25 15:39	
EPA 300.0 Rev 2.1 1993	Chloride	9.6	mg/L	1.0	08/08/25 01:41	
EPA 300.0 Rev 2.1 1993	Sulfate	74.0	mg/L	1.0	08/08/25 01:41	
EPA 6020B	Barium	0.053	mg/L	0.0050	08/13/25 20:10	
EPA 6020B	Beryllium	0.00026J	mg/L	0.00040	08/13/25 20:10	
EPA 6020B	Boron	0.044	mg/L	0.040	08/13/25 20:10	
EPA 6020B	Cadmium	0.00022J	mg/L	0.00050	08/13/25 20:10	
EPA 6020B	Calcium	24.1	mg/L	0.40	08/13/25 20:10	
EPA 6020B	Cobalt	0.030	mg/L	0.0050	08/13/25 20:10	
92811471003	**HAM-HGWA-3**					
EPA 6020B	Lithium	0.00374	mg/L	0.00200	08/27/25 17:32	
SM 2540C-2020	Total Dissolved Solids	265	mg/L	25.0	08/09/25 15:39	
EPA 300.0 Rev 2.1 1993	Chloride	5.5	mg/L	1.0	08/08/25 01:56	
EPA 300.0 Rev 2.1 1993	Sulfate	24.9	mg/L	1.0	08/08/25 01:56	
EPA 6020B	Barium	0.11	mg/L	0.0050	08/13/25 20:19	
EPA 6020B	Boron	0.0090J	mg/L	0.040	08/13/25 20:19	
EPA 6020B	Calcium	72.6	mg/L	2.0	08/14/25 05:09	
EPA 6020B	Lead	0.00030J	mg/L	0.0010	08/13/25 20:19	
92811471004	**HAM-HGWA-43D**					
EPA 6020B	Lithium	0.00308	mg/L	0.00200	08/27/25 17:35	
SM 2540C-2020	Total Dissolved Solids	282	mg/L	25.0	08/09/25 15:41	
EPA 300.0 Rev 2.1 1993	Chloride	4.0	mg/L	1.0	08/08/25 02:11	
EPA 300.0 Rev 2.1 1993	Fluoride	0.16	mg/L	0.10	08/08/25 02:11	
EPA 300.0 Rev 2.1 1993	Sulfate	22.4	mg/L	1.0	08/08/25 02:11	
EPA 6020B	Barium	0.27	mg/L	0.025	08/14/25 05:19	
EPA 6020B	Boron	0.039J	mg/L	0.040	08/13/25 20:29	
EPA 6020B	Calcium	55.2	mg/L	2.0	08/14/25 05:19	
92811471005	**HAM-HGWA-44D**					
EPA 6020B	Lithium	0.104	mg/L	0.00200	08/27/25 17:38	
SM 2540C-2020	Total Dissolved Solids	370	mg/L	25.0	08/09/25 15:41	
EPA 300.0 Rev 2.1 1993	Chloride	29.7	mg/L	1.0	08/08/25 02:26	
EPA 300.0 Rev 2.1 1993	Fluoride	0.87	mg/L	0.10	08/08/25 02:26	
EPA 300.0 Rev 2.1 1993	Sulfate	0.85J	mg/L	1.0	08/08/25 02:26	
EPA 6020B	Barium	0.092	mg/L	0.0050	08/13/25 20:38	
EPA 6020B	Boron	0.45	mg/L	0.20	08/14/25 05:28	

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SUMMARY OF DETECTION

Project: Plant Hammond-Upgradient
Pace Project No.: 92817686

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92811471005	**HAM-HGWA-44D**					
EPA 6020B	Calcium	6.0	mg/L	0.40	08/13/25 20:38	
92811471006	**HAM-UGRD-FD-01**					
EPA 6020B	Lithium	0.103	mg/L	0.00200	08/27/25 17:41	
SM 2540C-2020	Total Dissolved Solids	369	mg/L	25.0	08/09/25 15:41	
EPA 300.0 Rev 2.1 1993	Chloride	29.7	mg/L	1.0	08/08/25 02:41	
EPA 300.0 Rev 2.1 1993	Fluoride	0.84	mg/L	0.10	08/08/25 02:41	
EPA 300.0 Rev 2.1 1993	Sulfate	0.84J	mg/L	1.0	08/08/25 02:41	
EPA 6020B	Barium	0.10	mg/L	0.0050	08/13/25 20:47	
EPA 6020B	Boron	0.44	mg/L	0.20	08/14/25 05:37	
EPA 6020B	Calcium	6.4	mg/L	0.40	08/13/25 20:47	

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ANALYTICAL RESULTS

Project: Plant Hammond-Upgradient
Pace Project No.: 92817686

Sample: HAM-HGWA-1 **Lab ID: 92811471001** Collected: 08/05/25 13:49 Received: 08/06/25 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.00116J**	mg/L	0.00200	0.000600	1	08/13/25 12:05	08/27/25 17:25	7439-93-2	J
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2020 Pace Analytical Services - Asheville								
Total Dissolved Solids	**416**	mg/L	25.0	25.0	1		08/09/25 15:39		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**17.2**	mg/L	1.0	0.60	1		08/08/25 00:27	16887-00-6	
Fluoride	**0.055J**	mg/L	0.10	0.050	1		08/08/25 00:27	16984-48-8	M1,R1
Sulfate	**57.6**	mg/L	1.0	0.50	1		08/08/25 00:27	14808-79-8	M1
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0020	0.00050	1	08/11/25 20:04	08/13/25 20:01	7440-36-0	
Arsenic	ND	mg/L	0.0020	0.0012	1	08/11/25 20:04	08/13/25 20:01	7440-38-2	
Barium	**0.033**	mg/L	0.0050	0.0012	1	08/11/25 20:04	08/13/25 20:01	7440-39-3	
Beryllium	ND	mg/L	0.00040	0.00015	1	08/11/25 20:04	08/13/25 20:01	7440-41-7	
Boron	**0.019J**	mg/L	0.040	0.0062	1	08/11/25 20:04	08/13/25 20:01	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	08/11/25 20:04	08/13/25 20:01	7440-43-9	
Calcium	**113**	mg/L	2.0	0.50	5	08/11/25 20:04	08/14/25 05:00	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	08/11/25 20:04	08/13/25 20:01	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.0012	1	08/11/25 20:04	08/13/25 20:01	7440-48-4	
Lead	ND	mg/L	0.0010	0.00025	1	08/11/25 20:04	08/13/25 20:01	7439-92-1	
Molybdenum	ND	mg/L	0.010	0.0025	1	08/11/25 20:04	08/13/25 20:01	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0012	1	08/11/25 20:04	08/13/25 20:01	7782-49-2	
Thallium	ND	mg/L	0.00050	0.00015	1	08/11/25 20:04	08/13/25 20:01	7440-28-0	
WCOL 7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - West Columbia								
Mercury	ND	mg/L	0.00020	0.000091	1	08/08/25 19:02	08/12/25 12:24	7439-97-6	

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ANALYTICAL RESULTS

Project: Plant Hammond-Upgradient
Pace Project No.: 92817686

Sample: HAM-HGWA-2 **Lab ID: 92811471002** Collected: 08/05/25 12:50 Received: 08/06/25 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.00260**	mg/L	0.00200	0.000600	1	08/13/25 12:05	08/27/25 17:29	7439-93-2	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2020 Pace Analytical Services - Asheville								
Total Dissolved Solids	**160**	mg/L	25.0	25.0	1		08/09/25 15:39		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**9.6**	mg/L	1.0	0.60	1		08/08/25 01:41	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/08/25 01:41	16984-48-8	
Sulfate	**74.0**	mg/L	1.0	0.50	1		08/08/25 01:41	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0020	0.00050	1	08/11/25 20:04	08/13/25 20:10	7440-36-0	
Arsenic	ND	mg/L	0.0020	0.0012	1	08/11/25 20:04	08/13/25 20:10	7440-38-2	
Barium	**0.053**	mg/L	0.0050	0.0012	1	08/11/25 20:04	08/13/25 20:10	7440-39-3	
Beryllium	**0.00026J**	mg/L	0.00040	0.00015	1	08/11/25 20:04	08/13/25 20:10	7440-41-7	
Boron	**0.044**	mg/L	0.040	0.0062	1	08/11/25 20:04	08/13/25 20:10	7440-42-8	
Cadmium	**0.00022J**	mg/L	0.00050	0.00012	1	08/11/25 20:04	08/13/25 20:10	7440-43-9	
Calcium	**24.1**	mg/L	0.40	0.10	1	08/11/25 20:04	08/13/25 20:10	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	08/11/25 20:04	08/13/25 20:10	7440-47-3	
Cobalt	**0.030**	mg/L	0.0050	0.0012	1	08/11/25 20:04	08/13/25 20:10	7440-48-4	
Lead	ND	mg/L	0.0010	0.00025	1	08/11/25 20:04	08/13/25 20:10	7439-92-1	
Molybdenum	ND	mg/L	0.010	0.0025	1	08/11/25 20:04	08/13/25 20:10	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0012	1	08/11/25 20:04	08/13/25 20:10	7782-49-2	
Thallium	ND	mg/L	0.00050	0.00015	1	08/11/25 20:04	08/13/25 20:10	7440-28-0	
WCOL 7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - West Columbia								
Mercury	ND	mg/L	0.00020	0.000091	1	08/08/25 19:02	08/12/25 12:27	7439-97-6	

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ANALYTICAL RESULTS

Project: Plant Hammond-Upgradient
Pace Project No.: 92817686

Sample: HAM-HGWA-3 **Lab ID: 92811471003** Collected: 08/05/25 13:55 Received: 08/06/25 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.00374**	mg/L	0.00200	0.000600	1	08/13/25 12:05	08/27/25 17:32	7439-93-2	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2020 Pace Analytical Services - Asheville								
Total Dissolved Solids	**265**	mg/L	25.0	25.0	1		08/09/25 15:39		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**5.5**	mg/L	1.0	0.60	1		08/08/25 01:56	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/08/25 01:56	16984-48-8	
Sulfate	**24.9**	mg/L	1.0	0.50	1		08/08/25 01:56	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0020	0.00050	1	08/11/25 20:04	08/13/25 20:19	7440-36-0	
Arsenic	ND	mg/L	0.0020	0.0012	1	08/11/25 20:04	08/13/25 20:19	7440-38-2	
Barium	**0.11**	mg/L	0.0050	0.0012	1	08/11/25 20:04	08/13/25 20:19	7440-39-3	
Beryllium	ND	mg/L	0.00040	0.00015	1	08/11/25 20:04	08/13/25 20:19	7440-41-7	
Boron	**0.0090J**	mg/L	0.040	0.0062	1	08/11/25 20:04	08/13/25 20:19	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	08/11/25 20:04	08/13/25 20:19	7440-43-9	
Calcium	**72.6**	mg/L	2.0	0.50	5	08/11/25 20:04	08/14/25 05:09	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	08/11/25 20:04	08/13/25 20:19	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.0012	1	08/11/25 20:04	08/13/25 20:19	7440-48-4	
Lead	**0.00030J**	mg/L	0.0010	0.00025	1	08/11/25 20:04	08/13/25 20:19	7439-92-1	
Molybdenum	ND	mg/L	0.010	0.0025	1	08/11/25 20:04	08/13/25 20:19	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0012	1	08/11/25 20:04	08/13/25 20:19	7782-49-2	
Thallium	ND	mg/L	0.00050	0.00015	1	08/11/25 20:04	08/13/25 20:19	7440-28-0	
WCOL 7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - West Columbia								
Mercury	ND	mg/L	0.00020	0.000091	1	08/08/25 19:02	08/12/25 12:29	7439-97-6	

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ANALYTICAL RESULTS

Project: Plant Hammond-Upgradient
Pace Project No.: 92817686

Sample: HAM-HGWA-43D **Lab ID: 92811471004** Collected: 08/05/25 12:09 Received: 08/06/25 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.00308**	mg/L	0.00200	0.000600	1	08/13/25 12:05	08/27/25 17:35	7439-93-2	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2020 Pace Analytical Services - Asheville								
Total Dissolved Solids	**282**	mg/L	25.0	25.0	1		08/09/25 15:41		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**4.0**	mg/L	1.0	0.60	1		08/08/25 02:11	16887-00-6	
Fluoride	**0.16**	mg/L	0.10	0.050	1		08/08/25 02:11	16984-48-8	
Sulfate	**22.4**	mg/L	1.0	0.50	1		08/08/25 02:11	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0020	0.00050	1	08/11/25 20:04	08/13/25 20:29	7440-36-0	
Arsenic	ND	mg/L	0.0020	0.0012	1	08/11/25 20:04	08/13/25 20:29	7440-38-2	
Barium	**0.27**	mg/L	0.025	0.0062	5	08/11/25 20:04	08/14/25 05:19	7440-39-3	
Beryllium	ND	mg/L	0.00040	0.00015	1	08/11/25 20:04	08/13/25 20:29	7440-41-7	
Boron	**0.039J**	mg/L	0.040	0.0062	1	08/11/25 20:04	08/13/25 20:29	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	08/11/25 20:04	08/13/25 20:29	7440-43-9	
Calcium	**55.2**	mg/L	2.0	0.50	5	08/11/25 20:04	08/14/25 05:19	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	08/11/25 20:04	08/13/25 20:29	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.0012	1	08/11/25 20:04	08/13/25 20:29	7440-48-4	
Lead	ND	mg/L	0.0010	0.00025	1	08/11/25 20:04	08/13/25 20:29	7439-92-1	
Molybdenum	ND	mg/L	0.010	0.0025	1	08/11/25 20:04	08/13/25 20:29	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0012	1	08/11/25 20:04	08/13/25 20:29	7782-49-2	
Thallium	ND	mg/L	0.00050	0.00015	1	08/11/25 20:04	08/13/25 20:29	7440-28-0	
WCOL 7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - West Columbia								
Mercury	ND	mg/L	0.00020	0.000091	1	08/08/25 19:02	08/12/25 12:32	7439-97-6	

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ANALYTICAL RESULTS

Project: Plant Hammond-Upgradient
Pace Project No.: 92817686

Sample: HAM-HGWA-44D **Lab ID: 92811471005** Collected: 08/05/25 10:35 Received: 08/06/25 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.104**	mg/L	0.00200	0.000600	1	08/13/25 12:05	08/27/25 17:38	7439-93-2	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2020 Pace Analytical Services - Asheville								
Total Dissolved Solids	**370**	mg/L	25.0	25.0	1		08/09/25 15:41		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**29.7**	mg/L	1.0	0.60	1		08/08/25 02:26	16887-00-6	
Fluoride	**0.87**	mg/L	0.10	0.050	1		08/08/25 02:26	16984-48-8	
Sulfate	**0.85J**	mg/L	1.0	0.50	1		08/08/25 02:26	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0020	0.00050	1	08/11/25 20:04	08/13/25 20:38	7440-36-0	
Arsenic	ND	mg/L	0.0020	0.0012	1	08/11/25 20:04	08/13/25 20:38	7440-38-2	
Barium	**0.092**	mg/L	0.0050	0.0012	1	08/11/25 20:04	08/13/25 20:38	7440-39-3	
Beryllium	ND	mg/L	0.00040	0.00015	1	08/11/25 20:04	08/13/25 20:38	7440-41-7	
Boron	**0.45**	mg/L	0.20	0.031	5	08/11/25 20:04	08/14/25 05:28	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	08/11/25 20:04	08/13/25 20:38	7440-43-9	
Calcium	**6.0**	mg/L	0.40	0.10	1	08/11/25 20:04	08/13/25 20:38	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	08/11/25 20:04	08/13/25 20:38	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.0012	1	08/11/25 20:04	08/13/25 20:38	7440-48-4	
Lead	ND	mg/L	0.0010	0.00025	1	08/11/25 20:04	08/13/25 20:38	7439-92-1	
Molybdenum	ND	mg/L	0.010	0.0025	1	08/11/25 20:04	08/13/25 20:38	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0012	1	08/11/25 20:04	08/13/25 20:38	7782-49-2	
Thallium	ND	mg/L	0.00050	0.00015	1	08/11/25 20:04	08/13/25 20:38	7440-28-0	
WCOL 7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - West Columbia								
Mercury	ND	mg/L	0.00020	0.000091	1	08/08/25 19:02	08/12/25 12:34	7439-97-6	

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ANALYTICAL RESULTS

Project: Plant Hammond-Upgradient
Pace Project No.: 92817686

Sample: HAM-UGRD-FD-01 **Lab ID: 92811471006** Collected: 08/05/25 00:00 Received: 08/06/25 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.103**	mg/L	0.00200	0.000600	1	08/13/25 12:05	08/27/25 17:41	7439-93-2	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2020 Pace Analytical Services - Asheville								
Total Dissolved Solids	**369**	mg/L	25.0	25.0	1		08/09/25 15:41		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**29.7**	mg/L	1.0	0.60	1		08/08/25 02:41	16887-00-6	
Fluoride	**0.84**	mg/L	0.10	0.050	1		08/08/25 02:41	16984-48-8	
Sulfate	**0.84J**	mg/L	1.0	0.50	1		08/08/25 02:41	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0020	0.00050	1	08/11/25 20:04	08/13/25 20:47	7440-36-0	
Arsenic	ND	mg/L	0.0020	0.0012	1	08/11/25 20:04	08/13/25 20:47	7440-38-2	
Barium	**0.10**	mg/L	0.0050	0.0012	1	08/11/25 20:04	08/13/25 20:47	7440-39-3	
Beryllium	ND	mg/L	0.00040	0.00015	1	08/11/25 20:04	08/13/25 20:47	7440-41-7	
Boron	**0.44**	mg/L	0.20	0.031	5	08/11/25 20:04	08/14/25 05:37	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	08/11/25 20:04	08/13/25 20:47	7440-43-9	
Calcium	**6.4**	mg/L	0.40	0.10	1	08/11/25 20:04	08/13/25 20:47	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	08/11/25 20:04	08/13/25 20:47	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.0012	1	08/11/25 20:04	08/13/25 20:47	7440-48-4	
Lead	ND	mg/L	0.0010	0.00025	1	08/11/25 20:04	08/13/25 20:47	7439-92-1	
Molybdenum	ND	mg/L	0.010	0.0025	1	08/11/25 20:04	08/13/25 20:47	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0012	1	08/11/25 20:04	08/13/25 20:47	7782-49-2	
Thallium	ND	mg/L	0.00050	0.00015	1	08/11/25 20:04	08/13/25 20:47	7440-28-0	
WCOL 7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - West Columbia								
Mercury	ND	mg/L	0.00020	0.000091	1	08/08/25 19:02	08/12/25 12:37	7439-97-6	

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ANALYTICAL RESULTS

Project: Plant Hammond-Upgradient
Pace Project No.: 92817686

Sample: HAM-UGRD-EB-01 **Lab ID: 92811471007** Collected: 08/05/25 16:55 Received: 08/06/25 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	ND	mg/L	0.00200	0.000600	1	08/13/25 12:05	08/27/25 17:44	7439-93-2	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2020 Pace Analytical Services - Asheville								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		08/09/25 15:41		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		08/07/25 22:43	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/07/25 22:43	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		08/07/25 22:43	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0020	0.00050	1	08/11/25 20:04	08/13/25 20:57	7440-36-0	
Arsenic	ND	mg/L	0.0020	0.0012	1	08/11/25 20:04	08/13/25 20:57	7440-38-2	
Barium	ND	mg/L	0.0050	0.0012	1	08/11/25 20:04	08/13/25 20:57	7440-39-3	
Beryllium	ND	mg/L	0.00040	0.00015	1	08/11/25 20:04	08/13/25 20:57	7440-41-7	
Boron	ND	mg/L	0.040	0.0062	1	08/11/25 20:04	08/13/25 20:57	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	08/11/25 20:04	08/13/25 20:57	7440-43-9	
Calcium	ND	mg/L	0.40	0.10	1	08/11/25 20:04	08/13/25 20:57	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	08/11/25 20:04	08/13/25 20:57	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.0012	1	08/11/25 20:04	08/13/25 20:57	7440-48-4	
Lead	ND	mg/L	0.0010	0.00025	1	08/11/25 20:04	08/13/25 20:57	7439-92-1	
Molybdenum	ND	mg/L	0.010	0.0025	1	08/11/25 20:04	08/13/25 20:57	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0012	1	08/11/25 20:04	08/13/25 20:57	7782-49-2	
Thallium	ND	mg/L	0.00050	0.00015	1	08/11/25 20:04	08/13/25 20:57	7440-28-0	
WCOL 7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - West Columbia								
Mercury	ND	mg/L	0.00020	0.000091	1	08/08/25 19:02	08/12/25 12:39	7439-97-6	

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ANALYTICAL RESULTS

Project: Plant Hammond-Upgradient
Pace Project No.: 92817686

Sample: HAM-UGRD-FB-01 **Lab ID: 92811471008** Collected: 08/05/25 17:05 Received: 08/06/25 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	ND	mg/L	0.00200	0.000600	1	08/13/25 12:05	08/27/25 17:48	7439-93-2	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2020 Pace Analytical Services - Asheville								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		08/09/25 15:41		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		08/07/25 22:58	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/07/25 22:58	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		08/07/25 22:58	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0020	0.00050	1	08/11/25 20:04	08/13/25 21:06	7440-36-0	
Arsenic	ND	mg/L	0.0020	0.0012	1	08/11/25 20:04	08/13/25 21:06	7440-38-2	
Barium	ND	mg/L	0.0050	0.0012	1	08/11/25 20:04	08/13/25 21:06	7440-39-3	
Beryllium	ND	mg/L	0.00040	0.00015	1	08/11/25 20:04	08/13/25 21:06	7440-41-7	
Boron	ND	mg/L	0.040	0.0062	1	08/11/25 20:04	08/13/25 21:06	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	08/11/25 20:04	08/13/25 21:06	7440-43-9	
Calcium	ND	mg/L	0.40	0.10	1	08/11/25 20:04	08/13/25 21:06	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	08/11/25 20:04	08/13/25 21:06	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.0012	1	08/11/25 20:04	08/13/25 21:06	7440-48-4	
Lead	ND	mg/L	0.0010	0.00025	1	08/11/25 20:04	08/13/25 21:06	7439-92-1	
Molybdenum	ND	mg/L	0.010	0.0025	1	08/11/25 20:04	08/13/25 21:06	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0012	1	08/11/25 20:04	08/13/25 21:06	7782-49-2	
Thallium	ND	mg/L	0.00050	0.00015	1	08/11/25 20:04	08/13/25 21:06	7440-28-0	
WCOL 7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - West Columbia								
Mercury	ND	mg/L	0.00020	0.000091	1	08/08/25 19:02	08/12/25 12:47	7439-97-6	

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QUALITY CONTROL DATA

Project: Plant Hammond-Upgradient
Pace Project No.: 92817686

QC Batch: 2577199
QC Batch Method: 3015
Analysis Method: EPA 6020B
Analysis Description: Metals (ICPMS) 6020B
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 92811471001, 92811471002, 92811471003, 92811471004, 92811471005, 92811471006, 92811471007, 92811471008

METHOD BLANK: R4265034-1 Matrix: Water
Associated Lab Samples: 92811471001, 92811471002, 92811471003, 92811471004, 92811471005, 92811471006, 92811471007, 92811471008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lithium	mg/L	ND	0.00200	0.000600	08/27/25 16:50	

LABORATORY CONTROL SAMPLE: R4265034-2

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lithium	mg/L	0.0500	0.0505	101	80.0-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R4265034-4 R4265034-5

Parameter	Units	L1886456-09 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lithium	mg/L	0.0454	0.0500	0.0500	0.0927	0.0940	94.6	97.2	75.0-125	1.40	20	

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QUALITY CONTROL DATA

Project: Plant Hammond-Upgradient
Pace Project No.: 92817686

QC Batch: 952983
QC Batch Method: SM 2540C-2020
Analysis Method: SM 2540C-2020
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92811471001, 92811471002, 92811471003, 92811471004, 92811471005, 92811471006, 92811471007, 92811471008

METHOD BLANK: 4897634 Matrix: Water
Associated Lab Samples: 92811471001, 92811471002, 92811471003, 92811471004, 92811471005, 92811471006, 92811471007, 92811471008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	08/09/25 15:36	

LABORATORY CONTROL SAMPLE: 4897635

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	250	100	90-110	

SAMPLE DUPLICATE: 4897636

Parameter	Units	92811210013 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	682	760	11	25	

SAMPLE DUPLICATE: 4897637

Parameter	Units	92811438001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	75.0	79.0	5	25	

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QUALITY CONTROL DATA

Project: Plant Hammond-Upgradient
Pace Project No.: 92817686

QC Batch: 952679
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92811471001, 92811471002, 92811471003, 92811471004, 92811471005, 92811471006, 92811471007, 92811471008

METHOD BLANK: 4895956 Matrix: Water
Associated Lab Samples: 92811471001, 92811471002, 92811471003, 92811471004, 92811471005, 92811471006, 92811471007, 92811471008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	08/07/25 19:44	
Fluoride	mg/L	ND	0.10	0.050	08/07/25 19:44	
Sulfate	mg/L	ND	1.0	0.50	08/07/25 19:44	

LABORATORY CONTROL SAMPLE: 4895957

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.7	101	90-110	
Fluoride	mg/L	2.5	2.6	105	90-110	
Sulfate	mg/L	50	50.5	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4895958 4895959

Parameter	Units	92811534002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	10.1	50	50	57.7	62.2	95	104	90-110	7	10	
Fluoride	mg/L	ND	2.5	2.5	2.3	2.5	90	100	90-110	10	10	
Sulfate	mg/L	2.8	50	50	49.8	54.3	94	103	90-110	9	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4895960 4895961

Parameter	Units	92811471001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	17.2	50	50	66.9	71.3	99	108	90-110	6	10	
Fluoride	mg/L	0.055J	2.5	2.5	4.1	2.6	162	103	90-110	44	10	M1,R1
Sulfate	mg/L	57.6	50	50	96.7	100	78	86	90-110	4	10	M1

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QUALITY CONTROL DATA

Project: Plant Hammond-Upgradient
Pace Project No.: 92817686

QC Batch: 952854
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: WC 6020B MET
Laboratory: Pace Analytical Services - West Columbia
Associated Lab Samples: 92811471001, 92811471002, 92811471003, 92811471004, 92811471005, 92811471006, 92811471007, 92811471008

METHOD BLANK: 4896691 Matrix: Water
Associated Lab Samples: 92811471001, 92811471002, 92811471003, 92811471004, 92811471005, 92811471006, 92811471007, 92811471008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0020	0.00050	08/13/25 19:42	
Arsenic	mg/L	ND	0.0020	0.0012	08/13/25 19:42	
Barium	mg/L	ND	0.0050	0.0012	08/13/25 19:42	
Beryllium	mg/L	ND	0.00040	0.00015	08/13/25 19:42	
Boron	mg/L	ND	0.040	0.0062	08/13/25 19:42	
Cadmium	mg/L	ND	0.00050	0.00012	08/13/25 19:42	
Calcium	mg/L	ND	0.40	0.10	08/13/25 19:42	
Chromium	mg/L	ND	0.0050	0.0012	08/13/25 19:42	
Cobalt	mg/L	ND	0.0050	0.0012	08/13/25 19:42	
Lead	mg/L	ND	0.0010	0.00025	08/13/25 19:42	
Molybdenum	mg/L	ND	0.010	0.0025	08/13/25 19:42	
Selenium	mg/L	ND	0.0050	0.0012	08/13/25 19:42	
Thallium	mg/L	ND	0.00050	0.00015	08/13/25 19:42	

LABORATORY CONTROL SAMPLE: 4896692

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.095	95	80-120	
Arsenic	mg/L	0.1	0.091	91	80-120	
Barium	mg/L	0.1	0.097	97	80-120	
Beryllium	mg/L	0.1	0.094	94	80-120	
Boron	mg/L	0.1	0.10	100	80-120	
Cadmium	mg/L	0.1	0.095	95	80-120	
Calcium	mg/L	1	1.0	104	80-120	
Chromium	mg/L	0.1	0.10	102	80-120	
Cobalt	mg/L	0.1	0.11	106	80-120	
Lead	mg/L	0.1	0.099	99	80-120	
Molybdenum	mg/L	0.1	0.10	101	80-120	
Selenium	mg/L	0.1	0.093	93	80-120	
Thallium	mg/L	0.1	0.098	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4896693 4896694

Parameter	Units	92811484002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.093	0.092	93	92	75-125	0	20	

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QUALITY CONTROL DATA

Project: Plant Hammond-Upgradient
Pace Project No.: 92817686

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4896693 4896694

Parameter	Units	92811484002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	ND	0.1	0.1	0.096	0.095	96	95	75-125	1	20	
Barium	mg/L	0.044	0.1	0.1	0.14	0.14	93	91	75-125	1	20	
Beryllium	mg/L	ND	0.1	0.1	0.095	0.095	95	95	75-125	1	20	
Boron	mg/L	0.014J	0.1	0.1	0.11	0.11	98	96	75-125	1	20	
Cadmium	mg/L	ND	0.1	0.1	0.092	0.092	92	92	75-125	0	20	
Calcium	mg/L	27.6	1	1	27.2	27.4	-45	-18	75-125	1	20	
Chromium	mg/L	ND	0.1	0.1	0.096	0.095	96	95	75-125	1	20	
Cobalt	mg/L	ND	0.1	0.1	0.10	0.098	99	98	75-125	1	20	
Lead	mg/L	ND	0.1	0.1	0.094	0.093	94	93	75-125	1	20	
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.10	102	102	75-125	0	20	
Selenium	mg/L	ND	0.1	0.1	0.11	0.10	106	105	75-125	1	20	
Thallium	mg/L	ND	0.1	0.1	0.094	0.093	94	93	75-125	1	20	

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QUALITY CONTROL DATA

Project: Plant Hammond-Upgradient
Pace Project No.: 92817686

QC Batch: 952849
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: WCOL 7470 Mercury
Laboratory: Pace Analytical Services - West Columbia
Associated Lab Samples: 92811471001, 92811471002, 92811471003, 92811471004, 92811471005, 92811471006, 92811471007, 92811471008

METHOD BLANK: 4896661 Matrix: Water
Associated Lab Samples: 92811471001, 92811471002, 92811471003, 92811471004, 92811471005, 92811471006, 92811471007, 92811471008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.000091	08/12/25 11:42	

LABORATORY CONTROL SAMPLE: 4896662

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.002	0.0020	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4896663 4896664

Parameter	Units	92811149010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.002	0.002	0.0021	0.0021	104	105	80-120	1	20	

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QUALIFIERS

Project: Plant Hammond-Upgradient
Pace Project No.: 92817686

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

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TNI - The NELAC Institute.

WORKORDER QUALIFIERS

WO: 92817686

[1]	GEOSYNTEC
[2]	DO NOT DILUTE. MUST MEET REPORTING LIMITS. LET PM KNOW FIRST IF THERE ARE ISSUES.

ANALYTE QUALIFIERS

J	Analyte detected below the reporting limit, therefore result is an estimate. This qualifier is also used for all TICs.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
R1	RPD value was outside control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Hammond-Upgradient
Pace Project No.: 92817686

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92811471001	**HAM-HGWA-1**	3015	2577199	EPA 6020B	2577199
92811471002	**HAM-HGWA-2**	3015	2577199	EPA 6020B	2577199
92811471003	**HAM-HGWA-3**	3015	2577199	EPA 6020B	2577199
92811471004	**HAM-HGWA-43D**	3015	2577199	EPA 6020B	2577199
92811471005	**HAM-HGWA-44D**	3015	2577199	EPA 6020B	2577199
92811471006	**HAM-UGRD-FD-01**	3015	2577199	EPA 6020B	2577199
92811471007	**HAM-UGRD-EB-01**	3015	2577199	EPA 6020B	2577199
92811471008	**HAM-UGRD-FB-01**	3015	2577199	EPA 6020B	2577199
92811471001	**HAM-HGWA-1**	SM 2540C-2020	952983		
92811471002	**HAM-HGWA-2**	SM 2540C-2020	952983		
92811471003	**HAM-HGWA-3**	SM 2540C-2020	952983		
92811471004	**HAM-HGWA-43D**	SM 2540C-2020	952983		
92811471005	**HAM-HGWA-44D**	SM 2540C-2020	952983		
92811471006	**HAM-UGRD-FD-01**	SM 2540C-2020	952983		
92811471007	**HAM-UGRD-EB-01**	SM 2540C-2020	952983		
92811471008	**HAM-UGRD-FB-01**	SM 2540C-2020	952983		
92811471001	**HAM-HGWA-1**	EPA 300.0 Rev 2.1 1993	952679		
92811471002	**HAM-HGWA-2**	EPA 300.0 Rev 2.1 1993	952679		
92811471003	**HAM-HGWA-3**	EPA 300.0 Rev 2.1 1993	952679		
92811471004	**HAM-HGWA-43D**	EPA 300.0 Rev 2.1 1993	952679		
92811471005	**HAM-HGWA-44D**	EPA 300.0 Rev 2.1 1993	952679		
92811471006	**HAM-UGRD-FD-01**	EPA 300.0 Rev 2.1 1993	952679		
92811471007	**HAM-UGRD-EB-01**	EPA 300.0 Rev 2.1 1993	952679		
92811471008	**HAM-UGRD-FB-01**	EPA 300.0 Rev 2.1 1993	952679		
92811471001	**HAM-HGWA-1**	EPA 3005A	952854	EPA 6020B	954116
92811471002	**HAM-HGWA-2**	EPA 3005A	952854	EPA 6020B	954116
92811471003	**HAM-HGWA-3**	EPA 3005A	952854	EPA 6020B	954116
92811471004	**HAM-HGWA-43D**	EPA 3005A	952854	EPA 6020B	954116
92811471005	**HAM-HGWA-44D**	EPA 3005A	952854	EPA 6020B	954116
92811471006	**HAM-UGRD-FD-01**	EPA 3005A	952854	EPA 6020B	954116
92811471007	**HAM-UGRD-EB-01**	EPA 3005A	952854	EPA 6020B	954116
92811471008	**HAM-UGRD-FB-01**	EPA 3005A	952854	EPA 6020B	954116
92811471001	**HAM-HGWA-1**	EPA 7470A	952849	EPA 7470A	953462
92811471002	**HAM-HGWA-2**	EPA 7470A	952849	EPA 7470A	953462
92811471003	**HAM-HGWA-3**	EPA 7470A	952849	EPA 7470A	953462
92811471004	**HAM-HGWA-43D**	EPA 7470A	952849	EPA 7470A	953462
92811471005	**HAM-HGWA-44D**	EPA 7470A	952849	EPA 7470A	953462
92811471006	**HAM-UGRD-FD-01**	EPA 7470A	952849	EPA 7470A	953462
92811471007	**HAM-UGRD-EB-01**	EPA 7470A	952849	EPA 7470A	953462
92811471008	**HAM-UGRD-FB-01**	EPA 7470A	952849	EPA 7470A	953462

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without the written consent of Pace Analytical Services, LLC.

Pace	DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt
	Effective Date: 05/24/2024

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #: **WO# : 92811471**

92811471

Courier: ☐ Commercial ☐ Fed Ex ☑ Pace ☐ UPS ☐ USPS ☐ Other:____ ☐ Client

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No ☑ N/A

Date/Initials Person Examining Contents: 8/6/25 CAH

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 083

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 2.2 Correction Factor: Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 2.2

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: W				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg
**Bottom half of box is to list number of bottles
***Check all unpreserved Nitrates for chlorine

Project #

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Client_____ Profile/EZ (Circle one)_____ Notes_____

Items	B9QU-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BPIN	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG9H-40 mL Amber HCl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AGOU-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
CC																														
1		1	1				2																							
2		1	1				2																							
3		1	1				2																							
4		1	1				2																							
5		1	1				2																							
6		1	1				2																							
7		1	1				2																							
8		1	1				2																							
9					2																									
10					2																									
11					2																									
12					2																									

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg
**Bottom half of box is to list number of bottles
***Check all unpreserved Nitrates for chlorine

Project #

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Client_____ Profile/EZ (Circle one)_____ Notes_____

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP1N	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG9A-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH4)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
CC																														
1					2																									
2					2																									
3					2																									
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12																														

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

WO# : 92811471

PM: BV **Due Date: 08/21/25**

CLIENT: 92- GP-HAM

Company Name:	Georgia Power- Hammond	Contact/Report To:	Kristen Jurinko
Street Address:	241 Ralph McGill Blvd NE Bin 10160 Atlanta, GA 30308	Phone #:	470-217-0008
		E-Mail	knjurink@southernco.com
		Cc E-Mail:	
Customer Project #:			
Project Name:	Plant Hammond-AP-1/2/3 -2nd SA	Invoice To:	Account Payable
		Invoice E-Mail:	georgiapowerinvoices@southernco.com
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	GPC82474-0011
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [ ] ET

County / State origin of sample(s): Georgia

Data Deliverables:
[ ] Level II [ ] Level III [ ] Level IV
[ ] EQUIS
[ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [ ] No

Rush (Pre-approval required):
[ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day [ ] Other

DW PWSID # or WW Permit # as applicable:

Date Results Requested:

Field Filtered (if applicable): [ ] Yes [ ] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Composite Start Date	Composite Start Time	Collected or Composite End Date	Collected or Composite End Time	# Cont.	Res. Chlorine Results	Res. Chlorine Units	2540C Total Dissolved Solids	300.0-Cl, SO4, F	APP III/IV Metals	RAD 226/228	Sample Comment
HAM-HGWA-1	WG	Grab	TK 8/5/25		8/5/2025	1349	4	TK 8/5/25		X	X	X		Temp = 17 deg C 001
HAM-HGWA-2	WG	Grab			8/5/2025	1250	4			X	X	X		Temp = 19 deg C 002
HAM-HGWA-3	WG	Grab			8/5/2025	1355	4			X	X	X		Temp = 18 deg C 003
HAM-HGWA-43D	WG	Grab			8/5/2025	1209	4			X	X	X		Temp = 18 deg C 004
HAM-HGWA-44D	WG	Grab			8/5/2025	1035	4			X	X	X		Temp = 18 deg C 005
HAM-UGRD-FD-01	WQ	Grab			8/5/2025	0000	4			X	X	X		Temp = 18 deg C 006
HAM-UGRD-EB-01	WQ	Grab			8/5/2025	1655	4			X	X	X		Temp = 18 deg C 007
HAM-UGRD-FB-01	WQ	Grab			8/5/2025	1705	4			X	X	X		Temp = 18 deg C 008
HAM-HGWA-1	WG	Grab			8/5/2025	1349	2						X	Temp = 17 deg C
HAM-HGWA-2	WG	Grab			8/5/2025	1250	2						X	Temp = 19 deg C

Specify Container Size **

Identify Container Preservative Type***

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) 90mL, (10) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only

Proj. Mgr: Bonnie Vang
AcctNum / Client ID:
Table #:
Profile / Template: 16483
Prelog / Bottle Ord. ID: EZ 3283380

Preservation non-conformance identified for sample:

Additional Instructions from Pace®:
Task Code: HAM-CCR-ASSMT-202552

Collected By:
(Printed Name) Jamie Newsome, Thomas Kessler
Signature:

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature) Terry Williams / Pace	Date/Time: 8/4/2025 1550	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

Tracking Number:

Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Georgia Power- Hammond	Contact/Report To:	Kristen Jurinko
Street Address:	241 Ralph McGill Blvd NE Bin 10160 Atlanta, GA 30308	Phone #:	470-217-0008
		E-Mail:	knjurink@southernco.com
		Cc E-Mail:	
Customer Project #			
Project Name:	Plant Hammond-AP-1/2/3 -2nd SA	Invoice To:	Account Payable
		Invoice E-Mail:	georgiapowerinvoices@southernco.com
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	GPC82474-0011
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [ ] ET

County / State origin of sample(s): Georgia

Data Deliverables:
[ ] Level II [ ] Level III [ ] Level IV
[ ] EQUIS
[ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [ ] No

Rush (Pre-approval required):
[ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day [ ] Other

DW PWSID # or WW Permit # as applicable

Date Results Requested:

Field Filtered (if applicable): [ ] Yes [ ] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Composite Start Date	Composite Start Time	Collected or Composite End Date	Collected or Composite End Time	# Cont.	Res. Chlorine Results	Res. Chlorine Units	2540C Total Dissolved Solids	300.0 Cl, SO4, F	APP III/IV Metals	RAD 226/228	Sample Comment
HAM-HGWA-3	WG	Grab	TK 8/5/25		8/5/2025	1355	2	TK 8/5/2025					X	Temp = 18 deg C
HAM-HGWA-43D	WG	Grab			8/5/2025	1209	2						X	Temp = 18 deg C
HAM-HGWA-44D	WG	Grab			8/5/2025	1035	2						X	Temp = 18 deg C
HAM-UGRD-FD-01	WQ	Grab			8/5/2025	0000	2						X	Temp = 18 deg C
HAM-UGRD-EB-01	WQ	Grab			8/5/2025	1655	2						X	Temp = 18 deg C
HAM-UGRD-FB-01	WQ	Grab			8/5/2025	1705	2						X	Temp = 18 deg C
														last sample

TK 8/5/2025

Specify Container Size **

Identify Container Preservative Type***

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) 90mL, (10) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only

Proj. Mgr: Bonnie Vang
AcctNum / Client ID:
Table #:
Profile / Template: 16483
Prelog / Bottle Ord. ID: EZ 3283380

Preservation non-conformance identified for sample

Additional Instructions from Pace®:

Collected By:
(Printed Name) Jamie Newsome, Thomas Kessler
Signature:

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
	8/6/2025 1040	Ryan Williams / Pace	8/6/2025 1040	
Ryan Williams / Pace	8/6/2025 1550		8/6/25 1550	Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: 2 of 2

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

ENV-FRM-CORO-0019_v02_110123©

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

September 11, 2025

Kristen Jurinko
Southern Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, GA 30308

RE: Project: Plant Hammond-Upgradient-RADs
Pace Project No.: 92817701

Dear Kristen Jurinko:

Enclosed are the analytical results for sample(s) received by the laboratory on August 06, 2025. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Greensburg

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Bonnie Vang
bonnie.vang@pacelabs.com
704-977-0968
Project Manager

Enclosures

cc: Kip Gray, Geosyntec
Christine Hug, Geosyntec Consultants, Inc.
Thomas Kessler, Geosyntec Consultants
Whitney Law, Geosyntec Consultants
Laura Midkiff, Southern Company
Caroline Nelson, Geosyntec Consultants, Inc
Jamie Newsome, Geosyntec Consultants
Amanda Tomlinson, Geosyntec Consultants
Zain Webb, Geosyntec Consultants

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: Plant Hammond-Upgradient-RADs
Pace Project No.: 92817701

Pace Analytical Services Pennsylvania
1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
ANABISO/IEC 17025:2017 Rad Cert#: L24170
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 2950
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA010
Louisiana DEQ/TNI Certification #: 04086
Maine Certification #: 2023021
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991
Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572023-03
New Hampshire/TNI Certification #: 297622
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-015
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: TN02867
Texas/TNI Certification #: T104704188-22-18
Utah/TNI Certification #: PA014572223-14
USDA Soil Permit #: 525-23-67-77263
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad

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Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE SUMMARY

Project: Plant Hammond-Upgradient-RADs
Pace Project No.: 92817701

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92811478001	**HAM-HGWA-1**	Water	08/05/25 13:49	08/06/25 15:50
92811478002	**HAM-HGWA-2**	Water	08/05/25 12:50	08/06/25 15:50
92811478003	**HAM-HGWA-3**	Water	08/05/25 13:55	08/06/25 15:50
92811478004	**HAM-HGWA-43D**	Water	08/05/25 12:09	08/06/25 15:50
92811478005	**HAM-HGWA-44D**	Water	08/05/25 10:35	08/06/25 15:50
92811478006	**HAM-UGRD-FD-01**	Water	08/05/25 00:00	08/06/25 15:50
92811478007	**HAM-UGRD-EB-01**	Water	08/05/25 16:55	08/06/25 15:50
92811478008	**HAM-UGRD-FB-01**	Water	08/05/25 17:05	08/06/25 15:50

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SAMPLE ANALYTE COUNT

Project: Plant Hammond-Upgradient-RADs
Pace Project No.: 92817701

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92811478001	**HAM-HGWA-1**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92811478002	**HAM-HGWA-2**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92811478003	**HAM-HGWA-3**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92811478004	**HAM-HGWA-43D**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92811478005	**HAM-HGWA-44D**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92811478006	**HAM-UGRD-FD-01**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92811478007	**HAM-UGRD-EB-01**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92811478008	**HAM-UGRD-FB-01**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

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SUMMARY OF DETECTION

Project: Plant Hammond-Upgradient-RADs
Pace Project No.: 92817701

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92811478001	**HAM-HGWA-1**					
EPA 9315	Radium-226	0.226U ± 0.287 (0.614) C:84% T:NA	pCi/L		08/26/25 09:52	
EPA 9320	Radium-228	-0.0865U ± 0.391 (0.939) C:59% T:90%	pCi/L		08/22/25 14:37	
Total Radium Calculation	Total Radium	0.226U ± 0.678 (1.55)	pCi/L		08/27/25 15:40	
92811478002	**HAM-HGWA-2**					
EPA 9315	Radium-226	0.0405U ± 0.221 (0.562) C:97% T:NA	pCi/L		08/26/25 09:48	
EPA 9320	Radium-228	0.237U ± 0.430 (0.941) C:61% T:91%	pCi/L		08/22/25 14:37	
Total Radium Calculation	Total Radium	0.278U ± 0.651 (1.50)	pCi/L		08/27/25 15:40	
92811478003	**HAM-HGWA-3**					
EPA 9315	Radium-226	0.101U ± 0.309 (0.737) C:94% T:NA	pCi/L		08/26/25 09:48	
EPA 9320	Radium-228	0.0240U ± 0.427 (0.989) C:65% T:86%	pCi/L		08/22/25 14:38	
Total Radium Calculation	Total Radium	0.125U ± 0.736 (1.73)	pCi/L		08/27/25 15:40	
92811478004	**HAM-HGWA-43D**					
EPA 9315	Radium-226	0.284U ± 0.348 (0.745) C:79% T:NA	pCi/L		08/26/25 09:48	
EPA 9320	Radium-228	0.710U ± 0.433 (0.787) C:70% T:88%	pCi/L		08/22/25 14:38	
Total Radium Calculation	Total Radium	0.994U ± 0.781 (1.53)	pCi/L		08/27/25 15:40	

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SUMMARY OF DETECTION

Project: Plant Hammond-Upgradient-RADs
Pace Project No.: 92817701

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92811478005	**HAM-HGWA-44D**					
EPA 9315	Radium-226	0.255U ± 0.319 (0.682) C:81% T:NA	pCi/L		08/26/25 09:48	
EPA 9320	Radium-228	-0.0142U ± 0.364 (0.855) C:66% T:92%	pCi/L		08/22/25 14:38	
Total Radium Calculation	Total Radium	0.255U ± 0.683 (1.54)	pCi/L		08/27/25 15:40	
92811478006	**HAM-UGRD-FD-01**					
EPA 9315	Radium-226	0.349U ± 0.297 (0.560) C:85% T:NA	pCi/L		08/26/25 09:57	
EPA 9320	Radium-228	0.213U ± 0.409 (0.899) C:67% T:94%	pCi/L		08/22/25 14:38	
Total Radium Calculation	Total Radium	0.562U ± 0.706 (1.46)	pCi/L		08/27/25 15:40	
92811478007	**HAM-UGRD-EB-01**					
EPA 9315	Radium-226	0.148U ± 0.208 (0.449) C:90% T:NA	pCi/L		08/26/25 09:57	
EPA 9320	Radium-228	0.299U ± 0.428 (0.919) C:68% T:83%	pCi/L		08/22/25 14:38	
Total Radium Calculation	Total Radium	0.447U ± 0.636 (1.37)	pCi/L		08/27/25 15:40	
92811478008	**HAM-UGRD-FB-01**					
EPA 9315	Radium-226	-0.121U ± 0.220 (0.627) C:81% T:NA	pCi/L		08/27/25 08:13	
EPA 9320	Radium-228	-0.0925U ± 0.343 (0.824) C:75% T:88%	pCi/L		08/22/25 14:39	
Total Radium Calculation	Total Radium	0.000U ± 0.563 (1.45)	pCi/L		08/27/25 15:40	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Hammond-Upgradient-RADs
Pace Project No.: 92817701

Sample: HAM-HGWA-1 **Lab ID: 92811478001** Collected: 08/05/25 13:49 Received: 08/06/25 15:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.226U ± 0.287 (0.614) C:84% T:NA**	pCi/L	08/26/25 09:52	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**-0.0865U ± 0.391 (0.939) C:59% T:90%**	pCi/L	08/22/25 14:37	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.226U ± 0.678 (1.55)**	pCi/L	08/27/25 15:40	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Hammond-Upgradient-RADs
Pace Project No.: 92817701

Sample: HAM-HGWA-2 **Lab ID: 92811478002** Collected: 08/05/25 12:50 Received: 08/06/25 15:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0405U ± 0.221 (0.562) C:97% T:NA**	pCi/L	08/26/25 09:48	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.237U ± 0.430 (0.941) C:61% T:91%**	pCi/L	08/22/25 14:37	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.278U ± 0.651 (1.50)**	pCi/L	08/27/25 15:40	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Hammond-Upgradient-RADs
Pace Project No.: 92817701

Sample: HAM-HGWA-3 **Lab ID: 92811478003** Collected: 08/05/25 13:55 Received: 08/06/25 15:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.101U ± 0.309 (0.737) C:94% T:NA**	pCi/L	08/26/25 09:48	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.0240U ± 0.427 (0.989) C:65% T:86%**	pCi/L	08/22/25 14:38	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.125U ± 0.736 (1.73)**	pCi/L	08/27/25 15:40	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Hammond-Upgradient-RADs
Pace Project No.: 92817701

Sample: HAM-HGWA-43D **Lab ID: 92811478004** Collected: 08/05/25 12:09 Received: 08/06/25 15:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.284U ± 0.348 (0.745) C:79% T:NA**	pCi/L	08/26/25 09:48	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.710U ± 0.433 (0.787) C:70% T:88%**	pCi/L	08/22/25 14:38	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.994U ± 0.781 (1.53)**	pCi/L	08/27/25 15:40	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Hammond-Upgradient-RADs
Pace Project No.: 92817701

Sample: HAM-HGWA-44D **Lab ID: 92811478005** Collected: 08/05/25 10:35 Received: 08/06/25 15:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.255U ± 0.319 (0.682) C:81% T:NA**	pCi/L	08/26/25 09:48	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**-0.0142U ± 0.364 (0.855) C:66% T:92%**	pCi/L	08/22/25 14:38	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.255U ± 0.683 (1.54)**	pCi/L	08/27/25 15:40	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Hammond-Upgradient-RADs
Pace Project No.: 92817701

Sample: HAM-UGRD-FD-01 **Lab ID: 92811478006** Collected: 08/05/25 00:00 Received: 08/06/25 15:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.349U ± 0.297 (0.560) C:85% T:NA**	pCi/L	08/26/25 09:57	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.213U ± 0.409 (0.899) C:67% T:94%**	pCi/L	08/22/25 14:38	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.562U ± 0.706 (1.46)**	pCi/L	08/27/25 15:40	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Hammond-Upgradient-RADs
Pace Project No.: 92817701

Sample: HAM-UGRD-EB-01 **Lab ID: 92811478007** Collected: 08/05/25 16:55 Received: 08/06/25 15:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.148U ± 0.208 (0.449) C:90% T:NA**	pCi/L	08/26/25 09:57	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.299U ± 0.428 (0.919) C:68% T:83%**	pCi/L	08/22/25 14:38	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.447U ± 0.636 (1.37)**	pCi/L	08/27/25 15:40	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Hammond-Upgradient-RADs
Pace Project No.: 92817701

Sample: HAM-UGRD-FB-01 **Lab ID: 92811478008** Collected: 08/05/25 17:05 Received: 08/06/25 15:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**-0.121U ± 0.220 (0.627) C:81% T:NA**	pCi/L	08/27/25 08:13	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**-0.0925U ± 0.343 (0.824) C:75% T:88%**	pCi/L	08/22/25 14:39	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.000U ± 0.563 (1.45)**	pCi/L	08/27/25 15:40	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Hammond-Upgradient-RADs
Pace Project No.: 92817701

QC Batch: 764910
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples:

METHOD BLANK: 3728178 Matrix: Water
Associated Lab Samples:

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.255 ± 0.335 (0.711) C:73% T:86%	pCi/L	08/28/25 14:47	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Hammond-Upgradient-RADs
Pace Project No.: 92817701

QC Batch: 763825
QC Batch Method: EPA 9315
Analysis Method: EPA 9315
Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92811478001, 92811478002, 92811478003, 92811478004, 92811478005, 92811478006, 92811478007, 92811478008

METHOD BLANK: 3722432 Matrix: Water
Associated Lab Samples: 92811478001, 92811478002, 92811478003, 92811478004, 92811478005, 92811478006, 92811478007, 92811478008

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0834 ± 0.202 (0.480) C:94% T:NA	pCi/L	08/26/25 09:54	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Hammond-Upgradient-RADs
Pace Project No.: 92817701

QC Batch: 763994
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92811478001, 92811478002, 92811478003, 92811478004, 92811478005, 92811478006, 92811478007, 92811478008

METHOD BLANK: 3723177 Matrix: Water
Associated Lab Samples: 92811478001, 92811478002, 92811478003, 92811478004, 92811478005, 92811478006, 92811478007, 92811478008

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.169 ± 0.334 (0.737) C:74% T:89%	pCi/L	08/22/25 14:36	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Hammond-Upgradient-RADs
Pace Project No.: 92817701

QC Batch: 766763
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples:

METHOD BLANK: 3737578 Matrix: Water

Associated Lab Samples:

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.315 ± 0.480 (1.04) C:65% T:82%	pCi/L	09/09/25 16:15	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Hammond-Upgradient-RADs
Pace Project No.: 92817701

QC Batch: 764909
QC Batch Method: EPA 9315
Analysis Method: EPA 9315
Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples:

METHOD BLANK: 3728174 Matrix: Water
Associated Lab Samples:

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.100 ± 0.242 (0.568) C:74% T:NA	pCi/L	08/28/25 08:22	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Hammond-Upgradient-RADs
Pace Project No.: 92817701

QC Batch: 766761
QC Batch Method: EPA 9315
Analysis Method: EPA 9315
Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples:

METHOD BLANK: 3737577 Matrix: Water
Associated Lab Samples:

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0285 ± 0.328 (0.821) C:83% T:NA	pCi/L	09/04/25 08:32	

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QUALIFIERS

Project: Plant Hammond-Upgradient-RADs
Pace Project No.: 92817701

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval). Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

WORKORDER QUALIFIERS

WO: 92817701

[1] GEOSYNTEC

[2] DO NOT DILUTE. MUST MEET REPORTING LIMITS. LET PM KNOW FIRST IF THERE ARE ISSUES.

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without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Hammond-Upgradient-RADs
Pace Project No.: 92817701

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92811478001	**HAM-HGWA-1**	EPA 9315	763825		
92811478002	**HAM-HGWA-2**	EPA 9315	763825		
92811478003	**HAM-HGWA-3**	EPA 9315	763825		
92811478004	**HAM-HGWA-43D**	EPA 9315	763825		
92811478005	**HAM-HGWA-44D**	EPA 9315	763825		
92811478006	**HAM-UGRD-FD-01**	EPA 9315	763825		
92811478007	**HAM-UGRD-EB-01**	EPA 9315	763825		
92811478008	**HAM-UGRD-FB-01**	EPA 9315	763825		
92811478001	**HAM-HGWA-1**	EPA 9320	763994		
92811478002	**HAM-HGWA-2**	EPA 9320	763994		
92811478003	**HAM-HGWA-3**	EPA 9320	763994		
92811478004	**HAM-HGWA-43D**	EPA 9320	763994		
92811478005	**HAM-HGWA-44D**	EPA 9320	763994		
92811478006	**HAM-UGRD-FD-01**	EPA 9320	763994		
92811478007	**HAM-UGRD-EB-01**	EPA 9320	763994		
92811478008	**HAM-UGRD-FB-01**	EPA 9320	763994		
92811478001	**HAM-HGWA-1**	Total Radium Calculation	767371		
92811478002	**HAM-HGWA-2**	Total Radium Calculation	767371		
92811478003	**HAM-HGWA-3**	Total Radium Calculation	767371		
92811478004	**HAM-HGWA-43D**	Total Radium Calculation	767371		
92811478005	**HAM-HGWA-44D**	Total Radium Calculation	767371		
92811478006	**HAM-UGRD-FD-01**	Total Radium Calculation	767371		
92811478007	**HAM-UGRD-EB-01**	Total Radium Calculation	767371		
92811478008	**HAM-UGRD-FB-01**	Total Radium Calculation	767371		

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Pace	DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt
	Effective Date: 05/24/2024

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #

WO# : 92811478

92811478

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace ☐ Other:

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No ☑ N/A

Date/Initials Person Examining Contents: 8/6/15 (JH)

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 083

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 2.2 Correction Factor: Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 2.2

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: W				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg
**Bottom half of box is to list number of bottles
***Check all unpreserved Nitrates for chlorine

Project #

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Client_____ Profile/EZ (Circle one)_____ Notes_____

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP1N	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GX (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 ml Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	V5GU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved Vials (N/A)
CC																														
1		1	1				2																							
2		1	1				2																							
3		1	1				2																							
4		1	1				2																							
5		1	1				2																							
6		1	1				2																							
7		1	1				2																							
8		1	1				2																							
9					2																									
10					2																									
11					2																									
12					2																									

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg
**Bottom half of box is to list number of bottles
***Check all unpreserved Nitrates for chlorine

Project #

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Client_____ Profile/EZ (Circle one)_____ Notes_____

Items	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BPIN	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG9A-40 mL Amber NaHSO4 (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH4)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG8U-40 mL Amber Unpreserved vials (N/A)
CC																														
1					2																									
2					2																									
3					2																									
4					2																									
5																														
6																														
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10																														
11																														
12																														

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain of Custody is a LEGAL DOCUMENT - Complete all relevant fields

WO#: 92811478

PM: BV **Due Date: 08/28/25**

CLIENT: 92- GP-HAM

Company Name:	Georgia Power- Hammond
Street Address:	241 Ralph McGill Blvd NE Bin 10160 Atlanta, GA 30308
Customer Project #:	
Project Name:	Plant Hammond-AP-1/2/3 -2nd SA
Site Collection Info/Facility ID (as applicable):	
Contact/Report To:	Kristen Jurinko
Phone #:	470-217-0008
E-Mail	knjurink@southernco.com
Cc E-Mail:	
Invoice To:	Account Payable
Invoice E-Mail:	georgiapowerinvoices@southernco.com
Purchase Order # (if applicable):	GPC82474-0011
Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [ ] ET

County / State origin of sample(s): Georgia

Data Deliverables: [ ] Level II [ ] Level III [ ] Level IV [ ] EQUIS [ ] Other

Regulatory Program (DW, RCRA, etc) as applicable: Reportable [ ] Yes [ ] No

Rush (Pre-approval required): [ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day [ ] Other

DW PWSID # or WW Permit # as applicable:

Date Results Requested:

Field Filtered (if applicable): [ ] Yes [ ] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Composite Start Date	Composite Start Time	Collected or Composite End Date	Collected or Composite End Time	# Cont.	Res. Chlorine Results	Res. Chlorine Units	2540C Total Dissolved Solids	300.0-Cl, SO4, F	APP III/IV Metals	RAD 226/228	Sample Comment
HAM-HGWA-1	WG	Grab	TK 8/5/25		8/5/2025	1349	4	TK 8/5/25		X	X	X		Temp = 17 deg C
HAM-HGWA-2	WG	Grab			8/5/2025	1250	4			X	X	X		Temp = 19 deg C
HAM-HGWA-3	WG	Grab			8/5/2025	1355	4			X	X	X		Temp = 18 deg C
HAM-HGWA-43D	WG	Grab			8/5/2025	1209	4			X	X	X		Temp = 18 deg C
HAM-HGWA-44D	WG	Grab			8/5/2025	1035	4			X	X	X		Temp = 18 deg C
HAM-UGRD-FD-01	WQ	Grab			8/5/2025	0000	4			X	X	X		Temp = 18 deg C
HAM-UGRD-EB-01	WQ	Grab			8/5/2025	1655	4			X	X	X		Temp = 18 deg C
HAM-UGRD-FB-01	WQ	Grab			8/5/2025	1705	4			X	X	X		Temp = 18 deg C
HAM-HGWA-1	WG	Grab			8/5/2025	1349	2						X	Temp = 17 deg C 001
HAM-HGWA-2	WG	Grab			8/5/2025	1250	2						X	Temp = 19 deg C 002

Specify Container Size **

Identify Container Preservative Type***

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) 90mL, (10) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only

Proj. Mgr: Bonnie Vang

AcctNum / Client ID:

Table #:

Profile / Template: 16483

Prelog / Bottle Ord. ID: EZ 3283380

Preservation non-conformance identified for sample.

Additional Instructions from Pace®:
Task Code: HAM-CCR-ASSMT-202552

Collected By:
(Printed Name) Jamie Newsome, Thomas Kessler
Signature:

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:

Relinquished By/Company: (Signature)	Date/Time:	Received By/Company: (Signature)	Date/Time:	Tracking Number:
Relinquished by/Company: (Signature) Jamie Williams / Pace	9/4/2025 1550	Received by/Company: (Signature)	8/6/2025 1040	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time: 8/6/25 1550	Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: 1 of 2

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

ENV-FRM-CORO-0019_v02_110123 ©

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for Instructions

Company Name:	Georgia Power- Hammond
Street Address:	241 Ralph McGill Blvd NE Bin 10160 Atlanta, GA 30308
Customer Project #:	
Project Name:	Plant Hammond-AP-1/2/3 -2nd SA
Site Collection Info/Facility ID (as applicable):	
Contact/Report To:	Kristen Jurinko
Phone #:	470-217-0008
E-Mail:	knjurink@southernco.com
Cc E-Mail:	
Invoice To:	Account Payable
Invoice E-Mail:	georgiapowerinvoices@southernco.com
Purchase Order # (if applicable):	GPC82474-0011
Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [ ] ET

County / State origin of sample(s): Georgia

Data Deliverables: [ ] Level II [ ] Level III [ ] Level IV [ ] EQUIS [ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [ ] No

Rush (Pre-approval required): [ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day [ ] Other

DW PWSID # or WW Permit # as applicable

Date Results Requested:

Field Filtered (if applicable): [ ] Yes [ ] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Composite Start Date	Composite Start Time	Collected or Composite End Date	Collected or Composite End Time	# Cont.	Res. Chlorine Results	Res. Chlorine Units	2540C Total Dissolved Solids	300.0 Cl, SO4, F	ASP III/IV Metals	RAD 226/228	Sample Comment	Preservation non-conformance identified for sample
HAM-HGWA-3	WG	Grab	TK 8/5/25		8/5/2025	1355	2	TK 8/5/2025					X	Temp = 18 deg C 003	
HAM-HGWA-43D	WG	Grab			8/5/2025	1209	2						X	Temp = 18 deg C 004	
HAM-HGWA-44D	WG	Grab			8/5/2025	1035	2						X	Temp = 18 deg C 005	
HAM-UGRD-FD-01	WQ	Grab			8/5/2025	0000	2						X	Temp = 18 deg C 006	
HAM-UGRD-EB-01	WQ	Grab			8/5/2025	1655	2						X	Temp = 18 deg C 007	
HAM-UGRD-FB-01	WQ	Grab			8/5/2025	1705	2						X	Temp = 18 deg C 008	
														last sample	
						TK 8/5/2025									

Specify Container Size **

Identify Container Preservative Type***

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) 90mL, (10) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only

Proj. Mgr: Bonnie Vang

AcctNum / Client ID:

Table #:

Profile / Template: 16483

Prelog / Bottle Ord. ID: EZ 3283380

Additional Instructions from Pace®:

Collected By:
(Printed Name) Jamie Newsome, Thomas Kessler
Signature:

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
	8/6/2025 1040	Ryan Williams / Pace	8/6/2025 1040	
Relinquished by/Company: (Signature) Ryan Williams / Pace	Date/Time: 8/6/2025 1550	Received by/Company: (Signature)	Date/Time: 8/6/25 1550	Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: 2 of 2
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

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Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test:	Ra-228
Analyst:	VAL
Date:	8/15/2025
Worklist:	86556
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3723177
MB concentration:	0.169
M/B 2 Sigma CSU:	0.334
MB MDC:	0.737
MB Numerical Performance Indicator:	0.99
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS86556	LCSD86556
Count Date:	8/22/2025	8/22/2025
Spike I.D.:	23-043	23-043
Decay Corrected Spike Concentration (pCi/mL):	31.529	31.529
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.818	0.822
Target Conc. (pCi/L, g, F):	3.856	3.837
Uncertainty (Calculated):	0.189	0.188
Result (pCi/L, g, F):	3.265	2.614
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.792	0.665
Numerical Performance Indicator:	-1.42	-3.47
Percent Recovery:	84.69%	68.13%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS86556	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD86556	
Sample Result (pCi/L, g, F):	3.265	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.792	
Sample Duplicate Result (pCi/L, g, F):	2.614	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.665	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	1.233	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	21.67%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

8/25/25

Quality Control Sample Performance Assessment

Pace Analytical
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Analyst Must Manually Enter All Fields Highlighted In Yellow.

Test:	Ra-228
Analyst:	VAL
Date:	8/21/2025
Worklist:	86629
Matrix:	WT

Method Blank Assessment	
MB Sample ID	3728178
MB concentration:	0.255
M/B 2 Sigma CSU:	0.335
MB MDC:	0.711
MB Numerical Performance Indicator:	1.49
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS86629	**LCSD86629**
Count Date:	8/28/2025	8/28/2025
Spike I.D.:	23-043	23-043
Decay Corrected Spike Concentration (pCi/mL):	31.465	31.465
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.823	0.822
Target Conc. (pCi/L, g, F):	3.821	3.828
Uncertainty (Calculated):	0.187	0.188
Result (pCi/L, g, F):	3.002	4.005
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.761	0.937
Numerical Performance Indicator:	-2.05	0.36
Percent Recovery:	78.54%	104.63%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS86629	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD86629	
Sample Result (pCi/L, g, F):	3.002	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.761	
Sample Duplicate Result (pCi/L, g, F):	4.005	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.937	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	-1.629	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	28.49%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

ET 8-29-25

8/29/25

Quality Control Sample Performance Assessment

Pace Analytical™
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Test:	Ra-228
Analyst:	ZPC
Date:	9/2/2025
Worklist:	86785
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3737578
MB concentration:	0.315
M/B 2 Sigma CSU:	0.480
MB MDC:	1.037
MB Numerical Performance Indicator:	1.29
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS86785	LCSD86785
Count Date:	9/9/2025	9/9/2025
Spike I.D.:	23-043	23-043
Decay Corrected Spike Concentration (pCi/mL):	31.340	31.340
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.817	0.821
Target Conc. (pCi/L, g, F):	3.836	3.815
Uncertainty (Calculated):	0.188	0.187
Result (pCi/L, g, F):	3.868	3.254
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.959	0.852
Numerical Performance Indicator:	0.06	-1.26
Percent Recovery:	100.84%	85.29%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS86785	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD86785	
Sample Result (pCi/L, g, F):	3.868	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.959	
Sample Duplicate Result (pCi/L, g, F):	3.254	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.852	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	0.939	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	16.71%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

9/10/25

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test:	Ra-226
Analyst:	SLC
Date:	8/25/2025
Worklist:	86546
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3722432
MB concentration:	0.083
M/B 2 Sigma CSU:	0.202
MB MDC:	0.480
MB Numerical Performance Indicator:	0.81
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS86546	LCSD86546
Count Date:	8/27/2025	8/27/2025
Spike I.D.:	23-014	23-014
Decay Corrected Spike Concentration (pCi/mL):	25.009	25.009
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.505	0.507
Target Conc. (pCi/L, g, F):	4.951	4.937
Uncertainty (Calculated):	0.233	0.232
Result (pCi/L, g, F):	3.820	5.418
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.824	1.065
Numerical Performance Indicator:	-2.59	0.86
Percent Recovery:	77.17%	109.73%
Status vs Numerical Indicator:	Warning	Pass
Status vs Recovery:	N/A	N/A
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS86546	92810485029
Duplicate Sample I.D.	LCSD86546	92810485029DUP
Sample Result (pCi/L, g, F):	3.820	-0.063
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.824	0.212
Sample Duplicate Result (pCi/L, g, F):	5.418	0.084
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.065	0.202
Are sample and/or duplicate results below RL?	NO	See Below ##
Duplicate Numerical Performance Indicator:	-2.325	-0.986
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	34.84%	1372.70%
Duplicate Status vs Numerical Indicator:	Warning	Pass
Duplicate Status vs RPD:	N/A	N/A
% RPD Limit:	25%	25%

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

VAM 8/27/25

CT 8-27-25

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test:	Ra-226
Analyst:	SLC
Date:	8/25/2025
Worklist:	86628
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3728174
MB concentration:	0.100
M/B 2 Sigma CSU:	0.242
MB MDC:	0.568
MB Numerical Performance Indicator:	0.81
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS86628	LCSD86628
Count Date:	8/29/2025	8/29/2025
Spike I.D.:	23-014	23-014
Decay Corrected Spike Concentration (pCi/mL):	25.009	25.009
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.509	0.505
Target Conc. (pCi/L, g, F):	4.918	4.948
Uncertainty (Calculated):	0.231	0.233
Result (pCi/L, g, F):	4.845	4.924
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.945	0.946
Numerical Performance Indicator:	-0.15	-0.05
Percent Recovery:	98.52%	99.52%
Status vs Numerical Indicator:	Pass	Pass
Status vs Recovery:	N/A	N/A
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS86628	92811492017
Duplicate Sample I.D.	LCSD86628	92811492017DUP
Sample Result (pCi/L, g, F):	4.845	-0.060
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.945	0.142
Sample Duplicate Result (pCi/L, g, F):	4.924	0.125
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.946	0.175
Are sample and/or duplicate results below RL?	NO	See Below ##
Duplicate Numerical Performance Indicator:	-0.116	-1.603
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	1.02%	566.10%
Duplicate Status vs Numerical Indicator:	Pass	Pass
Duplicate Status vs RPD:	N/A	N/A
% RPD Limit:	25%	25%

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

ET 8-29-25

UMM 8/29/25

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test:	Ra-226
Analyst:	SLC
Date:	9/3/2025
Worklist:	86784
Matrix:	W

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3737577
MB concentration:	0.028
M/B 2 Sigma CSU:	0.328
MB MDC:	0.821
MB Numerical Performance Indicator:	0.17
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS86784	LCSD86784
Count Date:	9/4/2025	9/4/2025
Spike I.D.:	23-014	23-014
Decay Corrected Spike Concentration (pCi/mL):	25.009	25.009
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.504	0.507
Target Conc. (pCi/L, g, F):	4.962	4.935
Uncertainty (Calculated):	0.233	0.232
Result (pCi/L, g, F):	4.835	4.973
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.059	1.094
Numerical Performance Indicator:	-0.23	0.07
Percent Recovery:	97.44%	100.77%
Status vs Numerical Indicator:	Pass	Pass
Status vs Recovery:	N/A	N/A
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS86784	92810485047
Duplicate Sample I.D.	LCSD86784	92810485047DUP
Sample Result (pCi/L, g, F):	4.835	0.248
Sample Result 2 Sigma CSU (pCi/L, g, F):	1.059	0.341
Sample Duplicate Result (pCi/L, g, F):	4.973	0.095
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.094	0.286
Are sample and/or duplicate results below RL?	NO	See Below ##
Duplicate Numerical Performance Indicator:	-0.178	0.675
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	3.35%	89.47%
Duplicate Status vs Numerical Indicator:	Pass	Pass
Duplicate Status vs RPD:	N/A	N/A
% RPD Limit:	25%	25%

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

VAM 9/4/25

ET 9-4-25

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

September 10, 2025

Kristen Jurinko
Southern Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, GA 30308

RE: Project: Plant Hammond-AP-1
Pace Project No.: 92811471

Dear Kristen Jurinko:

Enclosed are the analytical results for sample(s) received by the laboratory between August 08, 2025 and August 11, 2025. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace National - Mt. Juliet
- Pace Analytical Services - Asheville
- Pace Analytical Services - West Columbia

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Bonnie Vang
bonnie.vang@pacelabs.com
704-977-0968
Project Manager

Enclosures

cc: Kip Gray, Geosyntec
Christine Hug, Geosyntec Consultants, Inc.
Thomas Kessler, Geosyntec Consultants
Whitney Law, Geosyntec Consultants
Laura Midkiff, Southern Company
Caroline Nelson, Geosyntec Consultants, Inc
Jamie Newsome, Geosyntec Consultants
Amanda Tomlinson, Geosyntec Consultants
Zain Webb, Geosyntec Consultants

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
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Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: Plant Hammond-AP-1
Pace Project No.: 92811471

Pace Analytical Services National

12065 Lebanon Road, Mt. Juliet, TN 37122
Alabama Certification #: 40660
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Georgia DW Certification #: 923
Georgia Certification: NELAP
Idaho Certification #: TN00003
Illinois Certification #: 200008
Indiana Certification #: C-TN-01
Iowa Certification #: 364
Kansas Certification #: E-10277
Kentucky UST Certification #: 16
Kentucky Certification #: 90010
Louisiana Certification #: AI30792
Louisiana DW Certification #: LA180010
Maine Certification #: TN0002
Maryland Certification #: 324
Massachusetts Certification #: M-TN003
Michigan Certification #: 9958
Minnesota Certification #: 047-999-395
Mississippi Certification #: TN00003
Missouri Certification #: 340
Montana Certification #: CERT0086
Nebraska Certification #: NE-OS-15-05
Nevada Certification #: TN-03-2002-34
New Hampshire Certification #: 2975
New Jersey Certification #: TN002
New Mexico DW Certification
New York Certification #: 11742
North Carolina Aquatic Toxicity Certification #: 41
North Carolina Drinking Water Certification #: 21704
North Carolina Environmental Certificate #: 375
North Dakota Certification #: R-140
Ohio VAP Certification #: CL0069
Oklahoma Certification #: 9915
Oregon Certification #: TN200002
Pennsylvania Certification #: 68-02979
Rhode Island Certification #: LAO00356
South Carolina Certification #: 84004
South Dakota Certification
Tennessee DW/Chem/Micro Certification #: 2006
Texas Certification #: T 104704245-17-14
Texas Mold Certification #: LAB0152
USDA Soil Permit #: P330-15-00234
Utah Certification #: TN00003
Virginia Certification #: VT2006
Vermont Dept. of Health: ID# VT-2006
Virginia Certification #: 460132
Washington Certification #: C847
West Virginia Certification #: 233
Wisconsin Certification #: 998093910
Wyoming UST Certification #: via A2LA 2926.01
A2LA-ISO 17025 Certification #: 1461.01
A2LA-ISO 17025 Certification #: 1461.02
AIHA-LAP/LLC EMLAP Certification #:100789

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Laboratory ID: 99030
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services West Columbia

106 Vantage Point Drive, West Columbia, SC 29172
Alaska Dept. of Energy Conservation, Cert# 20-002
California ELAP, cert# 3049
DoD, DoD QSM V5.4, cert# I.2224
DOE, DoD/DOE QSM V5.4, cert# I.2224.01
Florida, Dept. of Health, cert# E87653-70
Georgia, Env. Protection Division, cert# E87653
Illinois, EPA NELAP, cert# 2000552024-9
Kansas, Dept. of Health and Environment, cert# E-10417
Kentucky, Dept. for Env. Protection, UST, cert# 103582
Kentucky, Dept. for Env. Protection, cert# 98037
Louisiana, Dept. of Environmental Quality, cert# 5125
North Carolina, DEQ, Water Resources, cert# 329
New Jersey, Dept. of Env. Protection, cert# NLC 240005
Oklahoma, Dept. of Env. Quality, cert# 2023-175
Oregon, ELAP, cert# 4181-006
Pennsylvania, Dept. of Env. Protection, cert# 003
South Carolina, Dept. of Env. Services, cert# 32010001
Texas, Commission on Env. Quality, cert# TX-C24-00083
Virginia, Dept. of General Services, cert# 13080
Wisconsin, Dept. of Natural Resources, cert# 399136100

REPORT OF LABORATORY ANALYSIS

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(704)875-9092

SAMPLE SUMMARY

Project: Plant Hammond-AP-1
Pace Project No.: 92811471

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92811471009	**HAM-HGWC-7**	Water	08/06/25 16:42	08/08/25 15:50
92811471010	**HAM-HGWC-8**	Water	08/06/25 16:25	08/08/25 15:50
92811471011	**HAM-HGWC-10**	Water	08/06/25 15:28	08/08/25 15:50
92811471012	**HAM-HGWC-11**	Water	08/06/25 12:14	08/08/25 15:50
92811471013	**HAM-HGWC-12**	Water	08/06/25 10:08	08/08/25 15:50
92811471014	**HAM-MW-19**	Water	08/06/25 13:37	08/08/25 15:50
92811471015	**HAM-MW-20**	Water	08/06/25 10:00	08/08/25 15:50
92811471016	**HAM-MW-27D**	Water	08/06/25 14:42	08/08/25 15:50
92811471017	**HAM-AP1-FD-01**	Water	08/06/25 00:00	08/08/25 15:50
92811471018	**HAM-AP1-EB-01**	Water	08/06/25 15:20	08/08/25 15:50
92811471019	**HAM-AP1-FB-01**	Water	08/06/25 15:15	08/08/25 15:50
92811471020	**HAM-HGWC-9**	Water	08/07/25 09:51	08/08/25 15:50
92811471021	**HAM-HGWC-13**	Water	08/10/25 11:40	08/11/25 14:40
92811471022	**HAM-MW-24D**	Water	08/10/25 12:52	08/11/25 14:40

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SAMPLE ANALYTE COUNT

Project: Plant Hammond-AP-1
Pace Project No.: 92811471

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92811471009	**HAM-HGWC-7**	EPA 6020B	JPD	1	PAN
		SM 2540C-2020	CDM	1	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6020B	BW	13	PASI-WC
		EPA 7470A	KAJ1	1	PASI-WC
92811471010	**HAM-HGWC-8**	EPA 6020B	JPD	1	PAN
		SM 2540C-2020	CDM	1	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6020B	BW	13	PASI-WC
		EPA 7470A	KAJ1	1	PASI-WC
92811471011	**HAM-HGWC-10**	EPA 6020B	JPD	1	PAN
		SM 2540C-2020	CDM	1	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6020B	BW	13	PASI-WC
		EPA 7470A	KAJ1	1	PASI-WC
92811471012	**HAM-HGWC-11**	EPA 6020B	JPD	1	PAN
		SM 2540C-2020	CDM	1	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6020B	BW	13	PASI-WC
		EPA 7470A	KAJ1	1	PASI-WC
92811471013	**HAM-HGWC-12**	EPA 6020B	JPD	1	PAN
		SM 2540C-2020	CDM	1	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6020B	BW	13	PASI-WC
		EPA 7470A	KAJ1	1	PASI-WC
92811471014	**HAM-MW-19**	EPA 6020B	JPD	1	PAN
		SM 2540C-2020	CDM	1	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6020B	BW	13	PASI-WC
		EPA 7470A	KAJ1	1	PASI-WC
92811471015	**HAM-MW-20**	EPA 6020B	JPD	1	PAN
		SM 2540C-2020	CDM	1	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6020B	BW	13	PASI-WC
		EPA 7470A	KAJ1	1	PASI-WC
92811471016	**HAM-MW-27D**	EPA 6020B	JPD	1	PAN
		SM 2540C-2020	CDM	1	PASI-A

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SAMPLE ANALYTE COUNT

Project: Plant Hammond-AP-1
Pace Project No.: 92811471

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6020B	BW	13	PASI-WC
		EPA 7470A	KAJ1	1	PASI-WC
92811471017	**HAM-AP1-FD-01**	EPA 6020B	JPD	1	PAN
		SM 2540C-2020	CDM	1	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6020B	BW	13	PASI-WC
		EPA 7470A	KAJ1	1	PASI-WC
92811471018	**HAM-AP1-EB-01**	EPA 6020B	JPD	1	PAN
		SM 2540C-2020	CDM	1	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6020B	BW	13	PASI-WC
		EPA 7470A	KAJ1	1	PASI-WC
92811471019	**HAM-AP1-FB-01**	EPA 6020B	JPD	1	PAN
		SM 2540C-2020	CDM	1	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6020B	BW	13	PASI-WC
		EPA 7470A	KAJ1	1	PASI-WC
92811471020	**HAM-HGWC-9**	EPA 6020B	JPD	1	PAN
		SM 2540C-2020	YEG	1	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6020B	BW	13	PASI-WC
		EPA 7470A	KAJ1	1	PASI-WC
92811471021	**HAM-HGWC-13**	EPA 6020B	SJM	1	PAN
		SM 2540C-2020	CDM	1	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6020B	BW	13	PASI-WC
		EPA 7470A	KAJ1	1	PASI-WC
92811471022	**HAM-MW-24D**	EPA 6020B	SJM	1	PAN
		SM 2540C-2020	CDM	1	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6020B	BW	13	PASI-WC
		EPA 7470A	KAJ1	1	PASI-WC

PAN = Pace National - Mt. Juliet
PASI-A = Pace Analytical Services - Asheville
PASI-WC = Pace Analytical Services - West Columbia

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Plant Hammond-AP-1
Pace Project No.: 92811471

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92811471009	**HAM-HGWC-7**					
EPA 6020B	Lithium	0.00189J	mg/L	0.00200	08/28/25 00:29	J
SM 2540C-2020	Total Dissolved Solids	407	mg/L	25.0	08/12/25 13:38	
EPA 300.0 Rev 2.1 1993	Chloride	27.7	mg/L	1.0	08/12/25 00:53	
EPA 300.0 Rev 2.1 1993	Fluoride	0.11	mg/L	0.10	08/12/25 00:53	M1
EPA 300.0 Rev 2.1 1993	Sulfate	97.2	mg/L	1.0	08/12/25 00:53	M1
EPA 6020B	Barium	0.078	mg/L	0.0050	08/22/25 15:26	
EPA 6020B	Boron	0.74	mg/L	0.40	08/23/25 08:47	
EPA 6020B	Calcium	92.3	mg/L	4.0	08/25/25 14:04	
EPA 6020B	Molybdenum	0.017	mg/L	0.010	08/22/25 15:26	
92811471010	**HAM-HGWC-8**					
SM 2540C-2020	Total Dissolved Solids	333	mg/L	25.0	08/12/25 13:38	
EPA 300.0 Rev 2.1 1993	Chloride	21.9	mg/L	1.0	08/12/25 01:38	
EPA 300.0 Rev 2.1 1993	Fluoride	0.22	mg/L	0.10	08/12/25 01:38	
EPA 300.0 Rev 2.1 1993	Sulfate	90.3	mg/L	4.0	08/12/25 14:26	
EPA 6020B	Barium	0.039	mg/L	0.0050	08/22/25 15:35	
EPA 6020B	Beryllium	0.00034J	mg/L	0.00040	08/22/25 15:35	
EPA 6020B	Boron	1.3	mg/L	0.40	08/23/25 08:56	
EPA 6020B	Cadmium	0.00017J	mg/L	0.00050	08/22/25 15:35	
EPA 6020B	Calcium	57.6	mg/L	4.0	08/25/25 14:13	
EPA 6020B	Cobalt	0.0037J	mg/L	0.0050	08/22/25 15:35	
EPA 6020B	Molybdenum	0.047	mg/L	0.010	08/22/25 15:35	
92811471011	**HAM-HGWC-10**					
SM 2540C-2020	Total Dissolved Solids	280	mg/L	25.0	08/12/25 13:38	
EPA 300.0 Rev 2.1 1993	Chloride	2.1	mg/L	1.0	08/12/25 01:52	
EPA 300.0 Rev 2.1 1993	Fluoride	0.16	mg/L	0.10	08/12/25 01:52	
EPA 300.0 Rev 2.1 1993	Sulfate	57.2	mg/L	1.0	08/12/25 01:52	
EPA 6020B	Barium	0.061	mg/L	0.0050	08/22/25 16:00	
EPA 6020B	Boron	0.16	mg/L	0.040	08/22/25 16:00	
EPA 6020B	Calcium	70.3	mg/L	4.0	08/25/25 14:21	
92811471012	**HAM-HGWC-11**					
SM 2540C-2020	Total Dissolved Solids	379	mg/L	25.0	08/12/25 13:38	
EPA 300.0 Rev 2.1 1993	Chloride	2.5	mg/L	1.0	08/12/25 02:07	
EPA 300.0 Rev 2.1 1993	Fluoride	0.22	mg/L	0.10	08/12/25 02:07	
EPA 300.0 Rev 2.1 1993	Sulfate	182	mg/L	4.0	08/12/25 13:06	
EPA 6020B	Barium	0.027	mg/L	0.0050	08/22/25 16:09	
EPA 6020B	Boron	0.24	mg/L	0.040	08/22/25 16:09	
EPA 6020B	Calcium	70.0	mg/L	4.0	08/25/25 14:30	
EPA 6020B	Molybdenum	0.0025J	mg/L	0.010	08/22/25 16:09	
EPA 6020B	Selenium	0.011	mg/L	0.0050	08/22/25 16:09	
92811471013	**HAM-HGWC-12**					
EPA 6020B	Lithium	0.00838	mg/L	0.00200	08/28/25 00:48	
SM 2540C-2020	Total Dissolved Solids	581	mg/L	25.0	08/12/25 12:10	
EPA 300.0 Rev 2.1 1993	Chloride	21.3	mg/L	1.0	08/12/25 02:22	
EPA 300.0 Rev 2.1 1993	Fluoride	0.32	mg/L	0.10	08/12/25 02:22	
EPA 300.0 Rev 2.1 1993	Sulfate	173	mg/L	4.0	08/12/25 13:21	

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SUMMARY OF DETECTION

Project: Plant Hammond-AP-1
Pace Project No.: 92811471

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92811471013	**HAM-HGWC-12**					
EPA 6020B	Arsenic	0.0022	mg/L	0.0020	08/22/25 16:18	
EPA 6020B	Barium	0.055	mg/L	0.0050	08/22/25 16:18	
EPA 6020B	Boron	1.1	mg/L	0.40	08/23/25 09:21	1g
EPA 6020B	Calcium	130	mg/L	4.0	08/25/25 14:38	M1
EPA 6020B	Molybdenum	0.037	mg/L	0.010	08/22/25 16:18	
92811471014	**HAM-MW-19**					
EPA 6020B	Lithium	0.00411	mg/L	0.00200	08/28/25 00:51	
SM 2540C-2020	Total Dissolved Solids	455	mg/L	25.0	08/12/25 12:11	
EPA 300.0 Rev 2.1 1993	Chloride	11.7	mg/L	1.0	08/12/25 03:07	
EPA 300.0 Rev 2.1 1993	Fluoride	0.16	mg/L	0.10	08/12/25 03:07	
EPA 300.0 Rev 2.1 1993	Sulfate	135	mg/L	4.0	08/12/25 16:15	
EPA 6020B	Barium	0.038	mg/L	0.0050	08/22/25 17:01	
EPA 6020B	Boron	0.39J	mg/L	0.40	08/23/25 10:04	ED
EPA 6020B	Calcium	98.9	mg/L	4.0	08/25/25 15:22	
EPA 6020B	Cobalt	0.021	mg/L	0.0050	08/22/25 17:01	
EPA 6020B	Molybdenum	0.013	mg/L	0.010	08/22/25 17:01	
EPA 6020B	Selenium	0.0038J	mg/L	0.0050	08/22/25 17:01	
92811471015	**HAM-MW-20**					
SM 2540C-2020	Total Dissolved Solids	482	mg/L	25.0	08/12/25 12:11	
EPA 300.0 Rev 2.1 1993	Chloride	28.8	mg/L	1.0	08/12/25 03:22	
EPA 300.0 Rev 2.1 1993	Fluoride	0.083J	mg/L	0.10	08/12/25 03:22	
EPA 300.0 Rev 2.1 1993	Sulfate	92.3	mg/L	2.0	08/12/25 13:51	
EPA 6020B	Barium	0.088	mg/L	0.0050	08/22/25 17:09	
EPA 6020B	Boron	0.11	mg/L	0.040	08/22/25 17:09	
EPA 6020B	Calcium	115	mg/L	4.0	08/25/25 15:47	
92811471016	**HAM-MW-27D**					
EPA 6020B	Lithium	0.00482	mg/L	0.00200	08/28/25 00:58	
SM 2540C-2020	Total Dissolved Solids	118	mg/L	25.0	08/12/25 12:11	
EPA 300.0 Rev 2.1 1993	Chloride	19.5	mg/L	1.0	08/12/25 03:36	
EPA 300.0 Rev 2.1 1993	Fluoride	0.32	mg/L	0.10	08/12/25 03:36	
EPA 300.0 Rev 2.1 1993	Sulfate	28.5	mg/L	1.0	08/12/25 03:36	
EPA 6020B	Arsenic	0.0013J	mg/L	0.0020	08/22/25 17:18	
EPA 6020B	Barium	0.26	mg/L	0.0050	08/22/25 17:18	
EPA 6020B	Boron	0.088	mg/L	0.040	08/22/25 17:18	
EPA 6020B	Calcium	21.0	mg/L	0.40	08/22/25 17:18	
EPA 6020B	Molybdenum	0.034	mg/L	0.010	08/22/25 17:18	
92811471017	**HAM-AP1-FD-01**					
SM 2540C-2020	Total Dissolved Solids	345	mg/L	25.0	08/12/25 12:11	
EPA 300.0 Rev 2.1 1993	Chloride	24.1	mg/L	1.0	08/12/25 03:51	
EPA 300.0 Rev 2.1 1993	Fluoride	0.27	mg/L	0.10	08/12/25 03:51	
EPA 300.0 Rev 2.1 1993	Sulfate	88.6	mg/L	4.0	08/12/25 14:10	
EPA 6020B	Barium	0.039	mg/L	0.0050	08/22/25 17:44	
EPA 6020B	Beryllium	0.00022J	mg/L	0.00040	08/22/25 17:44	
EPA 6020B	Boron	1.3	mg/L	0.40	08/23/25 10:48	
EPA 6020B	Cadmium	0.00016J	mg/L	0.00050	08/22/25 17:44	

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SUMMARY OF DETECTION

Project: Plant Hammond-AP-1
Pace Project No.: 92811471

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92811471017	**HAM-AP1-FD-01**					
EPA 6020B	Calcium	64.1	mg/L	4.0	08/25/25 16:05	
EPA 6020B	Cobalt	0.0030J	mg/L	0.0050	08/22/25 17:44	
EPA 6020B	Molybdenum	0.10	mg/L	0.010	08/22/25 17:44	
EPA 6020B	Thallium	0.00018J	mg/L	0.00050	08/22/25 17:44	
92811471020	**HAM-HGWC-9**					
EPA 6020B	Lithium	0.00232	mg/L	0.00200	08/28/25 01:11	
SM 2540C-2020	Total Dissolved Solids	613	mg/L	25.0	08/13/25 11:51	2g
EPA 300.0 Rev 2.1 1993	Chloride	84.4	mg/L	1.0	08/12/25 04:06	
EPA 300.0 Rev 2.1 1993	Fluoride	0.10	mg/L	0.10	08/12/25 04:06	
EPA 300.0 Rev 2.1 1993	Sulfate	148	mg/L	4.0	08/12/25 16:31	
EPA 6020B	Barium	0.060	mg/L	0.0050	08/22/25 18:10	
EPA 6020B	Boron	2.0	mg/L	0.40	08/23/25 11:13	
EPA 6020B	Calcium	122	mg/L	4.0	08/25/25 16:30	
EPA 6020B	Molybdenum	0.0050J	mg/L	0.010	08/22/25 18:10	
92811471021	**HAM-HGWC-13**					
EPA 6020B	Lithium	0.0333	mg/L	0.00200	09/07/25 12:19	
SM 2540C-2020	Total Dissolved Solids	473	mg/L	25.0	08/14/25 16:46	
EPA 300.0 Rev 2.1 1993	Chloride	14.8	mg/L	1.0	08/13/25 04:19	
EPA 300.0 Rev 2.1 1993	Fluoride	0.44	mg/L	0.10	08/13/25 04:19	
EPA 300.0 Rev 2.1 1993	Sulfate	131	mg/L	3.0	08/13/25 14:05	
EPA 6020B	Arsenic	0.48	mg/L	0.020	08/15/25 06:53	
EPA 6020B	Barium	0.046	mg/L	0.0050	08/15/25 04:24	
EPA 6020B	Beryllium	0.00018J	mg/L	0.00040	08/15/25 04:24	
EPA 6020B	Boron	0.77	mg/L	0.40	08/15/25 06:53	
EPA 6020B	Calcium	109	mg/L	4.0	08/15/25 06:53	
EPA 6020B	Cobalt	0.010	mg/L	0.0050	08/15/25 04:24	
EPA 6020B	Lead	0.00033J	mg/L	0.0010	08/15/25 04:24	
EPA 6020B	Molybdenum	0.018	mg/L	0.010	08/15/25 04:24	
EPA 6020B	Thallium	0.00029J	mg/L	0.00050	08/15/25 04:24	
92811471022	**HAM-MW-24D**					
EPA 6020B	Lithium	0.00352	mg/L	0.00200	09/07/25 12:31	
SM 2540C-2020	Total Dissolved Solids	432	mg/L	25.0	08/14/25 16:48	
EPA 300.0 Rev 2.1 1993	Chloride	32.6	mg/L	1.0	08/13/25 04:34	
EPA 300.0 Rev 2.1 1993	Fluoride	0.084J	mg/L	0.10	08/13/25 04:34	
EPA 300.0 Rev 2.1 1993	Sulfate	133	mg/L	3.0	08/13/25 14:21	
EPA 6020B	Barium	0.055	mg/L	0.0050	08/15/25 04:34	
EPA 6020B	Boron	0.57	mg/L	0.40	08/15/25 07:02	
EPA 6020B	Calcium	103	mg/L	4.0	08/15/25 07:02	
EPA 6020B	Molybdenum	0.0035J	mg/L	0.010	08/15/25 04:34	

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ANALYTICAL RESULTS

Project: Plant Hammond-AP-1
Pace Project No.: 92811471

Sample: HAM-HGWC-7 **Lab ID: 92811471009** Collected: 08/06/25 16:42 Received: 08/08/25 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.00189J**	mg/L	0.00200	0.000600	1	08/15/25 14:20	08/28/25 00:29	7439-93-2	J
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2020 Pace Analytical Services - Asheville								
Total Dissolved Solids	**407**	mg/L	25.0	25.0	1		08/12/25 13:38		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**27.7**	mg/L	1.0	0.60	1		08/12/25 00:53	16887-00-6	
Fluoride	**0.11**	mg/L	0.10	0.050	1		08/12/25 00:53	16984-48-8	M1
Sulfate	**97.2**	mg/L	1.0	0.50	1		08/12/25 00:53	14808-79-8	M1
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0020	0.00050	1	08/13/25 10:46	08/22/25 15:26	7440-36-0	
Arsenic	ND	mg/L	0.0020	0.0012	1	08/13/25 10:46	08/22/25 15:26	7440-38-2	
Barium	**0.078**	mg/L	0.0050	0.0012	1	08/13/25 10:46	08/22/25 15:26	7440-39-3	
Beryllium	ND	mg/L	0.00040	0.00015	1	08/13/25 10:46	08/22/25 15:26	7440-41-7	
Boron	**0.74**	mg/L	0.40	0.062	10	08/13/25 10:46	08/23/25 08:47	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	08/13/25 10:46	08/22/25 15:26	7440-43-9	
Calcium	**92.3**	mg/L	4.0	1.0	10	08/13/25 10:46	08/25/25 14:04	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	08/13/25 10:46	08/22/25 15:26	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.0012	1	08/13/25 10:46	08/22/25 15:26	7440-48-4	
Lead	ND	mg/L	0.0010	0.00025	1	08/13/25 10:46	08/22/25 15:26	7439-92-1	
Molybdenum	**0.017**	mg/L	0.010	0.0025	1	08/13/25 10:46	08/22/25 15:26	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0012	1	08/13/25 10:46	08/22/25 15:26	7782-49-2	
Thallium	ND	mg/L	0.00050	0.00015	1	08/13/25 10:46	08/22/25 15:26	7440-28-0	
WCOL 7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - West Columbia								
Mercury	ND	mg/L	0.00020	0.000091	1	08/12/25 21:21	08/13/25 23:36	7439-97-6	

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ANALYTICAL RESULTS

Project: Plant Hammond-AP-1
Pace Project No.: 92811471

Sample: HAM-HGWC-8 **Lab ID: 92811471010** Collected: 08/06/25 16:25 Received: 08/08/25 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	ND	mg/L	0.00200	0.000600	1	08/15/25 14:20	08/28/25 00:32	7439-93-2	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2020 Pace Analytical Services - Asheville								
Total Dissolved Solids	**333**	mg/L	25.0	25.0	1		08/12/25 13:38		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**21.9**	mg/L	1.0	0.60	1		08/12/25 01:38	16887-00-6	
Fluoride	**0.22**	mg/L	0.10	0.050	1		08/12/25 01:38	16984-48-8	
Sulfate	**90.3**	mg/L	4.0	2.0	4		08/12/25 14:26	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0020	0.00050	1	08/13/25 10:46	08/22/25 15:35	7440-36-0	
Arsenic	ND	mg/L	0.0020	0.0012	1	08/13/25 10:46	08/22/25 15:35	7440-38-2	
Barium	**0.039**	mg/L	0.0050	0.0012	1	08/13/25 10:46	08/22/25 15:35	7440-39-3	
Beryllium	**0.00034J**	mg/L	0.00040	0.00015	1	08/13/25 10:46	08/22/25 15:35	7440-41-7	
Boron	**1.3**	mg/L	0.40	0.062	10	08/13/25 10:46	08/23/25 08:56	7440-42-8	
Cadmium	**0.00017J**	mg/L	0.00050	0.00012	1	08/13/25 10:46	08/22/25 15:35	7440-43-9	
Calcium	**57.6**	mg/L	4.0	1.0	10	08/13/25 10:46	08/25/25 14:13	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	08/13/25 10:46	08/22/25 15:35	7440-47-3	
Cobalt	**0.0037J**	mg/L	0.0050	0.0012	1	08/13/25 10:46	08/22/25 15:35	7440-48-4	
Lead	ND	mg/L	0.0010	0.00025	1	08/13/25 10:46	08/22/25 15:35	7439-92-1	
Molybdenum	**0.047**	mg/L	0.010	0.0025	1	08/13/25 10:46	08/22/25 15:35	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0012	1	08/13/25 10:46	08/22/25 15:35	7782-49-2	
Thallium	ND	mg/L	0.00050	0.00015	1	08/13/25 10:46	08/22/25 15:35	7440-28-0	
WCOL 7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - West Columbia								
Mercury	ND	mg/L	0.00020	0.000091	1	08/12/25 21:21	08/13/25 23:38	7439-97-6	

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ANALYTICAL RESULTS

Project: Plant Hammond-AP-1
Pace Project No.: 92811471

Sample: HAM-HGWC-10 **Lab ID: 92811471011** Collected: 08/06/25 15:28 Received: 08/08/25 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	ND	mg/L	0.00200	0.000600	1	08/15/25 14:20	08/28/25 00:42	7439-93-2	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2020 Pace Analytical Services - Asheville								
Total Dissolved Solids	**280**	mg/L	25.0	25.0	1		08/12/25 13:38		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**2.1**	mg/L	1.0	0.60	1		08/12/25 01:52	16887-00-6	
Fluoride	**0.16**	mg/L	0.10	0.050	1		08/12/25 01:52	16984-48-8	
Sulfate	**57.2**	mg/L	1.0	0.50	1		08/12/25 01:52	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0020	0.00050	1	08/13/25 10:46	08/22/25 16:00	7440-36-0	
Arsenic	ND	mg/L	0.0020	0.0012	1	08/13/25 10:46	08/22/25 16:00	7440-38-2	
Barium	**0.061**	mg/L	0.0050	0.0012	1	08/13/25 10:46	08/22/25 16:00	7440-39-3	
Beryllium	ND	mg/L	0.00040	0.00015	1	08/13/25 10:46	08/22/25 16:00	7440-41-7	
Boron	**0.16**	mg/L	0.040	0.0062	1	08/13/25 10:46	08/22/25 16:00	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	08/13/25 10:46	08/22/25 16:00	7440-43-9	
Calcium	**70.3**	mg/L	4.0	1.0	10	08/13/25 10:46	08/25/25 14:21	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	08/13/25 10:46	08/22/25 16:00	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.0012	1	08/13/25 10:46	08/22/25 16:00	7440-48-4	
Lead	ND	mg/L	0.0010	0.00025	1	08/13/25 10:46	08/22/25 16:00	7439-92-1	
Molybdenum	ND	mg/L	0.010	0.0025	1	08/13/25 10:46	08/22/25 16:00	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0012	1	08/13/25 10:46	08/22/25 16:00	7782-49-2	
Thallium	ND	mg/L	0.00050	0.00015	1	08/13/25 10:46	08/22/25 16:00	7440-28-0	
WCOL 7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - West Columbia								
Mercury	ND	mg/L	0.00020	0.000091	1	08/12/25 21:21	08/13/25 23:41	7439-97-6	

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ANALYTICAL RESULTS

Project: Plant Hammond-AP-1
Pace Project No.: 92811471

Sample: HAM-HGWC-11 **Lab ID: 92811471012** Collected: 08/06/25 12:14 Received: 08/08/25 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	ND	mg/L	0.00200	0.000600	1	08/15/25 14:20	08/28/25 00:45	7439-93-2	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2020 Pace Analytical Services - Asheville								
Total Dissolved Solids	**379**	mg/L	25.0	25.0	1		08/12/25 13:38		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**2.5**	mg/L	1.0	0.60	1		08/12/25 02:07	16887-00-6	
Fluoride	**0.22**	mg/L	0.10	0.050	1		08/12/25 02:07	16984-48-8	
Sulfate	**182**	mg/L	4.0	2.0	4		08/12/25 13:06	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0020	0.00050	1	08/13/25 10:46	08/22/25 16:09	7440-36-0	
Arsenic	ND	mg/L	0.0020	0.0012	1	08/13/25 10:46	08/22/25 16:09	7440-38-2	
Barium	**0.027**	mg/L	0.0050	0.0012	1	08/13/25 10:46	08/22/25 16:09	7440-39-3	
Beryllium	ND	mg/L	0.00040	0.00015	1	08/13/25 10:46	08/22/25 16:09	7440-41-7	
Boron	**0.24**	mg/L	0.040	0.0062	1	08/13/25 10:46	08/22/25 16:09	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	08/13/25 10:46	08/22/25 16:09	7440-43-9	
Calcium	**70.0**	mg/L	4.0	1.0	10	08/13/25 10:46	08/25/25 14:30	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	08/13/25 10:46	08/22/25 16:09	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.0012	1	08/13/25 10:46	08/22/25 16:09	7440-48-4	
Lead	ND	mg/L	0.0010	0.00025	1	08/13/25 10:46	08/22/25 16:09	7439-92-1	
Molybdenum	**0.0025J**	mg/L	0.010	0.0025	1	08/13/25 10:46	08/22/25 16:09	7439-98-7	
Selenium	**0.011**	mg/L	0.0050	0.0012	1	08/13/25 10:46	08/22/25 16:09	7782-49-2	
Thallium	ND	mg/L	0.00050	0.00015	1	08/13/25 10:46	08/22/25 16:09	7440-28-0	
WCOL 7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - West Columbia								
Mercury	ND	mg/L	0.00020	0.000091	1	08/12/25 21:21	08/13/25 23:44	7439-97-6	

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ANALYTICAL RESULTS

Project: Plant Hammond-AP-1
Pace Project No.: 92811471

Sample: HAM-HGWC-12 **Lab ID: 92811471013** Collected: 08/06/25 10:08 Received: 08/08/25 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.00838**	mg/L	0.00200	0.000600	1	08/15/25 14:20	08/28/25 00:48	7439-93-2	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2020 Pace Analytical Services - Asheville								
Total Dissolved Solids	**581**	mg/L	25.0	25.0	1		08/12/25 12:10		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**21.3**	mg/L	1.0	0.60	1		08/12/25 02:22	16887-00-6	
Fluoride	**0.32**	mg/L	0.10	0.050	1		08/12/25 02:22	16984-48-8	
Sulfate	**173**	mg/L	4.0	2.0	4		08/12/25 13:21	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0020	0.00050	1	08/13/25 10:46	08/22/25 16:18	7440-36-0	
Arsenic	**0.0022**	mg/L	0.0020	0.0012	1	08/13/25 10:46	08/22/25 16:18	7440-38-2	
Barium	**0.055**	mg/L	0.0050	0.0012	1	08/13/25 10:46	08/22/25 16:18	7440-39-3	
Beryllium	ND	mg/L	0.00040	0.00015	1	08/13/25 10:46	08/22/25 16:18	7440-41-7	
Boron	**1.1**	mg/L	0.40	0.062	10	08/13/25 10:46	08/23/25 09:21	7440-42-8	1g
Cadmium	ND	mg/L	0.00050	0.00012	1	08/13/25 10:46	08/22/25 16:18	7440-43-9	
Calcium	**130**	mg/L	4.0	1.0	10	08/13/25 10:46	08/25/25 14:38	7440-70-2	M1
Chromium	ND	mg/L	0.0050	0.0012	1	08/13/25 10:46	08/22/25 16:18	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.0012	1	08/13/25 10:46	08/22/25 16:18	7440-48-4	
Lead	ND	mg/L	0.0010	0.00025	1	08/13/25 10:46	08/22/25 16:18	7439-92-1	
Molybdenum	**0.037**	mg/L	0.010	0.0025	1	08/13/25 10:46	08/22/25 16:18	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0012	1	08/13/25 10:46	08/22/25 16:18	7782-49-2	
Thallium	ND	mg/L	0.00050	0.00015	1	08/13/25 10:46	08/22/25 16:18	7440-28-0	
WCOL 7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - West Columbia								
Mercury	ND	mg/L	0.00020	0.000091	1	08/12/25 21:21	08/13/25 23:46	7439-97-6	

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ANALYTICAL RESULTS

Project: Plant Hammond-AP-1
Pace Project No.: 92811471

Sample: HAM-MW-19 **Lab ID: 92811471014** Collected: 08/06/25 13:37 Received: 08/08/25 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.00411**	mg/L	0.00200	0.000600	1	08/15/25 14:20	08/28/25 00:51	7439-93-2	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2020 Pace Analytical Services - Asheville								
Total Dissolved Solids	**455**	mg/L	25.0	25.0	1		08/12/25 12:11		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**11.7**	mg/L	1.0	0.60	1		08/12/25 03:07	16887-00-6	
Fluoride	**0.16**	mg/L	0.10	0.050	1		08/12/25 03:07	16984-48-8	
Sulfate	**135**	mg/L	4.0	2.0	4		08/12/25 16:15	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0020	0.00050	1	08/13/25 10:46	08/22/25 17:01	7440-36-0	
Arsenic	ND	mg/L	0.0020	0.0012	1	08/13/25 10:46	08/22/25 17:01	7440-38-2	
Barium	**0.038**	mg/L	0.0050	0.0012	1	08/13/25 10:46	08/22/25 17:01	7440-39-3	
Beryllium	ND	mg/L	0.00040	0.00015	1	08/13/25 10:46	08/22/25 17:01	7440-41-7	
Boron	**0.39J**	mg/L	0.40	0.062	10	08/13/25 10:46	08/23/25 10:04	7440-42-8	ED
Cadmium	ND	mg/L	0.00050	0.00012	1	08/13/25 10:46	08/22/25 17:01	7440-43-9	
Calcium	**98.9**	mg/L	4.0	1.0	10	08/13/25 10:46	08/25/25 15:22	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	08/13/25 10:46	08/22/25 17:01	7440-47-3	
Cobalt	**0.021**	mg/L	0.0050	0.0012	1	08/13/25 10:46	08/22/25 17:01	7440-48-4	
Lead	ND	mg/L	0.0010	0.00025	1	08/13/25 10:46	08/22/25 17:01	7439-92-1	
Molybdenum	**0.013**	mg/L	0.010	0.0025	1	08/13/25 10:46	08/22/25 17:01	7439-98-7	
Selenium	**0.0038J**	mg/L	0.0050	0.0012	1	08/13/25 10:46	08/22/25 17:01	7782-49-2	
Thallium	ND	mg/L	0.00050	0.00015	1	08/13/25 10:46	08/22/25 17:01	7440-28-0	
WCOL 7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - West Columbia								
Mercury	ND	mg/L	0.00020	0.000091	1	08/12/25 21:21	08/13/25 23:49	7439-97-6	

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ANALYTICAL RESULTS

Project: Plant Hammond-AP-1
Pace Project No.: 92811471

Sample: HAM-MW-20 **Lab ID: 92811471015** Collected: 08/06/25 10:00 Received: 08/08/25 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	ND	mg/L	0.00200	0.000600	1	08/15/25 14:20	08/28/25 00:55	7439-93-2	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2020 Pace Analytical Services - Asheville								
Total Dissolved Solids	**482**	mg/L	25.0	25.0	1		08/12/25 12:11		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**28.8**	mg/L	1.0	0.60	1		08/12/25 03:22	16887-00-6	
Fluoride	**0.083J**	mg/L	0.10	0.050	1		08/12/25 03:22	16984-48-8	
Sulfate	**92.3**	mg/L	2.0	1.0	2		08/12/25 13:51	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0020	0.00050	1	08/13/25 10:46	08/22/25 17:09	7440-36-0	
Arsenic	ND	mg/L	0.0020	0.0012	1	08/13/25 10:46	08/22/25 17:09	7440-38-2	
Barium	**0.088**	mg/L	0.0050	0.0012	1	08/13/25 10:46	08/22/25 17:09	7440-39-3	
Beryllium	ND	mg/L	0.00040	0.00015	1	08/13/25 10:46	08/22/25 17:09	7440-41-7	
Boron	**0.11**	mg/L	0.040	0.0062	1	08/13/25 10:46	08/22/25 17:09	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	08/13/25 10:46	08/22/25 17:09	7440-43-9	
Calcium	**115**	mg/L	4.0	1.0	10	08/13/25 10:46	08/25/25 15:47	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	08/13/25 10:46	08/22/25 17:09	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.0012	1	08/13/25 10:46	08/22/25 17:09	7440-48-4	
Lead	ND	mg/L	0.0010	0.00025	1	08/13/25 10:46	08/22/25 17:09	7439-92-1	
Molybdenum	ND	mg/L	0.010	0.0025	1	08/13/25 10:46	08/22/25 17:09	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0012	1	08/13/25 10:46	08/22/25 17:09	7782-49-2	
Thallium	ND	mg/L	0.00050	0.00015	1	08/13/25 10:46	08/22/25 17:09	7440-28-0	
WCOL 7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - West Columbia								
Mercury	ND	mg/L	0.00020	0.000091	1	08/12/25 21:21	08/13/25 23:56	7439-97-6	

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ANALYTICAL RESULTS

Project: Plant Hammond-AP-1
Pace Project No.: 92811471

Sample: HAM-MW-27D **Lab ID: 92811471016** Collected: 08/06/25 14:42 Received: 08/08/25 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.00482**	mg/L	0.00200	0.000600	1	08/15/25 14:20	08/28/25 00:58	7439-93-2	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2020 Pace Analytical Services - Asheville								
Total Dissolved Solids	**118**	mg/L	25.0	25.0	1		08/12/25 12:11		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**19.5**	mg/L	1.0	0.60	1		08/12/25 03:36	16887-00-6	
Fluoride	**0.32**	mg/L	0.10	0.050	1		08/12/25 03:36	16984-48-8	
Sulfate	**28.5**	mg/L	1.0	0.50	1		08/12/25 03:36	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0020	0.00050	1	08/13/25 10:46	08/22/25 17:18	7440-36-0	
Arsenic	**0.0013J**	mg/L	0.0020	0.0012	1	08/13/25 10:46	08/22/25 17:18	7440-38-2	
Barium	**0.26**	mg/L	0.0050	0.0012	1	08/13/25 10:46	08/22/25 17:18	7440-39-3	
Beryllium	ND	mg/L	0.00040	0.00015	1	08/13/25 10:46	08/22/25 17:18	7440-41-7	
Boron	**0.088**	mg/L	0.040	0.0062	1	08/13/25 10:46	08/22/25 17:18	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	08/13/25 10:46	08/22/25 17:18	7440-43-9	
Calcium	**21.0**	mg/L	0.40	0.10	1	08/13/25 10:46	08/22/25 17:18	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	08/13/25 10:46	08/22/25 17:18	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.0012	1	08/13/25 10:46	08/22/25 17:18	7440-48-4	
Lead	ND	mg/L	0.0010	0.00025	1	08/13/25 10:46	08/22/25 17:18	7439-92-1	
Molybdenum	**0.034**	mg/L	0.010	0.0025	1	08/13/25 10:46	08/22/25 17:18	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0012	1	08/13/25 10:46	08/22/25 17:18	7782-49-2	
Thallium	ND	mg/L	0.00050	0.00015	1	08/13/25 10:46	08/22/25 17:18	7440-28-0	
WCOL 7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - West Columbia								
Mercury	ND	mg/L	0.00020	0.000091	1	08/12/25 21:21	08/13/25 23:59	7439-97-6	

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ANALYTICAL RESULTS

Project: Plant Hammond-AP-1
Pace Project No.: 92811471

Sample: HAM-AP1-FD-01 **Lab ID: 92811471017** Collected: 08/06/25 00:00 Received: 08/08/25 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	ND	mg/L	0.00200	0.000600	1	08/15/25 14:20	08/28/25 01:01	7439-93-2	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2020 Pace Analytical Services - Asheville								
Total Dissolved Solids	**345**	mg/L	25.0	25.0	1		08/12/25 12:11		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**24.1**	mg/L	1.0	0.60	1		08/12/25 03:51	16887-00-6	
Fluoride	**0.27**	mg/L	0.10	0.050	1		08/12/25 03:51	16984-48-8	
Sulfate	**88.6**	mg/L	4.0	2.0	4		08/12/25 14:10	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0020	0.00050	1	08/13/25 10:46	08/22/25 17:44	7440-36-0	
Arsenic	ND	mg/L	0.0020	0.0012	1	08/13/25 10:46	08/22/25 17:44	7440-38-2	
Barium	**0.039**	mg/L	0.0050	0.0012	1	08/13/25 10:46	08/22/25 17:44	7440-39-3	
Beryllium	**0.00022J**	mg/L	0.00040	0.00015	1	08/13/25 10:46	08/22/25 17:44	7440-41-7	
Boron	**1.3**	mg/L	0.40	0.062	10	08/13/25 10:46	08/23/25 10:48	7440-42-8	
Cadmium	**0.00016J**	mg/L	0.00050	0.00012	1	08/13/25 10:46	08/22/25 17:44	7440-43-9	
Calcium	**64.1**	mg/L	4.0	1.0	10	08/13/25 10:46	08/25/25 16:05	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	08/13/25 10:46	08/22/25 17:44	7440-47-3	
Cobalt	**0.0030J**	mg/L	0.0050	0.0012	1	08/13/25 10:46	08/22/25 17:44	7440-48-4	
Lead	ND	mg/L	0.0010	0.00025	1	08/13/25 10:46	08/22/25 17:44	7439-92-1	
Molybdenum	**0.10**	mg/L	0.010	0.0025	1	08/13/25 10:46	08/22/25 17:44	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0012	1	08/13/25 10:46	08/22/25 17:44	7782-49-2	
Thallium	**0.00018J**	mg/L	0.00050	0.00015	1	08/13/25 10:46	08/22/25 17:44	7440-28-0	
WCOL 7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - West Columbia								
Mercury	ND	mg/L	0.00020	0.000091	1	08/12/25 21:21	08/14/25 00:02	7439-97-6	

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ANALYTICAL RESULTS

Project: Plant Hammond-AP-1
Pace Project No.: 92811471

Sample: HAM-AP1-EB-01 **Lab ID: 92811471018** Collected: 08/06/25 15:20 Received: 08/08/25 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	ND	mg/L	0.00200	0.000600	1	08/15/25 14:20	08/28/25 01:04	7439-93-2	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2020 Pace Analytical Services - Asheville								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		08/12/25 12:11		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		08/11/25 22:10	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/11/25 22:10	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		08/11/25 22:10	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0020	0.00050	1	08/13/25 10:46	08/22/25 17:53	7440-36-0	
Arsenic	ND	mg/L	0.0020	0.0012	1	08/13/25 10:46	08/22/25 17:53	7440-38-2	
Barium	ND	mg/L	0.0050	0.0012	1	08/13/25 10:46	08/22/25 17:53	7440-39-3	
Beryllium	ND	mg/L	0.00040	0.00015	1	08/13/25 10:46	08/22/25 17:53	7440-41-7	
Boron	ND	mg/L	0.040	0.0062	1	08/13/25 10:46	08/22/25 17:53	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	08/13/25 10:46	08/22/25 17:53	7440-43-9	
Calcium	ND	mg/L	0.40	0.10	1	08/13/25 10:46	08/22/25 17:53	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	08/13/25 10:46	08/22/25 17:53	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.0012	1	08/13/25 10:46	08/22/25 17:53	7440-48-4	
Lead	ND	mg/L	0.0010	0.00025	1	08/13/25 10:46	08/22/25 17:53	7439-92-1	
Molybdenum	ND	mg/L	0.010	0.0025	1	08/13/25 10:46	08/22/25 17:53	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0012	1	08/13/25 10:46	08/22/25 17:53	7782-49-2	
Thallium	ND	mg/L	0.00050	0.00015	1	08/13/25 10:46	08/22/25 17:53	7440-28-0	
WCOL 7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - West Columbia								
Mercury	ND	mg/L	0.00020	0.000091	1	08/12/25 21:21	08/14/25 00:09	7439-97-6	

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ANALYTICAL RESULTS

Project: Plant Hammond-AP-1
Pace Project No.: 92811471

Sample: HAM-AP1-FB-01 **Lab ID: 92811471019** Collected: 08/06/25 15:15 Received: 08/08/25 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	ND	mg/L	0.00200	0.000600	1	08/15/25 14:20	08/28/25 01:07	7439-93-2	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2020 Pace Analytical Services - Asheville								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		08/12/25 12:11		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		08/11/25 22:25	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/11/25 22:25	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		08/11/25 22:25	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0020	0.00050	1	08/13/25 10:46	08/22/25 18:01	7440-36-0	
Arsenic	ND	mg/L	0.0020	0.0012	1	08/13/25 10:46	08/22/25 18:01	7440-38-2	
Barium	ND	mg/L	0.0050	0.0012	1	08/13/25 10:46	08/22/25 18:01	7440-39-3	
Beryllium	ND	mg/L	0.00040	0.00015	1	08/13/25 10:46	08/22/25 18:01	7440-41-7	
Boron	ND	mg/L	0.040	0.0062	1	08/13/25 10:46	08/22/25 18:01	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	08/13/25 10:46	08/22/25 18:01	7440-43-9	
Calcium	ND	mg/L	0.40	0.10	1	08/13/25 10:46	08/22/25 18:01	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	08/13/25 10:46	08/22/25 18:01	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.0012	1	08/13/25 10:46	08/22/25 18:01	7440-48-4	
Lead	ND	mg/L	0.0010	0.00025	1	08/13/25 10:46	08/22/25 18:01	7439-92-1	
Molybdenum	ND	mg/L	0.010	0.0025	1	08/13/25 10:46	08/22/25 18:01	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0012	1	08/13/25 10:46	08/22/25 18:01	7782-49-2	
Thallium	ND	mg/L	0.00050	0.00015	1	08/13/25 10:46	08/22/25 18:01	7440-28-0	
WCOL 7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - West Columbia								
Mercury	ND	mg/L	0.00020	0.000091	1	08/12/25 21:21	08/14/25 00:12	7439-97-6	

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ANALYTICAL RESULTS

Project: Plant Hammond-AP-1
Pace Project No.: 92811471

Sample: HAM-HGWC-9 **Lab ID: 92811471020** Collected: 08/07/25 09:51 Received: 08/08/25 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.00232**	mg/L	0.00200	0.000600	1	08/15/25 14:20	08/28/25 01:11	7439-93-2	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2020 Pace Analytical Services - Asheville								
Total Dissolved Solids	**613**	mg/L	25.0	25.0	1		08/13/25 11:51		2g
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**84.4**	mg/L	1.0	0.60	1		08/12/25 04:06	16887-00-6	
Fluoride	**0.10**	mg/L	0.10	0.050	1		08/12/25 04:06	16984-48-8	
Sulfate	**148**	mg/L	4.0	2.0	4		08/12/25 16:31	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0020	0.00050	1	08/13/25 10:46	08/22/25 18:10	7440-36-0	
Arsenic	ND	mg/L	0.0020	0.0012	1	08/13/25 10:46	08/22/25 18:10	7440-38-2	
Barium	**0.060**	mg/L	0.0050	0.0012	1	08/13/25 10:46	08/22/25 18:10	7440-39-3	
Beryllium	ND	mg/L	0.00040	0.00015	1	08/13/25 10:46	08/22/25 18:10	7440-41-7	
Boron	**2.0**	mg/L	0.40	0.062	10	08/13/25 10:46	08/23/25 11:13	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	08/13/25 10:46	08/22/25 18:10	7440-43-9	
Calcium	**122**	mg/L	4.0	1.0	10	08/13/25 10:46	08/25/25 16:30	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	08/13/25 10:46	08/22/25 18:10	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.0012	1	08/13/25 10:46	08/22/25 18:10	7440-48-4	
Lead	ND	mg/L	0.0010	0.00025	1	08/13/25 10:46	08/22/25 18:10	7439-92-1	
Molybdenum	**0.0050J**	mg/L	0.010	0.0025	1	08/13/25 10:46	08/22/25 18:10	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0012	1	08/13/25 10:46	08/22/25 18:10	7782-49-2	
Thallium	ND	mg/L	0.00050	0.00015	1	08/13/25 10:46	08/22/25 18:10	7440-28-0	
WCOL 7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - West Columbia								
Mercury	ND	mg/L	0.00020	0.000091	1	08/12/25 21:21	08/14/25 00:14	7439-97-6	

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ANALYTICAL RESULTS

Project: Plant Hammond-AP-1
Pace Project No.: 92811471

Sample: HAM-HGWC-13 **Lab ID: 92811471021** Collected: 08/10/25 11:40 Received: 08/11/25 14:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.0333**	mg/L	0.00200	0.000600	1	08/19/25 00:38	09/07/25 12:19	7439-93-2	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2020 Pace Analytical Services - Asheville								
Total Dissolved Solids	**473**	mg/L	25.0	25.0	1		08/14/25 16:46		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**14.8**	mg/L	1.0	0.60	1		08/13/25 04:19	16887-00-6	
Fluoride	**0.44**	mg/L	0.10	0.050	1		08/13/25 04:19	16984-48-8	
Sulfate	**131**	mg/L	3.0	1.5	3		08/13/25 14:05	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0020	0.00050	1	08/14/25 10:12	08/15/25 04:24	7440-36-0	
Arsenic	**0.48**	mg/L	0.020	0.012	10	08/14/25 10:12	08/15/25 06:53	7440-38-2	
Barium	**0.046**	mg/L	0.0050	0.0012	1	08/14/25 10:12	08/15/25 04:24	7440-39-3	
Beryllium	**0.00018J**	mg/L	0.00040	0.00015	1	08/14/25 10:12	08/15/25 04:24	7440-41-7	
Boron	**0.77**	mg/L	0.40	0.062	10	08/14/25 10:12	08/15/25 06:53	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	08/14/25 10:12	08/15/25 04:24	7440-43-9	
Calcium	**109**	mg/L	4.0	1.0	10	08/14/25 10:12	08/15/25 06:53	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	08/14/25 10:12	08/15/25 04:24	7440-47-3	
Cobalt	**0.010**	mg/L	0.0050	0.0012	1	08/14/25 10:12	08/15/25 04:24	7440-48-4	
Lead	**0.00033J**	mg/L	0.0010	0.00025	1	08/14/25 10:12	08/15/25 04:24	7439-92-1	
Molybdenum	**0.018**	mg/L	0.010	0.0025	1	08/14/25 10:12	08/15/25 04:24	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0012	1	08/14/25 10:12	08/15/25 04:24	7782-49-2	
Thallium	**0.00029J**	mg/L	0.00050	0.00015	1	08/14/25 10:12	08/15/25 04:24	7440-28-0	
WCOL 7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - West Columbia								
Mercury	ND	mg/L	0.00020	0.000091	1	08/13/25 20:15	08/15/25 21:09	7439-97-6	

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ANALYTICAL RESULTS

Project: Plant Hammond-AP-1
Pace Project No.: 92811471

Sample: HAM-MW-24D **Lab ID: 92811471022** Collected: 08/10/25 12:52 Received: 08/11/25 14:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.00352**	mg/L	0.00200	0.000600	1	08/19/25 00:38	09/07/25 12:31	7439-93-2	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2020 Pace Analytical Services - Asheville								
Total Dissolved Solids	**432**	mg/L	25.0	25.0	1		08/14/25 16:48		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**32.6**	mg/L	1.0	0.60	1		08/13/25 04:34	16887-00-6	
Fluoride	**0.084J**	mg/L	0.10	0.050	1		08/13/25 04:34	16984-48-8	
Sulfate	**133**	mg/L	3.0	1.5	3		08/13/25 14:21	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0020	0.00050	1	08/14/25 10:12	08/15/25 04:34	7440-36-0	
Arsenic	ND	mg/L	0.0020	0.0012	1	08/14/25 10:12	08/15/25 04:34	7440-38-2	
Barium	**0.055**	mg/L	0.0050	0.0012	1	08/14/25 10:12	08/15/25 04:34	7440-39-3	
Beryllium	ND	mg/L	0.00040	0.00015	1	08/14/25 10:12	08/15/25 04:34	7440-41-7	
Boron	**0.57**	mg/L	0.40	0.062	10	08/14/25 10:12	08/15/25 07:02	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	08/14/25 10:12	08/15/25 04:34	7440-43-9	
Calcium	**103**	mg/L	4.0	1.0	10	08/14/25 10:12	08/15/25 07:02	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	08/14/25 10:12	08/15/25 04:34	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.0012	1	08/14/25 10:12	08/15/25 04:34	7440-48-4	
Lead	ND	mg/L	0.0010	0.00025	1	08/14/25 10:12	08/15/25 04:34	7439-92-1	
Molybdenum	**0.0035J**	mg/L	0.010	0.0025	1	08/14/25 10:12	08/15/25 04:34	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0012	1	08/14/25 10:12	08/15/25 04:34	7782-49-2	
Thallium	ND	mg/L	0.00050	0.00015	1	08/14/25 10:12	08/15/25 04:34	7440-28-0	
WCOL 7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - West Columbia								
Mercury	ND	mg/L	0.00020	0.000091	1	08/13/25 20:15	08/15/25 21:11	7439-97-6	

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QUALITY CONTROL DATA

Project: Plant Hammond-AP-1
Pace Project No.: 92811471

QC Batch: 2578718 — Analysis Method: EPA 6020B
QC Batch Method: 3015 — Analysis Description: Metals (ICPMS) 6020B
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 92811471009, 92811471010, 92811471011, 92811471012, 92811471013, 92811471014, 92811471015, 92811471016, 92811471017, 92811471018, 92811471019, 92811471020

METHOD BLANK: R4265251-1 — Matrix: Water
Associated Lab Samples: 92811471009, 92811471010, 92811471011, 92811471012, 92811471013, 92811471014, 92811471015, 92811471016, 92811471017, 92811471018, 92811471019, 92811471020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lithium	mg/L	ND	0.00200	0.000600	08/28/25 00:03	

LABORATORY CONTROL SAMPLE: R4265251-2

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lithium	mg/L	0.0500	0.0481	96.3	80.0-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R4265251-4 R4265251-5

Parameter	Units	L1884788-27 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lithium	mg/L	ND	0.0500	0.0500	0.0470	0.0462	94.0	92.5	75.0-125	1.61	20	

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QUALITY CONTROL DATA

Project: Plant Hammond-AP-1
Pace Project No.: 92811471

QC Batch: 2579862
QC Batch Method: 3015
Analysis Method: EPA 6020B
Analysis Description: Metals (ICPMS) 6020B
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 92811471021, 92811471022

METHOD BLANK: R4269821-1 Matrix: Water
Associated Lab Samples: 92811471021, 92811471022

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lithium	mg/L	ND	0.00200	0.000600	09/07/25 12:13	

LABORATORY CONTROL SAMPLE: R4269821-2

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lithium	mg/L	0.0500	0.0525	105	80.0-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R4269821-4 R4269821-5

Parameter	Units	92811471021 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lithium	mg/L	0.0333	0.0500	0.0500	0.0843	0.0866	102	107	75.0-125	2.69	20	

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QUALITY CONTROL DATA

Project: Plant Hammond-AP-1
Pace Project No.: 92811471

QC Batch: 953404 | Analysis Method: SM 2540C-2020
QC Batch Method: SM 2540C-2020 | Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92811471009, 92811471010, 92811471011, 92811471012

METHOD BLANK: 4899556 Matrix: Water
Associated Lab Samples: 92811471009, 92811471010, 92811471011, 92811471012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	08/12/25 13:33	

LABORATORY CONTROL SAMPLE: 4899557

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	260	104	90-110	

SAMPLE DUPLICATE: 4899558

Parameter	Units	92811613002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	110	114	4	25	

SAMPLE DUPLICATE: 4899559

Parameter	Units	92810483024 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	964	1030	6	25	

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QUALITY CONTROL DATA

Project: Plant Hammond-AP-1
Pace Project No.: 92811471

QC Batch: 953406 | Analysis Method: SM 2540C-2020
QC Batch Method: SM 2540C-2020 | Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92811471013, 92811471014, 92811471015, 92811471016, 92811471017, 92811471018, 92811471019

METHOD BLANK: 4899568 Matrix: Water
Associated Lab Samples: 92811471013, 92811471014, 92811471015, 92811471016, 92811471017, 92811471018, 92811471019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	08/12/25 12:10	

LABORATORY CONTROL SAMPLE: 4899569

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	272	109	90-110	

SAMPLE DUPLICATE: 4899570

Parameter	Units	92811471013 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	581	592	2	25	

SAMPLE DUPLICATE: 4899571

Parameter	Units	92812084001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	70.0	66.0	6	25	

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QUALITY CONTROL DATA

Project: Plant Hammond-AP-1
Pace Project No.: 92811471

QC Batch: 953690
QC Batch Method: SM 2540C-2020
Analysis Method: SM 2540C-2020
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92811471020

METHOD BLANK: 4901185 Matrix: Water
Associated Lab Samples: 92811471020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	08/13/25 11:49	

LABORATORY CONTROL SAMPLE: 4901186

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	260	104	90-110	

SAMPLE DUPLICATE: 4901187

Parameter	Units	92811951033 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	411	423	3	25	

SAMPLE DUPLICATE: 4901188

Parameter	Units	92810483023 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	683	767	12	25	

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QUALITY CONTROL DATA

Project: Plant Hammond-AP-1
Pace Project No.: 92811471

QC Batch: 954042
QC Batch Method: SM 2540C-2020
Analysis Method: SM 2540C-2020
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92811471021, 92811471022

METHOD BLANK: 4903230 Matrix: Water
Associated Lab Samples: 92811471021, 92811471022

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	08/14/25 16:46	

LABORATORY CONTROL SAMPLE: 4903231

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	250	100	90-110	

SAMPLE DUPLICATE: 4903232

Parameter	Units	92812273013 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	ND	ND		25	

SAMPLE DUPLICATE: 4903233

Parameter	Units	92812273017 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	198	207	4	25	

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QUALITY CONTROL DATA

Project: Plant Hammond-AP-1
Pace Project No.: 92811471

QC Batch: 953267
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92811471009, 92811471010, 92811471011, 92811471012, 92811471013, 92811471014, 92811471015, 92811471016, 92811471017, 92811471018, 92811471019, 92811471020

METHOD BLANK: 4898922 Matrix: Water
Associated Lab Samples: 92811471009, 92811471010, 92811471011, 92811471012, 92811471013, 92811471014, 92811471015, 92811471016, 92811471017, 92811471018, 92811471019, 92811471020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	08/11/25 21:10	
Fluoride	mg/L	ND	0.10	0.050	08/11/25 21:10	
Sulfate	mg/L	ND	1.0	0.50	08/11/25 21:10	

LABORATORY CONTROL SAMPLE: 4898923

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	53.2	106	90-110	
Fluoride	mg/L	2.5	2.7	108	90-110	
Sulfate	mg/L	50	53.6	107	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4898924 4898925

Parameter	Units	92811471009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	27.7	50	50	78.8	77.9	102	100	90-110	1	10	
Fluoride	mg/L	0.11	2.5	2.5	2.9	2.9	113	112	90-110	1	10	M1
Sulfate	mg/L	97.2	50	50	104	102	13	9	90-110	2	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4898926 4898927

Parameter	Units	92811471019 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	ND	50	50	51.8	52.7	104	105	90-110	2	10	
Fluoride	mg/L	ND	2.5	2.5	2.6	2.7	104	107	90-110	2	10	
Sulfate	mg/L	ND	50	50	51.7	52.6	103	105	90-110	2	10	

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QUALITY CONTROL DATA

Project: Plant Hammond-AP-1
Pace Project No.: 92811471

QC Batch: 953530
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92811471021, 92811471022

METHOD BLANK: 4900525 Matrix: Water
Associated Lab Samples: 92811471021, 92811471022

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	08/12/25 21:03	
Fluoride	mg/L	ND	0.10	0.050	08/12/25 21:03	
Sulfate	mg/L	ND	1.0	0.50	08/12/25 21:03	

LABORATORY CONTROL SAMPLE: 4900526

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.8	102	90-110	
Fluoride	mg/L	2.5	2.6	105	90-110	
Sulfate	mg/L	50	51.7	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4900527 4900528

Parameter	Units	92812429001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	22.2	50	50	69.7	72.4	95	100	90-110	4	10	
Fluoride	mg/L	ND	2.5	2.5	2.5	2.6	99	102	90-110	3	10	
Sulfate	mg/L	8.3	50	50	54.9	57.6	93	99	90-110	5	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4900529 4900530

Parameter	Units	92811498009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	ND	50	50	49.0	50.5	98	101	90-110	3	10	
Fluoride	mg/L	ND	2.5	2.5	2.6	2.6	102	103	90-110	1	10	
Sulfate	mg/L	ND	50	50	49.6	51.2	99	102	90-110	3	10	

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QUALITY CONTROL DATA

Project: Plant Hammond-AP-1
Pace Project No.: 92811471

QC Batch: 953368
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: WC 6020B MET
Laboratory: Pace Analytical Services - West Columbia
Associated Lab Samples: 92811471009, 92811471010, 92811471011, 92811471012, 92811471013, 92811471014, 92811471015, 92811471016, 92811471017, 92811471018, 92811471019, 92811471020

METHOD BLANK: 4899443 Matrix: Water
Associated Lab Samples: 92811471009, 92811471010, 92811471011, 92811471012, 92811471013, 92811471014, 92811471015, 92811471016, 92811471017, 92811471018, 92811471019, 92811471020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0020	0.00050	08/22/25 14:17	
Arsenic	mg/L	ND	0.0020	0.0012	08/22/25 14:17	
Barium	mg/L	ND	0.0050	0.0012	08/22/25 14:17	
Beryllium	mg/L	ND	0.00040	0.00015	08/22/25 14:17	
Boron	mg/L	ND	0.040	0.0062	08/22/25 14:17	
Cadmium	mg/L	ND	0.00050	0.00012	08/22/25 14:17	
Calcium	mg/L	ND	0.40	0.10	08/22/25 14:17	
Chromium	mg/L	ND	0.0050	0.0012	08/22/25 14:17	
Cobalt	mg/L	ND	0.0050	0.0012	08/22/25 14:17	
Lead	mg/L	ND	0.0010	0.00025	08/22/25 14:17	
Molybdenum	mg/L	ND	0.010	0.0025	08/22/25 14:17	
Selenium	mg/L	ND	0.0050	0.0012	08/22/25 14:17	
Thallium	mg/L	ND	0.00050	0.00015	08/22/25 14:17	

LABORATORY CONTROL SAMPLE: 4899444

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.094	94	80-120	
Arsenic	mg/L	0.1	0.091	91	80-120	
Barium	mg/L	0.1	0.094	94	80-120	
Beryllium	mg/L	0.1	0.090	90	80-120	
Boron	mg/L	0.1	0.093	93	80-120	
Cadmium	mg/L	0.1	0.091	91	80-120	
Calcium	mg/L	1	0.88	88	80-120	
Chromium	mg/L	0.1	0.10	100	80-120	
Cobalt	mg/L	0.1	0.10	100	80-120	
Lead	mg/L	0.1	0.10	102	80-120	
Molybdenum	mg/L	0.1	0.098	98	80-120	
Selenium	mg/L	0.1	0.089	89	80-120	
Thallium	mg/L	0.1	0.099	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4899445 4899446

Parameter	Units	92811471013 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.094	0.094	93	94	75-125	0	20	

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QUALITY CONTROL DATA

Project: Plant Hammond-AP-1
Pace Project No.: 92811471

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4899445 4899446

Parameter	Units	92811471013 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	0.0022	0.1	0.1	0.097	0.094	94	92	75-125	3	20	
Barium	mg/L	0.055	0.1	0.1	0.15	0.15	92	90	75-125	1	20	
Beryllium	mg/L	ND	0.1	0.1	0.091	0.091	91	91	75-125	0	20	
Boron	mg/L	1.1	0.1	0.1	1.2	1.2	101	101	75-125	0	20	
Cadmium	mg/L	ND	0.1	0.1	0.092	0.092	92	92	75-125	0	20	
Calcium	mg/L	130	1	1	131	127	110	-209	75-125	2	20	M1
Chromium	mg/L	ND	0.1	0.1	0.094	0.093	94	93	75-125	1	20	
Cobalt	mg/L	ND	0.1	0.1	0.092	0.091	91	90	75-125	2	20	
Lead	mg/L	ND	0.1	0.1	0.093	0.093	93	93	75-125	0	20	
Molybdenum	mg/L	0.037	0.1	0.1	0.13	0.13	94	89	75-125	3	20	
Selenium	mg/L	ND	0.1	0.1	0.092	0.090	92	90	75-125	2	20	
Thallium	mg/L	ND	0.1	0.1	0.094	0.094	94	94	75-125	0	20	

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QUALITY CONTROL DATA

Project: Plant Hammond-AP-1
Pace Project No.: 92811471

QC Batch: 953930
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: WC 6020B MET
Laboratory: Pace Analytical Services - West Columbia
Associated Lab Samples: 92811471021, 92811471022

METHOD BLANK: 4902818 Matrix: Water
Associated Lab Samples: 92811471021, 92811471022

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0020	0.00050	08/15/25 02:31	
Arsenic	mg/L	ND	0.0020	0.0012	08/15/25 02:31	
Barium	mg/L	ND	0.0050	0.0012	08/15/25 02:31	
Beryllium	mg/L	ND	0.00040	0.00015	08/15/25 02:31	
Boron	mg/L	ND	0.040	0.0062	08/15/25 02:31	
Cadmium	mg/L	ND	0.00050	0.00012	08/15/25 02:31	
Calcium	mg/L	ND	0.40	0.10	08/15/25 02:31	
Chromium	mg/L	ND	0.0050	0.0012	08/15/25 02:31	
Cobalt	mg/L	ND	0.0050	0.0012	08/15/25 02:31	
Lead	mg/L	ND	0.0010	0.00025	08/15/25 02:31	
Molybdenum	mg/L	ND	0.010	0.0025	08/15/25 02:31	
Selenium	mg/L	ND	0.0050	0.0012	08/15/25 02:31	
Thallium	mg/L	ND	0.00050	0.00015	08/15/25 02:31	

LABORATORY CONTROL SAMPLE: 4902819

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.10	100	80-120	
Arsenic	mg/L	0.1	0.089	89	80-120	
Barium	mg/L	0.1	0.096	96	80-120	
Beryllium	mg/L	0.1	0.092	92	80-120	
Boron	mg/L	0.1	0.094	94	80-120	
Cadmium	mg/L	0.1	0.093	93	80-120	
Calcium	mg/L	1	1.0	102	80-120	
Chromium	mg/L	0.1	0.10	102	80-120	
Cobalt	mg/L	0.1	0.11	108	80-120	
Lead	mg/L	0.1	0.11	106	80-120	
Molybdenum	mg/L	0.1	0.099	99	80-120	
Selenium	mg/L	0.1	0.089	89	80-120	
Thallium	mg/L	0.1	0.096	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4902820 4902821

Parameter	Units	92812251001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.10	0.10	101	102	75-125	1	20	
Arsenic	mg/L	ND	0.1	0.1	0.095	0.098	94	98	75-125	3	20	

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REPORT OF LABORATORY ANALYSIS

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Plant Hammond-AP-1
Pace Project No.: 92811471

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4902820 4902821

Parameter	Units	92812251001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	mg/L	0.061	0.1	0.1	0.16	0.16	99	102	75-125	2	20	
Beryllium	mg/L	ND	0.1	0.1	0.097	0.099	97	99	75-125	2	20	
Boron	mg/L	1.4	0.1	0.1	1.5	1.5	129	169	75-125	3	20	M1
Cadmium	mg/L	ND	0.1	0.1	0.097	0.099	97	99	75-125	2	20	
Calcium	mg/L	96.0	1	1	98.8	103	273	651	75-125	4	20	M1
Chromium	mg/L	ND	0.1	0.1	0.098	0.10	97	101	75-125	4	20	
Cobalt	mg/L	0.0018J	0.1	0.1	0.10	0.10	99	102	75-125	3	20	
Lead	mg/L	ND	0.1	0.1	0.099	0.10	99	101	75-125	2	20	
Molybdenum	mg/L	0.11	0.1	0.1	0.21	0.22	104	111	75-125	3	20	
Selenium	mg/L	0.0052	0.1	0.1	0.10	0.11	99	103	75-125	4	20	
Thallium	mg/L	ND	0.1	0.1	0.10	0.10	100	104	75-125	3	20	

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QUALITY CONTROL DATA

Project: Plant Hammond-AP-1
Pace Project No.: 92811471

QC Batch: 953428 — Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A — Analysis Description: WCOL 7470 Mercury
Laboratory: Pace Analytical Services - West Columbia
Associated Lab Samples: 92811471009, 92811471010, 92811471011, 92811471012, 92811471013, 92811471014, 92811471015, 92811471016, 92811471017, 92811471018, 92811471019, 92811471020

METHOD BLANK: 4899699 — Matrix: Water
Associated Lab Samples: 92811471009, 92811471010, 92811471011, 92811471012, 92811471013, 92811471014, 92811471015, 92811471016, 92811471017, 92811471018, 92811471019, 92811471020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.000091	08/13/25 23:26	

LABORATORY CONTROL SAMPLE: 4899700

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.002	0.0019	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4899701 4899702

Parameter	Units	92811471017 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.002	0.002	0.0020	0.0020	98	99	80-120	2	20	

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QUALITY CONTROL DATA

Project: Plant Hammond-AP-1
Pace Project No.: 92811471

QC Batch: 953731
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: WCOL 7470 Mercury
Laboratory: Pace Analytical Services - West Columbia
Associated Lab Samples: 92811471021, 92811471022

METHOD BLANK: 4901441 Matrix: Water
Associated Lab Samples: 92811471021, 92811471022

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.000091	08/15/25 20:54	

LABORATORY CONTROL SAMPLE: 4901442

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.002	0.0020	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4901443 4901444

Parameter	Units	92812477007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.002	0.002	0.0020	0.0020	101	101	80-120	0	20	

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QUALIFIERS

Project: Plant Hammond-AP-1
Pace Project No.: 92811471

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

WORKORDER QUALIFIERS

WO: 92811471

[1]	GEOSYNTEC
[2]	DO NOT DILUTE. MUST MEET REPORTING LIMITS. LET PM KNOW FIRST IF THERE ARE ISSUES.

ANALYTE QUALIFIERS

1g	A post-digestion spike was not reported for this analyte since the MS/MSD were within method acceptance criteria.
2g	Constant weight could not be achieved for this sample after 4 drying cycles. The final weight change was 0.0007 g
ED	Due to the extract's physical characteristics, the analysis was performed at dilution.
J	Analyte detected below the reporting limit, therefore result is an estimate. This qualifier is also used for all TICs.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Hammond-AP-1
Pace Project No.: 92811471

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92811471009	**HAM-HGWC-7**	3015	2578718	EPA 6020B	2578718
92811471010	**HAM-HGWC-8**	3015	2578718	EPA 6020B	2578718
92811471011	**HAM-HGWC-10**	3015	2578718	EPA 6020B	2578718
92811471012	**HAM-HGWC-11**	3015	2578718	EPA 6020B	2578718
92811471013	**HAM-HGWC-12**	3015	2578718	EPA 6020B	2578718
92811471014	**HAM-MW-19**	3015	2578718	EPA 6020B	2578718
92811471015	**HAM-MW-20**	3015	2578718	EPA 6020B	2578718
92811471016	**HAM-MW-27D**	3015	2578718	EPA 6020B	2578718
92811471017	**HAM-AP1-FD-01**	3015	2578718	EPA 6020B	2578718
92811471018	**HAM-AP1-EB-01**	3015	2578718	EPA 6020B	2578718
92811471019	**HAM-AP1-FB-01**	3015	2578718	EPA 6020B	2578718
92811471020	**HAM-HGWC-9**	3015	2578718	EPA 6020B	2578718
92811471021	**HAM-HGWC-13**	3015	2579862	EPA 6020B	2579862
92811471022	**HAM-MW-24D**	3015	2579862	EPA 6020B	2579862
92811471009	**HAM-HGWC-7**	SM 2540C-2020	953404		
92811471010	**HAM-HGWC-8**	SM 2540C-2020	953404		
92811471011	**HAM-HGWC-10**	SM 2540C-2020	953404		
92811471012	**HAM-HGWC-11**	SM 2540C-2020	953404		
92811471013	**HAM-HGWC-12**	SM 2540C-2020	953406		
92811471014	**HAM-MW-19**	SM 2540C-2020	953406		
92811471015	**HAM-MW-20**	SM 2540C-2020	953406		
92811471016	**HAM-MW-27D**	SM 2540C-2020	953406		
92811471017	**HAM-AP1-FD-01**	SM 2540C-2020	953406		
92811471018	**HAM-AP1-EB-01**	SM 2540C-2020	953406		
92811471019	**HAM-AP1-FB-01**	SM 2540C-2020	953406		
92811471020	**HAM-HGWC-9**	SM 2540C-2020	953690		
92811471021	**HAM-HGWC-13**	SM 2540C-2020	954042		
92811471022	**HAM-MW-24D**	SM 2540C-2020	954042		
92811471009	**HAM-HGWC-7**	EPA 300.0 Rev 2.1 1993	953267		
92811471010	**HAM-HGWC-8**	EPA 300.0 Rev 2.1 1993	953267		
92811471011	**HAM-HGWC-10**	EPA 300.0 Rev 2.1 1993	953267		
92811471012	**HAM-HGWC-11**	EPA 300.0 Rev 2.1 1993	953267		
92811471013	**HAM-HGWC-12**	EPA 300.0 Rev 2.1 1993	953267		
92811471014	**HAM-MW-19**	EPA 300.0 Rev 2.1 1993	953267		
92811471015	**HAM-MW-20**	EPA 300.0 Rev 2.1 1993	953267		
92811471016	**HAM-MW-27D**	EPA 300.0 Rev 2.1 1993	953267		
92811471017	**HAM-AP1-FD-01**	EPA 300.0 Rev 2.1 1993	953267		
92811471018	**HAM-AP1-EB-01**	EPA 300.0 Rev 2.1 1993	953267		
92811471019	**HAM-AP1-FB-01**	EPA 300.0 Rev 2.1 1993	953267		
92811471020	**HAM-HGWC-9**	EPA 300.0 Rev 2.1 1993	953267		
92811471021	**HAM-HGWC-13**	EPA 300.0 Rev 2.1 1993	953530		
92811471022	**HAM-MW-24D**	EPA 300.0 Rev 2.1 1993	953530		
92811471009	**HAM-HGWC-7**	EPA 3005A	953368	EPA 6020B	955779
92811471010	**HAM-HGWC-8**	EPA 3005A	953368	EPA 6020B	955779
92811471011	**HAM-HGWC-10**	EPA 3005A	953368	EPA 6020B	955779

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Hammond-AP-1
Pace Project No.: 92811471

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92811471012	**HAM-HGWC-11**	EPA 3005A	953368	EPA 6020B	955779
92811471013	**HAM-HGWC-12**	EPA 3005A	953368	EPA 6020B	955779
92811471014	**HAM-MW-19**	EPA 3005A	953368	EPA 6020B	955779
92811471015	**HAM-MW-20**	EPA 3005A	953368	EPA 6020B	955779
92811471016	**HAM-MW-27D**	EPA 3005A	953368	EPA 6020B	955779
92811471017	**HAM-AP1-FD-01**	EPA 3005A	953368	EPA 6020B	955779
92811471018	**HAM-AP1-EB-01**	EPA 3005A	953368	EPA 6020B	955779
92811471019	**HAM-AP1-FB-01**	EPA 3005A	953368	EPA 6020B	955779
92811471020	**HAM-HGWC-9**	EPA 3005A	953368	EPA 6020B	955779
92811471021	**HAM-HGWC-13**	EPA 3005A	953930	EPA 6020B	954671
92811471022	**HAM-MW-24D**	EPA 3005A	953930	EPA 6020B	954671
92811471009	**HAM-HGWC-7**	EPA 7470A	953428	EPA 7470A	954590
92811471010	**HAM-HGWC-8**	EPA 7470A	953428	EPA 7470A	954590
92811471011	**HAM-HGWC-10**	EPA 7470A	953428	EPA 7470A	954590
92811471012	**HAM-HGWC-11**	EPA 7470A	953428	EPA 7470A	954590
92811471013	**HAM-HGWC-12**	EPA 7470A	953428	EPA 7470A	954590
92811471014	**HAM-MW-19**	EPA 7470A	953428	EPA 7470A	954590
92811471015	**HAM-MW-20**	EPA 7470A	953428	EPA 7470A	954590
92811471016	**HAM-MW-27D**	EPA 7470A	953428	EPA 7470A	954590
92811471017	**HAM-AP1-FD-01**	EPA 7470A	953428	EPA 7470A	954590
92811471018	**HAM-AP1-EB-01**	EPA 7470A	953428	EPA 7470A	954590
92811471019	**HAM-AP1-FB-01**	EPA 7470A	953428	EPA 7470A	954590
92811471020	**HAM-HGWC-9**	EPA 7470A	953428	EPA 7470A	954590
92811471021	**HAM-HGWC-13**	EPA 7470A	953731	EPA 7470A	954601
92811471022	**HAM-MW-24D**	EPA 7470A	953731	EPA 7470A	954601

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DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #:

Courier: ☐ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☑ Pace ☐ Client ☐ Other:____

Custody Seal Present? ☑ Yes ☐ No Seals Intact? ☑ Yes ☐ No ☐ N/A

Date/Initials Person Examining Contents: 8/5/25 aw

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☐ IR Gun ID: 214

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 4.0 Correction Factor: Add/Subtract (°C) 0

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 4.0

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☑ No	☐ N/A	8.
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: WG WQ	☑ Yes	☐ No	☐ N/A	9.
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg
**Bottom half of box is to list number of bottles
***Check all unpreserved Nitrates for chlorine

Project #

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Client GA Power Profile/EZ (Circle one) Notes

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BPN	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthec Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AGOU-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
CC																														
1		1	1		2		2																							
2		1	1		2		2																							
3		1	1		2		2																							
4		1	1		2		2																							
5		1	1		2		2																							
6		1	1		2		2																							
7		1	1		2		2																							
8		1	1		2		2																							
9		1	1		2		2																							
10		1	1		2		2																							
11		1	1		2		2																							
12																														

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

92811471

Scan QR Code for instructions

Company Name:	Georgia Power- Hammond	Contact/Report To:	Kristen Jurinko
Street Address:	241 Ralph McGill Blvd NE Bin 10160 Atlanta, GA 30308	Phone #:	470-217-0008
		E-Mail:	knjurink@southernco.com
		Cc E-Mail:	
Customer Project #:			
Project Name:	Plant Hammond-(AP-1)-2nd SA	Invoice To:	Account Payable
		Invoice E-Mail:	georgiapowerinvoices@southernco.com
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	GPC824/4-0011
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [ ] ET

County / State origin of sample(s): Georgia

Data Deliverables:
[ ] Level II [ ] Level III [ ] Level IV
[ ] EQUIS
[ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [ ] No

Rush (Pre-approval required):
[ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day [ ] Other _____

DW PWSID # or WW Permit # as applicable:

Date Results Requested:

Field Filtered (if applicable): [ ] Yes [ ] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Specify Container Size **: 3 | 2 | 2x3 | 2x1

Identify Container Preservative Type***: 1 | 1 | 2 | 2

Analysis Requested

Customer Sample ID	Matrix *	Comp / Grab	Composite Start Date	Composite Start Time	Collected or Composite End Date	Collected or Composite End Time	# Cont.	Res. Chlorine Results	Res. Chlorine Units	2540C Total Dissolved Solids	300.0-Cl, SO4, F	APP III/IV Metals	RAD 226/228	Sample Comment	Preservation non-conformance identified for sample
HAM-HGWC-7	WG	Grab			8/6/2025	1642	6			X	X	X	X	Temp = 21 °C 009	
HAM-HGWC-8	WG	Grab			8/6/2025	1625	6			X	X	X	X	Temp = 22 °C 010	
HAM-HGWC-10	WG	Grab			8/6/2025	1528	6			X	X	X	X	Temp = 22 °C 011	
HAM-HGWC-11	WG	Grab			8/6/2025	1214	6			X	X	X	X	Temp = 22 °C 012	
HAM-HGWC-12	WG	Grab	JN 8/6/2025		8/6/2025	1008	6			X	X	X	X	Temp = 20 °C 013	
HAM-MW-19	WG	Grab			8/6/2025	1337	6			X	X	X	X	Temp = 23 °C 014	
HAM-MW-20	WG	Grab			8/6/2025	1000	6			X	X	X	X	Temp = 19 °C 015	
HAM-MW-27D	WG	Grab			8/6/2025	1442	6			X	X	X	X	Temp = 22 °C 016	
HAM-AP1-FD-01	WG	Grab			8/6/2025	0000	6			X	X	X	X	Temp = 22 °C 017	
HAM-AP1-EB-01	WQ	Grab			8/6/2025	1520	6			X	X	X	X	Temp = 22 °C 018	

JN 8/6/2025

Lab Use Only
Proj. Mgr: **Bonnie Vang**
AcctNum / Client ID:
Table #:
Profile / Template: **16483**
Prelog / Bottle Ord. ID: **EZ 3283395**

Additional Instructions from Pace®:
Task Code: HAM-CCR-ASSMT-202552

Collected By: (Printed Name) Jamie Newsome, Thomas Kessler

Signature:

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
Sara Webb / Geosyntec	8/8/25 1320	Ryan Williams / Pace	8/9/25 1320	
Ryan Williams / Pace	8/9/25 1550		8/8/25 1550	Delivered by: [ ] In- Person [ ] Courier
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	[ ] FedEx [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: 1 of 2

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ENV-FRM-CORQ-0019_v02_110123 ©

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) 90mL, (10) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

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Company Name:	Georgia Power- Hammond	Contact/Report To:	Kristen Jurinko
Street Address:	241 Ralph McGill Blvd NE Bin 10160 Atlanta, GA 30308	Phone #:	470-217-0008
		E-Mail:	knjurink@southernco.com
		Cc E-Mail:	
Customer Project #:			
Project Name:	Plant Hammond-(AP-1)-2nd SA	Invoice To:	Account Payable
		Invoice E-Mail:	georgiapowerinvoices@southernco.com
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	GPC82474-0011
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [ ] ET

County / State origin of sample(s): Georgia

Data Deliverables:
[ ] Level II [ ] Level III [ ] Level IV
[ ] EQUIS
[ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [ ] No

Rush (Pre-approval required):
[ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day [ ] Other _____

DW PWSID # or WW Permit # as applicable:

Date Results Requested:

Field Filtered (if applicable): [ ] Yes [ ] No
Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT

Specify Container Size **

3	2	2x3	2x1						

Identify Container Preservative Type***

1	1	2	2						

Analysis Requested

Customer Sample ID	Matrix *	Comp / Grab	Composite Start Date	Composite Start Time	Collected or Composite End Date	Collected or Composite End Time	# Cont.	Res. Chlorine Results	Res. Chlorine Units	2540C Total Dissolved Solids	300.0-Cl, SO4, F	APP III/IV Metals	RAD 226/228	Sample Comment	Preservation non-conformance identified for sample.
HAM-AP1-FB-01	WQ	Grab	JN 8/6/2025		8/6/2025	1515	6	JN 8/6/2025		X	X	X	X	Temp = 22 °C 019	
					JN 8/6/2025										

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) 90mL, (10) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only
Proj. Mgr: Bonnie Vang
AcctNum / Client ID:
Table #:
Profile / Template: 16483
Prelog / Bottle Ord. ID: EZ 3283395

Additional Instructions from Pace®:
Task Code: HAM-CCR-ASSMT-202552

Collected By: Jamie Newsome, Thomas Kessler
(Printed Name)
Signature:

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
Sara Webb / Geosyntec	8/8/25 1328	Ryan Williams / Pace	8/8/25 1320	
Ryan Williams / Pace	8/9/25 1550		8/5/25 1550	Delivered by: [ ] In- Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: 2 of 2

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DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #:

Courier: ☐ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☑ Pace ☐ Other:____

Custody Seal Present? ☑ Yes ☐ No Seals Intact? ☑ Yes ☐ No ☐ N/A

Date/Initials Person Examining Contents: 3/5/25 ow

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer:
☐ IR Gun ID: 214

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 4.0 Correction Factor: Add/Subtract (°C) 0

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 4.0

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☑ No	☐ N/A	8.
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: WG	☑ Yes	☐ No	☐ N/A	9.
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg
**Bottom half of box is to list number of bottles
***Check all unpreserved Nitrates for chlorine

Project #

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Client GA Power Profile/EZ (Circle one) Notes

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BPIN	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthec Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG9A-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
CC																														
1		1	1		2		2																							
2																														
3																														
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11																														
12																														

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

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Scan QR Code for instructions

Company Name:	Georgia Power- Hammond	Contact/Report To:	Kristen Jurinko
Street Address:	241 Ralph McGill Blvd NE Bin 10160 Atlanta, GA 30308	Phone #:	470-217-0008
		E-Mail:	knjurink@southernco.com
		Cc E-Mail:	
Customer Project #:			
Project Name:	Plant Hammond-(AP-1)-2nd SA	Invoice To:	Account Payable
		Invoice E-Mail:	georgiapowerinvoices@southernco.com
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	GPC82474-0011
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [ ] ET

County / State origin of sample(s): Georgia

Data Deliverables:
[ ] Level II [ ] Level III [ ] Level IV
[ ] EQUIS
[ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [ ] No

Rush (Pre-approval required):
[ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day [ ] Other _____

DW PWSID # or WW Permit # as applicable:

Date Results Requested:

Field Filtered (if applicable): [ ] Yes [ ] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Composite Start Date	Composite Start Time	Collected or Composite End Date	Collected or Composite End Time	# Cont.	Res. Chlorine Results	Res. Chlorine Units
HAM-HGWC-9	WG	G	JN 8/7/2025		8/7/2025	0951	6	JN 8/7/2025	
					JN 8/7/2025				

Specify Container Size **

2540C Total Dissolved Solids	300.0-Cl, SO4, F	APP III/IV Metals	RAD 226/228						
3	2	2x3	2x1						

Identify Container Preservative Type***

1	1	2	2						

Analysis Requested

X	X	X	X						

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) 90mL, (10) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only

Proj. Mgr: **Bonnie Vang**

AcctNum / Client ID:

Table #:

Profile / Template: **16483**

Prelog / Bottle Ord. ID: **EZ 3283395**

Sample Comment

Preservation non-conformance identified for sample.

Temp = 20 °C 020

Additional Instructions from Pace®:
Task Code: HAM-CCR-ASSMT-2025S2

Collected By:
(Printed Name)
Signature:

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:

	Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
1	Zain Webb / Geosyntec	8/8/25 1320	Ryan Williams / Pace	8/9/25 1320
2	Ryan Williams / Pace	8/8/25 1550		8/8/25 1550
3				
4				

Tracking Number:

Delivered by: [ ] In- Person [ ] Courier
[ ] FedEX [ ] UPS [ ] Other

Page: 1 of 1

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ENV-FRM-CORQ-0019_v02_110123 ©

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #: **WO#:92811478**

PM: BV Due Date: 08/28/25

CLIENT: 92- GP-HAM

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☑ Pace ☐ Other:____ ☐ Commercial

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No ☑ N/A

Date/Initials Person Examining Contents: 8/11/25 CDL

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 083

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 1.8 Correction Factor: Add/Subtract (°C) 0.0

Cooler Temp Corrected (°C): 1.8

Temp should be above freezing to 6°C

☐ Samples out of temp criteria. Samples on ice, cooling process has begun

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: W	☑ Yes	☐ No	☐ N/A	9.
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

WO#: 92811478

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg
**Bottom half of box is to list number of bottles
***Check all unpreserved Nitrates for chlorine

Project #

PM: BV Due Date: 08/28/25
CLIENT: 92- GP-HAM

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Client_____ Profile/EZ (Circle one)_____ Notes_____

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreservec (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SPST-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreservec (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
CC																													
1		1	1		2	2																							
2		1	1		2	2																							
3																													
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10																													
11																													
12																													

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

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WO#: 92811478

PM: BV **Due Date: 08/28/25**

CLIENT: 92- GP-HAM

Company Name:	Georgia Power- Hammond	Contact/Report To:	Kristen Jurinko
Street Address:	241 Ralph McGill Blvd NE Bin 10160 Atlanta, GA 30308	Phone #:	470-217-0008
		E-Mail:	knjurink@southernco.com
		Cc E-Mail:	
Customer Project #:			
Project Name:	Plant Hammond-(AP-1)-2nd SA	Invoice To:	Account Payable
		Invoice E-Mail:	georgiapowerinvoices@southernco.com
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	GPC82474-0011
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [ ] ET

County / State origin of sample(s): Georgia

Data Deliverables:
[ ] Level II [ ] Level III [ ] Level IV
[ ] EQUIS
[ ] Other

Regulatory Program: (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [ ] No

Rush (Pre-approval required):
[ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day [ ] Other _____

DW PWSID # or WW Permit # as applicable:

Date Results Requested:

Field Filtered (if applicable): [ ] Yes [ ] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Composite Start Date	Composite Start Time	Collected or Composite End Date	Collected or Composite End Time	# Cont.	Res. Chlorine Results	Res. Chlorine Units	2540C Total Dissolved Solids	300.0-Cl, SO4, F	APP III/IV Metals	RAD 226/228							Sample Comment
Specify Container Size **										2	3	2x3	2x1							
Identify Container Preservative Type***										1	1	2	2							
HAM-HGWC-13	WG	Grab	JN 8/10/2025		8/10/2025	1140	6			X	X	X	X							Temp = 20 °C
HAM-MW-24D	WG	Grab			8/10/2025	1252	6			X	X	X	X							Temp = 20 °C
									JN 8/10/2025											Last sample
					JN 8/10/2025															

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) 90mL, (10) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only
- Proj. Mgr: Bonnie Vang
- AcctNum / Client ID:
- Table #:
- Profile / Template: 16483
- Prelog / Bottle Ord. ID: EZ 3283395

Preservation non-conformance identified for sample

Additional Instructions from Pace®:
Task Code: HAM-CCR-ASSMT-202552

Collected By: Jamie Newsome
(Printed Name)

Signature:

Customer Remarks / Special Conditions / Possible Hazards:

Coolers: Thermometer ID: Correction Factor (°C): Obs. Temp (°C) Corrected Temp (°C) On Ice:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
[illegible] / Georgia Power	8/11/2025 1230	Ryan Williams / Pace	8/11/2025 1230	
Ryan Williams / Pace	8/11/2025 1440	[illegible]	8/11/2025 1440	Delivered by: [ ] In- Person [ ] Courier [ ] FedEX [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: 1 of 1

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

ENV-FRM-CORQ-0019_v02_110123©

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

September 26, 2025

Kristen Jurinko
Southern Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, GA 30308

RE: Project: Plant Hammond-AP-1- RADs
Pace Project No.: 92811478

Dear Kristen Jurinko:

Enclosed are the analytical results for sample(s) received by the laboratory between August 08, 2025 and August 11, 2025. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Greensburg

Revision 1: Sample ID for 92811478022 updated to HAM-MW-42D.

Revision 2: Case Narrative added.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Bonnie Vang
bonnie.vang@pacelabs.com
704-977-0968
Project Manager

Enclosures

cc: Kip Gray, Geosyntec
Christine Hug, Geosyntec Consultants, Inc.
Thomas Kessler, Geosyntec Consultants
Whitney Law, Geosyntec Consultants
Laura Midkiff, Southern Company
Caroline Nelson, Geosyntec Consultants, Inc
Jamie Newsome, Geosyntec Consultants
Amanda Tomlinson, Geosyntec Consultants
Zain Webb, Geosyntec Consultants

REPORT OF LABORATORY ANALYSIS

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(704)875-9092

CERTIFICATIONS

Project: Plant Hammond-AP-1- RADs
Pace Project No.: 92811478

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
ANABISO/IEC 17025:2017 Rad Cert#: L24170
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 2950
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA010
Louisiana DEQ/TNI Certification #: 04086
Maine Certification #: 2023021
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991
Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572023-03
New Hampshire/TNI Certification #: 297622
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-015
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: TN02867
Texas/TNI Certification #: T104704188-22-18
Utah/TNI Certification #: PA014572223-14
USDA Soil Permit #: 525-23-67-77263
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad

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SAMPLE SUMMARY

Project: Plant Hammond-AP-1- RADs
Pace Project No.: 92811478

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92811478009	**HAM-HGWC-7**	Water	08/06/25 16:42	08/08/25 15:50
92811478010	**HAM-HGWC-8**	Water	08/06/25 16:25	08/08/25 15:50
92811478011	**HAM-HGWC-10**	Water	08/06/25 15:28	08/08/25 15:50
92811478012	**HAM-HGWC-11**	Water	08/06/25 12:14	08/08/25 15:50
92811478013	**HAM-HGWC-12**	Water	08/06/25 10:08	08/08/25 15:50
92811478014	**HAM-MW-19**	Water	08/06/25 13:37	08/08/25 15:50
92811478015	**HAM-MW-20**	Water	08/06/25 10:00	08/08/25 15:50
92811478016	**HAM-MW-27D**	Water	08/06/25 14:42	08/08/25 15:50
92811478017	**HAM-AP1-FD-01**	Water	08/06/25 00:00	08/08/25 15:50
92811478019	**HAM-AP1-FB-01**	Water	08/06/25 15:15	08/08/25 15:50
92811478020	**HAM-HGWC-9**	Water	08/07/25 09:51	08/08/25 15:50
92811478021	**HAM-HGWC-13**	Water	08/10/25 11:40	08/11/25 14:40
92811478022	**HAM-MW-24D**	Water	08/10/25 12:52	08/11/25 14:40

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SAMPLE ANALYTE COUNT

Project: Plant Hammond-AP-1- RADs
Pace Project No.: 92811478

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92811478009	**HAM-HGWC-7**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92811478010	**HAM-HGWC-8**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92811478011	**HAM-HGWC-10**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92811478012	**HAM-HGWC-11**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92811478013	**HAM-HGWC-12**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92811478014	**HAM-MW-19**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92811478015	**HAM-MW-20**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92811478016	**HAM-MW-27D**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92811478017	**HAM-AP1-FD-01**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92811478019	**HAM-AP1-FB-01**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92811478020	**HAM-HGWC-9**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92811478021	**HAM-HGWC-13**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92811478022	**HAM-MW-24D**	EPA 9315	SLC	1	PASI-PA

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SAMPLE ANALYTE COUNT

Project: Plant Hammond-AP-1- RADs
Pace Project No.: 92811478

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

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SUMMARY OF DETECTION

Project: Plant Hammond-AP-1- RADs
Pace Project No.: 92811478

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92811478009	**HAM-HGWC-7**					
EPA 9315	Radium-226	0.0589U ± 0.190 (0.461) C:79% T:NA	pCi/L		08/28/25 08:22	
EPA 9320	Radium-228	0.265U ± 0.340 (0.720) C:78% T:82%	pCi/L		08/28/25 14:47	
Total Radium Calculation	Total Radium	0.324U ± 0.530 (1.18)	pCi/L		08/29/25 14:27	
92811478010	**HAM-HGWC-8**					
EPA 9315	Radium-226	-0.0821U ± 0.192 (0.530) C:86% T:NA	pCi/L		08/28/25 08:22	
EPA 9320	Radium-228	-0.224U ± 0.293 (0.746) C:80% T:81%	pCi/L		08/28/25 14:48	
Total Radium Calculation	Total Radium	0.000U ± 0.485 (1.28)	pCi/L		08/29/25 14:27	
92811478011	**HAM-HGWC-10**					
EPA 9315	Radium-226	0.0723U ± 0.177 (0.419) C:95% T:NA	pCi/L		08/28/25 08:23	
EPA 9320	Radium-228	0.332U ± 0.387 (0.814) C:75% T:83%	pCi/L		08/28/25 14:48	
Total Radium Calculation	Total Radium	0.404U ± 0.564 (1.23)	pCi/L		08/29/25 14:27	
92811478012	**HAM-HGWC-11**					
EPA 9315	Radium-226	0.243U ± 0.258 (0.542) C:81% T:NA	pCi/L		08/28/25 08:23	
EPA 9320	Radium-228	1.26 ± 0.644 (1.16) C:79% T:74%	pCi/L		08/28/25 14:48	
Total Radium Calculation	Total Radium	1.50U ± 0.902 (1.70)	pCi/L		08/29/25 14:27	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Plant Hammond-AP-1- RADs
Pace Project No.: 92811478

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92811478013	**HAM-HGWC-12**					
EPA 9315	Radium-226	0.0534U ± 0.189 (0.458) C:92% T:NA	pCi/L		08/28/25 08:23	
EPA 9320	Radium-228	0.208U ± 0.487 (1.08) C:71% T:88%	pCi/L		08/28/25 14:48	
Total Radium Calculation	Total Radium	0.261U ± 0.676 (1.54)	pCi/L		08/29/25 14:27	
92811478014	**HAM-MW-19**					
EPA 9315	Radium-226	0.312U ± 0.238 (0.444) C:84% T:NA	pCi/L		08/28/25 08:24	
EPA 9320	Radium-228	0.344U ± 0.392 (0.822) C:75% T:84%	pCi/L		08/28/25 14:48	
Total Radium Calculation	Total Radium	0.656U ± 0.630 (1.27)	pCi/L		08/29/25 14:27	
92811478015	**HAM-MW-20**					
EPA 9315	Radium-226	0.252U ± 0.262 (0.540) C:74% T:NA	pCi/L		08/28/25 08:25	
EPA 9320	Radium-228	0.275U ± 0.293 (0.604) C:79% T:90%	pCi/L		08/28/25 14:48	
Total Radium Calculation	Total Radium	0.527U ± 0.555 (1.14)	pCi/L		08/29/25 14:27	
92811478016	**HAM-MW-27D**					
EPA 9315	Radium-226	0.0884U ± 0.207 (0.491) C:90% T:NA	pCi/L		09/04/25 10:01	
EPA 9320	Radium-228	0.728U ± 0.602 (1.21) C:67% T:85%	pCi/L		09/09/25 16:20	
Total Radium Calculation	Total Radium	0.816U ± 0.809 (1.70)	pCi/L		09/10/25 17:06	

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SUMMARY OF DETECTION

Project: Plant Hammond-AP-1- RADs
Pace Project No.: 92811478

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92811478017	**HAM-AP1-FD-01**					
EPA 9315	Radium-226	0.175U ± 0.306 (0.694) C:77% T:NA	pCi/L		09/04/25 10:01	
EPA 9320	Radium-228	-0.172U ± 0.541 (1.29) C:60% T:81%	pCi/L		09/09/25 16:18	
Total Radium Calculation	Total Radium	0.175U ± 0.847 (1.98)	pCi/L		09/10/25 17:06	
92811478019	**HAM-AP1-FB-01**					
EPA 9315	Radium-226	-0.0556U ± 0.214 (0.604) C:85% T:NA	pCi/L		09/04/25 10:01	
EPA 9320	Radium-228	1.05U ± 0.863 (1.75) C:69% T:84%	pCi/L		09/09/25 19:19	
Total Radium Calculation	Total Radium	1.05U ± 1.08 (2.35)	pCi/L		09/10/25 17:06	
92811478020	**HAM-HGWC-9**					
EPA 9315	Radium-226	0.0719U ± 0.274 (0.673) C:81% T:NA	pCi/L		09/04/25 10:01	
EPA 9320	Radium-228	0.369U ± 0.791 (1.74) C:65% T:89%	pCi/L		09/09/25 19:23	
Total Radium Calculation	Total Radium	0.441U ± 1.07 (2.41)	pCi/L		09/10/25 17:06	
92811478021	**HAM-HGWC-13**					
EPA 9315	Radium-226	0.428U ± 0.385 (0.763) C:73% T:NA	pCi/L		09/04/25 10:04	
EPA 9320	Radium-228	-0.312U ± 0.479 (1.23) C:67% T:80%	pCi/L		09/09/25 19:23	
Total Radium Calculation	Total Radium	0.428U ± 0.864 (1.99)	pCi/L		09/10/25 17:06	

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SUMMARY OF DETECTION

Project: Plant Hammond-AP-1- RADs
Pace Project No.: 92811478

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92811478022	**HAM-MW-24D**					
EPA 9315	Radium-226	0.230U ± 0.324 (0.706) C:68% T:NA	pCi/L		09/04/25 10:01	
EPA 9320	Radium-228	0.395U ± 0.602 (1.30) C:60% T:88%	pCi/L		09/09/25 19:23	
Total Radium Calculation	Total Radium	0.625U ± 0.926 (2.01)	pCi/L		09/10/25 17:06	

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: Plant Hammond-AP-1- RADs
Pace Project No.: 92811478

Date: September 26, 2025

The Radium bottles for sample ID HAM-AP1-EB-01 was lost during FedEx transit.

Pace PM got in contact with FedEx to get this resolved and FedEx was able to locate the missing cooler and get it to Pace PA, but the Radium bottles for 92811478018 (HAM-AP1-EB-01) were still missing. Per the clients request, Pace proceeded with the Radium project without sample ID HAM-AP1-EB-01.

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PROJECT NARRATIVE

Project: Plant Hammond-AP-1- RADs
Pace Project No.: 92811478

Method: **EPA 9315**
Description: 9315 Total Radium
Client: Georgia Power- Hammond
Date: September 26, 2025

General Information:
13 samples were analyzed for EPA 9315 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: Plant Hammond-AP-1- RADs
Pace Project No.: 92811478

Method: **EPA 9320**
Description: 9320 Radium 228
Client: Georgia Power- Hammond
Date: September 26, 2025

General Information:
13 samples were analyzed for EPA 9320 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: Plant Hammond-AP-1- RADs
Pace Project No.: 92811478

Method: **Total Radium Calculation**
Description: Total Radium 228+226
Client: Georgia Power- Hammond
Date: September 26, 2025

General Information:
13 samples were analyzed for Total Radium Calculation by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Hammond-AP-1- RADs
Pace Project No.: 92811478

Sample: HAM-HGWC-7 **Lab ID: 92811478009** Collected: 08/06/25 16:42 Received: 08/08/25 15:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0589U ± 0.190 (0.461) C:79% T:NA**	pCi/L	08/28/25 08:22	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.265U ± 0.340 (0.720) C:78% T:82%**	pCi/L	08/28/25 14:47	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.324U ± 0.530 (1.18)**	pCi/L	08/29/25 14:27	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Hammond-AP-1- RADs
Pace Project No.: 92811478

Sample: HAM-HGWC-8 **Lab ID: 92811478010** Collected: 08/06/25 16:25 Received: 08/08/25 15:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**-0.0821U ± 0.192 (0.530) C:86% T:NA**	pCi/L	08/28/25 08:22	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**-0.224U ± 0.293 (0.746) C:80% T:81%**	pCi/L	08/28/25 14:48	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.000U ± 0.485 (1.28)**	pCi/L	08/29/25 14:27	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Hammond-AP-1- RADs
Pace Project No.: 92811478

Sample: HAM-HGWC-10 **Lab ID: 92811478011** Collected: 08/06/25 15:28 Received: 08/08/25 15:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0723U ± 0.177 (0.419) C:95% T:NA**	pCi/L	08/28/25 08:23	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.332U ± 0.387 (0.814) C:75% T:83%**	pCi/L	08/28/25 14:48	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.404U ± 0.564 (1.23)**	pCi/L	08/29/25 14:27	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Hammond-AP-1- RADs
Pace Project No.: 92811478

Sample: HAM-HGWC-11 **Lab ID: 92811478012** Collected: 08/06/25 12:14 Received: 08/08/25 15:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.243U ± 0.258 (0.542) C:81% T:NA**	pCi/L	08/28/25 08:23	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**1.26 ± 0.644 (1.16) C:79% T:74%**	pCi/L	08/28/25 14:48	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.50U ± 0.902 (1.70)**	pCi/L	08/29/25 14:27	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Hammond-AP-1- RADs
Pace Project No.: 92811478

Sample: HAM-HGWC-12 **Lab ID: 92811478013** Collected: 08/06/25 10:08 Received: 08/08/25 15:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0534U ± 0.189 (0.458) C:92% T:NA**	pCi/L	08/28/25 08:23	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.208U ± 0.487 (1.08) C:71% T:88%**	pCi/L	08/28/25 14:48	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.261U ± 0.676 (1.54)**	pCi/L	08/29/25 14:27	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Hammond-AP-1- RADs
Pace Project No.: 92811478

Sample: HAM-MW-19 **Lab ID: 92811478014** Collected: 08/06/25 13:37 Received: 08/08/25 15:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.312U ± 0.238 (0.444) C:84% T:NA**	pCi/L	08/28/25 08:24	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.344U ± 0.392 (0.822) C:75% T:84%**	pCi/L	08/28/25 14:48	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.656U ± 0.630 (1.27)**	pCi/L	08/29/25 14:27	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Hammond-AP-1- RADs
Pace Project No.: 92811478

Sample: HAM-MW-20 **Lab ID: 92811478015** Collected: 08/06/25 10:00 Received: 08/08/25 15:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.252U ± 0.262 (0.540) C:74% T:NA**	pCi/L	08/28/25 08:25	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.275U ± 0.293 (0.604) C:79% T:90%**	pCi/L	08/28/25 14:48	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.527U ± 0.555 (1.14)**	pCi/L	08/29/25 14:27	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Hammond-AP-1- RADs
Pace Project No.: 92811478

Sample: HAM-MW-27D **Lab ID: 92811478016** Collected: 08/06/25 14:42 Received: 08/08/25 15:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0884U ± 0.207 (0.491) C:90% T:NA**	pCi/L	09/04/25 10:01	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.728U ± 0.602 (1.21) C:67% T:85%**	pCi/L	09/09/25 16:20	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.816U ± 0.809 (1.70)**	pCi/L	09/10/25 17:06	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Hammond-AP-1- RADs
Pace Project No.: 92811478

Sample: HAM-AP1-FD-01 **Lab ID: 92811478017** Collected: 08/06/25 00:00 Received: 08/08/25 15:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.175U ± 0.306 (0.694) C:77% T:NA**	pCi/L	09/04/25 10:01	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**-0.172U ± 0.541 (1.29) C:60% T:81%**	pCi/L	09/09/25 16:18	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.175U ± 0.847 (1.98)**	pCi/L	09/10/25 17:06	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Hammond-AP-1- RADs
Pace Project No.: 92811478

Sample: HAM-AP1-FB-01 **Lab ID: 92811478019** Collected: 08/06/25 15:15 Received: 08/08/25 15:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**-0.0556U ± 0.214 (0.604) C:85% T:NA**	pCi/L	09/04/25 10:01	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**1.05U ± 0.863 (1.75) C:69% T:84%**	pCi/L	09/09/25 19:19	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.05U ± 1.08 (2.35)**	pCi/L	09/10/25 17:06	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Hammond-AP-1- RADs
Pace Project No.: 92811478

Sample: HAM-HGWC-9 **Lab ID: 92811478020** Collected: 08/07/25 09:51 Received: 08/08/25 15:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0719U ± 0.274 (0.673) C:81% T:NA**	pCi/L	09/04/25 10:01	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.369U ± 0.791 (1.74) C:65% T:89%**	pCi/L	09/09/25 19:23	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.441U ± 1.07 (2.41)**	pCi/L	09/10/25 17:06	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Hammond-AP-1- RADs
Pace Project No.: 92811478

Sample: HAM-HGWC-13 **Lab ID: 92811478021** Collected: 08/10/25 11:40 Received: 08/11/25 14:40 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.428U ± 0.385 (0.763) C:73% T:NA**	pCi/L	09/04/25 10:04	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**-0.312U ± 0.479 (1.23) C:67% T:80%**	pCi/L	09/09/25 19:23	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.428U ± 0.864 (1.99)**	pCi/L	09/10/25 17:06	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Hammond-AP-1- RADs
Pace Project No.: 92811478

Sample: HAM-MW-24D **Lab ID: 92811478022** Collected: 08/10/25 12:52 Received: 08/11/25 14:40 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.230U ± 0.324 (0.706) C:68% T:NA**	pCi/L	09/04/25 10:01	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.395U ± 0.602 (1.30) C:60% T:88%**	pCi/L	09/09/25 19:23	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.625U ± 0.926 (2.01)**	pCi/L	09/10/25 17:06	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Hammond-AP-1- RADs
Pace Project No.: 92811478

QC Batch: 764910 Analysis Method: EPA 9320
QC Batch Method: EPA 9320 Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92811478009, 92811478010, 92811478011, 92811478012, 92811478013, 92811478014, 92811478015

METHOD BLANK: 3728178 Matrix: Water
Associated Lab Samples: 92811478009, 92811478010, 92811478011, 92811478012, 92811478013, 92811478014, 92811478015

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.255 ± 0.335 (0.711) C:73% T:86%	pCi/L	08/28/25 14:47	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Hammond-AP-1- RADs
Pace Project No.: 92811478

QC Batch: 763825
QC Batch Method: EPA 9315
Analysis Method: EPA 9315
Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples:

METHOD BLANK: 3722432 Matrix: Water
Associated Lab Samples:

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0834 ± 0.202 (0.480) C:94% T:NA	pCi/L	08/26/25 09:54	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Hammond-AP-1- RADs
Pace Project No.: 92811478

QC Batch: 763994
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples:

METHOD BLANK: 3723177 Matrix: Water
Associated Lab Samples:

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.169 ± 0.334 (0.737) C:74% T:89%	pCi/L	08/22/25 14:36	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Hammond-AP-1- RADs
Pace Project No.: 92811478

QC Batch: 766763 Analysis Method: EPA 9320
QC Batch Method: EPA 9320 Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92811478016, 92811478017, 92811478019, 92811478020, 92811478021, 92811478022

METHOD BLANK: 3737578 Matrix: Water
Associated Lab Samples: 92811478016, 92811478017, 92811478019, 92811478020, 92811478021, 92811478022

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.315 ± 0.480 (1.04) C:65% T:82%	pCi/L	09/09/25 16:15	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Hammond-AP-1- RADs
Pace Project No.: 92811478

QC Batch: 766761 | Analysis Method: EPA 9315
QC Batch Method: EPA 9315 | Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92811478016, 92811478017, 92811478019, 92811478020, 92811478021, 92811478022

METHOD BLANK: 3737577 Matrix: Water
Associated Lab Samples: 92811478016, 92811478017, 92811478019, 92811478020, 92811478021, 92811478022

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0285 ± 0.328 (0.821) C:83% T:NA	pCi/L	09/04/25 08:32	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Hammond-AP-1- RADs
Pace Project No.: 92811478

QC Batch: 764909 Analysis Method: EPA 9315
QC Batch Method: EPA 9315 Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92811478009, 92811478010, 92811478011, 92811478012, 92811478013, 92811478014, 92811478015

METHOD BLANK: 3728174 Matrix: Water
Associated Lab Samples: 92811478009, 92811478010, 92811478011, 92811478012, 92811478013, 92811478014, 92811478015

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.100 ± 0.242 (0.568) C:74% T:NA	pCi/L	08/28/25 08:22	

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QUALIFIERS

Project: Plant Hammond-AP-1- RADs
Pace Project No.: 92811478

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval). Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Hammond-AP-1- RADs
Pace Project No.: 92811478

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92811478009	**HAM-HGWC-7**	EPA 9315	764909		
92811478010	**HAM-HGWC-8**	EPA 9315	764909		
92811478011	**HAM-HGWC-10**	EPA 9315	764909		
92811478012	**HAM-HGWC-11**	EPA 9315	764909		
92811478013	**HAM-HGWC-12**	EPA 9315	764909		
92811478014	**HAM-MW-19**	EPA 9315	764909		
92811478015	**HAM-MW-20**	EPA 9315	764909		
92811478016	**HAM-MW-27D**	EPA 9315	766761		
92811478017	**HAM-AP1-FD-01**	EPA 9315	766761		
92811478019	**HAM-AP1-FB-01**	EPA 9315	766761		
92811478020	**HAM-HGWC-9**	EPA 9315	766761		
92811478021	**HAM-HGWC-13**	EPA 9315	766761		
92811478022	**HAM-MW-24D**	EPA 9315	766761		
92811478009	**HAM-HGWC-7**	EPA 9320	764910		
92811478010	**HAM-HGWC-8**	EPA 9320	764910		
92811478011	**HAM-HGWC-10**	EPA 9320	764910		
92811478012	**HAM-HGWC-11**	EPA 9320	764910		
92811478013	**HAM-HGWC-12**	EPA 9320	764910		
92811478014	**HAM-MW-19**	EPA 9320	764910		
92811478015	**HAM-MW-20**	EPA 9320	764910		
92811478016	**HAM-MW-27D**	EPA 9320	766763		
92811478017	**HAM-AP1-FD-01**	EPA 9320	766763		
92811478019	**HAM-AP1-FB-01**	EPA 9320	766763		
92811478020	**HAM-HGWC-9**	EPA 9320	766763		
92811478021	**HAM-HGWC-13**	EPA 9320	766763		
92811478022	**HAM-MW-24D**	EPA 9320	766763		
92811478009	**HAM-HGWC-7**	Total Radium Calculation	767974		
92811478010	**HAM-HGWC-8**	Total Radium Calculation	767974		
92811478011	**HAM-HGWC-10**	Total Radium Calculation	767974		
92811478012	**HAM-HGWC-11**	Total Radium Calculation	767974		
92811478013	**HAM-HGWC-12**	Total Radium Calculation	767974		
92811478014	**HAM-MW-19**	Total Radium Calculation	767974		
92811478015	**HAM-MW-20**	Total Radium Calculation	767974		
92811478016	**HAM-MW-27D**	Total Radium Calculation	770007		
92811478017	**HAM-AP1-FD-01**	Total Radium Calculation	770007		
92811478019	**HAM-AP1-FB-01**	Total Radium Calculation	770007		
92811478020	**HAM-HGWC-9**	Total Radium Calculation	770007		
92811478021	**HAM-HGWC-13**	Total Radium Calculation	770007		
92811478022	**HAM-MW-24D**	Total Radium Calculation	770007		

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DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #:

Courier: ☐ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☑ Pace ☐ Client ☐ Other:____

Custody Seal Present? ☑ Yes ☐ No Seals Intact? ☑ Yes ☐ No ☐ N/A

Date/Initials Person Examining Contents: 8/5/25 aw

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☐ IR Gun ID: 214

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 4.0 Correction Factor: Add/Subtract (°C) 0

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 4.0

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☑ No	☐ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: WG WQ				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg
**Bottom half of box is to list number of bottles
***Check all unpreserved Nitrates for chlorine

Project #

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Client GA Power Profile/EZ (Circle one)_____ Notes_____

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BPIN	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG9A-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
CC																														
1		1	1		2		2																							
2		1	1		2		2																							
3		1	1		2		2																							
4		1	1		2		2																							
5		1	1		2		2																							
6		1	1		2		2																							
7		1	1		2		2																							
8		1	1		2		2																							
9		1	1		2		2																							
10		1	1		2		2																							
11		1	1		2		2																							
12																														

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

92811478

Scan QR Code for instructions

Company Name:	Georgia Power- Hammond	Contact/Report To:	Kristen Jurinko
Street Address:	241 Ralph McGill Blvd NE Bin 10160 Atlanta, GA 30308	Phone #:	470-217-0008
		E-Mail:	knjurink@southernco.com
		Cc E-Mail:	
Customer Project #:			
Project Name:	Plant Hammond-(AP-1)-2nd SA	Invoice To:	Account Payable
		Invoice E-Mail:	georgiapowerinvoices@southernco.com
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	GPC824/4-0011
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [ ] ET

County / State origin of sample(s): Georgia

Data Deliverables:
[ ] Level II [ ] Level III [ ] Level IV
[ ] EQUIS
[ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [ ] No

Rush (Pre-approval required):
[ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day [ ] Other _____

DW PWSID # or WW Permit # as applicable:

Date Results Requested:

Field Filtered (if applicable): [ ] Yes [ ] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Specify Container Size **: 3 | 2 | 2x3 | 2x1

Identify Container Preservative Type***: 1 | 1 | 2 | 2

Analysis Requested

Customer Sample ID	Matrix *	Comp / Grab	Composite Start Date	Composite Start Time	Collected or Composite End Date	Collected or Composite End Time	# Cont.	Res. Chlorine Results	Res. Chlorine Units	2540C Total Dissolved Solids	300.0-Cl, SO4, F	APP III/IV Metals	RAD 226/228	Sample Comment	Preservation non-conformance identified for sample.
HAM-HGWC-7	WG	Grab			8/6/2025	1642	6			X	X	X	X	Temp = 21 °C 009	
HAM-HGWC-8	WG	Grab			8/6/2025	1625	6			X	X	X	X	Temp = 22 °C 010	
HAM-HGWC-10	WG	Grab			8/6/2025	1528	6			X	X	X	X	Temp = 22 °C 011	
HAM-HGWC-11	WG	Grab			8/6/2025	1214	6			X	X	X	X	Temp = 22 °C 012	
HAM-HGWC-12	WG	Grab	JN 8/6/2025		8/6/2025	1008	6			X	X	X	X	Temp = 20 °C 013	
HAM-MW-19	WG	Grab			8/6/2025	1337	6			X	X	X	X	Temp = 23 °C 014	
HAM-MW-20	WG	Grab			8/6/2025	1000	6			X	X	X	X	Temp = 19 °C 015	
HAM-MW-27D	WG	Grab			8/6/2025	1442	6			X	X	X	X	Temp = 22 °C 016	
HAM-AP1-FD-01	WG	Grab			8/6/2025	0000	6			X	X	X	X	Temp = 22 °C 017	
HAM-AP1-EB-01	WQ	Grab			8/6/2025	1520	6			X	X	X	X	Temp = 22 °C 018	

JN 8/6/2025

Lab Use Only
Proj. Mgr: **Bonnie Vang**
AcctNum / Client ID:
Table #:
Profile / Template: **16483**
Prelog / Bottle Ord. ID: **EZ 3283395**

Additional Instructions from Pace®:
Task Code: HAM-CCR-ASSMT-202552

Collected By: (Printed Name) Jamie Newsome, Thomas Kessler
Signature:

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
Ryan Webb / Geosyntec	8/8/25 1320	Ryan Williams / Pace	8/9/25 1320	
Ryan Williams / Pace	8/9/25 1550		8/8/25 1550	Delivered by: [ ] In-Person [ ] Courier [ ] FedEX [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: 1 of 2

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

ENV-FRM-CORQ-0019_v02_110123 ©

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Georgia Power- Hammond	Contact/Report To:	Kristen Jurinko
Street Address:	241 Ralph McGill Blvd NE Bin 10160 Atlanta, GA 30308	Phone #:	470-217-0008
		E-Mail:	knjurink@southernco.com
		Cc E-Mail:	
Customer Project #:			
Project Name:	Plant Hammond-(AP-1)-2nd SA	Invoice To:	Account Payable
		Invoice E-Mail:	georgiapowerinvoices@southernco.com
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	GPC82474-0011
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [ ] ET

County / State origin of sample(s): Georgia

Data Deliverables:
[ ] Level II [ ] Level III [ ] Level IV
[ ] EQUIS
[ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [ ] No

Rush (Pre-approval required):
[ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day [ ] Other _____

DW PWSID # or WW Permit # as applicable:

Date Results Requested:

Field Filtered (if applicable): [ ] Yes [ ] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Binsolid (BS), Other (OT

Specify Container Size **

3	2	2x3	2x1						

Identify Container Preservative Type***

1	1	2	2						

Analysis Requested

Customer Sample ID	Matrix *	Comp / Grab	Composite Start Date	Composite Start Time	Collected or Composite End Date	Collected or Composite End Time	# Cont.	Res. Chlorine Results	Res. Chlorine Units	2540C Total Dissolved Solids	300.0-Cl, SO4, F	APP III/IV Metals	RAD 226/228	Sample Comment
HAM-AP1-FB-01	WQ	Grab	JN 8/6/2025		8/6/2025	1515	6	JN 8/6/2025		X	X	X	X	Temp = 22 °C 019
					JN 8/6/2025									

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) 90mL, (10) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only
Proj. Mgr: Bonnie Vang
AcctNum / Client ID:
Table #:
Profile / Template: 16483
Prelog / Bottle Ord. ID: EZ 3283395

Preservation non-conformance identified for sample:

Additional Instructions from Pace®:
Task Code: HAM-CCR-ASSMT-202552

Collected By: (Printed Name) Jamie Newsome, Thomas Kessler
Signature:

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
Sara Webb / Geosyntec	8/8/25 1328	Ryan Williams / Pace	8/8/25 1320	
Ryan Williams / Pace	8/8/25 1550		8/8/25 1550	Delivered by: [ ] In- Person [ ] Courier
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	[ ] FedEX [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: 2 of 2

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

ENV-FRM-CORQ-0019_v02_110123©

DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #:

Courier: ☐ Commercial ☐ Fed Ex ☑ Pace ☐ UPS ☐ USPS ☐ Other:____ ☐ Client

Custody Seal Present? ☑ Yes ☐ No Seals Intact? ☑ Yes ☐ No ☐ N/A

Date/Initials Person Examining Contents: 5/5/25 ow

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☐ IR Gun ID: 214 Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 4.0 Correction Factor: Add/Subtract (°C) 0

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 4.0

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☑ No	☐ N/A	8.
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: WG	☑ Yes	☐ No	☐ N/A	9.
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg
**Bottom half of box is to list number of bottles
***Check all unpreserved Nitrates for chlorine

Project #

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Client GA Power Profile/EZ (Circle one)_____ Notes_____

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP1N	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG9A-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
CC																														
1		1	1		2		2																							
2																														
3																														
4																														
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11																														
12																														

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Georgia Power- Hammond	Contact/Report To:	Kristen Jurinko
Street Address:	241 Ralph McGill Blvd NE Bin 10160 Atlanta, GA 30308	Phone #:	470-217-0008
		E-Mail:	knjurink@southernco.com
		Cc E-Mail:	
Customer Project #:			
Project Name:	Plant Hammond-(AP-1)-2nd SA	Invoice To:	Account Payable
		Invoice E-Mail:	georgiapowerinvoices@southernco.com
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	GPC82474-0011
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [ ] ET

County / State origin of sample(s): Georgia

Data Deliverables:
[ ] Level II [ ] Level III [ ] Level IV
[ ] EQUIS
[ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [ ] No

Rush (Pre-approval required):
[ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day [ ] Other _____

DW PWSID # or WW Permit # as applicable:

Date Results Requested:

Field Filtered (if applicable): [ ] Yes [ ] No
Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Composite Start Date	Composite Start Time	Collected or Composite End Date	Collected or Composite End Time	# Cont.	Res. Chlorine Results	Res. Chlorine Units	2540C Total Dissolved Solids	300.0-Cl, SO4, F	APP III/IV Metals	RAD 226/228	Sample Comment
										Specify Container Size **				
										3	2	2x3	2x1	
										Identify Container Preservative Type***				
										1	1	2	2	
HAM-HGWC-9	WG	G	JN 8/7/2025		8/7/2025	0951	6	JN 8/7/2025		X	X	X	X	Temp = 20 °C 020
					JN 8/7/2025									

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) 90mL, (10) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Analysis Requested

Lab Use Only
Proj. Mgr: **Bonnie Vang**
AcctNum / Client ID:
Table #:
Profile / Template: **16483**
Prelog / Bottle Ord. ID: **EZ 3283395**

Preservation non-conformance identified for sample.

Additional Instructions from Pace®:
Task Code: HAM-CCR-ASSMT-2025S2

Collected By:
(Printed Name)
Signature:

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
Zain Webb / Geosyntec	8/8/25 1320	Ryan Williams / Pace	8/9/25 1320	
Ryan Williams / Pace	8/9/25 1550		8/8/25 1550	Delivered by: [ ] In-Person [ ] Courier
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	[ ] FedEX [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: 1 of 1

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

ENV-FRM-CORQ-0019_v02_110123 ©

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Ox Power

Project #: **WO#:92811478**

PM: BV **Due Date: 08/28/25**

CLIENT: 92- GP-HAM

Courier: ☐ Commercial ☑ Fed Ex ☐ UPS ☐ USPS ☑ Pace ☐ Client ☐ Other:____

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No ☑ N/A

Date/Initials Person Examining Contents: 8/11/25 CDL

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 083

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 1.8 Correction Factor: Add/Subtract (°C) 0.0

Cooler Temp Corrected (°C): 1.8

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix:	W			
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

WO#: 92811478

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg
**Bottom half of box is to list number of bottles
***Check all unpreserved Nitrates for chlorine

Project #

PM: BV Due Date: 08/28/25
CLIENT: 92- GP-HAM

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Client_____ Profile/EZ (Circle one)_____ Notes_____

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP1N	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreservec (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreservec (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
CC																														
1		1	1		2		2																							
2		1	1		2		2																							
3																														
4																														
5																														
6																														
7																														
8																														
9																														
10																														
11																														
12																														

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

WO#: 92811478

PM: BV **Due Date: 08/28/25**

CLIENT: 92- GP-HAM

Company Name:	Georgia Power- Hammond	Contact/Report To:	Kristen Jurinko
Street Address:	241 Ralph McGill Blvd NE Bin 10160 Atlanta, GA 30308	Phone #:	470-217-0008
		E-Mail:	knjurink@southernco.com
		Cc E-Mail:	
Customer Project #:			
Project Name:	Plant Hammond-(AP-1)-2nd SA	Invoice To:	Account Payable
		Invoice E-Mail:	georgiapowerinvoices@southernco.com
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	GPC82474-0011
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [ ] ET

County / State origin of sample(s): Georgia

Data Deliverables:
[ ] Level II [ ] Level III [ ] Level IV
[ ] EQUIS
[ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [ ] No

Rush (Pre-approval required):
[ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day [ ] Other _____

DW PWSID # or WW Permit # as applicable:

Date Results Requested:

Field Filtered (if applicable): [ ] Yes [ ] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Composite Start Date	Composite Start Time	Collected or Composite End Date	Collected or Composite End Time	# Cont.	Res. Chlorine Results	Res. Chlorine Units	2540C Total Dissolved Solids	300.0-Cl, SO4,	APP III/IV Metals	RAD 226/228	Sample Comment
										Specify Container Size **				
										2	3	2x3	2x1	
										Identify Container Preservative Type***				
										1	1	2	2	
HAM-HGWC-13	WG	Grab	JN 8/10/2025		8/10/2025	1140	6			X	X	X	X	Temp = 20 °C
HAM-MW-24D	WG	Grab			8/10/2025	1252	6			X	X	X	X	Temp = 20 °C
									JN 8/10/2025					Last sample
					JN 8/10/2025									

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) 90mL, (10) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only

Proj. Mgr: Bonnie Vang
AcctNum / Client ID:
Table #:
Profile / Template: 16483
Prelog / Bottle Ord. ID: EZ 3283395

Preservation non-conformance identified for sample.

Additional Instructions from Pace®:
Task Code: HAM-CCR-ASSMT-2025S2

Collected By: (Printed Name) Jamie Newsome
Signature:

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp (°C)	Corrected Temp (°C)	On Ice:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
Jamie Newsome / GPC	8/11/2025 1230	Ryan Williams / Pace	8/11/2025 1230	
Ryan Williams / Pace	8/11/2025 1440	[illegible]	8/11/2025 1440	Delivered by: [ ] In- Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: 1 of 1

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Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test:	Ra-228
Analyst:	VAL
Date:	8/15/2025
Worklist:	86556
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3723177
MB concentration:	0.169
M/B 2 Sigma CSU:	0.334
MB MDC:	0.737
MB Numerical Performance Indicator:	0.99
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS86556	LCSD86556
Count Date:	8/22/2025	8/22/2025
Spike I.D.:	23-043	23-043
Decay Corrected Spike Concentration (pCi/mL):	31.529	31.529
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.818	0.822
Target Conc. (pCi/L, g, F):	3.856	3.837
Uncertainty (Calculated):	0.189	0.188
Result (pCi/L, g, F):	3.265	2.614
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.792	0.665
Numerical Performance Indicator:	-1.42	-3.47
Percent Recovery:	84.69%	68.13%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS86556	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD86556	
Sample Result (pCi/L, g, F):	3.265	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.792	
Sample Duplicate Result (pCi/L, g, F):	2.614	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.665	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	1.233	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	21.67%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

8/25/25

Quality Control Sample Performance Assessment

Pace Analytical
www.pacelabs.com

Analyst Must Manually Enter All Fields Highlighted In Yellow.

Test:	Ra-228
Analyst:	VAL
Date:	8/21/2025
Worklist:	86629
Matrix:	WT

Method Blank Assessment	
MB Sample ID	3728178
MB concentration:	0.255
M/B 2 Sigma CSU:	0.335
MB MDC:	0.711
MB Numerical Performance Indicator:	1.49
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS86629	**LCSD86629**
Count Date:	8/28/2025	8/28/2025
Spike I.D.:	23-043	23-043
Decay Corrected Spike Concentration (pCi/mL):	31.465	31.465
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.823	0.822
Target Conc. (pCi/L, g, F):	3.821	3.828
Uncertainty (Calculated):	0.187	0.188
Result (pCi/L, g, F):	3.002	4.005
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.761	0.937
Numerical Performance Indicator:	-2.05	0.36
Percent Recovery:	78.54%	104.63%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS86629	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD86629	
Sample Result (pCi/L, g, F):	3.002	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.761	
Sample Duplicate Result (pCi/L, g, F):	4.005	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.937	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	-1.629	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	28.49%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

ET 8-29-25

8/29/25

Quality Control Sample Performance Assessment

Pace Analytical™
www.pacelabs.com

Test:	Ra-228
Analyst:	ZPC
Date:	9/2/2025
Worklist:	86785
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3737578
MB concentration:	0.315
M/B 2 Sigma CSU:	0.480
MB MDC:	1.037
MB Numerical Performance Indicator:	1.29
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS86785	LCSD86785
Count Date:	9/9/2025	9/9/2025
Spike I.D.:	23-043	23-043
Decay Corrected Spike Concentration (pCi/mL):	31.340	31.340
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.817	0.821
Target Conc. (pCi/L, g, F):	3.836	3.815
Uncertainty (Calculated):	0.188	0.187
Result (pCi/L, g, F):	3.868	3.254
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.959	0.852
Numerical Performance Indicator:	0.06	-1.26
Percent Recovery:	100.84%	85.29%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS86785	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD86785	
Sample Result (pCi/L, g, F):	3.868	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.959	
Sample Duplicate Result (pCi/L, g, F):	3.254	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.852	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	0.939	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	16.71%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

9/10/25

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test:	Ra-226
Analyst:	SLC
Date:	8/25/2025
Worklist:	86546
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3722432
MB concentration:	0.083
M/B 2 Sigma CSU:	0.202
MB MDC:	0.480
MB Numerical Performance Indicator:	0.81
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS86546	LCSD86546
Count Date:	8/27/2025	8/27/2025
Spike I.D.:	23-014	23-014
Decay Corrected Spike Concentration (pCi/mL):	25.009	25.009
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.505	0.507
Target Conc. (pCi/L, g, F):	4.951	4.937
Uncertainty (Calculated):	0.233	0.232
Result (pCi/L, g, F):	3.820	5.418
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.824	1.065
Numerical Performance Indicator:	-2.59	0.86
Percent Recovery:	77.17%	109.73%
Status vs Numerical Indicator:	Warning	Pass
Status vs Recovery:	N/A	N/A
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS86546	92810485029
Duplicate Sample I.D.	LCSD86546	92810485029DUP
Sample Result (pCi/L, g, F):	3.820	-0.063
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.824	0.212
Sample Duplicate Result (pCi/L, g, F):	5.418	0.084
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.065	0.202
Are sample and/or duplicate results below RL?	NO	See Below ##
Duplicate Numerical Performance Indicator:	-2.325	-0.986
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	34.84%	1372.70%
Duplicate Status vs Numerical Indicator:	Warning	Pass
Duplicate Status vs RPD:	N/A	N/A
% RPD Limit:	25%	25%

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

VAM 8/27/25

CT 8-27-25

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test:	Ra-226
Analyst:	SLC
Date:	8/25/2025
Worklist:	86628
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3728174
MB concentration:	0.100
M/B 2 Sigma CSU:	0.242
MB MDC:	0.568
MB Numerical Performance Indicator:	0.81
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS86628	LCSD86628
Count Date:	8/29/2025	8/29/2025
Spike I.D.:	23-014	23-014
Decay Corrected Spike Concentration (pCi/mL):	25.009	25.009
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.509	0.505
Target Conc. (pCi/L, g, F):	4.918	4.948
Uncertainty (Calculated):	0.231	0.233
Result (pCi/L, g, F):	4.845	4.924
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.945	0.946
Numerical Performance Indicator:	-0.15	-0.05
Percent Recovery:	98.52%	99.52%
Status vs Numerical Indicator:	Pass	Pass
Status vs Recovery:	N/A	N/A
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS86628	92811492017
Duplicate Sample I.D.	LCSD86628	92811492017DUP
Sample Result (pCi/L, g, F):	4.845	-0.060
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.945	0.142
Sample Duplicate Result (pCi/L, g, F):	4.924	0.125
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.946	0.175
Are sample and/or duplicate results below RL?	NO	See Below ##
Duplicate Numerical Performance Indicator:	-0.116	-1.603
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	1.02%	566.10%
Duplicate Status vs Numerical Indicator:	Pass	Pass
Duplicate Status vs RPD:	N/A	N/A
% RPD Limit:	25%	25%

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

ET 8-29-25

UMM 8/29/25

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test:	Ra-226
Analyst:	SLC
Date:	9/3/2025
Worklist:	86784
Matrix:	W

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3737577
MB concentration:	0.028
M/B 2 Sigma CSU:	0.328
MB MDC:	0.821
MB Numerical Performance Indicator:	0.17
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS86784	LCSD86784
Count Date:	9/4/2025	9/4/2025
Spike I.D.:	23-014	23-014
Decay Corrected Spike Concentration (pCi/mL):	25.009	25.009
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.504	0.507
Target Conc. (pCi/L, g, F):	4.962	4.935
Uncertainty (Calculated):	0.233	0.232
Result (pCi/L, g, F):	4.835	4.973
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.059	1.094
Numerical Performance Indicator:	-0.23	0.07
Percent Recovery:	97.44%	100.77%
Status vs Numerical Indicator:	Pass	Pass
Status vs Recovery:	N/A	N/A
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS86784	92810485047
Duplicate Sample I.D.	LCSD86784	92810485047DUP
Sample Result (pCi/L, g, F):	4.835	0.248
Sample Result 2 Sigma CSU (pCi/L, g, F):	1.059	0.341
Sample Duplicate Result (pCi/L, g, F):	4.973	0.095
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.094	0.286
Are sample and/or duplicate results below RL?	NO	See Below ##
Duplicate Numerical Performance Indicator:	-0.178	0.675
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	3.35%	89.47%
Duplicate Status vs Numerical Indicator:	Pass	Pass
Duplicate Status vs RPD:	N/A	N/A
% RPD Limit:	25%	25%

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

VAM 9/4/25

ET 9-4-25

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August 14, 2025

Priya Rachel Johnson
ARCADIS US, Inc. - Atlanta
2839 Paces Ferry Rd
Suite 900
Atlanta, GA 30339

RE: Project: Plant Hammond/CCR-Ash Pond
Pace Project No.: 92810823

Dear Priya Johnson:

Enclosed are the analytical results for sample(s) received by the laboratory on August 05, 2025. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Asheville
- Pace Analytical Services - West Columbia

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Maiya Parks
maiya.parks@pacelabs.com
770-734-4205
Project Manager

Enclosures

cc: Jordan Gamble, ARCADIS US, Inc. - Atlanta
Ben Hodges, Southern Company
Christine Hug, Geosyntec Consultants, Inc.
Laura Midkiff, Southern Company
Caroline Nelson, Geosyntec Consultants, Inc
Noelia Muskus Ruiz, Georgia Power
Tina Sullivan, ERM

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Plant Hammond/CCR-Ash Pond
Pace Project No.: 92810823

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Laboratory ID: 99030
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services West Columbia

106 Vantage Point Drive, West Columbia, SC 29172
Alaska Dept. of Energy Conservation, Cert# 20-002
California ELAP, cert# 3049
DoD, DoD QSM V5.4, cert# I.2224
DOE, DoD/DOE QSM V5.4, cert# I.2224.01
Florida, Dept. of Health, cert# E87653-70
Georgia, Env. Protection Division, cert# E87653
Illinois, EPA NELAP, cert# 2000552024-9
Kansas, Dept. of Health and Environment, cert# E-10417
Kentucky, Dept. for Env. Protection, UST, cert# 103582
Kentucky, Dept. for Env. Protection, cert# 98037
Louisiana, Dept. of Environmental Quality, cert# 5125
North Carolina, DEQ, Water Resources, cert# 329
New Jersey, Dept. of Env. Protection, cert# NLC 240005
Oklahoma, Dept. of Env. Quality, cert# 2023-175
Oregon, ELAP, cert# 4181-006
Pennsylvania, Dept. of Env. Protection, cert# 003
South Carolina, Dept. of Env. Services, cert# 32010001
Texas, Commission on Env. Quality, cert# TX-C24-00083
Virginia, Dept. of General Services, cert# 13080
Wisconsin, Dept. of Natural Resources, cert# 399136100

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SAMPLE SUMMARY

Project: Plant Hammond/CCR-Ash Pond
Pace Project No.: 92810823

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92810823001	**HAM-H-SCC-NBR**	Water	08/04/25 10:57	08/05/25 11:59
92810823002	**HAM-H-SCC**	Water	08/04/25 10:41	08/05/25 11:59

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SAMPLE ANALYTE COUNT

Project: Plant Hammond/CCR-Ash Pond
Pace Project No.: 92810823

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92810823001	**HAM-H-SCC-NBR**	SM 2540C-2015	CMW1	1	PASI-A
		EPA 9056A	CDC	3	PASI-A
		EPA 6010D	EM	2	PASI-WC
		EPA 6020B	CBP	1	PASI-WC
92810823002	**HAM-H-SCC**	SM 2540C-2015	CMW1	1	PASI-A
		EPA 9056A	CDC	3	PASI-A
		EPA 6010D	EM	2	PASI-WC
		EPA 6020B	CBP	1	PASI-WC

PASI-A = Pace Analytical Services - Asheville
PASI-WC = Pace Analytical Services - West Columbia

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ANALYTICAL RESULTS

Project: Plant Hammond/CCR-Ash Pond
Pace Project No.: 92810823

Sample: HAM-H-SCC-NBR **Lab ID: 92810823001** Collected: 08/04/25 10:57 Received: 08/05/25 11:59 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville							
Total Dissolved Solids	**92.0**	mg/L	25.0	1		08/08/25 16:23		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville							
Chloride	**1.3**	mg/L	1.0	1		08/06/25 07:34	16887-00-6	
Fluoride	ND	mg/L	0.10	1		08/06/25 07:34	16984-48-8	
Sulfate	**16.1**	mg/L	1.0	1		08/06/25 07:34	14808-79-8	
WC 6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3005A Pace Analytical Services - West Columbia							
Boron	**0.073**	mg/L	0.050	1	08/07/25 11:36	08/08/25 10:11	7440-42-8	
Calcium	**15.9**	mg/L	5.0	1	08/07/25 11:36	08/08/25 10:11	7440-70-2	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia							
Molybdenum	ND	mg/L	0.010	1	08/07/25 11:36	08/08/25 11:02	7439-98-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Hammond/CCR-Ash Pond
Pace Project No.: 92810823

Sample: HAM-H-SCC **Lab ID: 92810823002** Collected: 08/04/25 10:41 Received: 08/05/25 11:59 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville							
Total Dissolved Solids	**91.0**	mg/L	25.0	1		08/08/25 16:23		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville							
Chloride	**3.9**	mg/L	1.0	1		08/06/25 07:48	16887-00-6	
Fluoride	ND	mg/L	0.10	1		08/06/25 07:48	16984-48-8	
Sulfate	**6.0**	mg/L	1.0	1		08/06/25 07:48	14808-79-8	
WC 6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3005A Pace Analytical Services - West Columbia							
Boron	ND	mg/L	0.050	1	08/07/25 11:36	08/08/25 10:14	7440-42-8	
Calcium	**17.2**	mg/L	5.0	1	08/07/25 11:36	08/08/25 10:14	7440-70-2	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia							
Molybdenum	ND	mg/L	0.010	1	08/07/25 11:36	08/08/25 11:12	7439-98-7	

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QUALITY CONTROL DATA

Project: Plant Hammond/CCR-Ash Pond
Pace Project No.: 92810823

QC Batch: 952723
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92810823001, 92810823002

METHOD BLANK: 4896266 Matrix: Water
Associated Lab Samples: 92810823001, 92810823002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	08/08/25 16:21	

LABORATORY CONTROL SAMPLE: 4896267

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	244	98	90-110	

SAMPLE DUPLICATE: 4896268

Parameter	Units	92810806001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	223	219	2	25	

SAMPLE DUPLICATE: 4896269

Parameter	Units	92810821004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	98.0	92.0	6	25	

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QUALITY CONTROL DATA

Project: Plant Hammond/CCR-Ash Pond
Pace Project No.: 92810823

QC Batch: 952111
QC Batch Method: EPA 9056A
Analysis Method: EPA 9056A
Analysis Description: 9056 IC anions 28 Days
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92810823001, 92810823002

METHOD BLANK: 4892325 Matrix: Water
Associated Lab Samples: 92810823001, 92810823002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	08/05/25 22:40	
Fluoride	mg/L	ND	0.10	08/05/25 22:40	
Sulfate	mg/L	ND	1.0	08/05/25 22:40	

LABORATORY CONTROL SAMPLE: 4892326

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.0	100	90-110	
Fluoride	mg/L	2.5	2.7	106	90-110	
Sulfate	mg/L	50	49.5	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4892327 4892328

Parameter	Units	92810821001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	1.3	50	50	49.6	50.0	97	97	90-110	1	10	
Fluoride	mg/L	ND	2.5	2.5	2.4	2.4	92	93	90-110	1	10	
Sulfate	mg/L	7.1	50	50	54.4	54.9	95	96	90-110	1	10	

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QUALITY CONTROL DATA

Project: Plant Hammond/CCR-Ash Pond
Pace Project No.: 92810823

QC Batch: 952504
QC Batch Method: EPA 3005A
Analysis Method: EPA 6010D
Analysis Description: WC 6010D MET ICP
Laboratory: Pace Analytical Services - West Columbia
Associated Lab Samples: 92810823001, 92810823002

METHOD BLANK: 4894644 Matrix: Water
Associated Lab Samples: 92810823001, 92810823002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Boron	mg/L	ND	0.050	08/08/25 09:34	
Calcium	mg/L	ND	5.0	08/08/25 09:34	

LABORATORY CONTROL SAMPLE: 4894645

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	mg/L	0.4	0.42	104	80-120	
Calcium	mg/L	40	39.5	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4894646 4894647

Parameter	Units	92810821001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron	mg/L	ND	0.4	0.4	0.44	0.44	106	106	75-125	0	20	
Calcium	mg/L	39.8	40	40	80.1	80.2	101	101	75-125	0	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Hammond/CCR-Ash Pond
Pace Project No.: 92810823

QC Batch: 952513
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: WC 6020B MET
Laboratory: Pace Analytical Services - West Columbia
Associated Lab Samples: 92810823001, 92810823002

METHOD BLANK: 4894663 Matrix: Water
Associated Lab Samples: 92810823001, 92810823002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Molybdenum	mg/L	ND	0.010	08/08/25 05:54	

LABORATORY CONTROL SAMPLE: 4894664

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Molybdenum	mg/L	0.1	0.092	92	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4894665 4894666

Parameter	Units	92810752001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Molybdenum	mg/L	7.4	0.1	0.1	7.4	7.7	-28	262	75-125	4	20	M1

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALIFIERS

Project: Plant Hammond/CCR-Ash Pond
Pace Project No.: 92810823

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Hammond/CCR-Ash Pond
Pace Project No.: 92810823

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92810823001	**HAM-H-SCC-NBR**	SM 2540C-2015	952723		
92810823002	**HAM-H-SCC**	SM 2540C-2015	952723		
92810823001	**HAM-H-SCC-NBR**	EPA 9056A	952111		
92810823002	**HAM-H-SCC**	EPA 9056A	952111		
92810823001	**HAM-H-SCC-NBR**	EPA 3005A	952504	EPA 6010D	952760
92810823002	**HAM-H-SCC**	EPA 3005A	952504	EPA 6010D	952760
92810823001	**HAM-H-SCC-NBR**	EPA 3005A	952513	EPA 6020B	952831
92810823002	**HAM-H-SCC**	EPA 3005A	952513	EPA 6020B	952831

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Pace® Location Requested (City/State):
Pace Analytical Peachtree Corners
110 Technology Pkwy, Peachtree Corners, GA 30092

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

WO# : 92810823

92810823

Company Name:	ARCADIS US, Inc. - Atlanta	Contact/Report To:	Priya Johnson
Street Address:	2839 Paces Ferry Rd STE 900 Atlanta, GA 30339	Phone #:	(618)790-6528
		E-Mail:	priya.johnson@arcadis.com
		Cc E-Mail:	Arcadis-Atl + GA Power Distribution List
Customer Project #:			
Project Name:	Plant Hammond/CCR-Ash Pond Closure	Invoice To:	Accounts Payable
		Invoice E-Mail:	georgiapowerinvoices@southernco.com
Site Collection Info/Facility ID (as applicable):	AP-1	Purchase Order # (if applicable):	GPC82474-0001
		Quote #:	
Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [ ] ET		County / State origin of sample(s):	Georgia

Data Deliverables: [ ] Level II [ ] Level III [ ] Level IV [ ] EQUIS [ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [ ] No

Rush (Pre-approval required): [ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day [ ] Other

DW PWSID # or WW Permit # as applicable:

Date Results Requested: 5 Day TAT

Field Filtered (if applicable): [ ] Yes [ ] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Composite Start Date	Composite Start Time	Collected or Composite End Date	Collected or Composite End Time	# Cont.	Res. Chlorine Results	Res. Chlorine Units	App. IV Metals - Mo only	App. III Metals - B, Ca	Metals - K, Mg, Na	Alkalinity (Total/Bicarb), Cl, F, SO4	TDS	Sample Comment	Preservation non-conformance identified for sample.
HAM-H-SCC-NBR	WS	G	8/4/25	[redacted]	1057		3			X	X	X	X	X		
HAM-H-SCC	WS	G	8/4/25	1041			3			X	X	X	X	X		

Specify Container Size **

Identify Container Preservative Type***

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) 90mL, (10) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only

Proj. Mgr: Malya Parks

AcctNum / Client ID:

Table #:

Profile / Template: 12590

Prelog / Bottle Ord. ID: EZ 3284574

Additional Instructions from Pace®:
HAM-CSURF-ASSMT-2025S2

Collected By: (Printed Name) Cynthia G.

Signature:

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:

Relinquished by/Company: (Signature)	Date/Time: 8/5/25 0500	Received by/Company: (Signature)	Date/Time: 8/5/25 1055	Tracking Number:
Relinquished by/Company: (Signature)	Date/Time: 8/5/25 1159	Received by/Company: (Signature)	Date/Time: 8/5/25 1159	Delivered by: [ ] In- Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: 1 of 1

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

Pace	DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt
	Effective Date: 05/24/2024

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Arcadis

Project # **WO#: 92810823**

PM: MP Due Date: 08/14/25
CLIENT: GA-ArcadAtl

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace ☐ Other:____

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No ☑ N/A

Date/Initials Person Examining Contents: 8/5/25 aw

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 083

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 2.6 Correction Factor: Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 2.6

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☑ No	☐ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: WS				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg
**Bottom half of box is to list number of bottles
***Check all unpreserved Nitrates for chlorine

Project #

WO#: 92810823
PM: MP Due Date: 08/14/25
CLIENT: GA-ArcadAtl

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Client_____ Profile/EZ (Circle one)_____ Notes_____

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)		BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
CC																														
1	\		2		\	\	1		\			\		\	\	\									\	\				
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12	\				\	\	\		\			\		\	\	\									\	\				

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

August 14, 2025

Priya Rachel Johnson
ARCADIS US, Inc. - Atlanta
2839 Paces Ferry Rd
Suite 900
Atlanta, GA 30339

RE: Project: Plant Hammond/CCR-Ash Pond
Pace Project No.: 92810828

Dear Priya Johnson:

Enclosed are the analytical results for sample(s) received by the laboratory on August 05, 2025. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Asheville
- Pace Analytical Services - West Columbia

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Maiya Parks
maiya.parks@pacelabs.com
770-734-4205
Project Manager

Enclosures

cc: Jordan Gamble, ARCADIS US, Inc. - Atlanta
Ben Hodges, Southern Company
Christine Hug, Geosyntec Consultants, Inc.
Laura Midkiff, Southern Company
Caroline Nelson, Geosyntec Consultants, Inc
Noelia Muskus Ruiz, Georgia Power
Tina Sullivan, ERM

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Plant Hammond/CCR-Ash Pond
Pace Project No.: 92810828

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Laboratory ID: 99030
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services West Columbia

106 Vantage Point Drive, West Columbia, SC 29172
Alaska Dept. of Energy Conservation, Cert# 20-002
California ELAP, cert# 3049
DoD, DoD QSM V5.4, cert# I.2224
DOE, DoD/DOE QSM V5.4, cert# I.2224.01
Florida, Dept. of Health, cert# E87653-70
Georgia, Env. Protection Division, cert# E87653
Illinois, EPA NELAP, cert# 2000552024-9
Kansas, Dept. of Health and Environment, cert# E-10417
Kentucky, Dept. for Env. Protection, UST, cert# 103582
Kentucky, Dept. for Env. Protection, cert# 98037
Louisiana, Dept. of Environmental Quality, cert# 5125
North Carolina, DEQ, Water Resources, cert# 329
New Jersey, Dept. of Env. Protection, cert# NLC 240005
Oklahoma, Dept. of Env. Quality, cert# 2023-175
Oregon, ELAP, cert# 4181-006
Pennsylvania, Dept. of Env. Protection, cert# 003
South Carolina, Dept. of Env. Services, cert# 32010001
Texas, Commission on Env. Quality, cert# TX-C24-00083
Virginia, Dept. of General Services, cert# 13080
Wisconsin, Dept. of Natural Resources, cert# 399136100

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SAMPLE SUMMARY

Project: Plant Hammond/CCR-Ash Pond
Pace Project No.: 92810828

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92810828001	**HAM-H+0.25**	Water	08/04/25 10:08	08/05/25 11:59

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SAMPLE ANALYTE COUNT

Project: Plant Hammond/CCR-Ash Pond
Pace Project No.: 92810828

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92810828001	**HAM-H+0.25**	SM 2540C-2015	CMW1	1	PASI-A
		EPA 9056A	CDC	3	PASI-A
		EPA 6010D	EM	2	PASI-WC
		EPA 6020B	CBP	2	PASI-WC

PASI-A = Pace Analytical Services - Asheville
PASI-WC = Pace Analytical Services - West Columbia

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ANALYTICAL RESULTS

Project: Plant Hammond/CCR-Ash Pond
Pace Project No.: 92810828

Sample: HAM-H+0.25 **Lab ID: 92810828001** Collected: 08/04/25 10:08 Received: 08/05/25 11:59 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville							
Total Dissolved Solids	**86.0**	mg/L	25.0	1		08/08/25 16:23		
9056 IC anions 28 Days	Analytical Method: EPA 9056A Pace Analytical Services - Asheville							
Chloride	**4.7**	mg/L	1.0	1		08/06/25 08:03	16887-00-6	
Fluoride	ND	mg/L	0.10	1		08/06/25 08:03	16984-48-8	
Sulfate	**5.6**	mg/L	1.0	1		08/06/25 08:03	14808-79-8	
WC 6010D MET ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3005A Pace Analytical Services - West Columbia							
Boron	ND	mg/L	0.050	1	08/07/25 11:36	08/08/25 10:16	7440-42-8	
Calcium	**18.0**	mg/L	5.0	1	08/07/25 11:36	08/08/25 10:16	7440-70-2	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia							
Cobalt	ND	mg/L	0.0050	1	08/07/25 11:36	08/08/25 11:22	7440-48-4	
Molybdenum	ND	mg/L	0.010	1	08/07/25 11:36	08/08/25 11:22	7439-98-7	

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QUALITY CONTROL DATA

Project: Plant Hammond/CCR-Ash Pond
Pace Project No.: 92810828

QC Batch: 952723
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92810828001

METHOD BLANK: 4896266 Matrix: Water
Associated Lab Samples: 92810828001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	08/08/25 16:21	

LABORATORY CONTROL SAMPLE: 4896267

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	244	98	90-110	

SAMPLE DUPLICATE: 4896268

Parameter	Units	92810806001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	223	219	2	25	

SAMPLE DUPLICATE: 4896269

Parameter	Units	92810821004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	98.0	92.0	6	25	

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QUALITY CONTROL DATA

Project: Plant Hammond/CCR-Ash Pond
Pace Project No.: 92810828

QC Batch: 952111
QC Batch Method: EPA 9056A
Analysis Method: EPA 9056A
Analysis Description: 9056 IC anions 28 Days
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92810828001

METHOD BLANK: 4892325 Matrix: Water
Associated Lab Samples: 92810828001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	08/05/25 22:40	
Fluoride	mg/L	ND	0.10	08/05/25 22:40	
Sulfate	mg/L	ND	1.0	08/05/25 22:40	

LABORATORY CONTROL SAMPLE: 4892326

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.0	100	90-110	
Fluoride	mg/L	2.5	2.7	106	90-110	
Sulfate	mg/L	50	49.5	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4892327 4892328

Parameter	Units	92810821001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	1.3	50	50	49.6	50.0	97	97	90-110	1	10	
Fluoride	mg/L	ND	2.5	2.5	2.4	2.4	92	93	90-110	1	10	
Sulfate	mg/L	7.1	50	50	54.4	54.9	95	96	90-110	1	10	

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QUALITY CONTROL DATA

Project: Plant Hammond/CCR-Ash Pond
Pace Project No.: 92810828

QC Batch: 952504
QC Batch Method: EPA 3005A
Analysis Method: EPA 6010D
Analysis Description: WC 6010D MET ICP
Laboratory: Pace Analytical Services - West Columbia
Associated Lab Samples: 92810828001

METHOD BLANK: 4894644 Matrix: Water
Associated Lab Samples: 92810828001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Boron	mg/L	ND	0.050	08/08/25 09:34	
Calcium	mg/L	ND	5.0	08/08/25 09:34	

LABORATORY CONTROL SAMPLE: 4894645

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	mg/L	0.4	0.42	104	80-120	
Calcium	mg/L	40	39.5	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4894646 4894647

Parameter	Units	92810821001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron	mg/L	ND	0.4	0.4	0.44	0.44	106	106	75-125	0	20	
Calcium	mg/L	39.8	40	40	80.1	80.2	101	101	75-125	0	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Hammond/CCR-Ash Pond
Pace Project No.: 92810828

QC Batch: 952513
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: WC 6020B MET
Laboratory: Pace Analytical Services - West Columbia
Associated Lab Samples: 92810828001

METHOD BLANK: 4894663 Matrix: Water
Associated Lab Samples: 92810828001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cobalt	mg/L	ND	0.0050	08/08/25 05:54	
Molybdenum	mg/L	ND	0.010	08/08/25 05:54	

LABORATORY CONTROL SAMPLE: 4894664

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cobalt	mg/L	0.1	0.10	101	80-120	
Molybdenum	mg/L	0.1	0.092	92	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4894665 4894666

Parameter	Units	92810752001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cobalt	mg/L	ND	0.1	0.1	0.098	0.10	97	99	75-125	2	20	
Molybdenum	mg/L	7.4	0.1	0.1	7.4	7.7	-28	262	75-125	4	20	M1

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QUALIFIERS

Project: Plant Hammond/CCR-Ash Pond
Pace Project No.: 92810828

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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Peachtree Corners, GA 30092
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Hammond/CCR-Ash Pond
Pace Project No.: 92810828

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92810828001	**HAM-H+0.25**	SM 2540C-2015	952723		
92810828001	**HAM-H+0.25**	EPA 9056A	952111		
92810828001	**HAM-H+0.25**	EPA 3005A	952504	EPA 6010D	952760
92810828001	**HAM-H+0.25**	EPA 3005A	952513	EPA 6020B	952831

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Pace® Location Requested (City/State):
Pace Analytical Peachtree Corners
110 Technology Pkwy, Peachtree Corners, GA 30092

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

WO# : 92810828

92810828

Company Name:	ARCADIS US, Inc. - Atlanta	Contact/Report To:	Priya Johnson
Street Address:	2839 Paces Ferry Rd STE 900 Atlanta, GA 30339	Phone #:	(618)790-6528
		E-Mail:	priya.johnson@arcadis.com
		Cc E-Mail:	Arcadis-Atl + GA Power Distribution List
Customer Project #:			
Project Name:	Plant Hammond/CCR-Ash Pond Closure	Invoice To:	Accounts Payable
		Invoice E-Mail:	georgiapowerinvoices@southernco.com
Site Collection Info/Facility ID (as applicable):	AP-1/AP-2	Purchase Order # (if applicable):	GPC82474-0001
		Quote #:	
Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [ ] ET		County / State origin of sample(s):	Georgia

Data Deliverables: [ ] Level II [ ] Level III [ ] Level IV [ ] EQUIS [ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [ ] No

Rush (Pre-approval required): [ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day [ ] Other

DW PWSID # or WW Permit # as applicable:

Date Results Requested: 5 Day TAT

Field Filtered (if applicable): [ ] Yes [ ] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW) Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Composite Start Date	Composite Start Time	Collected or Composite End Date	Collected or Composite End Time	# Cont.	Res. Chlorine Results	Res. Chlorine Units	App. IV Metals - Co, Mo only	App. III Metals - B, Ca	Metals - K, Mg, Na	Alkalinity (Total/Bicarb), Cl, F, SO4	TDS	Sample Comment	Preservation non-conformance identified for sample.
HAM-H+0.25	WS	G	8/4/25	1008			3			X	X	X	X	X		

Specify Container Size **

Identify Container Preservative Type***

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) 90mL, (10) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only

Proj. Mgr: Maiya Parks

AcctNum / Client ID:

Table #:

Profile / Template: 12590

Prelog / Bottle Ord. ID: EZ 3284574

Additional Instructions from Pace®:
HAM-CSURF-ASSMT-202552

Collected By: (Printed Name) Brayett G

Signature:

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp (°C)	Corrected Temp. (°C)	On Ice:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
Arcadis	8/5/25 0500		8/5/25 1055	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Delivered by: [ ] In-Person [ ] Courier
	8/5/25 1154		1154	[ ] FedEx [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: 1 of 1

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

Pace Analytical Services	DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt
	Effective Date: 05/24/2024

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ M

Sample Condition Upon Receipt

WO#: 92810828
PM: MP Due Date: 08/14/25
CLIENT: GA-ArcadAtl

Client Name: Arcadis Project

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace ☐ Other:____

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No ☑ N/A

Date/Initials Person Examining Contents: 8/6/25 DW

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 083

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 2.6 Correction Factor: Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 2.6

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☑ No	☐ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: WS				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg
**Bottom half of box is to list number of bottles
***Check all unpreserved Nitrates for chlorine

Project # **WO#: 92810828**

PM: MP Due Date: 08/14/25
CLIENT: GA-ArcadAtl

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Client Arcadis Profile/EZ (Circle one)_____ Notes_____

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas klt (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
CC																													
1		1	1				1																						
2																													
3																													
4																													
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

CORRECTIVE ACTION PIEZOMETER SAMPLING (AUGUST 2025)

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

September 05, 2025

Kristen Jurinko
Southern Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, GA 30308

RE: Project: Plant Hammond-(AP-1) ACM
Pace Project No.: 92812251

Dear Kristen Jurinko:

Enclosed are the analytical results for sample(s) received by the laboratory between August 11, 2025 and August 13, 2025. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Asheville
- Pace Analytical Services - West Columbia

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Bonnie Vang
bonnie.vang@pacelabs.com
704-977-0968
Project Manager

Enclosures

cc: Kip Gray, Geosyntec
Christine Hug, Geosyntec Consultants, Inc.
Thomas Kessler, Geosyntec Consultants
Whitney Law, Geosyntec Consultants
Laura Midkiff, Southern Company
Caroline Nelson, Geosyntec Consultants, Inc
Jamie Newsome, Geosyntec Consultants
Amanda Tomlinson, Geosyntec Consultants
Zain Webb, Geosyntec Consultants

REPORT OF LABORATORY ANALYSIS

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: Plant Hammond-(AP-1) ACM
Pace Project No.: 92812251

Pace Analytical Services Asheville
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Laboratory ID: 99030
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services West Columbia
106 Vantage Point Drive, West Columbia, SC 29172
Alaska Dept. of Energy Conservation, Cert# 20-002
California ELAP, cert# 3049
DoD, DoD QSM V5.4, cert# I.2224
DOE, DoD/DOE QSM V5.4, cert# I.2224.01
Florida, Dept. of Health, cert# E87653-70
Georgia, Env. Protection Division, cert# E87653
Illinois, EPA NELAP, cert# 2000552024-9
Kansas, Dept. of Health and Environment, cert# E-10417
Kentucky, Dept. for Env. Protection, UST, cert# 103582
Kentucky, Dept. for Env. Protection, cert# 98037
Louisiana, Dept. of Environmental Quality, cert# 5125
North Carolina, DEQ, Water Resources, cert# 329
New Jersey, Dept. of Env. Protection, cert# NLC 240005
Oklahoma, Dept. of Env. Quality, cert# 2023-175
Oregon, ELAP, cert# 4181-006
Pennsylvania, Dept. of Env. Protection, cert# 003
South Carolina, Dept. of Env. Services, cert# 32010001
Texas, Commission on Env. Quality, cert# TX-C24-00083
Virginia, Dept. of General Services, cert# 13080
Wisconsin, Dept. of Natural Resources, cert# 399136100

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Huntersville, NC 28078
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SAMPLE SUMMARY

Project: Plant Hammond-(AP-1) ACM
Pace Project No.: 92812251

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92812251001	**HAM-PT-09**	Water	08/10/25 16:00	08/11/25 14:40
92812251002	**HAM-PT-10**	Water	08/10/25 16:10	08/11/25 14:40
92812251003	**HAM-PT-11**	Water	08/10/25 14:46	08/11/25 14:40
92812251004	**HAM-PT-12**	Water	08/10/25 14:45	08/11/25 14:40
92812251005	**HAM-PT-07**	Water	08/11/25 11:17	08/13/25 14:25
92812251006	**HAM-PT-08**	Water	08/11/25 14:02	08/13/25 14:25
92812251007	**HAM-PT-13**	Water	08/11/25 14:35	08/13/25 14:25
92812251008	**HAM-PT-14**	Water	08/11/25 12:15	08/13/25 14:25
92812251009	**HAM-PT-15**	Water	08/11/25 09:35	08/13/25 14:25
92812251010	**HAM-MW-53**	Water	08/11/25 17:48	08/13/25 14:25
92812251011	**HAM-MW-54**	Water	08/11/25 16:45	08/13/25 14:25
92812251012	**HAM-AP1-FD-02**	Water	08/11/25 00:00	08/13/25 14:25
92812251013	**HAM-AP1-EB-02**	Water	08/11/25 14:34	08/13/25 14:25
92812251014	**HAM-AP1-FB-02**	Water	08/11/25 14:38	08/13/25 14:25
92812251015	**HAM-AP1-FD-03**	Water	08/11/25 00:00	08/13/25 14:25
92812251016	**HAM-AP1-EB-03**	Water	08/11/25 15:00	08/13/25 14:25
92812251017	**HAM-AP1-FB-03**	Water	08/11/25 15:05	08/13/25 14:25

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Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: Plant Hammond-(AP-1) ACM
Pace Project No.: 92812251

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92812251001	**HAM-PT-09**	SM 2320B-2021	YEG	3
		EPA 6020B	BW	3
92812251002	**HAM-PT-10**	SM 2320B-2021	YEG	3
		EPA 6020B	BW	3
92812251003	**HAM-PT-11**	SM 2320B-2021	YEG	3
		EPA 6020B	BW	3
92812251004	**HAM-PT-12**	SM 2320B-2021	YEG	3
		EPA 6020B	BW	3
92812251005	**HAM-PT-07**	SM 2320B-2021	YEG	3
		EPA 6020B	BW, CBP	3
92812251006	**HAM-PT-08**	SM 2320B-2021	YEG	3
		EPA 6020B	BW, CBP	3
92812251007	**HAM-PT-13**	SM 2320B-2021	YEG	3
		EPA 6020B	BW, CBP	3
92812251008	**HAM-PT-14**	SM 2320B-2021	YEG	3
		EPA 6020B	BW, CBP	3
92812251009	**HAM-PT-15**	SM 2320B-2021	YEG	3
		EPA 6020B	BW, CBP	3
92812251010	**HAM-MW-53**	SM 2320B-2021	YEG	3
		EPA 6020B	BW, CBP	3
92812251011	**HAM-MW-54**	SM 2320B-2021	YEG	3
		EPA 6020B	BW, CBP	3
92812251012	**HAM-AP1-FD-02**	SM 2320B-2021	YEG	3
		EPA 6020B	BW, CBP	4
92812251013	**HAM-AP1-EB-02**	SM 2320B-2021	YEG	3
		EPA 6020B	BW	4
92812251014	**HAM-AP1-FB-02**	SM 2320B-2021	YEG	3
		EPA 6020B	BW	4
92812251015	**HAM-AP1-FD-03**	SM 2320B-2021	YEG	3
		EPA 6020B	BW, CBP	4
92812251016	**HAM-AP1-EB-03**	SM 2320B-2021	YEG	3
		EPA 6020B	BW	4
92812251017	**HAM-AP1-FB-03**	SM 2320B-2021	YEG	3
		EPA 6020B	BW	4

PASI-A = Pace Analytical Services - Asheville
PASI-WC = Pace Analytical Services - West Columbia

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Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SUMMARY OF DETECTION

Project: Plant Hammond-(AP-1) ACM
Pace Project No.: 92812251

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92812251001	**HAM-PT-09**					
SM 2320B-2021	Alkalinity,Bicarbonate (CaCO3)	120	mg/L	5.0	08/18/25 23:10	
SM 2320B-2021	Alkalinity, Total as CaCO3	120	mg/L	5.0	08/18/25 23:10	
EPA 6020B	Boron	1.4	mg/L	0.40	08/15/25 07:11	M1
EPA 6020B	Iron	0.22	mg/L	0.040	08/15/25 04:43	
EPA 6020B	Molybdenum	0.11	mg/L	0.010	08/15/25 04:43	
92812251002	**HAM-PT-10**					
SM 2320B-2021	Alkalinity,Bicarbonate (CaCO3)	125	mg/L	5.0	08/18/25 23:19	
SM 2320B-2021	Alkalinity, Total as CaCO3	125	mg/L	5.0	08/18/25 23:19	
EPA 6020B	Boron	1.4	mg/L	0.40	08/15/25 08:16	
EPA 6020B	Iron	0.23	mg/L	0.040	08/15/25 05:29	
EPA 6020B	Molybdenum	0.070	mg/L	0.010	08/15/25 05:29	
92812251003	**HAM-PT-11**					
SM 2320B-2021	Alkalinity,Bicarbonate (CaCO3)	123	mg/L	5.0	08/18/25 23:28	
SM 2320B-2021	Alkalinity, Total as CaCO3	123	mg/L	5.0	08/18/25 23:28	
EPA 6020B	Boron	1.4	mg/L	0.40	08/15/25 08:26	
EPA 6020B	Iron	0.27	mg/L	0.040	08/15/25 05:39	
EPA 6020B	Molybdenum	0.12	mg/L	0.010	08/15/25 05:39	
92812251004	**HAM-PT-12**					
SM 2320B-2021	Alkalinity,Bicarbonate (CaCO3)	108	mg/L	5.0	08/18/25 23:37	
SM 2320B-2021	Alkalinity, Total as CaCO3	108	mg/L	5.0	08/18/25 23:37	
EPA 6020B	Boron	1.3	mg/L	0.40	08/15/25 08:35	
EPA 6020B	Iron	0.035J	mg/L	0.040	08/15/25 05:48	
EPA 6020B	Molybdenum	0.098	mg/L	0.010	08/15/25 05:48	
92812251005	**HAM-PT-07**					
SM 2320B-2021	Alkalinity,Bicarbonate (CaCO3)	168	mg/L	5.0	08/20/25 18:14	
SM 2320B-2021	Alkalinity, Total as CaCO3	168	mg/L	5.0	08/20/25 18:14	
EPA 6020B	Arsenic	0.17	mg/L	0.0020	09/03/25 17:43	
EPA 6020B	Boron	0.92	mg/L	0.20	09/04/25 15:24	
EPA 6020B	Iron	4.5	mg/L	0.040	09/03/25 17:43	
92812251006	**HAM-PT-08**					
SM 2320B-2021	Alkalinity,Bicarbonate (CaCO3)	154	mg/L	5.0	08/20/25 18:24	
SM 2320B-2021	Alkalinity, Total as CaCO3	154	mg/L	5.0	08/20/25 18:24	
EPA 6020B	Arsenic	0.033	mg/L	0.0020	09/03/25 17:51	
EPA 6020B	Boron	1.1	mg/L	0.20	09/04/25 15:31	
EPA 6020B	Iron	0.61	mg/L	0.040	09/03/25 17:51	
92812251007	**HAM-PT-13**					
SM 2320B-2021	Alkalinity,Bicarbonate (CaCO3)	172	mg/L	5.0	08/20/25 18:35	
SM 2320B-2021	Alkalinity, Total as CaCO3	172	mg/L	5.0	08/20/25 18:35	
EPA 6020B	Arsenic	0.23	mg/L	0.0020	09/03/25 18:00	
EPA 6020B	Boron	0.83	mg/L	0.20	09/04/25 15:39	
EPA 6020B	Iron	4.6	mg/L	0.040	09/03/25 18:00	
92812251008	**HAM-PT-14**					
SM 2320B-2021	Alkalinity,Bicarbonate (CaCO3)	178	mg/L	5.0	08/20/25 18:54	

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SUMMARY OF DETECTION

Project: Plant Hammond-(AP-1) ACM
Pace Project No.: 92812251

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92812251008	**HAM-PT-14**					
SM 2320B-2021	Alkalinity, Total as CaCO3	178	mg/L	5.0	08/20/25 18:54	
EPA 6020B	Arsenic	0.55	mg/L	0.010	09/04/25 15:46	
EPA 6020B	Boron	0.81	mg/L	0.20	09/04/25 15:46	
EPA 6020B	Iron	11.4	mg/L	0.040	09/03/25 18:08	
92812251009	**HAM-PT-15**					
SM 2320B-2021	Alkalinity,Bicarbonate (CaCO3)	180	mg/L	5.0	08/20/25 19:06	
SM 2320B-2021	Alkalinity, Total as CaCO3	180	mg/L	5.0	08/20/25 19:06	
EPA 6020B	Arsenic	0.060	mg/L	0.0020	09/03/25 18:17	
EPA 6020B	Boron	0.76	mg/L	0.20	09/04/25 15:53	
EPA 6020B	Iron	0.37	mg/L	0.040	09/03/25 18:17	
92812251010	**HAM-MW-53**					
SM 2320B-2021	Alkalinity,Bicarbonate (CaCO3)	188	mg/L	5.0	08/20/25 19:17	
SM 2320B-2021	Alkalinity, Total as CaCO3	188	mg/L	5.0	08/20/25 19:17	
EPA 6020B	Boron	2.1	mg/L	0.40	09/04/25 16:00	
EPA 6020B	Iron	0.16	mg/L	0.040	09/03/25 18:25	
EPA 6020B	Molybdenum	0.10	mg/L	0.010	09/03/25 18:25	
92812251011	**HAM-MW-54**					
SM 2320B-2021	Alkalinity,Bicarbonate (CaCO3)	114	mg/L	5.0	08/20/25 19:28	
SM 2320B-2021	Alkalinity, Total as CaCO3	114	mg/L	5.0	08/20/25 19:28	
EPA 6020B	Arsenic	0.033	mg/L	0.0020	09/03/25 18:33	
EPA 6020B	Boron	0.76	mg/L	0.20	09/04/25 16:07	
EPA 6020B	Iron	0.099	mg/L	0.040	09/03/25 18:33	
92812251012	**HAM-AP1-FD-02**					
SM 2320B-2021	Alkalinity,Bicarbonate (CaCO3)	179	mg/L	5.0	08/20/25 19:38	
SM 2320B-2021	Alkalinity, Total as CaCO3	179	mg/L	5.0	08/20/25 19:38	
EPA 6020B	Arsenic	0.059	mg/L	0.0020	09/03/25 18:59	
EPA 6020B	Boron	0.84	mg/L	0.20	09/04/25 16:15	
EPA 6020B	Iron	0.35	mg/L	0.040	09/03/25 18:59	
EPA 6020B	Molybdenum	0.018	mg/L	0.010	09/03/25 18:59	
92812251015	**HAM-AP1-FD-03**					
SM 2320B-2021	Alkalinity,Bicarbonate (CaCO3)	188	mg/L	5.0	08/20/25 20:25	
SM 2320B-2021	Alkalinity, Total as CaCO3	188	mg/L	5.0	08/20/25 20:25	
EPA 6020B	Boron	1.8	mg/L	0.40	09/04/25 16:22	
EPA 6020B	Iron	0.29	mg/L	0.040	09/03/25 19:24	
EPA 6020B	Molybdenum	0.11	mg/L	0.010	09/03/25 19:24	
92812251016	**HAM-AP1-EB-03**					
EPA 6020B	Iron	0.022J	mg/L	0.040	09/03/25 19:33	

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ANALYTICAL RESULTS

Project: Plant Hammond-(AP-1) ACM
Pace Project No.: 92812251

Sample: HAM-PT-09 **Lab ID: 92812251001** Collected: 08/10/25 16:00 Received: 08/11/25 14:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B-2021 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**120**	mg/L	5.0	5.0	1		08/18/25 23:10		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		08/18/25 23:10		
Alkalinity, Total as CaCO3	**120**	mg/L	5.0	5.0	1		08/18/25 23:10		
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Boron	**1.4**	mg/L	0.40	0.062	10	08/14/25 10:12	08/15/25 07:11	7440-42-8	M1
Iron	**0.22**	mg/L	0.040	0.012	1	08/14/25 10:12	08/15/25 04:43	7439-89-6	
Molybdenum	**0.11**	mg/L	0.010	0.0025	1	08/14/25 10:12	08/15/25 04:43	7439-98-7	

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ANALYTICAL RESULTS

Project: Plant Hammond-(AP-1) ACM
Pace Project No.: 92812251

Sample: HAM-PT-10 **Lab ID: 92812251002** Collected: 08/10/25 16:10 Received: 08/11/25 14:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B-2021 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**125**	mg/L	5.0	5.0	1		08/18/25 23:19		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		08/18/25 23:19		
Alkalinity, Total as CaCO3	**125**	mg/L	5.0	5.0	1		08/18/25 23:19		
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Boron	**1.4**	mg/L	0.40	0.062	10	08/14/25 10:12	08/15/25 08:16	7440-42-8	
Iron	**0.23**	mg/L	0.040	0.012	1	08/14/25 10:12	08/15/25 05:29	7439-89-6	
Molybdenum	**0.070**	mg/L	0.010	0.0025	1	08/14/25 10:12	08/15/25 05:29	7439-98-7	

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ANALYTICAL RESULTS

Project: Plant Hammond-(AP-1) ACM
Pace Project No.: 92812251

Sample: HAM-PT-11 **Lab ID: 92812251003** Collected: 08/10/25 14:46 Received: 08/11/25 14:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B-2021 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**123**	mg/L	5.0	5.0	1		08/18/25 23:28		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		08/18/25 23:28		
Alkalinity, Total as CaCO3	**123**	mg/L	5.0	5.0	1		08/18/25 23:28		
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Boron	**1.4**	mg/L	0.40	0.062	10	08/14/25 10:12	08/15/25 08:26	7440-42-8	
Iron	**0.27**	mg/L	0.040	0.012	1	08/14/25 10:12	08/15/25 05:39	7439-89-6	
Molybdenum	**0.12**	mg/L	0.010	0.0025	1	08/14/25 10:12	08/15/25 05:39	7439-98-7	

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ANALYTICAL RESULTS

Project: Plant Hammond-(AP-1) ACM
Pace Project No.: 92812251

Sample: HAM-PT-12 **Lab ID: 92812251004** Collected: 08/10/25 14:45 Received: 08/11/25 14:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B-2021 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**108**	mg/L	5.0	5.0	1		08/18/25 23:37		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		08/18/25 23:37		
Alkalinity, Total as CaCO3	**108**	mg/L	5.0	5.0	1		08/18/25 23:37		
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Boron	**1.3**	mg/L	0.40	0.062	10	08/14/25 10:12	08/15/25 08:35	7440-42-8	
Iron	**0.035J**	mg/L	0.040	0.012	1	08/14/25 10:12	08/15/25 05:48	7439-89-6	
Molybdenum	**0.098**	mg/L	0.010	0.0025	1	08/14/25 10:12	08/15/25 05:48	7439-98-7	

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ANALYTICAL RESULTS

Project: Plant Hammond-(AP-1) ACM
Pace Project No.: 92812251

Sample: HAM-PT-07 **Lab ID: 92812251005** Collected: 08/11/25 11:17 Received: 08/13/25 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B-2021 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**168**	mg/L	5.0	5.0	1		08/20/25 18:14		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		08/20/25 18:14		
Alkalinity, Total as CaCO3	**168**	mg/L	5.0	5.0	1		08/20/25 18:14		
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Arsenic	**0.17**	mg/L	0.0020	0.0012	1	08/21/25 00:35	09/03/25 17:43	7440-38-2	
Boron	**0.92**	mg/L	0.20	0.031	5	08/21/25 00:35	09/04/25 15:24	7440-42-8	
Iron	**4.5**	mg/L	0.040	0.012	1	08/21/25 00:35	09/03/25 17:43	7439-89-6	

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ANALYTICAL RESULTS

Project: Plant Hammond-(AP-1) ACM
Pace Project No.: 92812251

Sample: HAM-PT-08 **Lab ID: 92812251006** Collected: 08/11/25 14:02 Received: 08/13/25 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B-2021 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**154**	mg/L	5.0	5.0	1		08/20/25 18:24		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		08/20/25 18:24		
Alkalinity, Total as CaCO3	**154**	mg/L	5.0	5.0	1		08/20/25 18:24		
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Arsenic	**0.033**	mg/L	0.0020	0.0012	1	08/21/25 00:35	09/03/25 17:51	7440-38-2	
Boron	**1.1**	mg/L	0.20	0.031	5	08/21/25 00:35	09/04/25 15:31	7440-42-8	
Iron	**0.61**	mg/L	0.040	0.012	1	08/21/25 00:35	09/03/25 17:51	7439-89-6	

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ANALYTICAL RESULTS

Project: Plant Hammond-(AP-1) ACM
Pace Project No.: 92812251

Sample: HAM-PT-13 **Lab ID: 92812251007** Collected: 08/11/25 14:35 Received: 08/13/25 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B-2021 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**172**	mg/L	5.0	5.0	1		08/20/25 18:35		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		08/20/25 18:35		
Alkalinity, Total as CaCO3	**172**	mg/L	5.0	5.0	1		08/20/25 18:35		
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Arsenic	**0.23**	mg/L	0.0020	0.0012	1	08/21/25 00:35	09/03/25 18:00	7440-38-2	
Boron	**0.83**	mg/L	0.20	0.031	5	08/21/25 00:35	09/04/25 15:39	7440-42-8	
Iron	**4.6**	mg/L	0.040	0.012	1	08/21/25 00:35	09/03/25 18:00	7439-89-6	

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ANALYTICAL RESULTS

Project: Plant Hammond-(AP-1) ACM
Pace Project No.: 92812251

Sample: HAM-PT-14 **Lab ID: 92812251008** Collected: 08/11/25 12:15 Received: 08/13/25 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B-2021 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**178**	mg/L	5.0	5.0	1		08/20/25 18:54		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		08/20/25 18:54		
Alkalinity, Total as CaCO3	**178**	mg/L	5.0	5.0	1		08/20/25 18:54		
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Arsenic	**0.55**	mg/L	0.010	0.0062	5	08/21/25 00:35	09/04/25 15:46	7440-38-2	
Boron	**0.81**	mg/L	0.20	0.031	5	08/21/25 00:35	09/04/25 15:46	7440-42-8	
Iron	**11.4**	mg/L	0.040	0.012	1	08/21/25 00:35	09/03/25 18:08	7439-89-6	

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ANALYTICAL RESULTS

Project: Plant Hammond-(AP-1) ACM
Pace Project No.: 92812251

Sample: HAM-PT-15 **Lab ID: 92812251009** Collected: 08/11/25 09:35 Received: 08/13/25 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B-2021 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**180**	mg/L	5.0	5.0	1		08/20/25 19:06		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		08/20/25 19:06		
Alkalinity, Total as CaCO3	**180**	mg/L	5.0	5.0	1		08/20/25 19:06		
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Arsenic	**0.060**	mg/L	0.0020	0.0012	1	08/21/25 00:35	09/03/25 18:17	7440-38-2	
Boron	**0.76**	mg/L	0.20	0.031	5	08/21/25 00:35	09/04/25 15:53	7440-42-8	
Iron	**0.37**	mg/L	0.040	0.012	1	08/21/25 00:35	09/03/25 18:17	7439-89-6	

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ANALYTICAL RESULTS

Project: Plant Hammond-(AP-1) ACM
Pace Project No.: 92812251

Sample: HAM-MW-53 **Lab ID: 92812251010** Collected: 08/11/25 17:48 Received: 08/13/25 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B-2021 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**188**	mg/L	5.0	5.0	1		08/20/25 19:17		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		08/20/25 19:17		
Alkalinity, Total as CaCO3	**188**	mg/L	5.0	5.0	1		08/20/25 19:17		
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Boron	**2.1**	mg/L	0.40	0.062	10	08/21/25 00:35	09/04/25 16:00	7440-42-8	
Iron	**0.16**	mg/L	0.040	0.012	1	08/21/25 00:35	09/03/25 18:25	7439-89-6	
Molybdenum	**0.10**	mg/L	0.010	0.0025	1	08/21/25 00:35	09/03/25 18:25	7439-98-7	

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ANALYTICAL RESULTS

Project: Plant Hammond-(AP-1) ACM
Pace Project No.: 92812251

Sample: HAM-MW-54 **Lab ID: 92812251011** Collected: 08/11/25 16:45 Received: 08/13/25 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B-2021 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**114**	mg/L	5.0	5.0	1		08/20/25 19:28		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		08/20/25 19:28		
Alkalinity, Total as CaCO3	**114**	mg/L	5.0	5.0	1		08/20/25 19:28		
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Arsenic	**0.033**	mg/L	0.0020	0.0012	1	08/21/25 00:35	09/03/25 18:33	7440-38-2	
Boron	**0.76**	mg/L	0.20	0.031	5	08/21/25 00:35	09/04/25 16:07	7440-42-8	
Iron	**0.099**	mg/L	0.040	0.012	1	08/21/25 00:35	09/03/25 18:33	7439-89-6	

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ANALYTICAL RESULTS

Project: Plant Hammond-(AP-1) ACM
Pace Project No.: 92812251

Sample: HAM-AP1-FD-02 **Lab ID: 92812251012** Collected: 08/11/25 00:00 Received: 08/13/25 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B-2021 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**179**	mg/L	5.0	5.0	1		08/20/25 19:38		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		08/20/25 19:38		
Alkalinity, Total as CaCO3	**179**	mg/L	5.0	5.0	1		08/20/25 19:38		
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Arsenic	**0.059**	mg/L	0.0020	0.0012	1	08/21/25 00:35	09/03/25 18:59	7440-38-2	
Boron	**0.84**	mg/L	0.20	0.031	5	08/21/25 00:35	09/04/25 16:15	7440-42-8	
Iron	**0.35**	mg/L	0.040	0.012	1	08/21/25 00:35	09/03/25 18:59	7439-89-6	
Molybdenum	**0.018**	mg/L	0.010	0.0025	1	08/21/25 00:35	09/03/25 18:59	7439-98-7	

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ANALYTICAL RESULTS

Project: Plant Hammond-(AP-1) ACM
Pace Project No.: 92812251

Sample: HAM-AP1-EB-02 **Lab ID: 92812251013** Collected: 08/11/25 14:34 Received: 08/13/25 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B-2021 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		08/20/25 19:49		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		08/20/25 19:49		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		08/20/25 19:49		
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Arsenic	ND	mg/L	0.0020	0.0012	1	08/21/25 00:35	09/03/25 19:07	7440-38-2	
Boron	ND	mg/L	0.040	0.0062	1	08/21/25 00:35	09/03/25 19:07	7440-42-8	
Iron	ND	mg/L	0.040	0.012	1	08/21/25 00:35	09/03/25 19:07	7439-89-6	
Molybdenum	ND	mg/L	0.010	0.0025	1	08/21/25 00:35	09/03/25 19:07	7439-98-7	

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ANALYTICAL RESULTS

Project: Plant Hammond-(AP-1) ACM
Pace Project No.: 92812251

Sample: HAM-AP1-FB-02 **Lab ID: 92812251014** Collected: 08/11/25 14:38 Received: 08/13/25 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B-2021 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		08/20/25 19:53		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		08/20/25 19:53		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		08/20/25 19:53		
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Arsenic	ND	mg/L	0.0020	0.0012	1	08/21/25 00:35	09/03/25 19:16	7440-38-2	
Boron	ND	mg/L	0.040	0.0062	1	08/21/25 00:35	09/03/25 19:16	7440-42-8	
Iron	ND	mg/L	0.040	0.012	1	08/21/25 00:35	09/03/25 19:16	7439-89-6	
Molybdenum	ND	mg/L	0.010	0.0025	1	08/21/25 00:35	09/03/25 19:16	7439-98-7	

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ANALYTICAL RESULTS

Project: Plant Hammond-(AP-1) ACM
Pace Project No.: 92812251

Sample: HAM-AP1-FD-03 **Lab ID: 92812251015** Collected: 08/11/25 00:00 Received: 08/13/25 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B-2021 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**188**	mg/L	5.0	5.0	1		08/20/25 20:25		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		08/20/25 20:25		
Alkalinity, Total as CaCO3	**188**	mg/L	5.0	5.0	1		08/20/25 20:25		
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Arsenic	ND	mg/L	0.0020	0.0012	1	08/21/25 00:35	09/03/25 19:24	7440-38-2	
Boron	**1.8**	mg/L	0.40	0.062	10	08/21/25 00:35	09/04/25 16:22	7440-42-8	
Iron	**0.29**	mg/L	0.040	0.012	1	08/21/25 00:35	09/03/25 19:24	7439-89-6	
Molybdenum	**0.11**	mg/L	0.010	0.0025	1	08/21/25 00:35	09/03/25 19:24	7439-98-7	

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ANALYTICAL RESULTS

Project: Plant Hammond-(AP-1) ACM
Pace Project No.: 92812251

Sample: HAM-AP1-EB-03 **Lab ID: 92812251016** Collected: 08/11/25 15:00 Received: 08/13/25 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B-2021 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		08/20/25 20:36		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		08/20/25 20:36		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		08/20/25 20:36		
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Arsenic	ND	mg/L	0.0020	0.0012	1	08/21/25 00:35	09/03/25 19:33	7440-38-2	
Boron	ND	mg/L	0.040	0.0062	1	08/21/25 00:35	09/03/25 19:33	7440-42-8	
Iron	**0.022J**	mg/L	0.040	0.012	1	08/21/25 00:35	09/03/25 19:33	7439-89-6	
Molybdenum	ND	mg/L	0.010	0.0025	1	08/21/25 00:35	09/03/25 19:33	7439-98-7	

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ANALYTICAL RESULTS

Project: Plant Hammond-(AP-1) ACM
Pace Project No.: 92812251

Sample: HAM-AP1-FB-03 **Lab ID: 92812251017** Collected: 08/11/25 15:05 Received: 08/13/25 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B-2021 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		08/20/25 20:40		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		08/20/25 20:40		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		08/20/25 20:40		
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Arsenic	ND	mg/L	0.0020	0.0012	1	08/21/25 00:35	09/03/25 19:41	7440-38-2	
Boron	ND	mg/L	0.040	0.0062	1	08/21/25 00:35	09/03/25 19:41	7440-42-8	
Iron	ND	mg/L	0.040	0.012	1	08/21/25 00:35	09/03/25 19:41	7439-89-6	
Molybdenum	ND	mg/L	0.010	0.0025	1	08/21/25 00:35	09/03/25 19:41	7439-98-7	

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QUALITY CONTROL DATA

Project: Plant Hammond-(AP-1) ACM
Pace Project No.: 92812251

QC Batch: 954706 | Analysis Method: SM 2320B-2021
QC Batch Method: SM 2320B-2021 | Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92812251001, 92812251002, 92812251003, 92812251004

METHOD BLANK: 4906799 Matrix: Water
Associated Lab Samples: 92812251001, 92812251002, 92812251003, 92812251004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	08/18/25 19:52	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	08/18/25 19:52	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	08/18/25 19:52	

LABORATORY CONTROL SAMPLE: 4906800

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	52.1	104	80-120	

LABORATORY CONTROL SAMPLE: 4906801

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.4	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4906802 4906803

Parameter	Units	92811931004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	ND	50	50	32.0	33.3	64	67	80-120	4	25	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4906804 4906805

Parameter	Units	92811931005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	ND	50	50	ND	ND	0	0	80-120		25	M1

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QUALITY CONTROL DATA

Project: Plant Hammond-(AP-1) ACM
Pace Project No.: 92812251

QC Batch: 955234 | Analysis Method: SM 2320B-2021
QC Batch Method: SM 2320B-2021 | Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92812251005, 92812251006, 92812251007, 92812251008, 92812251009, 92812251010, 92812251011, 92812251012, 92812251013, 92812251014

METHOD BLANK: 4909558 Matrix: Water
Associated Lab Samples: 92812251005, 92812251006, 92812251007, 92812251008, 92812251009, 92812251010, 92812251011, 92812251012, 92812251013, 92812251014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	08/20/25 16:21	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	08/20/25 16:21	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	08/20/25 16:21	

LABORATORY CONTROL SAMPLE: 4909559

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.8	104	80-120	

LABORATORY CONTROL SAMPLE: 4909560

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.8	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4909561 4909562

Parameter	Units	92812344003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	28.3	50	50	78.3	78.8	100	101	80-120	1	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4909563 4909564

Parameter	Units	92812344004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	33.1	50	50	82.3	82.0	98	98	80-120	0	25	

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QUALITY CONTROL DATA

Project: Plant Hammond-(AP-1) ACM
Pace Project No.: 92812251

QC Batch: 955240
QC Batch Method: SM 2320B-2021
Analysis Method: SM 2320B-2021
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92812251015, 92812251016, 92812251017

METHOD BLANK: 4909587 Matrix: Water
Associated Lab Samples: 92812251015, 92812251016, 92812251017

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	08/20/25 20:09	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	08/20/25 20:09	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	08/20/25 20:09	

LABORATORY CONTROL SAMPLE: 4909588

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.5	103	80-120	

LABORATORY CONTROL SAMPLE: 4909589

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.7	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4909590 4909591

Parameter	Units	92813921002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	6.9	50	50	58.2	58.0	103	102	80-120	0	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4909592 4909593

Parameter	Units	92813925002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	61.2	50	50	111	112	99	101	80-120	1	25	

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QUALITY CONTROL DATA

Project: Plant Hammond-(AP-1) ACM
Pace Project No.: 92812251

QC Batch: 953930
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: WC 6020B MET
Laboratory: Pace Analytical Services - West Columbia
Associated Lab Samples: 92812251001, 92812251002, 92812251003, 92812251004

METHOD BLANK: 4902818 Matrix: Water
Associated Lab Samples: 92812251001, 92812251002, 92812251003, 92812251004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Boron	mg/L	ND	0.040	0.0062	08/15/25 02:31	
Iron	mg/L	ND	0.040	0.012	08/15/25 02:31	
Molybdenum	mg/L	ND	0.010	0.0025	08/15/25 02:31	

LABORATORY CONTROL SAMPLE: 4902819

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	mg/L	0.1	0.094	94	80-120	
Iron	mg/L	1	1.0	101	80-120	
Molybdenum	mg/L	0.1	0.099	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4902820 4902821

Parameter	Units	92812251001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron	mg/L	1.4	0.1	0.1	1.5	1.5	129	169	75-125	3	20	M1
Iron	mg/L	0.22	1	1	1.2	1.2	99	101	75-125	2	20	
Molybdenum	mg/L	0.11	0.1	0.1	0.21	0.22	104	111	75-125	3	20	

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QUALITY CONTROL DATA

Project: Plant Hammond-(AP-1) ACM
Pace Project No.: 92812251

QC Batch: 954874
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: WC 6020B MET
Laboratory: Pace Analytical Services - West Columbia
Associated Lab Samples: 92812251005, 92812251006, 92812251007, 92812251008, 92812251009, 92812251010, 92812251011, 92812251012, 92812251013, 92812251014, 92812251015, 92812251016, 92812251017

METHOD BLANK: 4907667 Matrix: Water
Associated Lab Samples: 92812251005, 92812251006, 92812251007, 92812251008, 92812251009, 92812251010, 92812251011, 92812251012, 92812251013, 92812251014, 92812251015, 92812251016, 92812251017

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	mg/L	ND	0.0020	0.0012	09/03/25 15:44	
Boron	mg/L	ND	0.040	0.0062	09/03/25 15:44	
Iron	mg/L	ND	0.040	0.012	09/03/25 15:44	
Molybdenum	mg/L	ND	0.010	0.0025	09/03/25 15:44	

LABORATORY CONTROL SAMPLE: 4907668

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	0.1	0.090	90	80-120	
Boron	mg/L	0.1	0.096	96	80-120	
Iron	mg/L	1	1.0	104	80-120	
Molybdenum	mg/L	0.1	0.089	89	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4907669 4907670

Parameter	Units	92812943017 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	ND	0.1	0.1	0.098	0.099	98	99	75-125	1	20	
Boron	mg/L	ND	0.1	0.1	0.098	0.098	97	97	75-125	0	20	
Iron	mg/L	ND	1	1	1.1	1.1	105	111	75-125	5	20	
Molybdenum	mg/L	ND	0.1	0.1	0.091	0.091	91	90	75-125	0	20	

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QUALIFIERS

Project: Plant Hammond-(AP-1) ACM
Pace Project No.: 92812251

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

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TNI - The NELAC Institute.

WORKORDER QUALIFIERS

WO: 92812251

[1] GEOSYNTEC

[2] DO NOT DILUTE. MUST MEET REPORTING LIMITS. LET PM KNOW FIRST IF THERE ARE ISSUES.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Hammond-(AP-1) ACM
Pace Project No.: 92812251

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92812251001	**HAM-PT-09**	SM 2320B-2021	954706		
92812251002	**HAM-PT-10**	SM 2320B-2021	954706		
92812251003	**HAM-PT-11**	SM 2320B-2021	954706		
92812251004	**HAM-PT-12**	SM 2320B-2021	954706		
92812251005	**HAM-PT-07**	SM 2320B-2021	955234		
92812251006	**HAM-PT-08**	SM 2320B-2021	955234		
92812251007	**HAM-PT-13**	SM 2320B-2021	955234		
92812251008	**HAM-PT-14**	SM 2320B-2021	955234		
92812251009	**HAM-PT-15**	SM 2320B-2021	955234		
92812251010	**HAM-MW-53**	SM 2320B-2021	955234		
92812251011	**HAM-MW-54**	SM 2320B-2021	955234		
92812251012	**HAM-AP1-FD-02**	SM 2320B-2021	955234		
92812251013	**HAM-AP1-EB-02**	SM 2320B-2021	955234		
92812251014	**HAM-AP1-FB-02**	SM 2320B-2021	955234		
92812251015	**HAM-AP1-FD-03**	SM 2320B-2021	955240		
92812251016	**HAM-AP1-EB-03**	SM 2320B-2021	955240		
92812251017	**HAM-AP1-FB-03**	SM 2320B-2021	955240		
92812251001	**HAM-PT-09**	EPA 3005A	953930	EPA 6020B	954671
92812251002	**HAM-PT-10**	EPA 3005A	953930	EPA 6020B	954671
92812251003	**HAM-PT-11**	EPA 3005A	953930	EPA 6020B	954671
92812251004	**HAM-PT-12**	EPA 3005A	953930	EPA 6020B	954671
92812251005	**HAM-PT-07**	EPA 3005A	954874	EPA 6020B	958076
92812251006	**HAM-PT-08**	EPA 3005A	954874	EPA 6020B	958076
92812251007	**HAM-PT-13**	EPA 3005A	954874	EPA 6020B	958076
92812251008	**HAM-PT-14**	EPA 3005A	954874	EPA 6020B	958076
92812251009	**HAM-PT-15**	EPA 3005A	954874	EPA 6020B	958076
92812251010	**HAM-MW-53**	EPA 3005A	954874	EPA 6020B	958076
92812251011	**HAM-MW-54**	EPA 3005A	954874	EPA 6020B	958076
92812251012	**HAM-AP1-FD-02**	EPA 3005A	954874	EPA 6020B	958076
92812251013	**HAM-AP1-EB-02**	EPA 3005A	954874	EPA 6020B	958076
92812251014	**HAM-AP1-FB-02**	EPA 3005A	954874	EPA 6020B	958076
92812251015	**HAM-AP1-FD-03**	EPA 3005A	954874	EPA 6020B	958076
92812251016	**HAM-AP1-EB-03**	EPA 3005A	954874	EPA 6020B	958076
92812251017	**HAM-AP1-FB-03**	EPA 3005A	954874	EPA 6020B	958076

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace	DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt
	Effective Date: 05/24/2024

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #:

WO# : 92812251

92812251

Courier: ☐ Commercial ☑ Fed-Ex ☐ UPS ☐ USPS ☐ Client ☑ Pace ☐ Other:____

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No ☐ N/A

Date/Initials Person Examining Contents: 8/11/25 CSV

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 083

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 1.8 Correction Factor: Add/Subtract (°C) 0.0

Cooler Temp Corrected (°C): 1.8

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: W				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____

WO#: 92812251

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg
**Bottom half of box is to list number of bottles
***Check all unpreserved Nitrates for chlorine

Project #

PM: BV Due Date: 08/26/25
CLIENT: 92- GP-HAM

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Client_____ Profile/EZ (Circle one)_____ Notes_____

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)		BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG9A-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
CC																													
1		1					2																						
2		1					2																						
3		1					2																						
4		1					2																						
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12																													

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

WO# : 92812251

PM: BV **Due Date: 08/26/25**

CLIENT: 92- GP-HAM

Company Name:	Georgia Power- Hammond	Contact/Report To:	Kristen Jurinko
Street Address:	241 Ralph McGill Blvd NE Bin 10160 Atlanta, GA 30308	Phone #:	470-217-0008
		E-Mail:	knjurink@southernco.com
		Cc E-Mail:	
Customer Project #:			
Project Name:	Plant Hammond-(AP-1) ACM	Invoice To:	Account Payable
		Invoice E-Mail:	georgiapowerinvoices@southernco.com
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	GPC82474-0011
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [ ] ET

County / State origin of sample(s): Georgia

Data Deliverables: [ ] Level II [ ] Level III [ ] Level IV [ ] EQUIS [ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [ ] No

Rush (Pre-approval required): [ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day [ ] Other

DW PWSID # or WW Permit # as applicable.

Date Results Requested:

Field Filtered (if applicable): [ ] Yes [ ] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Composite Start Date	Composite Start Time	Collected or Composite End Date	Collected or Composite End Time	# Cont.	Res. Chlorine Results	Res. Chlorine Units	2320B Alkalinity	6020- Mo, Fe, B	6020- Mo, Fe, B, As	6020-As, Fe, B							Sample Comment
										Specify Container Size **				3	2x3	2x3	2x3			
										Identify Container Preservative Type***				1	2	2	2			
										Analysis Requested										
HAM-PT-09	WG	Grab	JN 8/10/2025		8/10/2025	1600	3	JN 8/10/2025		X	X									Temp = 21 °C (W1)
HAM-PT-10	WG	Grab			8/10/2025	1610	3			X	X									Temp = 20 °C (W2)
HAM-PT-11	WG	Grab			8/10/2025	1446	3			X	X									Temp = 20 °C (W3)
HAM-PT-12	WG	Grab			8/10/2025	1445	3			X	X									Temp = 21 °C (W4)
					JN 8/10/2025															

Additional Instructions from Pace®:
Task Code: HAM-CCR-CA-20250812

Collected By: (Printed Name) Jamie Newsome, Amanda Tomlinson

Signature:

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
Amanda Tomlinson / Geosyntec	8/11/2025 1230	Ryan W. Williams / Pace	8/11/2025 1230	
Ryan W. Williams / Pace	8/11/2025 1440	[signature]	8/11/25 1440	Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: 1 of 1

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

ENV-FRM-CORQ-0019_v02_110123 ©

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) 90mL, (10) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only
Proj. Mgr: Bonnie Vang
AcctNum / Client ID:
Table #:
Profile / Template: 16483
Prelog / Bottle Ord. ID: EZ 3283450

Preservation non-conformance identified for sample

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Cox Power

Project #:

WO# : 92812251

PM: BV Due Date: 08/26/25

CLIENT: 92- GP-HAM

Courier: ☐ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☑ Pace ☐ Other:____

Custody Seal Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☐ No ☑ N/A

Date/Initials Person Examining Contents: 8/13 JC

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 23C **Type of Ice:** ☑ Wet ☐ Blue ☐ None

Cooler Temp: 3.1 **Correction Factor:** Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C

☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 3.1

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☑ Yes	☐ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: W				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☐ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☐ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ **Date:** _____

Project Manager SRF Review: _____ **Date:** _____

WO# : 92812251

PM: BV Due Date: 08/26/25

CLIENT: 92- GP-HAM

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Project #

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Client_____ Profile/EZ (Circle one)_____ Notes_____

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)		BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG9A-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
CC																														
1	\	1			\	\	2	\	\			\		\	\	\								\	\				
2	\	1			\	\	2	\	\			\		\	\	\								\	\				
3	\	1			\	\	2	\	\			\		\	\	\								\	\				
4	\	1			\	\	2	\	\			\		\	\	\								\	\				
5	\	1			\	\	2	\	\			\		\	\	\								\	\				
6	\	1			\	\	2	\	\			\		\	\	\								\	\				
7	\	1			\	\	2	\	\			\		\	\	\								\	\				
8	\	1			\	\	2	\	\			\		\	\	\								\	\				
9	\	1			\	\	2	\	\			\		\	\	\								\	\				
10	\	1			\	\	2	\	\			\		\	\	\								\	\				
11	\	1			\	\	2	\	\			\		\	\	\								\	\				
12	\	1			\	\	2	\	\			\		\	\	\								\	\				
13		1					2																							

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Georgia Power- Hammond	Contact/Report To:	Kristen Jurinko
Street Address:	241 Ralph McGill Blvd NE Bin 10160 Atlanta, GA 30308	Phone #:	470-217-0008
		E-Mail:	knjurink@southernco.com
		Cc E-Mail:	
Customer Project #:			
Project Name:	Plant Hammond-(AP-1) ACM	Invoice To:	Account Payable
		Invoice E-Mail:	georgiapowerinvoices@southernco.com
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	GPC82474-0011
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [ ] ET

County / State origin of sample(s): Georgia

Data Deliverables: [ ] Level II [ ] Level III [ ] Level IV [ ] EQUIS [ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [ ] No

Rush (Pre-approval required): [ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day [ ] Other

DW PWSID # or WW Permit # as applicable

Date Results Requested:

Field Filtered (if applicable): [ ] Yes [ ] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Composite Start Date	Composite Start Time	Collected or Composite End Date	Collected or Composite End Time	# Cont.	Res. Chlorine Results	Res. Chlorine Units	2320B Alkalinity	6020- Mo, Fe, B	6020- Mo, Fe, B, As	6020-As, Fe, B	Sample Comment
HAM-PT-07	WG	Grab			8/11/2025	1117	3			X			X	Temp = 20 °C 005
HAM-PT-08	WG	Grab			8/11/2025	1402	3			X			X	Temp = 20 °C 006
HAM-PT-13	WG	Grab			8/11/2025	1435	3			X			X	Temp = 21 °C 007
HAM-PT-14	WG	Grab			8/11/2025	1215	3			X			X	Temp = 20 °C 008
HAM-PT-15	WG	Grab			8/11/2025	0935	3			X			X	Temp = 20 °C 009
HAM-MW-53	WG	Grab			8/11/2025	1748	3			X	X			Temp = 20 °C 010
HAM-MW-54	WG	Grab			8/11/2025	1645	3			X			X	Temp = 21 °C 011
HAM-AP1-FD-02	WG	Grab			8/11/2025	0000	3			X		X		Temp = 20 °C 012
HAM-AP1-FB-02	WQ	Grab			8/11/2025	1434	3			X		X		Temp = 20 °C 013
HAM-AP1-FB-02	WQ	Grab			8/11/2025	1438	3			X		X		Temp = 20 °C 014

JN 8/11/2025

JN 8/11/2025

Specify Container Size **: 3 | 2x3 | 2x3 | 2x3

Identify Container Preservative Type***: 1 | 2 | 2 | 2

Analysis Requested

** Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40ml vial, (7) EnCore, (8) TerraCore, (9) 90mL, (10) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only

Proj. Mgr: Bonnie Vang

AcctNum / Client ID:

Table #:

Profile / Template: 16483

Prelog / Bottle Ord. ID: EZ 3283450

Preservation non conformance identified for sample

Additional Instructions from Pace®:
Task Code: HAM-CCR-CA-20250812

Collected By: (Printed Name) Jamie Newsome, Amanda Tomlinson

Signature:

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
Ryan Williams / Pace	8/13/25 0930	Ryan Williams / Pace	8/13/25 0930	
Ryan Williams / Pace	8/12/25 1425		8/13 1425	Delivered by: [ ] In-Person [ ] Courier [ ] FedEX [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

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Company Name:	Georgia Power- Hammond	Contact/Report To:	Kristen Jurinko
Street Address:	241 Ralph McGill Blvd NE Bin 10160 Atlanta, GA 30308	Phone #:	470-217-0008
		E-Mail:	knjurink@southernco.com
		Cc E-Mail:	
Customer Project #			
Project Name:	Plant Hammond-(AP-1) ACM	Invoice To:	Account Payable
		Invoice E-Mail:	georgiapowerinvoices@southernco.com
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	GPC82474-0011
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [ ] ET

County / State origin of sample(s): Georgia

Data Deliverables:
[ ] Level II [ ] Level III [ ] Level IV
[ ] EQUIS
[ ] Other _____

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [ ] No

Rush (Pre-approval required):
[ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day [ ] Other _____

DW PWSID # or WW Permit # as applicable

Date Results Requested:

Field Filtered (if applicable): [ ] Yes [ ] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Specify Container Size **: 3 | 2x3 | 2x3 | 2x3

Identify Container Preservative Type***: 1 | 2 | 2 | 2

Analysis Requested

Customer Sample ID	Matrix *	Comp / Grab	Composite Start Date	Composite Start Time	Collected or Composite End Date	Collected or Composite End Time	# Cont.	Res. Chlorine Results	Res. Chlorine Units	2320B Alkalinity	6020- Mo, Fe, B	6020- Mo, Fe, B, As	6020-As, Fe, B
HAM-AP1-FD-03	WG	Grab	JN 8/11/2025		8/11/2025	0000	3			X		X	
HAM-AP1-EB-03	WQ	Grab			8/11/2025	1500	3			X		X	
HAM-AP1-FB-03	WQ	Grab			8/11/2025	1505	3			X		X	
									JN 8/11/2025				
					JN 8/11/2025								

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40ml vial, (7) EnCore, (8) TerraCore, (9) 50mL, (10) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only

Proj. Mgr: Bonnie Vang
AcctNum / Client ID:
Table #:
Profile / Template: 16483
Prelog / Bottle Ord. ID: EZ 3283450

Preservation non-conformance identified for sample

Sample Comment

Temp = 20 °C 015
Temp = 20 °C 016
Temp = 20 °C 017

Additional Instructions from Pace®:
Task Code: HAM-CCR-CA-20250812

Collected By: Jamie Newsome, Amanda Tomlinson
(Printed Name)
Signature:

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
Jamie Newsome/Geosyntec	8/13/25 0930	Ryan Williams / Pace	8/13/25 0930	
Ryan Williams / Pace	8/13/25 1425		8/13/25 1425	Delivered by: [ ] In-Person [ ] Courier
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	[ ] FedEX [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	

VALIDATION REPORTS

FEBRUARY 2025

Geosyntec consultants

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www.geosyntec.com

Memorandum

Date:	12 August 2025
To:	Kristen Jurinko
	Caroline Nelson
	Christine Hug
From:	Ashley Wilson
CC:	Kristoffer Henderson
Subject:	**Stage 2A Data Validation - Level II Data Deliverables – Pace Analytical Project Services, Project Numbers: 92779977 and 92779989**

SITE: Plant Hammond AP-1

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of twenty-three aqueous samples, three field duplicates, three field blanks and three equipment blanks, collected 12-17 February 2025, as part of the Plant Hammond sampling event.

The samples were analyzed at Pace Analytical Services – National, Mt. Juliet, Tennessee, for the following analytical test:

- Metals by United States (US) Environmental Protection Agency (EPA) Methods 3015/6020B

The samples were analyzed at Pace Analytical Services - Asheville, Asheville, North Carolina, for the following analytical tests:

- Mercury by US EPA Method 7470A
- Anions (chloride, fluoride and sulfate) by US EPA Method 300.0 Rev 2.1 1993
- Alkalinity as CaCO3 (total, bicarbonate and carbonate) by SM 2320B-2011
- Sulfide by SM 4500-S2D-2011
- Total Dissolved Solids (TDS) by Standard Method (SM) 2540C-2015

The samples were analyzed at Pace Analytical Services – West Columbia, West Columbia, South Carolina, for the following analytical test:

- Metals by US EPA Method 3005A/6020B

EXECUTIVE SUMMARY

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below and based on the information provided, the data as qualified are usable for supporting project objectives. The qualified data should be used within the limitations of the qualifications. If there are results with two or more different qualifications due to multiple QC failures, the final qualification is reconciled in the electronic data deliverable (EDD) with qualifications.

The data were reviewed based on the pertinent methods referenced in the laboratory reports, professional and technical judgment, and the following documents:

- US EPA Region IV Data Validation Standard Operating Procedures (US EPA Region IV, September 2011);
- USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review, November 2020 (EPA 542-R-20-006); and

The following samples were analyzed and reported in the laboratory report:

Laboratory IDs	Client IDs
92779977001	HAM-HGWC-11
92779977002	HAM-HGWC-12
92779977003	HAM-MW-7
92779977004	HAM-MW-19
92779977005	HAM-MW-25D
92779977006	HAM-HGWC-7
92779977007	HAM-HGWC-8
92779977008	HAM-HGWC-9
92779977009	HAM-HGWC-10
92779977010	HAM-MW-5
92779977011	HAM-MW-6
92779977012	HAM-MW-20
92779977013	HAM-MW-24D
92779977014	HAM-MW-26D
92779977015	HAM-MW-27D
92779977016	HAM-MW-28D

Laboratory IDs	Client IDs
92779977017	HAM-MW-29
92779977018	HAM-AP1-EB-01
92779977019	HAM-AP1-FB-01
92779977020	HAM-AP1-EB-02
92779977021	HAM-AP1-FB-02
92779977022	HAM-AP1-FD-02
92779977023	HAM-HGWC-13
92779977024	HAM-AP1-FD-01
92779989001	HAM-HGWA-1
92779989002	HAM-HGWA-3
92779989003	HAM-HGWA-43D
92779989004	HAM-HGWA-44D
92779989005	HAM-UGRD-EB-01
92779989006	HAM-UGRD-FB-01
92779989007	HAM-HGWA-2
92779989008	HAM-UGRD-FD-01

The chain of custody (COC) indicates the samples were received between 0-6 ^{o}C. No preservation issues were noted by the laboratory.

Radium 226/228 was requested on the COC. However, this data was reported separately.

1.0 METALS

The samples were analyzed for metals by US EPA methods 3005A/6020B and 3010A/6010D.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Time
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Equipment Blank
- ✓ Field Blank
- ✓ Field Duplicate
- ✓ Sensitivity

1.1 Overall Assessment

The metals data reported in this data package are considered usable for supporting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this dataset is 100%.

1.2 Holding Time

The holding time for the metals analysis of a water sample is 180 days from sample collection to analysis. The holding times were met for the sample analyses.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). The metals were not detected in the method blanks at or above the method detection limits (MDLs).

1.4 Matrix Spike/Matrix Spike Duplicate (MS/MSD)

MS/MSDs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Sample set specific MS/MSD pairs were reported using samples

HAM-HGWC-8 and HAM-UGRD-EB-01. The recovery and relative percent difference (RPD) results were within the laboratory specified acceptance criteria, with the following exceptions.

The recoveries of boron and calcium in the MS/MSD pair using sample HAM-HGWC-8 were high or low and outside of laboratory specified acceptance criteria. Since the boron and calcium concentrations in sample HAM-HGWC-8 were greater than four times the spiked concentrations, no qualifications were applied to the data based on the MS/MSD recovery results.

Sample ID	Compound	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	DQM Reason Code(s)
HAM-HGWC-8	Boron	1.4	M1	1.4	NA$^{\beta}$	MS3
HAM-HGWC-8	Calcium	83.3	M1	83.3	NA$^{\beta}$	MS3

mg/L- milligram per liter
M1-Laboratory flag indicating that the MS recovery exceeded QC limits.
NA$^{\beta}$-Not applicable. The laboratory flag was removed, and no qualifications were applied to the data based on this validation.

Batch MS/MSDs were also reported for both methods. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

1.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). The recovery results were within the laboratory specified acceptance criteria.

1.6 Equipment Blank

Three equipment blanks were collected with the sample set, HAM-UGRD-EB-01, HAM-AP1-EB-01 and HAM-AP1-EB-02. Metals were not detected in the equipment blanks at or above the MDLs.

1.7 Field Blank

Three field blanks were collected with the sample set, HAM-UGRD-FB-01, HAM-AP1-FB-01 and HAM-AP1-FB-02. Metals were not detected in the field blanks at or above the MDLs.

1.8 Field Duplicate

Three field duplicate samples were collected with the sample set, HAM-UGRD-FD-01, HAM-AP1-FD-01 and HAM-AP1-FD-02. Acceptable precision (RPD < 30%) was demonstrated between the field duplicate and the original samples, HAM-HGWA-2, HAM-HGWC-13 and HAM-MW-26D, respectively.

The field duplicates, HAM-UGRD-FD-01, HAM-AP1-FD-01 and HAM-AP1-FD-02, were not analyzed for iron, magnesium, manganese, potassium, or sodium, as specified on the COCs.

1.9 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were reported for selenium in samples HAM-HGWC-11, HAM-HGWC-8 and HAM-MW-19 due to dilutions because of matrix interference.

1.10 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

2.0 MERCURY

The samples were analyzed for mercury by US EPA method 7470A.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Time
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Equipment Blank
- ✓ Field Blank
- ✓ Field Duplicate
- ✓ Sensitivity

2.1 Overall Assessment

The mercury data reported in this data package are considered usable for meeting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this dataset is 100%.

2.2 Holding Time

The holding time for the mercury analysis of a water sample is 28 days from sample collection to analysis. The holding times were met for the sample analyses.

2.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Mercury was not detected in the method blank at or above the MDL.

2.4 Matrix Spike/Matrix Spike Duplicate

MS/MSDs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples).

92779989: One sample set specific MS/MSD pair was reported, using sample HAM-HGWA-1. The recovery and RPD results were within laboratory specified acceptance criteria.

Batch MS/MSDs were also reported for mercury. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

2.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). The recovery results were within the laboratory specified acceptance criteria.

2.6 Equipment Blank

Three equipment blanks were collected with the sample set, HAM-UGRD-EB-01, HAM-AP1-EB-01 and HAM-AP1-EB-02. Mercury was not detected in the equipment blanks at or above the MDLs.

2.7 Field Blank

Three field blanks were collected with the sample set, HAM-UGRD-FB-01, HAM-AP1-FB-01 and HAM-AP1-FB-02. Mercury not detected in the field blanks at or above the MDLs.

2.8 Field Duplicate

Three field duplicate samples were collected with the sample set, HAM-UGRD-FD-01, HAM-AP1-FD-01 and HAM-AP1-FD-02. Acceptable precision (RPD < 30%) was demonstrated

between the field duplicate and the original samples, HAM-HGWA-2, HAM-HGWC-13 and HAM-MW-26D, respectively.

2.9 Sensitivity

The samples were reported to the MDL. Elevated non-detect results were not reported.

2.10 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

3.0 WET CHEMISTRY

The samples were analyzed for chloride, fluoride and sulfate by US EPA method 300.0 Rev 2.1 1993, TDS by SM 2540C-2015, alkalinity as CaCO3 (total, bicarbonate and carbonate) by SM 2320B-2011 and sulfide by SM 4500-S2D-2011.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the validation review and should be considered to determine any impact on data quality and usability.

✓ Overall Assessment
✓ Holding Times
✓ Method Blank
⊗ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Laboratory Duplicate
✓ Equipment Blank
✓ Field Blank
✓ Field Duplicate
✓ Sensitivity

3.1 Overall Assessment

The wet chemistry data reported in this data package are considered usable for supporting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for these analyses, for this dataset is 100%.

3.2 Holding Times

The holding times for water samples are listed below. The holding times were met for the sample analyses.

Analysis	Holding Time
Anions (fluoride, chloride and sulfate)	28 days from collection to analysis
TDS	7 days from collection to analysis
Alkalinity	14 days from collection to analysis
Sulfide	28 days from collection to analysis

3.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). The wet chemistry parameters were not detected in the method blanks at or above the MDLs.

3.4 Matrix Spike/Matrix Spike Duplicate

MS/MSDs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Five sample set specific MS/MSD pairs were reported for chloride, fluoride and sulfate using samples HAM-HGWC-11, HAM-HGWC-7, HAM-MW-28D, HAM-HGWC-13, and HAM-HGWA-2. Two sample set specific MS/MSD pairs were reported for sulfide using samples HAM-HGWC-8 and HAM-HGWA-43D. The recovery and RPD results were within the laboratory specified acceptance criteria, with the following exceptions.

92779977: The recoveries of fluoride in the MS/MSD pair using sample HAM-HGWC-11 were high and outside of laboratory specified acceptance criteria. Therefore, the concentration of fluoride in sample HAM-HGWC-11 was J+ qualified as estimated with a high bias.

The recoveries of sulfate in the MS/MSD pair using sample HAM-HGWC-11, HAM-HGWC-13 and HAM-HGWC-7 were low and outside of laboratory specified acceptance criteria. Therefore, the concentrations of sulfate in samples HAM-HGWC-11, HAM-HGWC-13 and HAM-HGWC-7 were J- qualified as estimated with a low bias.

The MS recovery was low and RPD was high for sulfate for the MS/MSD pair using sample HAM-MW-28D, bothoutside of laboratory specified acceptance criteria. Therefore, the concentration of sulfate in sample HAM-MW-28D would be J- qualified as estimated with a low bias due to low MS recovery; however, since the RPD between the MS/MSD pair is high, the sulfate concentration is J qualified as a final qualification.

92779989: The recoveries of sulfate in the MS/MSD pair using sample HAM-HGWA-2 were low and outside of laboratory specified acceptance criteria. Therefore, the concentration of sulfate in sample HAM-HGWA-2 was J- qualified as estimated with a low bias.

Batch MS/MSD pairs were also reported for alkalinity, anions and sulfide. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

Sample ID	Compound	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Final Qualifier	DQM Reason Code
HAM-HGWC-11	Sulfate	155	M1	155	J-	J-	MS1
HAM-HGWC-11	Fluoride	0.30	M1	0.30	J+	J+	MS1
HAM-HGWC-13	Sulfate	167	M1	167	J-	J-	MS1
HAM-HGWC-7	Sulfate	98.5	M1	98.5	J-	J-	MS1
HAM-MW-28D	Sulfate	53.6	R1,M1	53.6	J-|J	J	MS1|MS2
HAM-HGWA-2	Sulfate	94.5	M1	94.5	J-	J-	MS1

mg/L- milligram per liter
M1-Matrix spike recovery exceeded QC limits
R1-RPD value was outside control limits

3.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). The recovery results were within the laboratory specified acceptance criteria.

3.6 Laboratory Duplicate

Two laboratory duplicates were reported for TDS using samples HAM-MW-24D and HAM-HGWA-43D. The RPD results were within the laboratory specified acceptance criteria.

Batch laboratory duplicates were also reported for TDS. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

3.7 Equipment Blank

Three equipment blanks were collected with the sample set, HAM-UGRD-EB-01, HAM-AP1-EB-01 and HAM-AP1-EB-02. The wet chemistry parameters were not detected in the equipment blank at or above the MDLs.

3.8 Field Blank

Three field blanks were collected with the sample set, HAM-UGRD-FB-01, HAM-AP1-FB-01 and HAM-AP1-FB-02. The wet chemistry parameters were not detected in the field blank at or above the MDLs.

3.9 Field Duplicate

Three field duplicate samples were collected with the sample set, HAM-UGRD-FD-01, HAM-AP1-FD-01 and HAM-AP1-FD-02. Acceptable precision (RPD < 30%) was demonstrated between the field duplicate and the original samples, HAM-HGWA-2, HAM-HGWC-13 and HAM-MW-26D, respectively, with the following exception.

Fluoride was detected at a concentration at the RL in sample HAM-HGWA-2 and detected at an estimated concentration greater than the MDL and less than the RL in field duplicate HAM-UGRD-FD-01. Since the absolute difference between the results was less than the RL, no qualifications were applied to the data.

The field duplicates, HAM-UGRD-FD-01, HAM-AP1-FD-01 and HAM-AP1-FD-02, were not analyzed for alkalinity or sulfide, as specified on the COCs.

3.10 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were not reported.

3.11 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

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ATTACHMENT 1
DATA VALIDATION QUALIFIER DEFINITIONS
AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team

DATA QUALIFIER DEFINITIONS

U The analyte was analyzed for but was not detected at or above the reported sample quantitation limit. Upon application of the U qualifier to a reported result, the definition changes to "not detected at or above the reported result".

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

J+ The analyte was positively identified; however, the associated numerical value is likely to be higher than the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.

J- The analyte was positively identified; however, the associated numerical value is likely to be lower than the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec's Data Validation Team

DQM Reason Code	Description
AB1	> Samples in batch
AB2	QC sample missing
AB3	Batch analysis time exceeded
BAH	Contamination detected in the Ambient Blank greater than or equal to the Quantitation Limit.
BAL	Contamination detected in the Ambient Blank less than the Quantitation Limit.
BC	Calibration blank contamination
BC1	assoc. result < RL
BC2	assoc. result > RL < mult.
BC3	assoc. result > RL > mult.
BEH	Contamination detected in the Equipment Blank greater than or equal to the Quantitation Limit.
BEL	Contamination detected in the Equipment Blank less than the Quantitation Limit.
BF	Field blank contamination
BF1	assoc. result < RL
BF2	assoc. result > RL < mult.
BF3	assoc. result > RL > mult.
BFH	Contamination detected in the Field Blank greater than or equal to the Quantitation Limit.
BFL	Contamination detected in the Field Blank less than the Quantitation Limit.
BL	Laboratory blank contamination
BL1	assoc. result < RL
BL2	assoc. result > RL < mult.
BL3	assoc. result > RL > mult.
BLH	Contamination detected in the Lab Blank greater than or equal to the Quantitation Limit.
BLL	Contamination detected in the Lab Blank less than the Quantitation Limit.
BT	Trip blank contamination
BT1	assoc. result < RL
BT2	assoc. result > RL < mult.
BT3	assoc. result > RL > mult.
BTH	Contamination detected in the Trip Blank greater than or equal to the Quantitation Limit.
BTL	Contamination detected in the Trip Blank less than the Quantitation Limit.
CA1	Column difference
CC1	CCV %D
CC2	CCV %R
CC3	CCV RRF
CI1	IC RSD
CI2	IC RRF
CR1	Calibration range

DQM Reason Code	Description
CV1	ICV or CCV %D
CV2	ICV or CCV %R
CV3	ICV CCV RRF
DF1	Dilution Factor > 1
DL	Dilution Factor > 1
DVT1	The Dissolved Result > Total Result and the absolute difference > the AD_MULTIPLIER_CL * Detection Limit
DVT2	The Dissolved Result > Total Result and the absolute difference > AD_MULTIPLIER_UCO * Detection Limit
DVT3	The Dissolved Result > Total Result and the relative percent difference (RPD) > RPD_CL
DVT4	The Dissolved Result > Total Result and the relative percent difference (RPD) > RPD_UCO
ER1	MDL=<RESULT<RL (INORGANIC)
ER2	MDL=<RESULT<RL (ORGANIC)
FBC1	BLANK CONTAMINATION
FBC2	RESULT < BLANK * MULTIPLIER
FBC3	RESULT > BLANK * MULTIPLIER
FD1	Field duplicate RPD
FD2	Field duplicate abs. diff.
GHT1	GROSS_QUALIFIER_HIT
GHT2	GROSS_QUALIFIER_NON_DETECT
HP1	Hydrocarbon pattern
HT1	Holding time samp. to preservation
HT2	Holding time samp. to analysis
HT3	Holding time gros. samp. to pres.
HT4	Holding time gros. samp. to analysis
IS1	Internal standard
LBC1	BLANK CONTAMINATION
LBC2	RESULT < BLANK * MULTIPLIER
LBC3	RESULT > BLANK * MULTIPLIER
LD1	Lab duplicate RPD
LD2	Lab duplicate abs. diff.
LS1	LS %R
LS2	LS RPD
MS1	MS %R
MS2	MS RPD
MS3	Parent >4x spike
MS4	Spike diluted out

DQM Reason Code	Description
NP1	Non-Preferred Result
NR1	NUMERIC RESULTS
OT1	Other quality issue
PS1	BETWEEN CONTROL AND WARNING LIMITS
PS2	INVALID
PS3	LESS THAN LOWER CONTROL LIMIT
PS4	LESS THAN LOWER WARNING LIMIT
PT1	The preservative for this test id does not match the required preservative in RT_HOLDING_TIME.
RDL1	EXCEEDS REQUIRED DETECTION LIMIT
RL1	ND > project limit
RO1	Other rad. issue
RPD1	LCS/LCSD
RPD2	LCS/LCSD_NON_DETECT
RPD3	MS/MSD
RPD4	MS/MSD_NON_DETECT
RPD5	Orig/Dup
RPD6	Orig/Dup_NON_DETECT
RPDF1	FIELD DUPLICATE
RPDF2	FIELD DUPLICATE NON_DETECT
RQ1	Rad. quantitation issue
RR1	Repeated result same method
RR2	Repeated result diff. method
RSD1	RSD exceeds CL for LCS sample
RSD2	RSD exceeds CL for MS sample
RSD3	RSD exceeds CL for Lab sample
RSD4	RSD exceeds CL for Field sample
RY1	Tracer or carrier
SD1	Serial dilution
SO1	High moisture
SO2	Wet weight
SP1	Preservation, temp
SP2	Preservation, pH
SP3	Preservation, headspace
SPR1	BLANK SPIKE > UCL
SPR10	EarthSoft.DQM.SpikeRecovery2
SPR11	EarthSoft.DQM.SpikeRecovery2
SPR12	EarthSoft.DQM.SpikeRecovery2
SPR2	INORGANIC SPIKE > UCL

DQM Reason Code	Description
SPR3	ORGANIC SPIKE > UCL
SPR4	LCL > BLANK > LOW_CUTOFF
SPR5	LCL > INORG > LOW_CUTOFF
SPR6	LCL > ORG > LOW_CUTOFF
SPR7	BLANK SPIKE < LOW_CUTOFF
SPR8	INORGANIC SPIKE < LOW_CUTOFF
SPR9	ORGANIC SPIKE < LOW_CUTOFF
SU	Surrogate outlier
SU1	Surrogate
SU2	Surrogate diluted out
SURR1	ASSO. DETECTS OF LCL > REC > LOW_CUTOFF
SURR10	EarthSoft.DQM.SurrogateRecovery
SURR11	EarthSoft.DQM.SurrogateRecovery
SURR12	EarthSoft.DQM.SurrogateRecovery
SURR2	ASSO. DETECTS OF REC < LOW_CUTOFF
SURR3	ASSO. DETECTS OF REC > UCL
SURR4	ASSO. NDS OF LCL > REC > LOW_CUTOFF
SURR5	ASSO. NDS OF REC < LOW_CUTOFF
SURR6	ASSO. NDS OF REC > UCL
SURR7	LCL > REC > LOW_CUTOFF
SURR8	REC < LOW_CUTOFF
SURR9	REC > UCL
TBC1	BLANK CONTAMINATION
TBC2	RESULT < BLANK * MULTIPLIER
TBC3	RESULT > BLANK * MULTIPLIER
TR	Trace Detection
TR1	Trace detection
TRA1	Tracer is outside of UCL or LCL
TRA2	Associated result of a tracer less than the LCL
TRA3	Associated detect result of a tracer greater than the UCL
VC1	Canister vacuum
VC2	Canister contamination
VSU1	INVALID SAMPLE UNIT TYPE
VSU2	MISSING SAMPLE UNIT TYPE
VSU3	NON-DEFAULT RESULT UNIT

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Memorandum

Date:	6 August 2025
To:	Kristen Jurinko
From:	Ashley Wilson
CC:	Kristoffer Henderson
Subject:	**Stage 2A Data Validation - Level II Data Deliverable – Pace Analytical Services, LLC Project Number 92779979 and 92779992**

SITE: Plant Hammond AP-1

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation twenty-three groundwater samples, three field duplicates, three field blanks and three equipment blanks, collected 12-17 February 2025, as part of the Plant Hammond AP on-site sampling event.

The samples were analyzed at Pace Analytical Services, LLC, Greensburg, Pennsylvania, for the following analytical tests:

- Radium-226 by United States (US) Environmental Protection Agency (EPA) Method 9315
- Radium-228 by US EPA Method 9320
- Total Radium by Calculation

EXECUTIVE SUMMARY

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below and based on the information provided, the data as qualified are usable for supporting project objectives. The qualified data should be used within the limitations of the qualifications. If there are results with two or more different qualifications due to multiple QC failures, the final qualification is reconciled in the electronic data deliverable (EDD) with qualifications.

The data were reviewed based on the pertinent methods referenced in the laboratory reports, professional and technical judgment, and the following documents:

- US EPA Region IV Data Validation Standard Operating Procedures (US EPA Region IV, September 2011);
- USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review, November 2020 (EPA 542-R-20-006);

- Field Sampling Plan – All Sites, Georgia Power Company, Southern Company, January 2024, Revised May 2024; and
- Idaho National Engineering and Environmental Laboratory, RADIOANALYTICAL DATA VALIDATION, May 11, 2004 (GDE-205).

The following samples were analyzed and reported in the laboratory reports:

Laboratory IDs	Client IDs
92779979001	HAM-HGWC-11
92779979002	HAM-HGWC-12
92779979003	HAM-MW-7
92779979004	HAM-MW-19
92779979005	HAM-MW-25D
92779979006	HAM-HGWC-7
92779979007	HAM-HGWC-8
92779979008	HAM-HGWC-9
92779979009	HAM-HGWC-10
92779979010	HAM-MW-5
92779979011	HAM-MW-6
92779979012	HAM-MW-20
92779979013	HAM-MW-24D
92779979014	HAM-MW-26D
92779979015	HAM-MW-27D
92779979016	HAM-MW-28D

Laboratory IDs	Client IDs
92779979017	HAM-MW-29
92779979018	HAM-AP1-EB-01
92779979019	HAM-AP1-FB-01
92779979020	HAM-AP1-EB-02
92779979021	HAM-AP1-FB-02
92779979022	HAM-AP1-FD-02
92779979023	HAM-HGWC-13
92779979024	HAM-AP1-FD-01
92779992001	HAM-HGWA-1
92779992002	HAM-HGWA-43D
92779992003	HAM-HGWA-44D
92779992004	HAM-UGRD-EB-01
92779992005	HAM-UGRD-FB-01
92779992006	HAM-HGWA-2
92779992007	HAM-HGWA-3
92779992008	HAM-UGRD-FD-01

The samples were received within 0-6 degrees Celsius (°C). No sample preservation issues were noted by the laboratory.

1.0 RADIOCHEMISTRY

The samples were analyzed for radium-226 by US EPA method 9315, radium-228 by US EPA method 9320 and total radium by calculation.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

⊗ Overall Assessment
✓ Holding Times
✓ Method Blank
✓ Matrix Spike/Matrix Spike Duplicate

✓ Laboratory Control Sample
✓ Laboratory Duplicate
✓ Tracers and Carriers
⊗ Field Blank
✓ Equipment Blank
✓ Field Duplicate
✓ Sensitivity

1.1 Overall Assessment

1.1.1 Completeness

The radium-226 and radium-228 data reported in this data set are considered usable for supporting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

1.1.2 Analysis Anomaly

Radium-228 was detected in sample HAM-AP1-EB-01 at a concentration greater than the minimum detectable concentration (MDC) and total radium was U flag as less than the MDC. Since total radium is calculated from the combined radium 226 and 228 concentrations, and radium-228 was detected, the total radium result should be considered a detection greater than the MDC. Therefore, the U flag was removed for the total radium result for sample HAM-AP1-EB-01.

Radium-226 was detected in samples HAM-MW-20, HAM-MW-27D and HAM-MW-28D at concentrations greater than the MDC and total radium was U flag as less than the MDC. Since total radium is calculated from the combined radium 226 and 228 concentrations, and radium-226 was detected, the total radium result should be considered a detection greater than the MDC. Therefore, the U flag was removed for the total radium results for samples HAM-MW-20, HAM-MW-27D and HAM-MW-28D.

Sample ID	Compound	Laboratory Result (pCi/L)	Laboratory Flag	Validation Result (pCi/L)	Validation Qualifier*	DQM Reason Code**
HAM-AP1-EB-01	Combined Radium 226 + 228	1.09	U	1.09	NA	RO1
HAM-MW-20	Combined Radium 226 + 228	1.21	U	1.21	NA	RO1
HAM-MW-27D	Combined Radium 226 + 228	0.666	U	0.666	NA	RO1

Sample ID	Compound	Laboratory Result (pCi/L)	Laboratory Flag	Validation Result (pCi/L)	Validation Qualifier*	DQM Reason Code**
HAM-MW-28D	Combined Radium 226 + 228	1.03	U	1.03	NA	RO1

pCi/L-picocuries per liter
U-not detected at or above the MDC
NA-not applicable
* Validation qualifiers are defined in Attachment 1 at the end of this report
**Data Quality Module (DQM) reason codes are defined in Attachment 2 at the end of this report

1.2 Holding Times

The holding times for the radium-226 and radium-228 analyses of a water sample are 180 days from sample collection to analysis. The holding times were met for the sample analyses.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Method blanks were reported for the radium-226 and radium-228 data. Radium-226 and radium-228 were not detected in the method blanks at or above the measured 2σ uncertainty or the MDC, with the following exceptions.

Radium-228 (0.636 pCi/L and 0.679 pCi/L) was detected in the method blanks in batches 728164 and 728170, respectively, at concentrations greater than the measured 2σ uncertainty. Since radium-228 was not detected in associated samples, HAM-HGWC-11 and HAM-AP1-FD-02, no qualifications were applied to the data.

Radium-226 (0.652 pCi/L) was detected in the method blank in batch 728168 at a concentration greater than the measured 2σ uncertainty. Since radium-226 was not detected in associated sample, HAM-AP1-FD-02, no qualifications were applied to the data.

1.4 Matrix Spike/Matrix Spike Duplicate (MS/MSD)

Batch MS/MSD pairs were reported with the sample set. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

1.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). LCS/LCSD pairs were reported for radium-226 and radium-228. The recovery and RER results were within the laboratory specified acceptance criteria.

1.6 Laboratory Duplicate

Two laboratory duplicates were reported, using samples HAM-HGWC-11 and HAM-AP1-FB-02. The RPD results were within the laboratory specified acceptance criteria.

Batch laboratory duplicates were reported with the sample set. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

1.7 Tracers and Carriers

Carriers were reported for the radium-226 and radium-228 analyses, and a tracer was reported for the radium-228 analyses. The recovery results were within the laboratory specified acceptance criteria.

1.8 Field Blank

Two field blanks, HAM-AP1-FB-01, HAM-AP1-FB-02 and HAM-UGRD-FB-01, were collected with the sample set and analyzed for radium-226 and radium-228. Radium-226 and radium-228 were not detected in the field blanks at or above the measured 2σ uncertainty or the MDC, with the following exceptions.

Radium-228 (0.998 pCi/L) was detected in HAM-UGRD-FB-01 at a concentration greater than the measured 2σ uncertainty. Therefore, due to the concentration of radium-228 in the associated sample HAM-UGRD-FD-01 being below a MD of 2, the result was UJ qualified as not statistically distinguishable from the field blank.

Radium-226 (0.168 pCi/L) and radium-228 (0.168 pCi/L) were detected in HAM-AP1-FB-01 at concentrations greater than the measured 2σ uncertainty. Therefore, due to the concentration of radium-226 in the associated samples HAM-MW-20 and HAM-MW-27D being below a MD of 2, the result was UJ qualified as not statistically distinguishable from the field blank. Since the concentration of radium-226 in the associated sample HAM-MW-25D had a MD greater than 2, the result was J qualified as estimated. Additionally, due to the concentration of radium-228 in the associated sample HAM-AP1-EB-01 being below a MD of 2, the result was UJ qualified as not statistically distinguishable from the field blank.

Sample ID	Compound	Laboratory Result (pCi/L)	Laboratory Flag	Validation Result (pCi/L)	Validation Qualifier	DQM Reason Code
HAM-UGRD-FD-01	Radium-228	1.30	NA	1.30	UJ	BF1
HAM-AP1-EB-01	Radium-228	1.09	NA	1.09	UJ	BF1
HAM-MW-20	Radium-226	0.322	NA	0.322	UJ	BF1
HAM-MW-25D	Radium-226	0.767	NA	0.767	J	BF2

Sample ID	Compound	Laboratory Result (pCi/L)	Laboratory Flag	Validation Result (pCi/L)	Validation Qualifier	DQM Reason Code
HAM-MW-27D	Radium-226	0.364	NA	0.364	UJ	BF1

pCi/L-picocuries per liter
U-not detected at or above the MDC
NA-not applicable

1.9 Equipment Blank

Two equipment blanks, HAM-AP1-EB-01, HAM-AP1-EB-02 and HAM-UGRD-EB-01, were collected with the sample set and analyzed for radium-226 and radium-228. Radium-226 and radium-228 were not detected in the field blanks at or above the measured 2σ uncertainty or the MDC, with the following exceptions.

Radium-228 (0.601 pCi/L) was detected in HAM-UGRD-EB-01 at concentrations greater than the measured 2σ uncertainty. Since the radium-228 results associated with HAM-UGRD-EB-01 were previously qualified due to field blank contamination, no additional qualifications were applied to the data.

Radium-228 (1.09 pCi/L) was detected in HAM-AP1-EB-01 at a concentration greater than the MDC. Since the radium-228 were previously qualified due to field blank contamination, no additional qualifications were applied to the data.

1.10 Field Duplicate

Two field duplicate samples, HAM-AP1-FD-01, HAM-AP1-FD-02 and HAM-UGRD-FD-01, were collected with the sample set. Acceptable precision [MD ≤ 3, relative percent difference (RPD) < 20%] was demonstrated between the field duplicates and the original samples, HAM-HGWC-13, HAM-MW-26D and HAM-HGWA-2, with the following exception.

Radium-226, radium-228 and combined radium 226 + 228 were detected at concentrations greater that the MRL in field duplicate sample HAM-UGRD-FD-01 and not detected above the MRL in parent sample HAM-HGWA-2. Since the MDs of radium-226, radium-228 and combined radium 226 + 228 between HAM-UGRD-FD-01 and HAM-HGWA-2 were less than 3, no qualifications were applied to the data.

1.11 Sensitivity

The samples were reported to the MDCs. No elevated non-detect results were reported.

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ATTACHMENT 1
DATA VALIDATION QUALIFIER DEFINITIONS AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team

DATA QUALIFIER DEFINITIONS

U The analyte was analyzed for but was not detected above the reported sample quantitation limit. Upon application of the U qualifier to a reported result, the definition changes to "not detected at or above the reported result."

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

J+ The analyte was positively identified; however, the associated numerical value is likely to be higher than the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.

J- The analyte was positively identified; however, the associated numerical value is likely to be lower than the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec's Data Validation Team

DQM Reason Code	Description
AB1	> Samples in batch
AB2	QC sample missing
AB3	Batch analysis time exceeded
BAH	Contamination detected in the Ambient Blank greater than or equal to the Quantitation Limit.
BAL	Contamination detected in the Ambient Blank less than the Quantitation Limit.
BC	Calibration blank contamination
BC1	assoc. result < RL
BC2	assoc. result > RL < mult.
BC3	assoc. result > RL > mult.
BEH	Contamination detected in the Equipment Blank greater than or equal to the Quantitation Limit.
BEL	Contamination detected in the Equipment Blank less than the Quantitation Limit.
BF	Field blank contamination
BF1	assoc. result < RL
BF2	assoc. result > RL < mult.
BF3	assoc. result > RL > mult.
BFH	Contamination detected in the Field Blank greater than or equal to the Quantitation Limit.
BFL	Contamination detected in the Field Blank less than the Quantitation Limit.
BL	Laboratory blank contamination
BL1	assoc. result < RL
BL2	assoc. result > RL < mult.
BL3	assoc. result > RL > mult.
BLH	Contamination detected in the Lab Blank greater than or equal to the Quantitation Limit.
BLL	Contamination detected in the Lab Blank less than the Quantitation Limit.
BT	Trip blank contamination
BT1	assoc. result < RL
BT2	assoc. result > RL < mult.
BT3	assoc. result > RL > mult.
BTH	Contamination detected in the Trip Blank greater than or equal to the Quantitation Limit.
BTL	Contamination detected in the Trip Blank less than the Quantitation Limit.
CA1	Column difference
CC1	CCV %D
CC2	CCV %R
CC3	CCV RRF
CI1	IC RSD
CI2	IC RRF
CR1	Calibration range
CV1	ICV or CCV %D
CV2	ICV or CCV %R
CV3	ICV CCV RRF
DF1	Dilution Factor > 1
DL	Dilution Factor > 1

DQM Reason Code	Description
DVT1	The Dissolved Result > Total Result and the absolute difference > the AD_MULTIPLIER_CL * Detection Limit
DVT2	The Dissolved Result > Total Result and the absolute difference > AD_MULTIPLIER_UCO * Detection Limit
DVT3	The Dissolved Result > Total Result and the relative percent difference (RPD) > RPD_CL
DVT4	The Dissolved Result > Total Result and the relative percent difference (RPD) > RPD_UCO
ER1	MDL=<RESULT<RL (INORGANIC)
ER2	MDL=<RESULT<RL (ORGANIC)
FBC1	BLANK CONTAMINATION
FBC2	RESULT < BLANK * MULTIPLIER
FBC3	RESULT > BLANK * MULTIPLIER
FD1	Field duplicate RPD
FD2	Field duplicate abs. diff.
GHT1	GROSS_QUALIFIER_HIT
GHT2	GROSS_QUALIFIER_NON_DETECT
HP1	Hydrocarbon pattern
HT1	Holding time samp. to preservation
HT2	Holding time samp. to analysis
HT3	Holding time gros. samp. to pres.
HT4	Holding time gros. samp. to analysis
IS1	Internal standard
LBC1	BLANK CONTAMINATION

DQM Reason Code	Description
LBC2	RESULT < BLANK * MULTIPLIER
LBC3	RESULT > BLANK * MULTIPLIER
LD1	Lab duplicate RPD
LD2	Lab duplicate abs. diff.
LS1	LS %R
LS2	LS RPD
MS1	MS %R
MS2	MS RPD
MS3	Parent >4x spike
MS4	Spike diluted out
NP1	Non-Preferred Result
NR1	NUMERIC RESULTS
OT1	Other quality issue
PS1	BETWEEN CONTROL AND WARNING LIMITS
PS2	INVALID
PS3	LESS THAN LOWER CONTROL LIMIT
PS4	LESS THAN LOWER WARNING LIMIT
PT1	The preservative for this test id does not match the required preservative in RT_HOLDING_TIME.
RDL1	EXCEEDS REQUIRED DETECTION LIMIT
RL1	ND > project limit
RO1	Other rad. issue
RPD1	LCS/LCSD
RPD2	LCS/LCSD_NON_DETECT
RPD3	MS/MSD
RPD4	MS/MSD_NON_DETECT

DQM Reason Code	Description
RPD5	Orig/Dup
RPD6	Orig/Dup_NON_DETECT
RPDF1	FIELD DUPLICATE
RPDF2	FIELD DUPLICATE NON_DETECT
RQ1	Rad. quantitation issue
RR1	Repeated result same method
RR2	Repeated result diff. method
RSD1	RSD exceeds CL for LCS sample
RSD2	RSD exceeds CL for MS sample
RSD3	RSD exceeds CL for Lab sample
RSD4	RSD exceeds CL for Field sample
RY1	Tracer or carrier
SD1	Serial dilution
SO1	High moisture
SO2	Wet weight
SP1	Preservation, temp
SP2	Preservation, pH
SP3	Preservation, headspace
SPR1	BLANK SPIKE > UCL
SPR10	EarthSoft.DQM.SpikeRecovery2
SPR11	EarthSoft.DQM.SpikeRecovery2
SPR12	EarthSoft.DQM.SpikeRecovery2
SPR2	INORGANIC SPIKE > UCL
SPR3	ORGANIC SPIKE > UCL
SPR4	LCL > BLANK > LOW_CUTOFF
SPR5	LCL > INORG > LOW_CUTOFF
SPR6	LCL > ORG > LOW_CUTOFF
SPR7	BLANK SPIKE < LOW_CUTOFF

DQM Reason Code	Description
SPR8	INORGANIC SPIKE < LOW_CUTOFF
SPR9	ORGANIC SPIKE < LOW_CUTOFF
SU	Surrogate outlier
SU1	Surrogate
SU2	Surrogate diluted out
SURR1	ASSO. DETECTS OF LCL > REC > LOW_CUTOFF
SURR10	EarthSoft.DQM.SurrogateRecovery
SURR11	EarthSoft.DQM.SurrogateRecovery
SURR12	EarthSoft.DQM.SurrogateRecovery
SURR2	ASSO. DETECTS OF REC < LOW_CUTOFF
SURR3	ASSO. DETECTS OF REC > UCL
SURR4	ASSO. NDS OF LCL > REC > LOW_CUTOFF
SURR5	ASSO. NDS OF REC < LOW_CUTOFF
SURR6	ASSO. NDS OF REC > UCL
SURR7	LCL > REC > LOW_CUTOFF
SURR8	REC < LOW_CUTOFF
SURR9	REC > UCL
TBC1	BLANK CONTAMINATION
TBC2	RESULT < BLANK * MULTIPLIER
TBC3	RESULT > BLANK * MULTIPLIER
TR	Trace Detection
TR1	Trace detection
TRA1	Tracer is outside of UCL or LCL
TRA2	Associated result of a tracer less than the LCL
TRA3	Associated detect result of a tracer greater than the UCL
VC1	Canister vacuum
VC2	Canister contamination

DQM Reason Code	Description
VSU1	INVALID SAMPLE UNIT TYPE
VSU2	MISSING SAMPLE UNIT TYPE

DQM Reason Code	Description
VSU3	NON-DEFAULT RESULT UNIT

AD-Absolute Difference
CCV-Continuous Calibration Verification
CL-Control Limit
%D-Percent Difference
IC-Initial Calibration
ICV-Initial Calibration Verification
INORG-Inorganic
LCL-Lower Control Limit
LCS-Laboratory Control Spike
LCSD-Laboratory Control Spike Duplicate
LS-Laboratory Spike
MDL-Method Detection Limit
MS-Matrix Spike
MSD-Matrix Spike Duplicate
ND-Not Detected
ORG-Organic
QC-Quality Control
%R-Percent Recovery
REC-Recovery
RL-Reporting Limit
RPD-Relative Percent Difference
RRF-Relative Response Factor
RSD-Relative Standard Deviation
UCL-Upper Control Limit
UCO-Upper Cut Off

AUGUST 2025

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Memorandum – Revision 1

Date:	26 January 2026
To:	Caroline Nelson
From:	Derek Yeadon
CC:	Kristoffer Henderson
Subject:	**Stage 2A Data Validation - Level II Data Deliverable – Pace Project Number 92817686**

SITE: Plant Hammond-Upgradient

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of five water samples, one field duplicate, one field blank, and one equipment blank, collected on 5 August 2025, as part of the Plant Hammond AP-1 on-site sampling event.

The anions and total dissolved solids analyses were performed by Pace Analytical Services, Inc., Asheville, North Carolina (Pace Asheville). The metals and mercury analyses were performed by Pace Analytical Services, Inc., West Columbia, South Carolina (Pace West Columbia). The metals analyses were performed by Pace Analytical Services, Inc., Mount Juliet, Tennessee (Pace National). The samples were analyzed for one or more of the following tests:

- Metals by United States (US) Environmental Protection Agency (EPA) Methods 3015/6020B and 3005A/6020B
- Mercury by US EPA Method 7470A
- Anions (Chloride, Fluoride and Sulfate) by US EPA Method 300.0 R2.1 1993
- Total Dissolved Solids (TDS) by SM 2540C-2020

EXECUTIVE SUMMARY

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below and based on the information provided, the data as qualified are usable for supporting project objectives.

The data were reviewed based on the pertinent methods referenced in the laboratory reports, professional and technical judgment, and the following documents:

- US EPA Region IV Data Validation Standard Operating Procedures (US EPA Region IV, September 2011); and
- USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review, November 2020 (EPA 542-R-20-006).

The following samples were analyzed and reported in the laboratory reports:

Laboratory IDs	Client IDs
92811471001	HAM-HGWA-1
92811471002	HAM-HGWA-2
92811471003	HAM-HGWA-3
92811471004	HAM-HGWA-43D
92811471005	HAM-HGWA-44D

Laboratory IDs	Client IDs
92811471006	HAM-UGRD-FD-01
92811471007	HAM-UGRD-EB-01
92811471008	HAM-UGRD-FB-01

The laboratory reported results for the analytical method(s) requested for each sample on the chains of custody (COCs).

The samples were received within 0-6 degrees Celsius (°C). No sample preservation issues were noted by the laboratory.

This data validation report was revised on January 26, 2026 to correct the sample ID table and to change the site name.

1.0 METALS

The samples were analyzed for metals by US EPA methods 3015/6020B and 3005A/6020B. (Mercury was evaluated separately in Section 2.0, below)

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable or not applicable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

✓ Overall Assessment
✓ Holding Time
✓ Method Blank
✓ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Field Blank
✓ Field Duplicate
✓ Equipment Blank
✓ Sensitivity
✓ Electronic Data Deliverables Review

1.1 Overall Assessment

The metals data reported in this data package are considered usable for supporting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

1.2 Holding Time

The holding time for the metals analysis of a water sample is 180 days from sample collection to analysis. The holding times were met for the sample analyses.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two method blanks were reported. Metals were not detected in the method blanks above the method detection limits (MDLs).

1.4 Matrix Spike/Matrix Spike Duplicate (MS/MSD)

MS/MSDs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two batch MS/MSD pairs were reported. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

1.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two LCSs were reported. The recovery results were within the laboratory specified acceptance criteria.

1.6 Field Blank

One field blank, HAM-UGRD-FB-01, was collected with the sample set. Metals were not detected in the field blank above the MDLs.

1.7 Field Duplicate

One field duplicate, HAM-UGRD-FD-01, was collected with the sample set. Acceptable precision (RPD $\leq$ 30%) was demonstrated between the field duplicate and the original sample, HAM-HGWA-44D.

1.8 Equipment Blank

One equipment blank, HAM-UGRD-EB-01, was collected with the sample set. Metals were not detected in the equipment blank above the MDLs.

1.9 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were not reported.

1.10 Electronic Data Deliverable (EDD) Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

2.0 MERCURY

The samples were analyzed for mercury by US EPA Method 7470A.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable or not applicable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Time
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Field Blank
- ✓ Field Duplicate
- ✓ Equipment Blank
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

2.1 Overall Assessment

The mercury data reported in this data package are considered usable for supporting project objectives. The results are considered valid; the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

2.2 Holding Time

The holding time for the mercury analysis of a water sample is 28 days from sample collection to analysis. The holding times were met for the sample analyses.

2.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported. Mercury was not detected in the method blank above the MDL.

2.4 Matrix Spike/Matrix Spike Duplicate

MS/MSDs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One batch MS/MSD pair was reported. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

2.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery result was within the laboratory specified acceptance criteria.

2.6 Field Blank

One field blank, HAM-UGRD-FB-01, was collected with the sample set. Mercury was not detected in the field blank above the MDL.

2.7 Field Duplicate

One field duplicate, HAM-UGRD-FD-01, was collected with the sample set. Acceptable precision (RPD $\leq$ 30%) was demonstrated between the field duplicate and the original sample, HAM-HGWA-44D.

2.8 Equipment Blank

One equipment blank, HAM-UGRD-EB-01, was collected with the sample set. Mercury was not detected in the equipment blank above the MDL.

2.9 Sensitivity

The samples were reported to the MDL. Elevated non-detect results were not reported.

2.10 Electronic Data Deliverable Review

Results and sample ID in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

3.0 WET CHEMISTRY

The samples were analyzed for anions by US EPA method 300.0 and TDS by SM 2540C.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable or not applicable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Field Blank
- ✓ Field Duplicate
- ✓ Equipment Blank
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

3.1 Overall Assessment

The wet chemistry data reported in this data package are considered usable for supporting project objectives. The results are considered valid; the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

3.2 Holding Times

The holding time for the anions (fluoride, chloride, sulfate) analysis of a water sample is 28 days from sample collection to analysis. The holding time for the TDS analysis of a water sample is 7 days from sample collection to analysis. The holding times were met for the sample analyses.

3.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported for anions. One method blank was reported for TDS. The wet chemistry parameters were not detected in the method blanks above the MDLs.

3.4 Matrix Spike/Matrix Spike Duplicate

MS/MSDs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two batch MS/MSD pairs were reported for anions. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

3.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). The recovery results were within the laboratory specified acceptance criteria.

3.6 Laboratory Duplicate

Two batch laboratory duplicates were reported for TDS. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

3.7 Field Blank

One field blank, HAM-UGRD-FB-01, was collected with the sample set. The wet chemistry parameters were not detected in the field blanks above the MDLs.

3.8 Field Duplicate

One field duplicate, HAM-UGRD-FD-01, was collected with the sample set. Acceptable precision (RPD $\leq$ 30%) was demonstrated between the field duplicate and the original sample, HAM-HGWA-44D.

3.9 Equipment Blank

One equipment blank, HAM-UGRD-EB-01, was collected with the sample set. Metals were not detected in the equipment blanks above the MDLs.

3.10 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were not reported.

3.11 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

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DATA VALIDATION QUALIFIER DEFINITIONS AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team

DATA QUALIFIER DEFINITIONS

U The analyte was analyzed for but was not detected above the reported sample quantitation limit. Upon application of the U qualifier to a reported result, the definition changes to "not detected at or above the reported result."

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

J+ The analyte was positively identified; however, the associated numerical value is likely to be higher than the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.

J- The analyte was positively identified; however, the associated numerical value is likely to be lower than the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec's Data Validation Team

DQM Reason Code	Description
AB1	> Samples in batch
AB2	QC sample missing
AB3	Batch analysis time exceeded
BAH	Contamination detected in the Ambient Blank greater than or equal to the Quantitation Limit.
BAL	Contamination detected in the Ambient Blank less than the Quantitation Limit.
BC	Calibration blank contamination
BC1	assoc. result < RL
BC2	assoc. result > RL < mult.
BC3	assoc. result > RL > mult.
BEH	Contamination detected in the Equipment Blank greater than or equal to the Quantitation Limit.
BEL	Contamination detected in the Equipment Blank less than the Quantitation Limit.
BF	Field blank contamination
BF1	assoc. result < RL
BF2	assoc. result > RL < mult.
BF3	assoc. result > RL > mult.
BFH	Contamination detected in the Field Blank greater than or equal to the Quantitation Limit.
BFL	Contamination detected in the Field Blank less than the Quantitation Limit.
BL	Laboratory blank contamination
BL1	assoc. result < RL

DQM Reason Code	Description
BL2	assoc. result > RL < mult.
BL3	assoc. result > RL > mult.
BLH	Contamination detected in the Lab Blank greater than or equal to the Quantitation Limit.
BLL	Contamination detected in the Lab Blank less than the Quantitation Limit.
BT	Trip blank contamination
BT1	assoc. result < RL
BT2	assoc. result > RL < mult.
BT3	assoc. result > RL > mult.
BTH	Contamination detected in the Trip Blank greater than or equal to the Quantitation Limit.
BTL	Contamination detected in the Trip Blank less than the Quantitation Limit.
CA1	Column difference
CC1	CCV %D
CC2	CCV %R
CC3	CCV RRF
CI1	IC RSD
CI2	IC RRF
CR1	Calibration range
CV1	ICV or CCV %D
CV2	ICV or CCV %R
CV3	ICV CCV RRF
DF1	Dilution Factor > 1

DQM Reason Code	Description
DL	Dilution Factor > 1
DVT1	The Dissolved Result > Total Result and the absolute difference > the AD_MULTIPLIER_CL * Detection Limit
DVT2	The Dissolved Result > Total Result and the absolute difference > AD_MULTIPLIER_UCO * Detection Limit
DVT3	The Dissolved Result > Total Result and the relative percent difference (RPD) > RPD_CL
DVT4	The Dissolved Result > Total Result and the relative percent difference (RPD) > RPD_UCO
ER1	MDL=<RESULT<RL (INORGANIC)
ER2	MDL=<RESULT<RL (ORGANIC)
FBC1	BLANK CONTAMINATION
FBC2	RESULT < BLANK * MULTIPLIER
FBC3	RESULT > BLANK * MULTIPLIER
FD1	Field duplicate RPD
FD2	Field duplicate abs. diff.
GHT1	GROSS_QUALIFIER_HIT
GHT2	GROSS_QUALIFIER_NON_DETECT
HP1	Hydrocarbon pattern
HT1	Holding time samp. to preservation
HT2	Holding time samp. to analysis
HT3	Holding time gros. samp. to pres.
HT4	Holding time gros. samp. to analysis
IS1	Internal standard
LBC1	BLANK CONTAMINATION

DQM Reason Code	Description
LBC2	RESULT < BLANK * MULTIPLIER
LBC3	RESULT > BLANK * MULTIPLIER
LD1	Lab duplicate RPD
LD2	Lab duplicate abs. diff.
LS1	LS %R
LS2	LS RPD
MS1	MS %R
MS2	MS RPD
MS3	Parent >4x spike
MS4	Spike diluted out
NP1	Non-Preferred Result
NR1	NUMERIC RESULTS
OT1	Other quality issue
PS1	BETWEEN CONTROL AND WARNING LIMITS
PS2	INVALID
PS3	LESS THAN LOWER CONTROL LIMIT
PS4	LESS THAN LOWER WARNING LIMIT
PT1	The preservative for this test id does not match the required preservative in RT_HOLDING_TIME.
RDL1	EXCEEDS REQUIRED DETECTION LIMIT
RL1	ND > project limit
RO1	Other rad. issue
RPD1	LCS/LCSD
RPD2	LCS/LCSD_NON_DETECT
RPD3	MS/MSD
RPD4	MS/MSD_NON_DETECT

DQM Reason Code	Description
RPD5	Orig/Dup
RPD6	Orig/Dup_NON_DETECT
RPDF1	FIELD DUPLICATE
RPDF2	FIELD DUPLICATE NON_DETECT
RQ1	Rad. quantitation issue
RR1	Repeated result same method
RR2	Repeated result diff. method
RSD1	RSD exceeds CL for LCS sample
RSD2	RSD exceeds CL for MS sample
RSD3	RSD exceeds CL for Lab sample
RSD4	RSD exceeds CL for Field sample
RY1	Tracer or carrier
SD1	Serial dilution
SO1	High moisture
SO2	Wet weight
SP1	Preservation, temp
SP2	Preservation, pH
SP3	Preservation, headspace
SPR1	BLANK SPIKE > UCL
SPR10	EarthSoft.DQM.SpikeRecovery2
SPR11	EarthSoft.DQM.SpikeRecovery2
SPR12	EarthSoft.DQM.SpikeRecovery2
SPR2	INORGANIC SPIKE > UCL
SPR3	ORGANIC SPIKE > UCL
SPR4	LCL > BLANK > LOW_CUTOFF
SPR5	LCL > INORG > LOW_CUTOFF
SPR6	LCL > ORG > LOW_CUTOFF
SPR7	BLANK SPIKE < LOW_CUTOFF

DQM Reason Code	Description
SPR8	INORGANIC SPIKE < LOW_CUTOFF
SPR9	ORGANIC SPIKE < LOW_CUTOFF
SU	Surrogate outlier
SU1	Surrogate
SU2	Surrogate diluted out
SURR1	ASSO. DETECTS OF LCL > REC > LOW_CUTOFF
SURR10	EarthSoft.DQM.SurrogateRecovery
SURR11	EarthSoft.DQM.SurrogateRecovery
SURR12	EarthSoft.DQM.SurrogateRecovery
SURR2	ASSO. DETECTS OF REC < LOW_CUTOFF
SURR3	ASSO. DETECTS OF REC > UCL
SURR4	ASSO. NDS OF LCL > REC > LOW_CUTOFF
SURR5	ASSO. NDS OF REC < LOW_CUTOFF
SURR6	ASSO. NDS OF REC > UCL
SURR7	LCL > REC > LOW_CUTOFF
SURR8	REC < LOW_CUTOFF
SURR9	REC > UCL
TBC1	BLANK CONTAMINATION
TBC2	RESULT < BLANK * MULTIPLIER
TBC3	RESULT > BLANK * MULTIPLIER
TR	Trace Detection
TR1	Trace detection
TRA1	Tracer is outside of UCL or LCL
TRA2	Associated result of a tracer less than the LCL
TRA3	Associated detect result of a tracer greater than the UCL
VC1	Canister vacuum
VC2	Canister contamination

DQM Reason Code	Description
VSU1	INVALID SAMPLE UNIT TYPE
VSU2	MISSING SAMPLE UNIT TYPE
VSU3	NON-DEFAULT RESULT UNIT

AD-Absolute Difference
CCV-Continuous Calibration Verification
CL-Control Limit
%D-Percent Difference
IC-Initial Calibration
ICV-Initial Calibration Verification
INORG-Inorganic
LCL-Lower Control Limit
LCS-Laboratory Control Spike
LCSD-Laboratory Control Spike Duplicate
LS-Laboratory Spike
MDL-Method Detection Limit
MS-Matrix Spike
MSD-Matrix Spike Duplicate
ND-Not Detected
ORG-Organic
QC-Quality Control
%R-Percent Recovery
REC-Recovery
RL-Reporting Limit
RPD-Relative Percent Difference
RRF-Relative Response Factor
RSD-Relative Standard Deviation
UCL-Upper Control Limit
UCO-Upper Cut Off

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Memorandum- Revision 1

Date:	26 January 2026
To:	Kristen Jurinko
From:	Matthew Richardson
CC:	Kristoffer Henderson
Subject:	**Stage 2A Data Validation - Level II Data Deliverable – Pace Analytical Services, LLC Project Number 92817701**

SITE: Plant Hammond-Upgradient

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation five groundwater samples, one field duplicate, one field blank and one equipment blank, collected on 5 August 2025, as part of the Plant Hammond AP on-site sampling event.

The samples were analyzed at Pace Analytical Services, LLC, Greensburg, Pennsylvania, for the following analytical tests:

- Radium-226 by United States (US) Environmental Protection Agency (EPA) Method 9315
- Radium-228 by US EPA Method 9320
- Total Radium by Calculation

EXECUTIVE SUMMARY

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below and based on the information provided, the data as qualified are usable for supporting project objectives. The qualified data should be used within the limitations of the qualifications.

The data were reviewed based on the pertinent methods referenced in the laboratory reports, professional and technical judgment, and the following documents:

- US EPA Region IV Data Validation Standard Operating Procedures (US EPA Region IV, September 2011);
- USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review, November 2020 (EPA 542-R-20-006);
- Field Sampling Plan – All Sites, Georgia Power Company, Southern Company, January 2024, Revised May 2024; and

- Idaho National Engineering and Environmental Laboratory, RADIOANALYTICAL DATA VALIDATION, May 11, 2004 (GDE-205).

The following samples were analyzed and reported in the laboratory reports:

Laboratory IDs	Client IDs
92811478001	HAM-HGWA-1
92811478002	HAM-HGWA-2
92811478003	HAM-HGWA-3
92811478004	HAM-HGWA-43D

Laboratory IDs	Client IDs
92811478005	HAM-HGWA-44D
92811478006	HAM-UGRD-FD-01
92811478007	HAM-UGRD-EB-01
92811478008	HAM-UGRD-FB-01

The samples were received within 0-6 degrees Celsius (°C). No sample preservation issues were noted by the laboratory.

This data validation report was revised on January 26, 2026 to update the site name.

1.0 RADIOCHEMISTRY

The samples were analyzed for radium-226 by US EPA method 9315, radium-228 by US EPA method 9320 and total radium by calculation.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

✓ Overall Assessment
✓ Holding Times
✓ Method Blank
✓ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Laboratory Duplicate
✓ Tracers and Carriers
✓ Field Blank
✓ Equipment Blank
✓ Field Duplicate
✓ Sensitivity

1.1 Overall Assessment

The radium-226 and radium-228 data reported in this data set are considered usable for supporting project objectives. The results are considered valid; the analytical completeness defined as the ratio

of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

1.2 Holding Times

The holding times for the radium-226 and radium-228 analyses of a water sample are 180 days from sample collection to analysis. The holding times were met for the sample analyses.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Method blanks were reported for the radium-226 and radium-228 data. Radium-226 and radium-228 were not detected in the method blanks at or above the measured 2σ uncertainty or the minimum detectable concentration (MDC).

1.4 Matrix Spike/Matrix Spike Duplicate (MS/MSD)

MS/MSD pairs were not reported with the sample set.

1.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). LCS/LCS duplicate (LCSD) pairs were reported for radium-226 and radium-228. The recovery and mean difference (MD) results were within the laboratory specified acceptance criteria.

However, the relative percent difference (RPD) for radium-226 in the LCS/LCSD pair in batch 763825 was high and outside of the laboratory specified acceptance criteria. Since the MD was acceptable and based on professional and technical judgment, no qualifications were applied to the data.

1.6 Laboratory Duplicate

Batch laboratory duplicates were reported with the sample set. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

1.7 Tracers and Carriers

Carriers were reported for the radium-226 and radium-228 analyses, and a tracer was reported for the radium-228 analyses. The recovery results were within the laboratory specified acceptance criteria.

1.8 Field Blank

One field blank, HAM-UGRD-FB-01, was collected with the sample set and analyzed for radium-226 and radium-228. Radium-226 and radium-228 were not detected in the field blank at or above the measured 2σ uncertainty or the MDC.

1.9 Equipment Blank

One equipment blank, HAM-UGRD-EB-01, was collected with the sample set and analyzed for radium-226 and radium-228. Radium-226 and radium-228 were not detected in the equipment blank at or above the measured 2σ uncertainty or the MDC.

1.10 Field Duplicate

One field duplicate sample, HAM-UGRD-FD-01, was collected with the sample set. Acceptable precision (MD ≤ 3, RPD < 20%) was demonstrated between the field duplicate and the original sample, HAM-HGWA-44D.

1.11 Sensitivity

The samples were reported to the MDCs. No elevated non-detect results were reported.

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ATTACHMENT 1
DATA VALIDATION QUALIFIER DEFINITIONS AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team

DATA QUALIFIER DEFINITIONS

U The analyte was analyzed for but was not detected above the reported sample quantitation limit. Upon application of the U qualifier to a reported result, the definition changes to "not detected at or above the reported result."

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

J+ The analyte was positively identified; however, the associated numerical value is likely to be higher than the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.

J- The analyte was positively identified; however, the associated numerical value is likely to be lower than the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

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ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec's Data Validation Team

DQM Reason Code	Description
AB1	> Samples in batch
AB2	QC sample missing
AB3	Batch analysis time exceeded
BAH	Contamination detected in the Ambient Blank greater than or equal to the Quantitation Limit.
BAL	Contamination detected in the Ambient Blank less than the Quantitation Limit.
BC	Calibration blank contamination
BC1	assoc. result < RL
BC2	assoc. result > RL < mult.
BC3	assoc. result > RL > mult.
BEH	Contamination detected in the Equipment Blank greater than or equal to the Quantitation Limit.
BEL	Contamination detected in the Equipment Blank less than the Quantitation Limit.
BF	Field blank contamination
BF1	assoc. result < RL
BF2	assoc. result > RL < mult.
BF3	assoc. result > RL > mult.
BFH	Contamination detected in the Field Blank greater than or equal to the Quantitation Limit.
BFL	Contamination detected in the Field Blank less than the Quantitation Limit.
BL	Laboratory blank contamination
BL1	assoc. result < RL
BL2	assoc. result > RL < mult.
BL3	assoc. result > RL > mult.
BLH	Contamination detected in the Lab Blank greater than or equal to the Quantitation Limit.
BLL	Contamination detected in the Lab Blank less than the Quantitation Limit.
BT	Trip blank contamination
BT1	assoc. result < RL
BT2	assoc. result > RL < mult.
BT3	assoc. result > RL > mult.
BTH	Contamination detected in the Trip Blank greater than or equal to the Quantitation Limit.
BTL	Contamination detected in the Trip Blank less than the Quantitation Limit.
CA1	Column difference
CC1	CCV %D
CC2	CCV %R
CC3	CCV RRF
CI1	IC RSD
CI2	IC RRF
CR1	Calibration range
CV1	ICV or CCV %D
CV2	ICV or CCV %R
CV3	ICV CCV RRF
DF1	Dilution Factor > 1
DL	Dilution Factor > 1

DQM Reason Code	Description
DVT1	The Dissolved Result > Total Result and the absolute difference > the AD_MULTIPLIER_CL * Detection Limit
DVT2	The Dissolved Result > Total Result and the absolute difference > AD_MULTIPLIER_UCO * Detection Limit
DVT3	The Dissolved Result > Total Result and the relative percent difference (RPD) > RPD_CL
DVT4	The Dissolved Result > Total Result and the relative percent difference (RPD) > RPD_UCO
ER1	MDL=<RESULT<RL (INORGANIC)
ER2	MDL=<RESULT<RL (ORGANIC)
FBC1	BLANK CONTAMINATION
FBC2	RESULT < BLANK * MULTIPLIER
FBC3	RESULT > BLANK * MULTIPLIER
FD1	Field duplicate RPD
FD2	Field duplicate abs. diff.
GHT1	GROSS_QUALIFIER_HIT
GHT2	GROSS_QUALIFIER_NON_DETECT
HP1	Hydrocarbon pattern
HT1	Holding time samp. to preservation
HT2	Holding time samp. to analysis
HT3	Holding time gros. samp. to pres.
HT4	Holding time gros. samp. to analysis
IS1	Internal standard
LBC1	BLANK CONTAMINATION

DQM Reason Code	Description
LBC2	RESULT < BLANK * MULTIPLIER
LBC3	RESULT > BLANK * MULTIPLIER
LD1	Lab duplicate RPD
LD2	Lab duplicate abs. diff.
LS1	LS %R
LS2	LS RPD
MS1	MS %R
MS2	MS RPD
MS3	Parent >4x spike
MS4	Spike diluted out
NP1	Non-Preferred Result
NR1	NUMERIC RESULTS
OT1	Other quality issue
PS1	BETWEEN CONTROL AND WARNING LIMITS
PS2	INVALID
PS3	LESS THAN LOWER CONTROL LIMIT
PS4	LESS THAN LOWER WARNING LIMIT
PT1	The preservative for this test id does not match the required preservative in RT_HOLDING_TIME.
RDL1	EXCEEDS REQUIRED DETECTION LIMIT
RL1	ND > project limit
RO1	Other rad. issue
RPD1	LCS/LCSD
RPD2	LCS/LCSD_NON_DETECT
RPD3	MS/MSD
RPD4	MS/MSD_NON_DETECT

DQM Reason Code	Description
RPD5	Orig/Dup
RPD6	Orig/Dup_NON_DETECT
RPDF1	FIELD DUPLICATE
RPDF2	FIELD DUPLICATE NON_DETECT
RQ1	Rad. quantitation issue
RR1	Repeated result same method
RR2	Repeated result diff. method
RSD1	RSD exceeds CL for LCS sample
RSD2	RSD exceeds CL for MS sample
RSD3	RSD exceeds CL for Lab sample
RSD4	RSD exceeds CL for Field sample
RY1	Tracer or carrier
SD1	Serial dilution
SO1	High moisture
SO2	Wet weight
SP1	Preservation, temp
SP2	Preservation, pH
SP3	Preservation, headspace
SPR1	BLANK SPIKE > UCL
SPR10	EarthSoft.DQM.SpikeRecovery2
SPR11	EarthSoft.DQM.SpikeRecovery2
SPR12	EarthSoft.DQM.SpikeRecovery2
SPR2	INORGANIC SPIKE > UCL
SPR3	ORGANIC SPIKE > UCL
SPR4	LCL > BLANK > LOW_CUTOFF
SPR5	LCL > INORG > LOW_CUTOFF
SPR6	LCL > ORG > LOW_CUTOFF
SPR7	BLANK SPIKE < LOW_CUTOFF

DQM Reason Code	Description
SPR8	INORGANIC SPIKE < LOW_CUTOFF
SPR9	ORGANIC SPIKE < LOW_CUTOFF
SU	Surrogate outlier
SU1	Surrogate
SU2	Surrogate diluted out
SURR1	ASSO. DETECTS OF LCL > REC > LOW_CUTOFF
SURR10	EarthSoft.DQM.SurrogateRecovery
SURR11	EarthSoft.DQM.SurrogateRecovery
SURR12	EarthSoft.DQM.SurrogateRecovery
SURR2	ASSO. DETECTS OF REC < LOW_CUTOFF
SURR3	ASSO. DETECTS OF REC > UCL
SURR4	ASSO. NDS OF LCL > REC > LOW_CUTOFF
SURR5	ASSO. NDS OF REC < LOW_CUTOFF
SURR6	ASSO. NDS OF REC > UCL
SURR7	LCL > REC > LOW_CUTOFF
SURR8	REC < LOW_CUTOFF
SURR9	REC > UCL
TBC1	BLANK CONTAMINATION
TBC2	RESULT < BLANK * MULTIPLIER
TBC3	RESULT > BLANK * MULTIPLIER
TR	Trace Detection
TR1	Trace detection
TRA1	Tracer is outside of UCL or LCL
TRA2	Associated result of a tracer less than the LCL
TRA3	Associated detect result of a tracer greater than the UCL
VC1	Canister vacuum
VC2	Canister contamination

DQM Reason Code	Description
VSU1	INVALID SAMPLE UNIT TYPE
VSU2	MISSING SAMPLE UNIT TYPE

DQM Reason Code	Description
VSU3	NON-DEFAULT RESULT UNIT

AD-Absolute Difference
CCV-Continuous Calibration Verification
CL-Control Limit
%D-Percent Difference
IC-Initial Calibration
ICV-Initial Calibration Verification
INORG-Inorganic
LCL-Lower Control Limit
LCS-Laboratory Control Spike
LCSD-Laboratory Control Spike Duplicate
LS-Laboratory Spike
MDL-Method Detection Limit
MS-Matrix Spike
MSD-Matrix Spike Duplicate
ND-Not Detected
ORG-Organic
QC-Quality Control
%R-Percent Recovery
REC-Recovery
RL-Reporting Limit
RPD-Relative Percent Difference
RRF-Relative Response Factor
RSD-Relative Standard Deviation
UCL-Upper Control Limit
UCO-Upper Cut Off

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Memorandum

Date:	14 January 2026
To:	Caroline Nelson
From:	Derek Yeadon
CC:	Kristoffer Henderson
Subject:	**Stage 2A Data Validation - Level II Data Deliverable – Pace Project Number 92811471**

SITE: Plant Hammond AP-1

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of eleven water samples, one field duplicate, one field blank, and one equipment blank, collected 6-8 and 10 August 2025, as part of the Plant Hammond AP-1 on-site sampling event.

The anions and total dissolved solids analyses were performed by Pace Analytical Services, Inc., Asheville, North Carolina (Pace Asheville). The metals and mercury analyses were performed by Pace Analytical Services, Inc., West Columbia, South Carolina (Pace West Columbia). The metals analyses were performed by Pace Analytical Services, Inc., Mount Juliet, Tennessee (Pace National). The samples were analyzed for one or more of the following tests:

- Metals by United States (US) Environmental Protection Agency (EPA) Methods 3015/6020B and 3005A/6020B
- Mercury by US EPA Method 7470A
- Anions (Chloride, Fluoride and Sulfate) by US EPA Method 300.0 R2.1 1993
- Total Dissolved Solids (TDS) by SM 2540C-2020

EXECUTIVE SUMMARY

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below and based on the information provided, the data as qualified are usable for supporting project objectives.

The data were reviewed based on the pertinent methods referenced in the laboratory reports, professional and technical judgment, and the following documents:

- US EPA Region IV Data Validation Standard Operating Procedures (US EPA Region IV, September 2011); and
- USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review, November 2020 (EPA 542-R-20-006).

The following samples were analyzed and reported in the laboratory reports:

Laboratory IDs	Client IDs
92811471009	HAM-HGWC-7
92811471010	HAM-HGWC-8
92811471011	HAM-HGWC-10
92811471012	HAM-HGWC-11
92811471013	HAM-HGWC-12
92811471014	HAM-MW-19
92811471015	HAM-MW-20

Laboratory IDs	Client IDs
92811471016	HAM-MW-27D
92811471017	HAM-AP1-FD-01
92811471018	HAM-AP1-EB-01
92811471019	HAM-AP1-FB-01
92811471020	HAM-HGWC-9
92811471021	HAM-HGWC-13
92811471021	HAM-MW-24D

The laboratory reported results for the analytical method(s) requested for each sample on the chains of custody (COCs).

The samples were received within 0-6 degrees Celsius (°C). No sample preservation issues were noted by the laboratory.

1.0 METALS

The samples were analyzed for metals by US EPA methods 3015/6020B and 3005A/6020B. (Mercury was evaluated separately in Section 2.0, below)

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable or not applicable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

✓ Overall Assessment
✓ Holding Time
✓ Method Blank
✓ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Field Blank
⊗ Field Duplicate
✓ Equipment Blank
✓ Sensitivity

1.1 Overall Assessment

The metals data reported in this data package are considered usable for supporting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

1.2 Holding Time

The holding time for the metals analysis of a water sample is 180 days from sample collection to analysis. The holding times were met for the sample analyses.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Method blanks were reported for each batch. Metals were not detected in the method blanks at or above the method detection limits (MDLs).

1.4 Matrix Spike/Matrix Spike Duplicate (MS/MSD)

MS/MSDs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two sample set specific MS/MSD pairs were reported, using samples HAM-HGWC-12 and HAM-HGWC-13. The recovery and relative percent difference (RPD) results were within the laboratory specified acceptance criteria, with the following exceptions.

The calcium recovery in the MSD using sample HAM-HGWC-13 was low and outside the laboratory specified acceptance criteria, and the RPD of the MS/MSD pair using sample HAM-HGWC-13 was outside the laboratory specified acceptance criteria. Since the concentration of calcium in sample HAM-HGWC-13 was greater than 4 times the spike concentration, no qualifications were applied to the data, based on professional and technical judgement.

Batch MS/MSD pairs were also reported. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

1.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Four LCSs were reported. The recovery results were within the laboratory specified acceptance criteria.

1.6 Field Blank

One field blank, HAM-AP1-FB-01, was collected with the sample set. Metals were not detected in the field blank at or above the MDLs.

1.7 Field Duplicate

One field duplicate, HAM-AP1-FD-01, was collected with the sample set. Acceptable precision (RPD ≤ 30%) was demonstrated between the field duplicate and the original sample, HAM-HGWC-8, with the following exception.

The molybdenum RPD in the field duplicate pair was outside the method specified acceptance criteria. Therefore, the molybdenum results in the field duplicate pair were J qualified as estimated.

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	RPD	Validation Result (mg/L)	Validation Qualifier*	Reason Code**
HAM-AP1-FD-01	Molybdenum	0.10	NA	72.1	0.10	J	FD1
HAM-HGWC-8	Molybdenum	0.047	NA		0.047	J	FD1

mg/L-milligrams per liter
NA-not applicable
RPD-relative percent difference
* Validation qualifiers are defined in Attachment 1 at the end of this report
**Reason codes are defined in Attachment 2 at the end of this report

1.8 Equipment Blank

One equipment blank, HAM-AP1-EB-01, was collected with the sample set. Metals were not detected in the equipment blank at or above the MDLs.

1.9 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were not reported.

2.0 MERCURY

The samples were analyzed for mercury by US EPA Method 7470A.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable or not applicable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Time
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Field Blank
- ✓ Field Duplicate
- ✓ Equipment Blank
- ✓ Sensitivity

2.1 Overall Assessment

The mercury data reported in this data package are considered usable for supporting project objectives. The results are considered valid; the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

2.2 Holding Time

The holding time for the mercury analysis of a water sample is 28 days from sample collection to analysis. The holding times were met for the sample analyses.

2.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Method blanks were reported for each batch. Mercury was not detected in the method blanks at or above the MDL.

2.4 Matrix Spike/Matrix Spike Duplicate

MS/MSDs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One sample set specific MS/MSD pair was reported, using sample HAM-AP1-FD-01. The recovery and RPD results were within the laboratory specified acceptance criteria.

Batch MS/MSD pairs were reported. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

2.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two LCSs were reported. The recovery results were within the laboratory specified acceptance criteria.

2.6 Field Blank

One field blank, HAM-AP1-FB-01, was collected with the sample set. Mercury was not detected in the field blank at or above the MDL.

2.7 Field Duplicate

One field duplicate, HAM-AP1-FD-01, was collected with the sample set. Acceptable precision (RPD ≤ 30%) was demonstrated between the field duplicate and the original sample, HAM-HGWC-8.

2.8 Equipment Blank

One equipment blank, HAM-AP1-EB-01, was collected with the sample set. Mercury was not detected in the equipment blank at or above the MDL.

2.9 Sensitivity

The samples were reported to the MDL. Elevated non-detect results were not reported.

3.0 WET CHEMISTRY

The samples were analyzed for anions by US EPA method 300.0 and TDS by SM 2540C.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable or not applicable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

⊗ Overall Assessment
✓ Holding Times
✓ Method Blank
⊗ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Laboratory Duplicate
✓ Field Blank
✓ Field Duplicate

- ✓ Equipment Blank
- ✓ Sensitivity

3.1 Overall Assessment

3.1.1 Completeness

The wet chemistry data reported in this data package are considered usable for supporting project objectives. The results are considered valid; the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

3.1.2 Analysis Anomaly

The TDS result for sample HAM-HGWC-9 was flagged "2g" by the laboratory to indicate that constant weight could not be achieved for the sample after 4 drying cycles. Therefore, based on professional and technical judgement, the TDS result in sample HAM-HGWC-9 was J qualified as estimated.

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
HAM-HGWC-9	Total Dissolved Solids	613	2g	613	J	OT1

mg/L-milligrams per liter
2g-laboratory flag indicating that constant weight could not be achieved for the sample after 3 or more dryings

3.2 Holding Times

The holding time for the anions (fluoride, chloride, sulfate) analysis of a water sample is 28 days from sample collection to analysis. The holding time for the TDS analysis of a water sample is 7 days from sample collection to analysis. The holding times were met for the sample analyses.

3.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Method blanks were reported for each batch. The wet chemistry parameters were not detected in the method blanks at or above the MDLs.

3.4 Matrix Spike/Matrix Spike Duplicate

MS/MSDs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two sample set specific MS/MSD pairs were reported, using

samples HAM-HGWC-7 and HAM-AP1-FB-01. The recovery and RPD results were within the laboratory specified acceptance criteria, with the following exceptions.

The fluoride recoveries in the MS/MSD pair using sample HAM-HGWC-7 were high and outside the laboratory specified acceptance criteria. Therefore, the fluoride result in sample HAM-HGWC-7 was J+ qualified as estimated with high bias.

The sulfate recoveries in the MS/MSD pair using sample HAM-HGWC-7 were low and outside the laboratory specified acceptance criteria. Therefore, the sulfate result in sample HAM-HGWC-7 was J- qualified as estimated with low bias.

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
HAM-HGWC-7	Fluoride	0.11	M1	0.11	J+	MS1
HAM-HGWC-7	Sulfate	97.2	M1	97.2	J-	MS1

mg/L-milligrams per liter
M1- laboratory flag indicating the MS and/or MSD was outside acceptance criteria

Two batch MS/MSD pairs were also reported for anions. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

3.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). The recovery results were within the laboratory specified acceptance criteria.

3.6 Laboratory Duplicate

One sample set specific laboratory duplicate was reported for TDS using sample HAM-HGWC-12. The RPD result was within the laboratory specified acceptance criteria.

Batch laboratory duplicates were reported. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

3.7 Field Blank

One field blank, HAM-AP1-FB-01, was collected with the sample set. The wet chemistry parameters were not detected in the field blanks at or above the MDLs.

3.8 Field Duplicate

One field duplicate, HAM-AP1-FD-01, was collected with the sample set. Acceptable precision (RPD ≤ 30%) was demonstrated between the field duplicate and the original sample, HAM-HGWC-8.

3.9 Equipment Blank

One equipment blank, HAM-AP1-FB-01, was collected with the sample set. Metals were not detected in the equipment blanks at or above the MDLs.

3.10 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were not reported.

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DATA VALIDATION QUALIFIER DEFINITIONS AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team

DATA QUALIFIER DEFINITIONS

U The analyte was analyzed for but was not detected above the reported sample quantitation limit. Upon application of the U qualifier to a reported result, the definition changes to "not detected at or above the reported result."

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

J+ The analyte was positively identified; however, the associated numerical value is likely to be higher than the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.

J- The analyte was positively identified; however, the associated numerical value is likely to be lower than the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec's Data Validation Team

DQM Reason Code	Description
AB1	> Samples in batch
AB2	QC sample missing
AB3	Batch analysis time exceeded
BAH	Contamination detected in the Ambient Blank greater than or equal to the Quantitation Limit.
BAL	Contamination detected in the Ambient Blank less than the Quantitation Limit.
BC	Calibration blank contamination
BC1	assoc. result < RL
BC2	assoc. result > RL < mult.
BC3	assoc. result > RL > mult.
BEH	Contamination detected in the Equipment Blank greater than or equal to the Quantitation Limit.
BEL	Contamination detected in the Equipment Blank less than the Quantitation Limit.
BF	Field blank contamination
BF1	assoc. result < RL
BF2	assoc. result > RL < mult.
BF3	assoc. result > RL > mult.
BFH	Contamination detected in the Field Blank greater than or equal to the Quantitation Limit.
BFL	Contamination detected in the Field Blank less than the Quantitation Limit.
BL	Laboratory blank contamination
BL1	assoc. result < RL

DQM Reason Code	Description
BL2	assoc. result > RL < mult.
BL3	assoc. result > RL > mult.
BLH	Contamination detected in the Lab Blank greater than or equal to the Quantitation Limit.
BLL	Contamination detected in the Lab Blank less than the Quantitation Limit.
BT	Trip blank contamination
BT1	assoc. result < RL
BT2	assoc. result > RL < mult.
BT3	assoc. result > RL > mult.
BTH	Contamination detected in the Trip Blank greater than or equal to the Quantitation Limit.
BTL	Contamination detected in the Trip Blank less than the Quantitation Limit.
CA1	Column difference
CC1	CCV %D
CC2	CCV %R
CC3	CCV RRF
CI1	IC RSD
CI2	IC RRF
CR1	Calibration range
CV1	ICV or CCV %D
CV2	ICV or CCV %R
CV3	ICV CCV RRF
DF1	Dilution Factor > 1

DQM Reason Code	Description
DL	Dilution Factor > 1
DVT1	The Dissolved Result > Total Result and the absolute difference > the AD_MULTIPLIER_CL * Detection Limit
DVT2	The Dissolved Result > Total Result and the absolute difference > AD_MULTIPLIER_UCO * Detection Limit
DVT3	The Dissolved Result > Total Result and the relative percent difference (RPD) > RPD_CL
DVT4	The Dissolved Result > Total Result and the relative percent difference (RPD) > RPD_UCO
ER1	MDL=<RESULT<RL (INORGANIC)
ER2	MDL=<RESULT<RL (ORGANIC)
FBC1	BLANK CONTAMINATION
FBC2	RESULT < BLANK * MULTIPLIER
FBC3	RESULT > BLANK * MULTIPLIER
FD1	Field duplicate RPD
FD2	Field duplicate abs. diff.
GHT1	GROSS_QUALIFIER_HIT
GHT2	GROSS_QUALIFIER_NON_DETECT
HP1	Hydrocarbon pattern
HT1	Holding time samp. to preservation
HT2	Holding time samp. to analysis
HT3	Holding time gros. samp. to pres.
HT4	Holding time gros. samp. to analysis
IS1	Internal standard
LBC1	BLANK CONTAMINATION

DQM Reason Code	Description
LBC2	RESULT < BLANK * MULTIPLIER
LBC3	RESULT > BLANK * MULTIPLIER
LD1	Lab duplicate RPD
LD2	Lab duplicate abs. diff.
LS1	LS %R
LS2	LS RPD
MS1	MS %R
MS2	MS RPD
MS3	Parent >4x spike
MS4	Spike diluted out
NP1	Non-Preferred Result
NR1	NUMERIC RESULTS
OT1	Other quality issue
PS1	BETWEEN CONTROL AND WARNING LIMITS
PS2	INVALID
PS3	LESS THAN LOWER CONTROL LIMIT
PS4	LESS THAN LOWER WARNING LIMIT
PT1	The preservative for this test id does not match the required preservative in RT_HOLDING_TIME.
RDL1	EXCEEDS REQUIRED DETECTION LIMIT
RL1	ND > project limit
RO1	Other rad. issue
RPD1	LCS/LCSD
RPD2	LCS/LCSD_NON_DETECT
RPD3	MS/MSD
RPD4	MS/MSD_NON_DETECT

DQM Reason Code	Description
RPD5	Orig/Dup
RPD6	Orig/Dup_NON_DETECT
RPDF1	FIELD DUPLICATE
RPDF2	FIELD DUPLICATE NON_DETECT
RQ1	Rad. quantitation issue
RR1	Repeated result same method
RR2	Repeated result diff. method
RSD1	RSD exceeds CL for LCS sample
RSD2	RSD exceeds CL for MS sample
RSD3	RSD exceeds CL for Lab sample
RSD4	RSD exceeds CL for Field sample
RY1	Tracer or carrier
SD1	Serial dilution
SO1	High moisture
SO2	Wet weight
SP1	Preservation, temp
SP2	Preservation, pH
SP3	Preservation, headspace
SPR1	BLANK SPIKE > UCL
SPR10	EarthSoft.DQM.SpikeRecovery2
SPR11	EarthSoft.DQM.SpikeRecovery2
SPR12	EarthSoft.DQM.SpikeRecovery2
SPR2	INORGANIC SPIKE > UCL
SPR3	ORGANIC SPIKE > UCL
SPR4	LCL > BLANK > LOW_CUTOFF
SPR5	LCL > INORG > LOW_CUTOFF
SPR6	LCL > ORG > LOW_CUTOFF
SPR7	BLANK SPIKE < LOW_CUTOFF

DQM Reason Code	Description
SPR8	INORGANIC SPIKE < LOW_CUTOFF
SPR9	ORGANIC SPIKE < LOW_CUTOFF
SU	Surrogate outlier
SU1	Surrogate
SU2	Surrogate diluted out
SURR1	ASSO. DETECTS OF LCL > REC > LOW_CUTOFF
SURR10	EarthSoft.DQM.SurrogateRecovery
SURR11	EarthSoft.DQM.SurrogateRecovery
SURR12	EarthSoft.DQM.SurrogateRecovery
SURR2	ASSO. DETECTS OF REC < LOW_CUTOFF
SURR3	ASSO. DETECTS OF REC > UCL
SURR4	ASSO. NDS OF LCL > REC > LOW_CUTOFF
SURR5	ASSO. NDS OF REC < LOW_CUTOFF
SURR6	ASSO. NDS OF REC > UCL
SURR7	LCL > REC > LOW_CUTOFF
SURR8	REC < LOW_CUTOFF
SURR9	REC > UCL
TBC1	BLANK CONTAMINATION
TBC2	RESULT < BLANK * MULTIPLIER
TBC3	RESULT > BLANK * MULTIPLIER
TR	Trace Detection
TR1	Trace detection
TRA1	Tracer is outside of UCL or LCL
TRA2	Associated result of a tracer less than the LCL
TRA3	Associated detect result of a tracer greater than the UCL
VC1	Canister vacuum
VC2	Canister contamination

DQM Reason Code	Description
VSU1	INVALID SAMPLE UNIT TYPE
VSU2	MISSING SAMPLE UNIT TYPE

DQM Reason Code	Description
VSU3	NON-DEFAULT RESULT UNIT

AD-Absolute Difference
CCV-Continuous Calibration Verification
CL-Control Limit
%D-Percent Difference
IC-Initial Calibration
ICV-Initial Calibration Verification
INORG-Inorganic
LCL-Lower Control Limit
LCS-Laboratory Control Spike
LCSD-Laboratory Control Spike Duplicate
LS-Laboratory Spike
MDL-Method Detection Limit
MS-Matrix Spike
MSD-Matrix Spike Duplicate
ND-Not Detected
ORG-Organic
QC-Quality Control
%R-Percent Recovery
REC-Recovery
RL-Reporting Limit
RPD-Relative Percent Difference
RRF-Relative Response Factor
RSD-Relative Standard Deviation
UCL-Upper Control Limit
UCO-Upper Cut Off

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Memorandum

Date:	22 January 2026
To:	Kristen Jurinko
From:	Matthew Richardson
CC:	Kristoffer Henderson
Subject:	**Stage 2A Data Validation - Level II Data Deliverable – Pace Analytical Services, LLC Project Number 92811478**

SITE: Plant Hammond AP-1

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation eleven groundwater samples, one field duplicate and one field blank, collected on 6-7 and 10 August 2025, as part of the Plant Hammond AP on-site sampling event.

The samples were analyzed at Pace Analytical Services, LLC, Greensburg, Pennsylvania, for the following analytical tests:

- Radium-226 by United States (US) Environmental Protection Agency (EPA) Method 9315
- Radium-228 by US EPA Method 9320
- Total Radium by Calculation

EXECUTIVE SUMMARY

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below and based on the information provided, the data as qualified are usable for supporting project objectives. The qualified data should be used within the limitations of the qualifications.

The data were reviewed based on the pertinent methods referenced in the laboratory reports, professional and technical judgment, and the following documents:

- US EPA Region IV Data Validation Standard Operating Procedures (US EPA Region IV, September 2011);
- USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review, November 2020 (EPA 542-R-20-006);
- Field Sampling Plan – All Sites, Georgia Power Company, Southern Company, January 2024, Revised May 2024; and

- Idaho National Engineering and Environmental Laboratory, RADIOANALYTICAL DATA VALIDATION, May 11, 2004 (GDE-205).

The following samples were analyzed and reported in the laboratory reports:

Laboratory IDs	Client IDs
92811478009	HAM-HGWC-7
92811478010	HAM-HGWC-8
92811478011	HAM-HGWC-10
92811478012	HAM-HGWC-11
92811478013	HAM-HGWC-12
92811478014	HAM-MW-19
92811478015	HAM-MW-20

Laboratory IDs	Client IDs
92811478016	HAM-MW-27D
92811478017	HAM-AP1-FD-01
92811478019	HAM-AP1-FB-01
92811478020	HAM-HGWC-9
92811478021	HAM-HGWC-13
92811478022	HAM-MW-24D

The samples were received within 0-6 degrees Celsius (°C). No sample preservation issues were noted by the laboratory.

The laboratory indicated sample HAM-AP1-EB-01 was lost during FedEx transit.

The laboratory report was revised to update the sample ID to HAM-MW-42D for laboratory ID 92811478022. The laboratory report was revised a second time to add the case narrative. The revisions were not given a revision number.

1.0 RADIOCHEMISTRY

The samples were analyzed for radium-226 by US EPA method 9315, radium-228 by US EPA method 9320 and total radium by calculation.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

⊗ Overall Assessment
✓ Holding Times
✓ Method Blank
✓ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Laboratory Duplicate
✓ Tracers and Carriers
⊗ Field Blank
✓ Equipment Blank
✓ Field Duplicate

✓ Sensitivity

1.1 Overall Assessment

The radium-226 and radium-228 data reported in this data set are considered usable for supporting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

1.1.1 Analysis Anomaly

Radium-228 was detected in sample HAM-HGWC-11 at a concentration greater than the minimum detectable concentration (MDC) and total radium was U flagged as less than the MDC. Since total radium is calculated from the combined radium 226 and 228 concentrations, and radium-228 was detected, the total radium result should be considered a detection greater than the MDC. Therefore, the U flag was removed for the total radium result in sample HAM-HGWC-11.

Sample ID	Compound	Laboratory Result (pCi/L)	Laboratory Flag	Validation Result (pCi/L)	Validation Qualifier*	DQM Reason Code**
HAM-HGWC-11	Combined Radium 226 + 228	1.50	U	1.50	NA	RO1

pCi/L-picocuries per liter
U-not detected at or above the MDC
NA-not applicable
* Validation qualifiers are defined in Attachment 1 at the end of this report
**Data Quality Module (DQM) reason codes are defined in Attachment 2 at the end of this report

1.2 Holding Times

The holding times for the radium-226 and radium-228 analyses of a water sample are 180 days from sample collection to analysis. The holding times were met for the sample analyses.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Method blanks were reported for the radium-226 and radium-228 data. Radium-226 and radium-228 were not detected in the method blanks at or above the measured 2σ uncertainty or the minimum detectable concentration (MDC).

1.4 Matrix Spike/Matrix Spike Duplicate (MS/MSD)

MS/MSD pairs were not reported with the sample set.

1.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). LCS/LCS duplicate (LCSD) pairs were reported for radium-226 and radium-228. The recovery and mean difference (MD) results were within the laboratory specified acceptance criteria.

However, the relative percent difference (RPD) for radium-226 in the LCS/LCSD pair in batch 763825 was high and outside of the laboratory specified acceptance criteria. Since the MD was acceptable and based on professional and technical judgment, no qualifications were applied to the data.

1.6 Laboratory Duplicate

Batch laboratory duplicates were reported with the sample set. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

1.7 Tracers and Carriers

Carriers were reported for the radium-226 and radium-228 analyses, and a tracer was reported for the radium-228 analyses. The recovery results were within the laboratory specified acceptance criteria.

1.8 Field Blank

One field blank, HAM-AP1-FB-01, was collected with the sample set and analyzed for radium-226 and radium-228. Radium-226 and radium-228 were not detected in the field blank at or above the measured 2σ uncertainty or the MDC, with the following exception.

Radium-228 (1.05 pCi/L) was detected in HAM-AP1-FB-01 at a concentration greater than the measured 2σ uncertainty. Therefore, the radium-228 and combined radium 226 + 228 results in sample HAM-HGWC-11 were UJ qualified as estimated.

Sample ID	Compound	Laboratory Result (pCi/L)	Laboratory Flag	Validation Result (pCi/L)	Validation Qualifier*	DQM Reason Code**
HAM-HGWC-11	Radium-228	1.26	NA	1.26	UJ	BF
HAM-HGWC-11	Combined Radium 226 + 228	1.50	U	1.50	UJ	BF

pCi/L-picocuries per liter
U-not detected at or above the MDC
NA-not applicable

1.9 Equipment Blank

An equipment blank, HAM-UGRD-EB-01, was collected with the sample set and reported in laboratory report 92811478. Radium-226 and radium-228 were not detected in the equipment blank at or above the measured 2σ uncertainty or the MDC.

1.10 Field Duplicate

One field duplicate sample, HAM-AP1-FD-01, was collected with the sample set. Acceptable precision (MD ≤ 3, RPD < 20%) was demonstrated between the field duplicate and the original sample, HAM-HGWC-8.

1.11 Sensitivity

The samples were reported to the MDCs. No elevated non-detect results were reported.

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ATTACHMENT 1
DATA VALIDATION QUALIFIER DEFINITIONS AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team

DATA QUALIFIER DEFINITIONS

U The analyte was analyzed for but was not detected above the reported sample quantitation limit. Upon application of the U qualifier to a reported result, the definition changes to "not detected at or above the reported result."

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

J+ The analyte was positively identified; however, the associated numerical value is likely to be higher than the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.

J- The analyte was positively identified; however, the associated numerical value is likely to be lower than the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec's Data Validation Team

DQM Reason Code	Description
AB1	> Samples in batch
AB2	QC sample missing
AB3	Batch analysis time exceeded
BAH	Contamination detected in the Ambient Blank greater than or equal to the Quantitation Limit.
BAL	Contamination detected in the Ambient Blank less than the Quantitation Limit.
BC	Calibration blank contamination
BC1	assoc. result < RL
BC2	assoc. result > RL < mult.
BC3	assoc. result > RL > mult.
BEH	Contamination detected in the Equipment Blank greater than or equal to the Quantitation Limit.
BEL	Contamination detected in the Equipment Blank less than the Quantitation Limit.
BF	Field blank contamination
BF1	assoc. result < RL
BF2	assoc. result > RL < mult.
BF3	assoc. result > RL > mult.
BFH	Contamination detected in the Field Blank greater than or equal to the Quantitation Limit.
BFL	Contamination detected in the Field Blank less than the Quantitation Limit.
BL	Laboratory blank contamination
BL1	assoc. result < RL
BL2	assoc. result > RL < mult.
BL3	assoc. result > RL > mult.
BLH	Contamination detected in the Lab Blank greater than or equal to the Quantitation Limit.
BLL	Contamination detected in the Lab Blank less than the Quantitation Limit.
BT	Trip blank contamination
BT1	assoc. result < RL
BT2	assoc. result > RL < mult.
BT3	assoc. result > RL > mult.
BTH	Contamination detected in the Trip Blank greater than or equal to the Quantitation Limit.
BTL	Contamination detected in the Trip Blank less than the Quantitation Limit.
CA1	Column difference
CC1	CCV %D
CC2	CCV %R
CC3	CCV RRF
CI1	IC RSD
CI2	IC RRF
CR1	Calibration range
CV1	ICV or CCV %D
CV2	ICV or CCV %R
CV3	ICV CCV RRF
DF1	Dilution Factor > 1
DL	Dilution Factor > 1

DQM Reason Code	Description
DVT1	The Dissolved Result > Total Result and the absolute difference > the AD_MULTIPLIER_CL * Detection Limit
DVT2	The Dissolved Result > Total Result and the absolute difference > AD_MULTIPLIER_UCO * Detection Limit
DVT3	The Dissolved Result > Total Result and the relative percent difference (RPD) > RPD_CL
DVT4	The Dissolved Result > Total Result and the relative percent difference (RPD) > RPD_UCO
ER1	MDL=<RESULT<RL (INORGANIC)
ER2	MDL=<RESULT<RL (ORGANIC)
FBC1	BLANK CONTAMINATION
FBC2	RESULT < BLANK * MULTIPLIER
FBC3	RESULT > BLANK * MULTIPLIER
FD1	Field duplicate RPD
FD2	Field duplicate abs. diff.
GHT1	GROSS_QUALIFIER_HIT
GHT2	GROSS_QUALIFIER_NON_DETECT
HP1	Hydrocarbon pattern
HT1	Holding time samp. to preservation
HT2	Holding time samp. to analysis
HT3	Holding time gros. samp. to pres.
HT4	Holding time gros. samp. to analysis
IS1	Internal standard
LBC1	BLANK CONTAMINATION

DQM Reason Code	Description
LBC2	RESULT < BLANK * MULTIPLIER
LBC3	RESULT > BLANK * MULTIPLIER
LD1	Lab duplicate RPD
LD2	Lab duplicate abs. diff.
LS1	LS %R
LS2	LS RPD
MS1	MS %R
MS2	MS RPD
MS3	Parent >4x spike
MS4	Spike diluted out
NP1	Non-Preferred Result
NR1	NUMERIC RESULTS
OT1	Other quality issue
PS1	BETWEEN CONTROL AND WARNING LIMITS
PS2	INVALID
PS3	LESS THAN LOWER CONTROL LIMIT
PS4	LESS THAN LOWER WARNING LIMIT
PT1	The preservative for this test id does not match the required preservative in RT_HOLDING_TIME.
RDL1	EXCEEDS REQUIRED DETECTION LIMIT
RL1	ND > project limit
RO1	Other rad. issue
RPD1	LCS/LCSD
RPD2	LCS/LCSD_NON_DETECT
RPD3	MS/MSD
RPD4	MS/MSD_NON_DETECT

DQM Reason Code	Description
RPD5	Orig/Dup
RPD6	Orig/Dup_NON_DETECT
RPDF1	FIELD DUPLICATE
RPDF2	FIELD DUPLICATE NON_DETECT
RQ1	Rad. quantitation issue
RR1	Repeated result same method
RR2	Repeated result diff. method
RSD1	RSD exceeds CL for LCS sample
RSD2	RSD exceeds CL for MS sample
RSD3	RSD exceeds CL for Lab sample
RSD4	RSD exceeds CL for Field sample
RY1	Tracer or carrier
SD1	Serial dilution
SO1	High moisture
SO2	Wet weight
SP1	Preservation, temp
SP2	Preservation, pH
SP3	Preservation, headspace
SPR1	BLANK SPIKE > UCL
SPR10	EarthSoft.DQM.SpikeRecovery2
SPR11	EarthSoft.DQM.SpikeRecovery2
SPR12	EarthSoft.DQM.SpikeRecovery2
SPR2	INORGANIC SPIKE > UCL
SPR3	ORGANIC SPIKE > UCL
SPR4	LCL > BLANK > LOW_CUTOFF
SPR5	LCL > INORG > LOW_CUTOFF
SPR6	LCL > ORG > LOW_CUTOFF
SPR7	BLANK SPIKE < LOW_CUTOFF

DQM Reason Code	Description
SPR8	INORGANIC SPIKE < LOW_CUTOFF
SPR9	ORGANIC SPIKE < LOW_CUTOFF
SU	Surrogate outlier
SU1	Surrogate
SU2	Surrogate diluted out
SURR1	ASSO. DETECTS OF LCL > REC > LOW_CUTOFF
SURR10	EarthSoft.DQM.SurrogateRecovery
SURR11	EarthSoft.DQM.SurrogateRecovery
SURR12	EarthSoft.DQM.SurrogateRecovery
SURR2	ASSO. DETECTS OF REC < LOW_CUTOFF
SURR3	ASSO. DETECTS OF REC > UCL
SURR4	ASSO. NDS OF LCL > REC > LOW_CUTOFF
SURR5	ASSO. NDS OF REC < LOW_CUTOFF
SURR6	ASSO. NDS OF REC > UCL
SURR7	LCL > REC > LOW_CUTOFF
SURR8	REC < LOW_CUTOFF
SURR9	REC > UCL
TBC1	BLANK CONTAMINATION
TBC2	RESULT < BLANK * MULTIPLIER
TBC3	RESULT > BLANK * MULTIPLIER
TR	Trace Detection
TR1	Trace detection
TRA1	Tracer is outside of UCL or LCL
TRA2	Associated result of a tracer less than the LCL
TRA3	Associated detect result of a tracer greater than the UCL
VC1	Canister vacuum
VC2	Canister contamination

DQM Reason Code	Description
VSU1	INVALID SAMPLE UNIT TYPE
VSU2	MISSING SAMPLE UNIT TYPE

DQM Reason Code	Description
VSU3	NON-DEFAULT RESULT UNIT

AD-Absolute Difference
CCV-Continuous Calibration Verification
CL-Control Limit
%D-Percent Difference
IC-Initial Calibration
ICV-Initial Calibration Verification
INORG-Inorganic
LCL-Lower Control Limit
LCS-Laboratory Control Spike
LCSD-Laboratory Control Spike Duplicate
LS-Laboratory Spike
MDL-Method Detection Limit
MS-Matrix Spike
MSD-Matrix Spike Duplicate
ND-Not Detected
ORG-Organic
QC-Quality Control
%R-Percent Recovery
REC-Recovery
RL-Reporting Limit
RPD-Relative Percent Difference
RRF-Relative Response Factor
RSD-Relative Standard Deviation
UCL-Upper Control Limit
UCO-Upper Cut Off

FIELD SAMPLING REPORTS

FEBRUARY 2025

Low-Flow Test Report:

Test Date / Time: 2/12/2025 12:53:42 PM
Project: GP-Plant Hammond
Operator Name: T. Kessler

Location Name: HGWA-1 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 22.49 ft** **Total Depth: 32.49 ft** **Initial Depth to Water: 16.98 ft**	**Pump Type: Bladder** **Tubing Type: Poly** **Pump Intake From TOC: 27.39 ft** **Estimated Total Volume Pumped: 7 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.67 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 989630**

Test Notes:
Eight bottles: Full App. III & IV and Major Ions.

Weather Conditions:
Rainy, 45 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
2/12/2025 12:53 PM	00:00	7.09 pH	15.83 °C	646.12 µS/cm	1.97 mg/L	1.09 NTU	79.4 mV	17.59 ft	200.00 ml/min
2/12/2025 12:58 PM	05:00	7.07 pH	16.14 °C	628.63 µS/cm	1.16 mg/L	1.09 NTU	54.3 mV	17.65 ft	200.00 ml/min
2/12/2025 1:03 PM	10:00	7.07 pH	16.14 °C	629.57 µS/cm	0.94 mg/L	0.41 NTU	45.1 mV	17.65 ft	200.00 ml/min
2/12/2025 1:08 PM	15:00	7.07 pH	16.28 °C	628.14 µS/cm	0.72 mg/L	0.49 NTU	39.7 mV	17.65 ft	200.00 ml/min
2/12/2025 1:13 PM	20:00	7.07 pH	16.19 °C	629.01 µS/cm	0.58 mg/L	0.44 NTU	35.9 mV	17.65 ft	200.00 ml/min
2/12/2025 1:18 PM	25:00	7.08 pH	16.07 °C	628.42 µS/cm	0.47 mg/L	0.29 NTU	32.8 mV	17.65 ft	200.00 ml/min
2/12/2025 1:23 PM	30:00	7.08 pH	16.01 °C	627.91 µS/cm	0.42 mg/L	0.95 NTU	30.5 mV	17.65 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-HGWA-1	Grab.

Low-Flow Test Report:

Test Date / Time: 2/14/2025 8:45:01 AM
Project: GP-Plant Hammond
Operator Name: Z. Webb

Location Name: HGWA-2 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 17.95 ft** **Total Depth: 27.95 ft** **Initial Depth to Water: 12.67 ft**	**Pump Type: Bladder** **Tubing Type: Polyethylene** **Pump Intake From TOC: 22.95 ft** **Estimated Total Volume Pumped: 7 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.06 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 883530**

Test Notes:
Eight bottles: Full App. III & IV and Major Ions.

Weather Conditions:
Clear, 40 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
2/14/2025 8:45 AM	00:00	6.38 pH	16.20 °C	414.61 µS/cm	4.04 mg/L	17.10 NTU	-119.5 mV	12.67 ft	200.00 ml/min
2/14/2025 8:50 AM	05:00	5.89 pH	16.57 °C	371.75 µS/cm	2.24 mg/L	8.02 NTU	226.6 mV	12.71 ft	200.00 ml/min
2/14/2025 8:55 AM	10:00	5.81 pH	15.46 °C	362.01 µS/cm	1.90 mg/L	5.86 NTU	287.1 mV	12.72 ft	200.00 ml/min
2/14/2025 9:00 AM	15:00	5.79 pH	15.44 °C	359.90 µS/cm	1.84 mg/L	3.45 NTU	320.0 mV	12.73 ft	200.00 ml/min
2/14/2025 9:05 AM	20:00	5.79 pH	15.44 °C	358.07 µS/cm	1.74 mg/L	2.21 NTU	279.2 mV	12.73 ft	200.00 ml/min
2/14/2025 9:10 AM	25:00	5.76 pH	15.45 °C	356.28 µS/cm	1.65 mg/L	1.27 NTU	291.6 mV	12.73 ft	200.00 ml/min
2/14/2025 9:15 AM	30:00	5.75 pH	15.57 °C	354.55 µS/cm	1.64 mg/L	1.13 NTU	371.8 mV	12.73 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-HGWA-2	Grab.
HAM-UGRD-FD-01	Grab.

Low-Flow Test Report:

Test Date / Time: 2/12/2025 1:55:33 PM
Project: GP-Plant Hammond
Operator Name: Z. Webb

Location Name: HGWA-3 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 34.51 ft** **Total Depth: 44.51 ft** **Initial Depth to Water: 13.25 ft**	**Pump Type: Bladder** **Tubing Type: Polyethylene** **Pump Intake From TOC: 39.51 ft** **Estimated Total Volume Pumped: 7 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.03 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 883530**

Test Notes:
Eight bottles: Full App. III & IV and Major Ions.

Weather Conditions:
Rain, 45 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
2/12/2025 1:55 PM	00:00	6.87 pH	15.36 °C	464.29 µS/cm	0.95 mg/L	42.60 NTU	-88.5 mV	13.25 ft	200.00 ml/min
2/12/2025 2:00 PM	05:00	7.13 pH	15.62 °C	461.05 µS/cm	0.57 mg/L	30.40 NTU	58.6 mV	13.28 ft	200.00 ml/min
2/12/2025 2:05 PM	10:00	7.23 pH	15.54 °C	464.54 µS/cm	0.28 mg/L	14.10 NTU	107.6 mV	13.28 ft	200.00 ml/min
2/12/2025 2:10 PM	15:00	7.29 pH	15.67 °C	464.64 µS/cm	0.21 mg/L	9.83 NTU	36.0 mV	13.28 ft	200.00 ml/min
2/12/2025 2:15 PM	20:00	7.32 pH	15.67 °C	463.65 µS/cm	0.19 mg/L	4.20 NTU	76.3 mV	13.28 ft	200.00 ml/min
2/12/2025 2:20 PM	25:00	7.35 pH	15.80 °C	463.95 µS/cm	0.18 mg/L	3.26 NTU	7.5 mV	13.28 ft	200.00 ml/min
2/12/2025 2:25 PM	30:00	7.37 pH	15.74 °C	461.15 µS/cm	0.18 mg/L	2.88 NTU	-5.1 mV	13.28 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-HGWA-3	Grab.

Low-Flow Test Report:

Test Date / Time: 2/14/2025 10:31:58 AM
Project: GP-Plant Hammond
Operator Name: Z. Webb

Location Name: HGWA-3 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 34.51 ft** **Total Depth: 44.51 ft** **Initial Depth to Water: 12.02 ft**	**Pump Type: Bladder** **Tubing Type: Polyethylene** **Pump Intake From TOC: 39.51 ft** **Estimated Total Volume Pumped: 7 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.02 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 883530**

Test Notes:
Two Bottles: RADs

Weather Conditions:
Clear, 40 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
2/14/2025 10:31 AM	00:00	7.14 pH	15.18 °C	452.21 µS/cm	1.61 mg/L	4.85 NTU	-289.2 mV	12.02 ft	200.00 ml/min
2/14/2025 10:36 AM	05:00	7.30 pH	15.17 °C	454.20 µS/cm	0.70 mg/L	3.78 NTU	-20.6 mV	12.03 ft	200.00 ml/min
2/14/2025 10:41 AM	10:00	7.36 pH	15.58 °C	453.24 µS/cm	0.49 mg/L	2.02 NTU	79.8 mV	12.04 ft	200.00 ml/min
2/14/2025 10:46 AM	15:00	7.40 pH	15.72 °C	451.95 µS/cm	0.39 mg/L	1.71 NTU	117.4 mV	12.04 ft	200.00 ml/min
2/14/2025 10:51 AM	20:00	7.42 pH	16.03 °C	451.50 µS/cm	0.32 mg/L	1.46 NTU	136.1 mV	12.04 ft	200.00 ml/min
2/14/2025 10:56 AM	25:00	7.43 pH	15.98 °C	449.86 µS/cm	0.28 mg/L	1.13 NTU	147.8 mV	12.04 ft	200.00 ml/min
2/14/2025 11:01 AM	30:00	7.45 pH	15.94 °C	449.67 µS/cm	0.30 mg/L	0.74 NTU	140.5 mV	12.04 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-HGWA-3	Grab.

Low-Flow Test Report:

Test Date / Time: 2/12/2025 2:15:18 PM
Project: GP-Plant Hammond
Operator Name: T. Kessler

Location Name: HGWA-43D **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 51.25 ft** **Total Depth: 61.25 ft** **Initial Depth to Water: 16.75 ft**	**Pump Type: Bladder** **Tubing Type: Poly** **Pump Intake From TOC: 56.25 ft** **Estimated Total Volume Pumped: 7 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 3.05 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 989630**

Test Notes:
Eight bottles: Full App. III & IV and Major Ions.

Weather Conditions:
Rainy, 41 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
2/12/2025 2:15 PM	00:00	7.52 pH	15.50 °C	517.39 µS/cm	1.34 mg/L	0.46 NTU	-12.2 mV	18.15 ft	200.00 ml/min
2/12/2025 2:20 PM	05:00	7.53 pH	15.97 °C	514.97 µS/cm	1.00 mg/L	1.66 NTU	-40.3 mV	18.80 ft	200.00 ml/min
2/12/2025 2:25 PM	10:00	7.52 pH	16.04 °C	512.21 µS/cm	0.83 mg/L	0.70 NTU	-71.4 mV	19.20 ft	200.00 ml/min
2/12/2025 2:30 PM	15:00	7.51 pH	16.05 °C	508.21 µS/cm	0.92 mg/L	0.54 NTU	-78.6 mV	19.50 ft	200.00 ml/min
2/12/2025 2:35 PM	20:00	7.50 pH	15.97 °C	502.71 µS/cm	0.76 mg/L	1.04 NTU	-82.5 mV	19.65 ft	200.00 ml/min
2/12/2025 2:40 PM	25:00	7.50 pH	16.06 °C	498.37 µS/cm	0.68 mg/L	0.69 NTU	-85.8 mV	19.70 ft	200.00 ml/min
2/12/2025 2:45 PM	30:00	7.50 pH	16.11 °C	494.68 µS/cm	0.77 mg/L	0.59 NTU	-88.4 mV	19.80 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-HGWA-43D	Grab.

Low-Flow Test Report:

Test Date / Time: 2/12/2025 1:38:08 PM
Project: GP- Plant Hammond
Operator Name: A. Tomlinson

Location Name: HGWA-44D **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 103.5 ft** **Total Depth: 113.5 ft** **Initial Depth to Water: 18.09 ft**	**Pump Type: Bladder** **Tubing Type: Poly** **Pump Intake From TOC: 108.5 ft** **Estimated Total Volume Pumped: 25 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 2.95 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850735**

Test Notes:
Eight bottles: Full App. III & IV and Major Ions.

Weather Conditions:
Cloudy, rain, 46 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
2/12/2025 1:38 PM	00:00	8.36 pH	15.11 °C	618.96 µS/cm	1.18 mg/L	44.90 NTU	-120.6 mV	18.32 ft	200.00 ml/min
2/12/2025 1:43 PM	05:00	8.41 pH	15.29 °C	614.67 µS/cm	0.52 mg/L	17.80 NTU	-188.7 mV	18.74 ft	200.00 ml/min
2/12/2025 1:48 PM	10:00	8.42 pH	15.34 °C	609.29 µS/cm	0.38 mg/L	14.50 NTU	-170.8 mV	19.19 ft	200.00 ml/min
2/12/2025 1:53 PM	15:00	8.43 pH	15.38 °C	606.41 µS/cm	0.33 mg/L	12.00 NTU	-174.8 mV	19.53 ft	200.00 ml/min
2/12/2025 1:58 PM	20:00	8.45 pH	15.30 °C	602.57 µS/cm	0.30 mg/L	10.30 NTU	-180.4 mV	19.82 ft	200.00 ml/min
2/12/2025 2:03 PM	25:00	8.45 pH	15.25 °C	602.49 µS/cm	0.27 mg/L	14.70 NTU	-185.4 mV	20.04 ft	200.00 ml/min
2/12/2025 2:08 PM	30:00	8.46 pH	15.08 °C	603.77 µS/cm	0.25 mg/L	15.60 NTU	-189.2 mV	20.20 ft	200.00 ml/min
2/12/2025 2:13 PM	35:00	8.46 pH	15.12 °C	609.66 µS/cm	0.23 mg/L	17.20 NTU	-192.3 mV	20.35 ft	200.00 ml/min
2/12/2025 2:18 PM	40:00	8.47 pH	15.17 °C	607.40 µS/cm	0.22 mg/L	16.10 NTU	-195.4 mV	20.48 ft	200.00 ml/min
2/12/2025 2:23 PM	45:00	8.47 pH	15.16 °C	610.34 µS/cm	0.21 mg/L	13.60 NTU	-198.4 mV	20.60 ft	200.00 ml/min
2/12/2025 2:28 PM	50:00	8.47 pH	15.08 °C	614.50 µS/cm	0.19 mg/L	14.10 NTU	-199.9 mV	20.68 ft	200.00 ml/min
2/12/2025 2:33 PM	55:00	8.49 pH	15.07 °C	609.60 µS/cm	0.18 mg/L	13.00 NTU	-201.7 mV	20.74 ft	200.00 ml/min
2/12/2025 2:38 PM	01:00:00	8.48 pH	15.06 °C	608.21 µS/cm	0.18 mg/L	11.50 NTU	-202.4 mV	20.82 ft	200.00 ml/min

2/12/2025 2:43 PM	01:05:00	8.48 pH	15.12 °C	605.71 µS/cm	0.17 mg/L	13.10 NTU	-205.7 mV	20.94 ft	200.00 ml/min
2/12/2025 2:48 PM	01:10:00	8.48 pH	15.28 °C	611.77 µS/cm	0.15 mg/L	11.70 NTU	-207.6 mV	20.94 ft	200.00 ml/min
2/12/2025 2:53 PM	01:15:00	8.47 pH	15.17 °C	613.52 µS/cm	0.14 mg/L	14.60 NTU	-230.5 mV	20.94 ft	200.00 ml/min
2/12/2025 2:58 PM	01:20:00	8.46 pH	15.21 °C	613.83 µS/cm	0.13 mg/L	23.90 NTU	-209.7 mV	20.94 ft	200.00 ml/min
2/12/2025 3:03 PM	01:25:00	8.47 pH	15.16 °C	610.38 µS/cm	0.12 mg/L	10.50 NTU	-210.3 mV	20.98 ft	200.00 ml/min
2/12/2025 3:08 PM	01:30:00	8.47 pH	15.03 °C	609.37 µS/cm	0.12 mg/L	11.00 NTU	-212.1 mV	20.98 ft	200.00 ml/min
2/12/2025 3:13 PM	01:35:00	8.47 pH	14.96 °C	612.20 µS/cm	0.12 mg/L	9.80 NTU	-211.7 mV	21.04 ft	200.00 ml/min
2/12/2025 3:18 PM	01:40:00	8.48 pH	15.12 °C	612.90 µS/cm	0.11 mg/L	9.07 NTU	-214.9 mV	21.04 ft	200.00 ml/min
2/12/2025 3:23 PM	01:45:00	8.48 pH	15.14 °C	611.10 µS/cm	0.10 mg/L	7.94 NTU	-213.9 mV	21.04 ft	200.00 ml/min
2/12/2025 3:28 PM	01:50:00	8.48 pH	15.12 °C	612.07 µS/cm	0.10 mg/L	8.16 NTU	-214.6 mV	21.04 ft	200.00 ml/min
2/12/2025 3:33 PM	01:55:00	8.48 pH	15.21 °C	610.21 µS/cm	0.10 mg/L	6.88 NTU	-215.8 mV	21.04 ft	200.00 ml/min
2/12/2025 3:38 PM	02:00:00	8.49 pH	15.08 °C	608.44 µS/cm	0.09 mg/L	4.61 NTU	-216.3 mV	21.04 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-HGWA-44D	Grab.

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 2/16/2025 11:20:53 AM
Project: GP- Plant Hammond
Operator Name: A. Tomlinson

Location Name: HGWC-7 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 17.96 ft** **Total Depth: 27.96 ft** **Initial Depth to Water: 9.08 ft**	**Pump Type: Peristaltic** **Tubing Type: Poly** **Pump Intake From TOC: 22.96 ft** **Estimated Total Volume Pumped: 7 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.08 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850735**

Test Notes:
Eight bottles: Full App. III & IV and Major Ions.

Weather Conditions:
Cloudy, 48 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
2/16/2025 11:20 AM	00:00	7.51 pH	16.47 °C	633.56 µS/cm	0.49 mg/L	2.51 NTU	-7.8 mV	9.16 ft	200.00 ml/min
2/16/2025 11:25 AM	05:00	7.44 pH	16.29 °C	635.53 µS/cm	0.33 mg/L	1.43 NTU	5.1 mV	9.16 ft	200.00 ml/min
2/16/2025 11:30 AM	10:00	7.43 pH	16.22 °C	638.18 µS/cm	0.26 mg/L	1.04 NTU	9.9 mV	9.16 ft	200.00 ml/min
2/16/2025 11:35 AM	15:00	7.42 pH	16.24 °C	638.80 µS/cm	0.22 mg/L	1.08 NTU	12.3 mV	9.16 ft	200.00 ml/min
2/16/2025 11:40 AM	20:00	7.42 pH	16.52 °C	637.85 µS/cm	0.18 mg/L	0.94 NTU	13.7 mV	9.16 ft	200.00 ml/min
2/16/2025 11:45 AM	25:00	7.42 pH	16.76 °C	633.83 µS/cm	0.18 mg/L	0.60 NTU	14.8 mV	9.16 ft	200.00 ml/min
2/16/2025 11:50 AM	30:00	7.41 pH	16.55 °C	632.16 µS/cm	0.17 mg/L	0.80 NTU	16.4 mV	9.16 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-HGWC-7	Grab.

Low-Flow Test Report:

Test Date / Time: 2/15/2025 3:43:18 PM
Project: GP- Plant Hammond
Operator Name: A. Tomlinson

Location Name: HGWC-8 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 15.51 ft** **Total Depth: 25.51 ft** **Initial Depth to Water: 12.9 ft**	**Pump Type: Peristaltic** **Tubing Type: Poly** **Pump Intake From TOC: 20.51 ft** **Estimated Total Volume Pumped: 8 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.4 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850735**

Test Notes:
Eight bottles: Full App. III & IV and Major Ions.

Weather Conditions:
Cloudy, 60 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
2/15/2025 3:43 PM	00:00	7.30 pH	17.06 °C	430.84 µS/cm	0.33 mg/L	3.29 NTU	111.3 mV	13.25 ft	200.00 ml/min
2/15/2025 3:48 PM	05:00	6.62 pH	17.09 °C	446.29 µS/cm	0.25 mg/L	1.20 NTU	121.1 mV	13.27 ft	200.00 ml/min
2/15/2025 3:53 PM	10:00	6.40 pH	17.18 °C	464.18 µS/cm	0.22 mg/L	0.89 NTU	69.4 mV	13.30 ft	200.00 ml/min
2/15/2025 3:58 PM	15:00	6.40 pH	17.23 °C	485.60 µS/cm	0.18 mg/L	1.62 NTU	56.4 mV	13.30 ft	200.00 ml/min
2/15/2025 4:03 PM	20:00	6.41 pH	17.27 °C	498.80 µS/cm	0.17 mg/L	1.91 NTU	48.4 mV	13.30 ft	200.00 ml/min
2/15/2025 4:08 PM	25:00	6.48 pH	17.32 °C	517.62 µS/cm	0.15 mg/L	1.46 NTU	42.0 mV	13.30 ft	200.00 ml/min
2/15/2025 4:13 PM	30:00	6.52 pH	17.36 °C	530.08 µS/cm	0.13 mg/L	1.22 NTU	37.3 mV	13.30 ft	200.00 ml/min
2/15/2025 4:18 PM	35:00	6.54 pH	17.41 °C	538.34 µS/cm	0.12 mg/L	0.84 NTU	34.6 mV	13.30 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-HGWC-8	Grab.

Low-Flow Test Report:

Test Date / Time: 2/15/2025 9:00:20 AM
Project: GP- Plant Hammond
Operator Name: A. Tomlinson

Location Name: HGWC-9 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 36.97 ft** **Total Depth: 46.97 ft** **Initial Depth to Water: 9.38 ft**	**Pump Type: Peristaltic** **Tubing Type: Poly** **Pump Intake From TOC: 41.97 ft** **Estimated Total Volume Pumped: 12 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.07 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850735**

Test Notes:
Eight bottles: Full App III & IV and Major Ions.

Weather Conditions:
Cloudy, 46 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
2/15/2025 9:00 AM	00:00	6.45 pH	15.66 °C	882.18 µS/cm	0.49 mg/L	1.88 NTU	66.2 mV	9.45 ft	200.00 ml/min
2/15/2025 9:05 AM	05:00	6.52 pH	15.84 °C	885.41 µS/cm	0.32 mg/L	1.70 NTU	60.7 mV	9.45 ft	200.00 ml/min
2/15/2025 9:10 AM	10:00	6.56 pH	15.93 °C	884.61 µS/cm	0.23 mg/L	1.37 NTU	36.8 mV	9.45 ft	200.00 ml/min
2/15/2025 9:15 AM	15:00	6.58 pH	15.96 °C	885.70 µS/cm	0.18 mg/L	1.35 NTU	31.6 mV	9.45 ft	200.00 ml/min
2/15/2025 9:20 AM	20:00	6.61 pH	16.19 °C	889.35 µS/cm	0.14 mg/L	1.33 NTU	28.5 mV	9.45 ft	200.00 ml/min
2/15/2025 9:25 AM	25:00	6.65 pH	16.17 °C	896.66 µS/cm	0.13 mg/L	1.92 NTU	25.4 mV	9.45 ft	200.00 ml/min
2/15/2025 9:30 AM	30:00	6.71 pH	16.19 °C	913.09 µS/cm	0.12 mg/L	1.35 NTU	22.9 mV	9.45 ft	200.00 ml/min
2/15/2025 9:35 AM	35:00	6.80 pH	16.28 °C	927.19 µS/cm	0.11 mg/L	2.44 NTU	18.0 mV	9.45 ft	200.00 ml/min
2/15/2025 9:40 AM	40:00	6.88 pH	16.15 °C	937.49 µS/cm	0.11 mg/L	1.03 NTU	14.6 mV	9.45 ft	200.00 ml/min
2/15/2025 9:45 AM	45:00	6.95 pH	16.14 °C	947.21 µS/cm	0.10 mg/L	0.83 NTU	11.5 mV	9.45 ft	200.00 ml/min
2/15/2025 9:50 AM	50:00	6.99 pH	16.20 °C	953.50 µS/cm	0.10 mg/L	0.92 NTU	10.2 mV	9.45 ft	200.00 ml/min
2/15/2025 9:55 AM	55:00	7.03 pH	16.26 °C	957.29 µS/cm	0.09 mg/L	0.66 NTU	8.9 mV	9.45 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-HGWC-9	Grab.

Low-Flow Test Report:

Test Date / Time: 2/14/2025 9:25:19 AM
Project: GP- Plant Hammond
Operator Name: A. Tomlinson

Location Name: HGWC-10 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 12.94 ft** **Total Depth: 22.94 ft** **Initial Depth to Water: 7.6 ft**	**Pump Type: Peristaltic** **Tubing Type: Poly** **Pump Intake From TOC: 17.94 ft** **Estimated Total Volume Pumped: 35 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.02 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850735**

Test Notes:
Eight bottles: Full App. III & IV and Major Ions.

Weather Conditions:
Clear, 34 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
2/14/2025 9:25 AM	00:00	7.22 pH	13.33 °C	243.34 µS/cm	5.36 mg/L	10.20 NTU	86.9 mV	7.62 ft	200.00 ml/min
2/14/2025 9:30 AM	05:00	7.00 pH	13.35 °C	243.94 µS/cm	5.26 mg/L	10.21 NTU	89.8 mV	7.62 ft	200.00 ml/min
2/14/2025 9:35 AM	10:00	6.89 pH	13.49 °C	244.04 µS/cm	5.20 mg/L	10.31 NTU	61.7 mV	7.62 ft	200.00 ml/min
2/14/2025 9:40 AM	15:00	6.85 pH	13.70 °C	244.92 µS/cm	5.16 mg/L	10.01 NTU	59.9 mV	7.62 ft	200.00 ml/min
2/14/2025 9:45 AM	20:00	6.82 pH	13.59 °C	245.34 µS/cm	5.12 mg/L	10.22 NTU	59.6 mV	7.62 ft	200.00 ml/min
2/14/2025 9:50 AM	25:00	6.81 pH	13.78 °C	245.46 µS/cm	5.06 mg/L	9.64 NTU	82.8 mV	7.62 ft	200.00 ml/min
2/14/2025 9:55 AM	30:00	6.80 pH	13.98 °C	244.58 µS/cm	4.97 mg/L	9.30 NTU	58.7 mV	7.62 ft	200.00 ml/min
2/14/2025 10:00 AM	35:00	6.80 pH	13.85 °C	245.70 µS/cm	4.95 mg/L	9.00 NTU	80.0 mV	7.62 ft	200.00 ml/min
2/14/2025 10:05 AM	40:00	6.79 pH	13.97 °C	247.36 µS/cm	4.92 mg/L	8.72 NTU	56.4 mV	7.62 ft	200.00 ml/min
2/14/2025 10:10 AM	45:00	6.80 pH	13.81 °C	249.40 µS/cm	4.92 mg/L	8.68 NTU	78.3 mV	7.62 ft	200.00 ml/min
2/14/2025 10:15 AM	50:00	6.79 pH	13.69 °C	251.77 µS/cm	4.90 mg/L	8.60 NTU	78.2 mV	7.62 ft	200.00 ml/min
2/14/2025 10:20 AM	55:00	6.78 pH	14.06 °C	255.12 µS/cm	4.79 mg/L	8.12 NTU	55.1 mV	7.62 ft	200.00 ml/min
2/14/2025 10:25 AM	01:00:00	6.77 pH	14.31 °C	258.09 µS/cm	4.76 mg/L	8.38 NTU	53.6 mV	7.62 ft	200.00 ml/min

2/14/2025 10:30 AM	01:05:00	6.79 pH	14.49 °C	260.16 µS/cm	4.69 mg/L	7.74 NTU	53.2 mV	7.62 ft	200.00 ml/min
2/14/2025 10:35 AM	01:10:00	6.77 pH	14.67 °C	264.52 µS/cm	4.59 mg/L	7.61 NTU	52.7 mV	7.62 ft	200.00 ml/min
2/14/2025 10:40 AM	01:15:00	6.77 pH	14.69 °C	267.25 µS/cm	4.50 mg/L	7.48 NTU	51.9 mV	7.62 ft	200.00 ml/min
2/14/2025 10:45 AM	01:20:00	6.78 pH	14.46 °C	271.08 µS/cm	4.48 mg/L	7.22 NTU	73.2 mV	7.62 ft	200.00 ml/min
2/14/2025 10:50 AM	01:25:00	6.76 pH	14.13 °C	275.69 µS/cm	4.48 mg/L	7.24 NTU	51.1 mV	7.62 ft	200.00 ml/min
2/14/2025 10:55 AM	01:30:00	6.76 pH	14.30 °C	276.25 µS/cm	4.48 mg/L	7.02 NTU	50.7 mV	7.62 ft	200.00 ml/min
2/14/2025 11:00 AM	01:35:00	6.78 pH	14.24 °C	281.68 µS/cm	4.42 mg/L	6.84 NTU	50.0 mV	7.62 ft	200.00 ml/min
2/14/2025 11:05 AM	01:40:00	6.78 pH	14.44 °C	281.26 µS/cm	4.41 mg/L	6.61 NTU	70.8 mV	7.62 ft	200.00 ml/min
2/14/2025 11:10 AM	01:45:00	6.77 pH	14.44 °C	287.21 µS/cm	4.33 mg/L	6.53 NTU	49.8 mV	7.62 ft	200.00 ml/min
2/14/2025 11:15 AM	01:50:00	6.77 pH	14.40 °C	285.61 µS/cm	4.33 mg/L	6.71 NTU	49.1 mV	7.62 ft	200.00 ml/min
2/14/2025 11:20 AM	01:55:00	6.76 pH	14.24 °C	292.97 µS/cm	5.29 mg/L	6.96 NTU	80.9 mV	7.62 ft	200.00 ml/min
2/14/2025 11:25 AM	02:00:00	6.77 pH	14.40 °C	296.07 µS/cm	4.26 mg/L	6.83 NTU	69.6 mV	7.62 ft	200.00 ml/min
2/14/2025 11:30 AM	02:05:00	6.74 pH	14.50 °C	294.99 µS/cm	4.31 mg/L	6.78 NTU	49.4 mV	7.62 ft	200.00 ml/min
2/14/2025 11:35 AM	02:10:00	6.77 pH	14.54 °C	301.53 µS/cm	4.19 mg/L	6.55 NTU	68.4 mV	7.62 ft	200.00 ml/min
2/14/2025 11:40 AM	02:15:00	6.78 pH	14.70 °C	299.94 µS/cm	4.11 mg/L	6.72 NTU	47.8 mV	7.62 ft	200.00 ml/min
2/14/2025 11:45 AM	02:20:00	6.74 pH	14.65 °C	307.26 µS/cm	4.03 mg/L	6.87 NTU	46.9 mV	7.62 ft	200.00 ml/min
2/14/2025 11:50 AM	02:25:00	6.77 pH	14.58 °C	302.35 µS/cm	4.13 mg/L	6.72 NTU	46.7 mV	7.62 ft	200.00 ml/min
2/14/2025 11:55 AM	02:30:00	6.76 pH	14.70 °C	303.10 µS/cm	4.14 mg/L	6.88 NTU	67.1 mV	7.62 ft	200.00 ml/min
2/14/2025 12:00 PM	02:35:00	6.76 pH	14.80 °C	312.89 µS/cm	3.93 mg/L	6.40 NTU	47.3 mV	7.62 ft	200.00 ml/min
2/14/2025 12:05 PM	02:40:00	6.78 pH	15.04 °C	310.55 µS/cm	3.98 mg/L	5.84 NTU	46.2 mV	7.62 ft	200.00 ml/min
2/14/2025 12:10 PM	02:45:00	6.76 pH	14.94 °C	314.83 µS/cm	3.94 mg/L	5.45 NTU	46.2 mV	7.62 ft	200.00 ml/min
2/14/2025 12:15 PM	02:50:00	6.77 pH	14.89 °C	315.86 µS/cm	3.93 mg/L	4.08 NTU	65.4 mV	7.62 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-HGWC-10	Grab.

Low-Flow Test Report:

Test Date / Time: 2/13/2025 2:58:52 PM
Project: GP- Plant Hammond
Operator Name: A. Tomlinson

Location Name: HGWC-11 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 15.78 ft** **Total Depth: 25.78 ft** **Initial Depth to Water: 13.24 ft**	**Pump Type: Peristaltic** **Tubing Type: Poly** **Pump Intake From TOC: 20.78 ft** **Estimated Total Volume Pumped: 7 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.06 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850735**

Test Notes:
Eight bottles: Full App. III & IV and Major Ions.

Weather Conditions:
Clear, 54 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
2/13/2025 2:58 PM	00:00	6.70 pH	17.80 °C	743.32 µS/cm	1.08 mg/L	0.78 NTU	32.4 mV	13.30 ft	200.00 ml/min
2/13/2025 3:03 PM	05:00	6.64 pH	17.63 °C	743.98 µS/cm	0.76 mg/L	0.88 NTU	47.4 mV	13.30 ft	200.00 ml/min
2/13/2025 3:08 PM	10:00	6.61 pH	17.59 °C	730.10 µS/cm	0.79 mg/L	0.70 NTU	42.1 mV	13.30 ft	200.00 ml/min
2/13/2025 3:13 PM	15:00	6.60 pH	17.48 °C	734.37 µS/cm	0.71 mg/L	0.63 NTU	43.0 mV	13.30 ft	200.00 ml/min
2/13/2025 3:18 PM	20:00	6.60 pH	17.50 °C	749.30 µS/cm	0.70 mg/L	0.93 NTU	43.3 mV	13.30 ft	200.00 ml/min
2/13/2025 3:23 PM	25:00	6.60 pH	17.54 °C	729.43 µS/cm	0.73 mg/L	0.92 NTU	43.5 mV	13.30 ft	200.00 ml/min
2/13/2025 3:28 PM	30:00	6.60 pH	17.54 °C	733.28 µS/cm	0.68 mg/L	0.93 NTU	43.6 mV	13.30 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-HGWC-11	Grab.

Low-Flow Test Report:

Test Date / Time: 2/13/2025 12:52:09 PM
Project: GP- Plant Hammond
Operator Name: A. Tomlinson

Location Name: HGWC-12 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 25.42 ft** **Total Depth: 35.42 ft** **Initial Depth to Water: 13.4 ft**	**Pump Type: Bladder** **Tubing Type: Poly** **Pump Intake From TOC: 30.42 ft** **Estimated Total Volume Pumped: 7 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850735**

Test Notes:
Eight bottles: Full App. III & IV and Major Ions.

Weather Conditions:
Clear, 54 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
2/13/2025 12:52 PM	00:00	7.76 pH	18.62 °C	893.44 µS/cm	5.47 mg/L	62.70 NTU	67.6 mV	13.40 ft	200.00 ml/min
2/13/2025 12:57 PM	05:00	7.16 pH	18.52 °C	910.82 µS/cm	1.38 mg/L	38.40 NTU	39.5 mV	13.40 ft	200.00 ml/min
2/13/2025 1:02 PM	10:00	7.06 pH	18.54 °C	918.40 µS/cm	0.42 mg/L	22.00 NTU	35.3 mV	13.40 ft	200.00 ml/min
2/13/2025 1:07 PM	15:00	7.04 pH	18.60 °C	917.72 µS/cm	0.25 mg/L	15.70 NTU	27.8 mV	13.40 ft	200.00 ml/min
2/13/2025 1:12 PM	20:00	7.04 pH	18.57 °C	918.67 µS/cm	0.19 mg/L	10.20 NTU	25.6 mV	13.40 ft	200.00 ml/min
2/13/2025 1:17 PM	25:00	7.03 pH	18.61 °C	920.65 µS/cm	0.17 mg/L	6.25 NTU	24.7 mV	13.40 ft	200.00 ml/min
2/13/2025 1:22 PM	30:00	7.04 pH	18.61 °C	920.75 µS/cm	0.15 mg/L	4.66 NTU	24.1 mV	13.40 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-HGWC-12	Grab.

Low-Flow Test Report:

Test Date / Time: 2/17/2025 10:20:31 AM
Project: GP- Plant Hammond
Operator Name: A. Tomlinson

Location Name: HGWC-13 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 35.15 ft** **Total Depth: 45.15 ft** **Initial Depth to Water: 29.05 ft**	**Pump Type: Bladder** **Tubing Type: Poly** **Pump Intake From TOC: 40.15 ft** **Estimated Total Volume Pumped: 36 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.05 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850735**

Test Notes:
Eight bottles: Full App. III & IV and Major Ions.

Weather Conditions:
Sunny, 35 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
2/17/2025 10:20 AM	00:00	7.16 pH	16.54 °C	759.45 µS/cm	3.02 mg/L	469.00 NTU	-38.4 mV	29.05 ft	200.00 ml/min
2/17/2025 10:25 AM	05:00	7.12 pH	17.14 °C	740.49 µS/cm	3.77 mg/L	455.00 NTU	-40.5 mV	29.05 ft	200.00 ml/min
2/17/2025 10:30 AM	10:00	7.17 pH	17.32 °C	730.39 µS/cm	4.90 mg/L	352.00 NTU	-29.3 mV	29.05 ft	200.00 ml/min
2/17/2025 10:35 AM	15:00	7.16 pH	17.54 °C	729.84 µS/cm	3.95 mg/L	240.00 NTU	-26.5 mV	29.05 ft	200.00 ml/min
2/17/2025 10:40 AM	20:00	7.13 pH	17.63 °C	730.72 µS/cm	2.93 mg/L	170.00 NTU	-45.1 mV	29.05 ft	200.00 ml/min
2/17/2025 10:45 AM	25:00	7.12 pH	17.52 °C	731.89 µS/cm	2.39 mg/L	146.00 NTU	-55.0 mV	29.05 ft	200.00 ml/min
2/17/2025 10:50 AM	30:00	7.11 pH	17.50 °C	736.05 µS/cm	2.17 mg/L	112.00 NTU	-50.4 mV	29.05 ft	200.00 ml/min
2/17/2025 10:55 AM	35:00	7.10 pH	17.54 °C	736.04 µS/cm	2.04 mg/L	72.10 NTU	-55.3 mV	29.05 ft	200.00 ml/min
2/17/2025 11:00 AM	40:00	7.11 pH	17.54 °C	735.03 µS/cm	2.12 mg/L	61.20 NTU	-71.6 mV	29.05 ft	200.00 ml/min
2/17/2025 11:05 AM	45:00	7.11 pH	17.70 °C	735.38 µS/cm	2.17 mg/L	64.10 NTU	-62.0 mV	29.05 ft	200.00 ml/min
2/17/2025 11:10 AM	50:00	7.11 pH	17.73 °C	736.56 µS/cm	2.16 mg/L	60.00 NTU	-65.1 mV	29.05 ft	200.00 ml/min
2/17/2025 11:15 AM	55:00	7.11 pH	17.72 °C	736.98 µS/cm	2.06 mg/L	56.40 NTU	-67.5 mV	29.05 ft	200.00 ml/min
2/17/2025 11:20 AM	01:00:00	7.11 pH	17.70 °C	739.58 µS/cm	1.81 mg/L	48.60 NTU	-83.4 mV	29.05 ft	200.00 ml/min

2/17/2025 11:25 AM	01:05:00	7.11 pH	17.81 °C	738.61 µS/cm	1.88 mg/L	46.40 NTU	-71.8 mV	29.05 ft	200.00 ml/min
2/17/2025 11:30 AM	01:10:00	7.11 pH	17.73 °C	738.27 µS/cm	1.76 mg/L	44.50 NTU	-73.2 mV	29.05 ft	200.00 ml/min
2/17/2025 11:35 AM	01:15:00	7.10 pH	17.88 °C	741.30 µS/cm	1.64 mg/L	39.60 NTU	-74.8 mV	29.05 ft	200.00 ml/min
2/17/2025 11:40 AM	01:20:00	7.11 pH	17.94 °C	738.26 µS/cm	1.56 mg/L	34.50 NTU	-76.9 mV	29.05 ft	200.00 ml/min
2/17/2025 11:45 AM	01:25:00	7.10 pH	17.94 °C	740.70 µS/cm	1.51 mg/L	33.20 NTU	-78.1 mV	29.05 ft	200.00 ml/min
2/17/2025 11:50 AM	01:30:00	7.10 pH	17.88 °C	741.85 µS/cm	1.21 mg/L	25.40 NTU	-93.6 mV	29.05 ft	200.00 ml/min
2/17/2025 11:55 AM	01:35:00	7.10 pH	17.90 °C	742.00 µS/cm	1.06 mg/L	23.60 NTU	-82.7 mV	29.05 ft	200.00 ml/min
2/17/2025 12:00 PM	01:40:00	7.10 pH	17.99 °C	739.99 µS/cm	1.10 mg/L	24.40 NTU	-82.5 mV	29.05 ft	200.00 ml/min
2/17/2025 12:05 PM	01:45:00	7.11 pH	18.12 °C	740.24 µS/cm	1.10 mg/L	24.30 NTU	-83.3 mV	29.05 ft	200.00 ml/min
2/17/2025 12:10 PM	01:50:00	7.11 pH	17.99 °C	740.22 µS/cm	1.11 mg/L	21.20 NTU	-82.9 mV	29.05 ft	200.00 ml/min
2/17/2025 12:15 PM	01:55:00	7.11 pH	18.03 °C	741.81 µS/cm	1.06 mg/L	20.00 NTU	-83.9 mV	29.05 ft	200.00 ml/min
2/17/2025 12:20 PM	02:00:00	7.10 pH	18.08 °C	742.25 µS/cm	1.00 mg/L	17.40 NTU	-84.9 mV	29.05 ft	200.00 ml/min
2/17/2025 12:25 PM	02:05:00	7.11 pH	18.08 °C	742.81 µS/cm	0.87 mg/L	14.70 NTU	-86.2 mV	29.05 ft	200.00 ml/min
2/17/2025 12:30 PM	02:10:00	7.10 pH	18.12 °C	742.64 µS/cm	0.77 mg/L	14.40 NTU	-87.8 mV	29.05 ft	200.00 ml/min
2/17/2025 12:35 PM	02:15:00	7.11 pH	18.20 °C	741.92 µS/cm	0.86 mg/L	13.70 NTU	-87.0 mV	29.05 ft	200.00 ml/min
2/17/2025 12:40 PM	02:20:00	7.10 pH	18.29 °C	742.45 µS/cm	0.77 mg/L	12.40 NTU	-87.8 mV	29.05 ft	200.00 ml/min
2/17/2025 12:45 PM	02:25:00	7.11 pH	18.18 °C	742.82 µS/cm	0.68 mg/L	10.60 NTU	-89.1 mV	29.05 ft	200.00 ml/min
2/17/2025 12:50 PM	02:30:00	7.11 pH	18.13 °C	743.77 µS/cm	0.62 mg/L	8.94 NTU	-89.9 mV	29.05 ft	200.00 ml/min
2/17/2025 12:55 PM	02:35:00	7.11 pH	18.17 °C	744.92 µS/cm	0.50 mg/L	8.52 NTU	-91.5 mV	29.05 ft	200.00 ml/min
2/17/2025 1:00 PM	02:40:00	7.12 pH	18.25 °C	744.45 µS/cm	0.45 mg/L	8.15 NTU	-92.5 mV	29.05 ft	200.00 ml/min
2/17/2025 1:05 PM	02:45:00	7.12 pH	18.25 °C	743.36 µS/cm	0.48 mg/L	8.40 NTU	-91.3 mV	29.05 ft	200.00 ml/min
2/17/2025 1:10 PM	02:50:00	7.11 pH	18.32 °C	743.96 µS/cm	0.47 mg/L	6.71 NTU	-91.8 mV	29.05 ft	200.00 ml/min
2/17/2025 1:15 PM	02:55:00	7.11 pH	18.30 °C	744.84 µS/cm	0.40 mg/L	4.95 NTU	-92.8 mV	29.05 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-HGWC-13	Grab.
HAM-AP1-FD-01	Grab.

Low-Flow Test Report:

Test Date / Time: 2/14/2025 2:00:27 PM
Project: GP- Plant Hammond
Operator Name: A. Tomlinson

Location Name: MW-5 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 20.84 ft** **Total Depth: 30.84 ft** **Initial Depth to Water: 8.56 ft**	**Pump Type: Bladder** **Tubing Type: Poly** **Pump Intake From TOC: 25.84 ft** **Estimated Total Volume Pumped: 15 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.26 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850735**

Test Notes:
Eight bottles: Full App. III & IV and Major Ions.

Weather Conditions:
Sunny, 53 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
2/14/2025 2:00 PM	00:00	9.06 pH	18.72 °C	567.57 µS/cm	3.13 mg/L	1.28 NTU	-25.2 mV	8.72 ft	200.00 ml/min
2/14/2025 2:05 PM	05:00	6.88 pH	18.53 °C	559.00 µS/cm	3.06 mg/L	0.98 NTU	-16.4 mV	8.79 ft	200.00 ml/min
2/14/2025 2:10 PM	10:00	6.76 pH	18.61 °C	553.37 µS/cm	3.02 mg/L	0.33 NTU	-17.3 mV	8.82 ft	200.00 ml/min
2/14/2025 2:15 PM	15:00	6.90 pH	18.70 °C	551.16 µS/cm	3.13 mg/L	0.25 NTU	-122.4 mV	8.82 ft	200.00 ml/min
2/14/2025 2:20 PM	20:00	6.92 pH	18.79 °C	546.93 µS/cm	3.09 mg/L	0.01 NTU	-18.8 mV	8.82 ft	200.00 ml/min
2/14/2025 2:25 PM	25:00	6.57 pH	18.81 °C	543.46 µS/cm	3.18 mg/L	0.02 NTU	-19.1 mV	8.82 ft	200.00 ml/min
2/14/2025 2:30 PM	30:00	6.57 pH	18.57 °C	544.72 µS/cm	3.06 mg/L	0.04 NTU	-19.0 mV	8.82 ft	200.00 ml/min
2/14/2025 2:35 PM	35:00	6.95 pH	18.61 °C	543.09 µS/cm	3.02 mg/L	0.01 NTU	-17.6 mV	8.82 ft	200.00 ml/min
2/14/2025 2:40 PM	40:00	6.50 pH	18.64 °C	541.10 µS/cm	3.08 mg/L	0.02 NTU	-17.2 mV	8.82 ft	200.00 ml/min
2/14/2025 2:45 PM	45:00	6.61 pH	18.81 °C	537.51 µS/cm	3.11 mg/L	0.04 NTU	-17.1 mV	8.82 ft	200.00 ml/min
2/14/2025 2:50 PM	50:00	6.89 pH	18.85 °C	534.97 µS/cm	3.11 mg/L	0.02 NTU	-122.0 mV	8.82 ft	200.00 ml/min
2/14/2025 2:55 PM	55:00	6.64 pH	18.62 °C	536.01 µS/cm	3.17 mg/L	0.17 NTU	-17.4 mV	8.82 ft	200.00 ml/min
2/14/2025 3:00 PM	01:00:00	6.88 pH	18.45 °C	529.44 µS/cm	3.21 mg/L	0.16 NTU	-16.6 mV	8.82 ft	200.00 ml/min

2/14/2025 3:05 PM	01:05:00	6.89 pH	18.61 °C	531.34 µS/cm	3.13 mg/L	0.01 NTU	-82.5 mV	8.82 ft	200.00 ml/min
2/14/2025 3:10 PM	01:10:00	6.92 pH	18.65 °C	534.97 µS/cm	3.14 mg/L	0.15 NTU	-16.0 mV	8.82 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-MW-5	Grab.

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 2/14/2025 12:50:05 PM
Project: GP- Plant Hammond
Operator Name: A. Tomlinson

Location Name: MW-6 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 22.96 ft** **Total Depth: 32.96 ft** **Initial Depth to Water: 10.42 ft**	**Pump Type: Bladder** **Tubing Type: Poly** **Pump Intake From TOC: 27.96 ft** **Estimated Total Volume Pumped: 7 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.03 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850735**

Test Notes:
Eight bottles: Full App. III & IV and Major Ions.

Weather Conditions:
Sunny, 48 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
2/14/2025 12:50 PM	00:00	6.84 pH	19.60 °C	974.41 µS/cm	0.53 mg/L	69.90 NTU	-18.3 mV	10.47 ft	200.00 ml/min
2/14/2025 12:55 PM	05:00	6.82 pH	19.77 °C	955.32 µS/cm	0.33 mg/L	30.60 NTU	11.4 mV	10.45 ft	200.00 ml/min
2/14/2025 1:00 PM	10:00	6.82 pH	19.81 °C	950.18 µS/cm	0.30 mg/L	16.90 NTU	18.7 mV	10.45 ft	200.00 ml/min
2/14/2025 1:05 PM	15:00	6.82 pH	19.81 °C	948.93 µS/cm	0.35 mg/L	7.67 NTU	21.8 mV	10.45 ft	200.00 ml/min
2/14/2025 1:10 PM	20:00	6.83 pH	19.77 °C	948.46 µS/cm	0.38 mg/L	2.63 NTU	29.4 mV	10.45 ft	200.00 ml/min
2/14/2025 1:15 PM	25:00	6.83 pH	19.77 °C	947.11 µS/cm	0.29 mg/L	0.52 NTU	23.7 mV	10.45 ft	200.00 ml/min
2/14/2025 1:20 PM	30:00	6.83 pH	19.86 °C	945.35 µS/cm	0.23 mg/L	3.67 NTU	22.2 mV	10.45 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-MW-6	Grab.

Low-Flow Test Report:

Test Date / Time: 2/13/2025 11:18:06 AM
Project: GP- Plant Hammond
Operator Name: A. Tomlinson

Location Name: MW-7 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 16.89 ft** **Total Depth: 26.89 ft** **Initial Depth to Water: 9.41 ft**	**Pump Type: Bladder** **Tubing Type: Poly** **Pump Intake From TOC: 21.89 ft** **Estimated Total Volume Pumped: 7 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850735**

Test Notes:
Eight bottles: Full App. III & IV and Major Ions.

Weather Conditions:
Partly cloudy, 52 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
2/13/2025 11:18 AM	00:00	6.92 pH	17.77 °C	480.04 µS/cm	1.81 mg/L	2.38 NTU	108.3 mV	9.41 ft	200.00 ml/min
2/13/2025 11:23 AM	05:00	6.95 pH	16.92 °C	482.62 µS/cm	1.26 mg/L	1.59 NTU	63.6 mV	9.41 ft	200.00 ml/min
2/13/2025 11:28 AM	10:00	6.95 pH	17.29 °C	484.75 µS/cm	1.12 mg/L	1.33 NTU	54.6 mV	9.41 ft	200.00 ml/min
2/13/2025 11:33 AM	15:00	6.95 pH	17.42 °C	485.45 µS/cm	1.00 mg/L	1.52 NTU	51.8 mV	9.41 ft	200.00 ml/min
2/13/2025 11:38 AM	20:00	6.96 pH	17.49 °C	486.54 µS/cm	0.93 mg/L	1.32 NTU	50.0 mV	9.41 ft	200.00 ml/min
2/13/2025 11:43 AM	25:00	6.95 pH	17.53 °C	489.11 µS/cm	0.86 mg/L	1.47 NTU	49.1 mV	9.41 ft	200.00 ml/min
2/13/2025 11:48 AM	30:00	6.96 pH	17.36 °C	488.89 µS/cm	0.84 mg/L	1.40 NTU	48.3 mV	9.41 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-MW-7	Grab.

Low-Flow Test Report:

Test Date / Time: 2/13/2025 10:05:21 AM
Project: GP- Plant Hammond
Operator Name: A. Tomlinson

Location Name: MW-19 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 19.53 ft** **Total Depth: 29.53 ft** **Initial Depth to Water: 14.96 ft**	**Pump Type: Bladder** **Tubing Type: Poly** **Pump Intake From TOC: 24.53 ft** **Estimated Total Volume Pumped: 7 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.05 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850735**

Test Notes:
Eight bottles: Full App. III & IV and Major Ions.

Weather Conditions:
Partly cloudy, 49 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
2/13/2025 10:05 AM	00:00	6.01 pH	17.95 °C	593.33 µS/cm	0.30 mg/L	20.60 NTU	146.8 mV	15.01 ft	200.00 ml/min
2/13/2025 10:10 AM	05:00	6.00 pH	18.08 °C	591.98 µS/cm	0.24 mg/L	15.10 NTU	151.4 mV	15.01 ft	200.00 ml/min
2/13/2025 10:15 AM	10:00	5.99 pH	18.12 °C	591.27 µS/cm	0.22 mg/L	10.68 NTU	104.3 mV	15.01 ft	200.00 ml/min
2/13/2025 10:20 AM	15:00	5.99 pH	18.16 °C	591.46 µS/cm	0.19 mg/L	7.20 NTU	98.0 mV	15.01 ft	200.00 ml/min
2/13/2025 10:25 AM	20:00	5.99 pH	18.17 °C	592.25 µS/cm	0.15 mg/L	5.46 NTU	94.0 mV	15.01 ft	200.00 ml/min
2/13/2025 10:30 AM	25:00	6.00 pH	18.21 °C	595.14 µS/cm	0.15 mg/L	4.15 NTU	124.9 mV	15.01 ft	200.00 ml/min
2/13/2025 10:35 AM	30:00	6.01 pH	18.25 °C	595.72 µS/cm	0.14 mg/L	3.72 NTU	90.8 mV	15.01 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-MW-19	Grab.

Low-Flow Test Report:

Test Date / Time: 2/15/2025 10:38:11 AM
Project: GP- Plant Hammond
Operator Name: A. Tomlinson

Location Name: MW-20 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 24.37 ft** **Total Depth: 34.37 ft** **Initial Depth to Water: 6.08 ft**	**Pump Type: Bladder** **Tubing Type: Poly** **Pump Intake From TOC: 29.37 ft** **Estimated Total Volume Pumped: 7 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.6 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850735**

Test Notes:
Eight bottles: Full App. III & IV and Major Ions.

Weather Conditions:
Cloudy, 55 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
2/15/2025 10:38 AM	00:00	7.06 pH	16.65 °C	716.46 µS/cm	0.72 mg/L	4.45 NTU	-64.2 mV	6.39 ft	200.00 ml/min
2/15/2025 10:43 AM	05:00	7.12 pH	16.91 °C	721.15 µS/cm	0.38 mg/L	3.01 NTU	-80.2 mV	6.40 ft	200.00 ml/min
2/15/2025 10:48 AM	10:00	7.14 pH	17.00 °C	723.41 µS/cm	0.19 mg/L	2.79 NTU	-118.1 mV	6.45 ft	200.00 ml/min
2/15/2025 10:53 AM	15:00	7.16 pH	17.09 °C	722.85 µS/cm	0.17 mg/L	4.16 NTU	-130.1 mV	6.50 ft	200.00 ml/min
2/15/2025 10:58 AM	20:00	7.16 pH	17.18 °C	726.12 µS/cm	0.13 mg/L	2.80 NTU	-113.7 mV	6.59 ft	200.00 ml/min
2/15/2025 11:03 AM	25:00	7.17 pH	17.24 °C	727.62 µS/cm	0.13 mg/L	3.25 NTU	-117.0 mV	6.64 ft	200.00 ml/min
2/15/2025 11:08 AM	30:00	7.17 pH	17.32 °C	729.82 µS/cm	0.22 mg/L	3.22 NTU	-121.7 mV	6.68 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-MW-20	Grab.

Low-Flow Test Report:

Test Date / Time: 2/16/2025 2:05:56 PM
Project: GP- Plant Hammond
Operator Name: A. Tomlinson

Location Name: MW-24D **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 62.77 ft** **Total Depth: 72.77 ft** **Initial Depth to Water: 27.43 ft**	**Pump Type: Bladder** **Tubing Type: Poly** **Pump Intake From TOC: 67.77 ft** **Estimated Total Volume Pumped: 18 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.03 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850735**

Test Notes:
Eight bottles: Full App. III & IV and Major Ions.

Weather Conditions:
Cloudy, 47 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
2/16/2025 2:05 PM	00:00	8.10 pH	16.74 °C	303.65 µS/cm	8.70 mg/L	6.63 NTU	39.6 mV	27.46 ft	200.00 ml/min
2/16/2025 2:10 PM	05:00	8.30 pH	17.01 °C	255.17 µS/cm	8.92 mg/L	7.58 NTU	30.8 mV	27.46 ft	200.00 ml/min
2/16/2025 2:15 PM	10:00	8.40 pH	17.09 °C	231.42 µS/cm	8.99 mg/L	5.71 NTU	29.9 mV	27.46 ft	200.00 ml/min
2/16/2025 2:18 PM	12:31	8.40 pH	17.14 °C	225.20 µS/cm	9.00 mg/L	—	30.2 mV	27.46 ft	200.00 ml/min
2/16/2025 2:23 PM	17:31	8.42 pH	17.26 °C	218.57 µS/cm	8.96 mg/L	4.54 NTU	29.7 mV	27.46 ft	200.00 ml/min
2/16/2025 2:28 PM	22:31	8.42 pH	17.09 °C	218.50 µS/cm	8.90 mg/L	3.77 NTU	37.2 mV	27.46 ft	200.00 ml/min
2/16/2025 2:33 PM	27:31	8.40 pH	17.13 °C	230.54 µS/cm	8.64 mg/L	5.49 NTU	30.4 mV	27.46 ft	200.00 ml/min
2/16/2025 2:38 PM	32:31	8.34 pH	17.23 °C	269.35 µS/cm	7.92 mg/L	6.14 NTU	38.2 mV	27.46 ft	200.00 ml/min
2/16/2025 2:43 PM	37:31	8.27 pH	17.23 °C	321.58 µS/cm	6.90 mg/L	4.99 NTU	30.6 mV	27.46 ft	200.00 ml/min
2/16/2025 2:48 PM	42:31	8.21 pH	17.23 °C	369.39 µS/cm	5.87 mg/L	4.23 NTU	38.2 mV	27.46 ft	200.00 ml/min
2/16/2025 2:53 PM	47:31	8.16 pH	17.23 °C	406.33 µS/cm	5.09 mg/L	3.41 NTU	30.3 mV	27.46 ft	200.00 ml/min
2/16/2025 2:58 PM	52:31	8.11 pH	17.17 °C	426.33 µS/cm	4.59 mg/L	3.20 NTU	29.9 mV	27.46 ft	200.00 ml/min
2/16/2025 3:03 PM	57:31	8.08 pH	17.17 °C	440.97 µS/cm	4.24 mg/L	2.98 NTU	37.2 mV	27.46 ft	200.00 ml/min

2/16/2025 3:08 PM	01:02:31	8.06 pH	17.18 °C	447.55 µS/cm	4.00 mg/L	2.64 NTU	29.5 mV	27.46 ft	200.00 ml/min
2/16/2025 3:13 PM	01:07:31	8.04 pH	17.05 °C	457.49 µS/cm	3.88 mg/L	2.69 NTU	28.8 mV	27.46 ft	200.00 ml/min
2/16/2025 3:18 PM	01:12:31	8.02 pH	16.99 °C	461.82 µS/cm	3.76 mg/L	2.30 NTU	28.6 mV	27.46 ft	200.00 ml/min
2/16/2025 3:23 PM	01:17:31	8.01 pH	17.01 °C	467.34 µS/cm	3.66 mg/L	2.44 NTU	28.7 mV	27.46 ft	200.00 ml/min
2/16/2025 3:28 PM	01:22:31	8.00 pH	16.99 °C	470.55 µS/cm	3.54 mg/L	2.07 NTU	28.7 mV	27.46 ft	200.00 ml/min
2/16/2025 3:33 PM	01:27:31	7.99 pH	16.87 °C	473.38 µS/cm	3.49 mg/L	2.00 NTU	28.6 mV	27.46 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-MW-24D	Grab.

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 2/13/2025 1:53:01 PM
Project: GP- Plant Hammond
Operator Name: A. Tomlinson

Location Name: MW-25D **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 53.21 ft** **Total Depth: 63.21 ft** **Initial Depth to Water: 13.41 ft**	**Pump Type: Bladder** **Tubing Type: Poly** **Pump Intake From TOC: 58.21 ft** **Estimated Total Volume Pumped: 7 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 3.39 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850735**

Test Notes:
Eight bottles: Full App. III & IV and Major Ions.

Weather Conditions:
Clear, 54 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
2/13/2025 1:53 PM	00:00	7.60 pH	18.16 °C	575.87 µS/cm	0.20 mg/L	2.43 NTU	-166.0 mV	14.90 ft	200.00 ml/min
2/13/2025 1:58 PM	05:00	7.62 pH	18.43 °C	572.25 µS/cm	0.14 mg/L	1.02 NTU	-184.3 mV	16.25 ft	200.00 ml/min
2/13/2025 2:03 PM	10:00	7.63 pH	18.26 °C	567.31 µS/cm	0.36 mg/L	0.75 NTU	-27.5 mV	16.44 ft	200.00 ml/min
2/13/2025 2:08 PM	15:00	7.63 pH	18.39 °C	566.72 µS/cm	0.32 mg/L	0.78 NTU	-19.4 mV	16.54 ft	200.00 ml/min
2/13/2025 2:13 PM	20:00	7.63 pH	18.35 °C	563.62 µS/cm	0.27 mg/L	0.74 NTU	-18.2 mV	16.64 ft	200.00 ml/min
2/13/2025 2:18 PM	25:00	7.66 pH	18.52 °C	562.47 µS/cm	0.27 mg/L	1.05 NTU	-17.4 mV	16.72 ft	200.00 ml/min
2/13/2025 2:23 PM	30:00	7.65 pH	18.65 °C	560.59 µS/cm	0.30 mg/L	0.64 NTU	-17.5 mV	16.80 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-MW-25D	Grab.

Low-Flow Test Report:

Test Date / Time: 2/14/2025 3:46:15 PM
Project: GP- Plant Hammond
Operator Name: A. Tomlinson

Location Name: MW-26D **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 68.11 ft** **Total Depth: 78.11 ft** **Initial Depth to Water: 9.43 ft**	**Pump Type: Bladder** **Tubing Type: Poly** **Pump Intake From TOC: 25.84 ft** **Estimated Total Volume Pumped: 10 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.17 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850735**

Test Notes:
Eight bottles: Full App. III & IV and Major Ions.

Weather Conditions:
Sunny, 56 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
2/14/2025 3:46 PM	00:00	8.66 pH	18.02 °C	862.79 µS/cm	0.62 mg/L	11.80 NTU	-22.2 mV	9.51 ft	200.00 ml/min
2/14/2025 3:51 PM	05:00	6.88 pH	17.63 °C	932.18 µS/cm	0.16 mg/L	15.50 NTU	-40.5 mV	9.60 ft	200.00 ml/min
2/14/2025 3:56 PM	10:00	6.94 pH	17.68 °C	929.23 µS/cm	0.10 mg/L	9.87 NTU	-14.8 mV	9.60 ft	200.00 ml/min
2/14/2025 4:01 PM	15:00	6.48 pH	17.67 °C	928.58 µS/cm	0.08 mg/L	6.64 NTU	-14.9 mV	9.60 ft	200.00 ml/min
2/14/2025 4:06 PM	20:00	6.59 pH	17.59 °C	927.77 µS/cm	0.09 mg/L	5.43 NTU	-14.9 mV	9.60 ft	200.00 ml/min
2/14/2025 4:11 PM	25:00	6.83 pH	17.57 °C	927.43 µS/cm	0.11 mg/L	4.86 NTU	-14.4 mV	9.60 ft	200.00 ml/min
2/14/2025 4:16 PM	30:00	6.65 pH	17.50 °C	927.77 µS/cm	0.13 mg/L	3.44 NTU	-15.1 mV	9.60 ft	200.00 ml/min
2/14/2025 4:21 PM	35:00	6.53 pH	17.45 °C	927.28 µS/cm	0.15 mg/L	2.93 NTU	-14.6 mV	9.60 ft	200.00 ml/min
2/14/2025 4:26 PM	40:00	6.55 pH	17.35 °C	927.60 µS/cm	0.16 mg/L	2.98 NTU	-14.7 mV	9.60 ft	200.00 ml/min
2/14/2025 4:31 PM	45:00	6.53 pH	17.32 °C	927.97 µS/cm	0.16 mg/L	2.52 NTU	-14.8 mV	9.60 ft	200.00 ml/min

Samples

Sample ID:	Description:

HAM-MW-26D	Grab.
HAM-AP1-FD-02	Grab.

Low-Flow Test Report:

Test Date / Time: 2/15/2025 11:47:44 AM
Project: GP- Plant Hammond
Operator Name: A. Tomlinson

Location Name: MW-27D **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 53.19 ft** **Total Depth: 63.19 ft** **Initial Depth to Water: 12.4 ft**	**Pump Type: Bladder** **Tubing Type: Poly** **Pump Intake From TOC: 58.19 ft** **Estimated Total Volume Pumped: 28.5 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 100 ml/min** **Final Draw Down: 33.61 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850735**

Test Notes:
Eight bottles: Full App. III & IV and Major Ions.

Weather Conditions:
Cloudy, 53 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
2/15/2025 11:47 AM	00:00	7.18 pH	17.41 °C	419.60 µS/cm	2.01 mg/L	17.00 NTU	-134.5 mV	14.30 ft	200.00 ml/min
2/15/2025 11:52 AM	05:00	8.13 pH	17.54 °C	410.59 µS/cm	2.22 mg/L	5.48 NTU	-128.2 mV	16.13 ft	200.00 ml/min
2/15/2025 11:57 AM	10:00	8.41 pH	17.63 °C	412.52 µS/cm	2.34 mg/L	5.04 NTU	-81.7 mV	17.85 ft	200.00 ml/min
2/15/2025 12:02 PM	15:00	8.57 pH	17.63 °C	411.64 µS/cm	2.28 mg/L	4.63 NTU	-106.2 mV	19.60 ft	200.00 ml/min
2/15/2025 12:07 PM	20:00	8.91 pH	17.69 °C	405.73 µS/cm	2.30 mg/L	4.10 NTU	-67.5 mV	21.40 ft	200.00 ml/min
2/15/2025 12:12 PM	25:00	10.19 pH	17.69 °C	349.77 µS/cm	2.57 mg/L	16.60 NTU	-111.4 mV	23.20 ft	200.00 ml/min
2/15/2025 12:17 PM	30:00	11.29 pH	17.73 °C	453.68 µS/cm	3.89 mg/L	21.80 NTU	-133.7 mV	24.80 ft	200.00 ml/min
2/15/2025 12:22 PM	35:00	11.58 pH	17.76 °C	582.52 µS/cm	4.40 mg/L		-98.5 mV		200.00 ml/min
2/15/2025 12:27 PM	40:00	11.44 pH	17.56 °C	636.52 µS/cm	4.90 mg/L	22.30 NTU	-77.3 mV	28.30 ft	200.00 ml/min
2/15/2025 12:32 PM	45:00	11.65 pH	17.78 °C	623.34 µS/cm	4.40 mg/L	19.60 NTU	-99.7 mV	29.75 ft	200.00 ml/min
2/15/2025 12:37 PM	50:00	11.70 pH	17.77 °C	677.36 µS/cm	4.09 mg/L	19.20 NTU	-104.3 mV	31.26 ft	200.00 ml/min
2/15/2025 12:42 PM	55:00	11.71 pH	17.77 °C	669.42 µS/cm	4.08 mg/L	22.90 NTU	-104.5 mV	32.70 ft	200.00 ml/min
2/15/2025 12:47 PM	01:00:00	11.70 pH	17.81 °C	659.82 µS/cm	4.14 mg/L	23.10 NTU	-104.2 mV	34.48 ft	200.00 ml/min

2/15/2025 12:52 PM	01:05:00	11.69 pH	17.82 °C	645.60 µS/cm	3.92 mg/L	23.20 NTU	-102.2 mV	35.90 ft	200.00 ml/min
2/15/2025 12:57 PM	01:10:00	11.67 pH	17.83 °C	623.45 µS/cm	3.86 mg/L	25.00 NTU	-101.0 mV	37.38 ft	200.00 ml/min
2/15/2025 1:02 PM	01:15:00	11.66 pH	17.81 °C	608.37 µS/cm	3.73 mg/L	27.70 NTU	-98.9 mV	38.80 ft	200.00 ml/min
2/15/2025 1:07 PM	01:20:00	11.64 pH	17.81 °C	593.48 µS/cm	3.75 mg/L	28.60 NTU	-100.1 mV	40.15 ft	200.00 ml/min
2/15/2025 1:12 PM	01:25:00	11.67 pH	17.81 °C	608.27 µS/cm	3.76 mg/L	23.20 NTU	-100.2 mV	41.62 ft	200.00 ml/min
2/15/2025 1:17 PM	01:30:00	11.63 pH	17.81 °C	576.09 µS/cm	3.65 mg/L	25.40 NTU	-99.5 mV	43.00 ft	200.00 ml/min
2/15/2025 1:22 PM	01:35:00	11.61 pH	17.81 °C	554.11 µS/cm	3.57 mg/L	26.50 NTU	-100.1 mV	44.57 ft	200.00 ml/min
2/15/2025 1:27 PM	01:40:00	11.57 pH	17.81 °C	534.34 µS/cm	3.47 mg/L	27.90 NTU	-100.6 mV	44.68 ft	200.00 ml/min
2/15/2025 1:32 PM	01:45:00	11.60 pH	17.45 °C	506.98 µS/cm	3.45 mg/L	26.70 NTU	-87.5 mV	44.40 ft	100.00 ml/min
2/15/2025 1:37 PM	01:50:00	11.63 pH	16.22 °C	492.72 µS/cm	3.85 mg/L	31.00 NTU	-89.3 mV	44.32 ft	100.00 ml/min
2/15/2025 1:42 PM	01:55:00	10.46 pH	16.24 °C	323.07 µS/cm	3.48 mg/L	27.90 NTU	-101.5 mV	44.20 ft	100.00 ml/min
2/15/2025 1:47 PM	02:00:00	9.64 pH	16.74 °C	383.74 µS/cm	1.95 mg/L	14.60 NTU	-171.3 mV	44.32 ft	100.00 ml/min
2/15/2025 1:52 PM	02:05:00	9.75 pH	17.10 °C	344.63 µS/cm	1.66 mg/L	17.70 NTU	-119.6 mV	44.50 ft	100.00 ml/min
2/15/2025 1:57 PM	02:10:00	9.86 pH	17.14 °C	325.42 µS/cm	1.78 mg/L	20.60 NTU	-114.8 mV	44.68 ft	100.00 ml/min
2/15/2025 2:02 PM	02:15:00	9.90 pH	17.10 °C	319.25 µS/cm	1.82 mg/L	20.00 NTU	-114.1 mV	44.83 ft	100.00 ml/min
2/15/2025 2:07 PM	02:20:00	9.90 pH	17.23 °C	318.77 µS/cm	1.81 mg/L	16.70 NTU	-112.9 mV	44.98 ft	100.00 ml/min
2/15/2025 2:12 PM	02:25:00	9.91 pH	17.27 °C	319.78 µS/cm	1.82 mg/L	20.50 NTU	-115.2 mV	45.18 ft	100.00 ml/min
2/15/2025 2:17 PM	02:30:00	9.86 pH	17.27 °C	320.81 µS/cm	1.77 mg/L	15.00 NTU	-114.6 mV	45.34 ft	100.00 ml/min
2/15/2025 2:22 PM	02:35:00	9.84 pH	17.27 °C	322.17 µS/cm	1.74 mg/L	10.60 NTU	-115.3 mV	45.50 ft	100.00 ml/min
2/15/2025 2:27 PM	02:40:00	9.82 pH	17.23 °C	323.55 µS/cm	1.71 mg/L	10.40 NTU	-116.0 mV	45.64 ft	100.00 ml/min
2/15/2025 2:32 PM	02:45:00	9.81 pH	17.28 °C	324.44 µS/cm	1.70 mg/L	7.87 NTU	-115.9 mV	45.72 ft	100.00 ml/min
2/15/2025 2:37 PM	02:50:00	9.80 pH	17.32 °C	323.13 µS/cm	1.69 mg/L	5.85 NTU	-115.2 mV	45.90 ft	100.00 ml/min
2/15/2025 2:42 PM	02:55:00	9.79 pH	17.31 °C	323.84 µS/cm	1.69 mg/L	4.87 NTU	-116.1 mV	46.01 ft	100.00 ml/min

Samples

Sample ID:	Description:
HAM-MW-27D	Grab.

Low-Flow Test Report:

Test Date / Time: 2/16/2025 9:45:12 AM
Project: GP- Plant Hammond
Operator Name: A. Tomlinson

Location Name: MW-28D **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 48.21 ft** **Total Depth: 58.21 ft** **Initial Depth to Water: 8.7 ft**	**Pump Type: Bladder** **Tubing Type: Poly** **Pump Intake From TOC: 53.21 ft** **Estimated Total Volume Pumped: 7 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.2 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850735**

Test Notes:
Eight bottles: Full App. III & IV and Major Ions.

Weather Conditions:
Cloudy, 48 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
2/16/2025 9:45 AM	00:00	7.57 pH	16.47 °C	554.04 µS/cm	0.10 mg/L	33.30 NTU	-140.9 mV	8.85 ft	200.00 ml/min
2/16/2025 9:50 AM	05:00	7.55 pH	16.78 °C	549.92 µS/cm	0.03 mg/L	18.80 NTU	-184.8 mV	8.85 ft	200.00 ml/min
2/16/2025 9:55 AM	10:00	7.56 pH	16.92 °C	553.08 µS/cm	0.03 mg/L	11.50 NTU	-132.4 mV	8.90 ft	200.00 ml/min
2/16/2025 10:00 AM	15:00	7.56 pH	17.02 °C	555.09 µS/cm	0.04 mg/L	6.57 NTU	-130.3 mV	8.90 ft	200.00 ml/min
2/16/2025 10:05 AM	20:00	7.56 pH	17.03 °C	554.69 µS/cm	0.05 mg/L	4.86 NTU	-132.2 mV	8.90 ft	200.00 ml/min
2/16/2025 10:10 AM	25:00	7.56 pH	17.10 °C	554.48 µS/cm	0.06 mg/L	4.93 NTU	-132.9 mV	8.90 ft	200.00 ml/min
2/16/2025 10:15 AM	30:00	7.57 pH	17.09 °C	553.60 µS/cm	0.08 mg/L	3.87 NTU	-133.4 mV	8.90 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-MW-28D	Grab.

Low-Flow Test Report:

Test Date / Time: 2/16/2025 8:37:20 AM
Project: GP- Plant Hammond
Operator Name: A. Tomlinson

Location Name: MW-29 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 18.25 ft** **Total Depth: 28.25 ft** **Initial Depth to Water: 3.25 ft**	**Pump Type: Bladder** **Tubing Type: Poly** **Pump Intake From TOC: 23.25 ft** **Estimated Total Volume Pumped: 7 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.07 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850735**

Test Notes:
Eight bottles: Full App. III & IV and Major Ions.

Weather Conditions:
Windy, cloudy, 51 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
2/16/2025 8:37 AM	00:00	7.30 pH	15.86 °C	797.07 µS/cm	1.05 mg/L	6.18 NTU	143.3 mV	3.32 ft	200.00 ml/min
2/16/2025 8:42 AM	05:00	7.25 pH	15.50 °C	795.15 µS/cm	0.32 mg/L	3.23 NTU	86.5 mV	3.32 ft	200.00 ml/min
2/16/2025 8:47 AM	10:00	7.24 pH	15.57 °C	795.81 µS/cm	0.43 mg/L	1.88 NTU	83.6 mV	3.32 ft	200.00 ml/min
2/16/2025 8:52 AM	15:00	7.23 pH	15.59 °C	795.48 µS/cm	0.33 mg/L	1.36 NTU	54.2 mV	3.32 ft	200.00 ml/min
2/16/2025 8:57 AM	20:00	7.24 pH	15.57 °C	791.76 µS/cm	0.26 mg/L	0.99 NTU	47.5 mV	3.32 ft	200.00 ml/min
2/16/2025 9:02 AM	25:00	7.24 pH	15.46 °C	794.46 µS/cm	0.24 mg/L	0.90 NTU	54.7 mV	3.32 ft	200.00 ml/min
2/16/2025 9:07 AM	30:00	7.24 pH	15.43 °C	794.96 µS/cm	0.21 mg/L	0.70 NTU	41.6 mV	3.32 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-MW-29	Grab.

Plant Hammond AP-1 Surface Water Samples 02/17/2025

Sample ID	Time	Sample Depth	Total Depth	Temp (C)	pH	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Conductance (mS/cm)	Coordinates
HAM-H-SCC-NBR	1215	Surface	<10ft	9.8	6.75	145.4	9.03	32.7	0.0590	34.261192, 85.336247
HAM-H-SCC	1153	Surface	<10ft	10.4	6.87	151.5	7.93	52.6	0.0706	34.251869, -85.338019

Plant Hammond AP-1/AP-2 Surface Water Samples 02/17/2025

Sample ID	Time	Sample Depth	Total Depth	Temp (C)	pH	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Conductance (mS/cm)	Coordinates
HAM-H+0.25	1112	Surface	<10ft	9.8	7.18	125.2	9.11	68.0	0.1032	34.249261, -85.350334

AUGUST 2025

Low-Flow Test Report:

Test Date / Time: 8/5/2025 1:04:14 PM
Project: GP- Plant Hammond
Operator Name: T. Kessler

Location Name: HGWA-1 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 22.49 ft** **Total Depth: 32.49 ft** **Initial Depth to Water: 18.33 ft**	**Pump Type: Bladder** **Tubing Type: Poly** **Pump Intake From TOC: 27.49 ft** **Estimated Total Volume Pumped: 9 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.57 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 843593**

Test Notes:
Six bottles: Full App. III & IV.

Weather Conditions:
Cloudy, 75 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
8/5/2025 1:04 PM	00:00	6.889 pH	18.43 °C	585.7 µS/cm	1.791 mg/L	2.180 NTU	82.4 mV	18.90 ft	200.0 ml/min
8/5/2025 1:09 PM	05:00	6.898 pH	18.26 °C	593.2 µS/cm	1.037 mg/L	1.310 NTU	80.2 mV	18.90 ft	200.0 ml/min
8/5/2025 1:14 PM	10:00	6.914 pH	18.10 °C	594.3 µS/cm	0.748 mg/L	1.110 NTU	95.5 mV	18.90 ft	200.0 ml/min
8/5/2025 1:19 PM	15:00	6.921 pH	18.07 °C	598.6 µS/cm	0.503 mg/L	0.460 NTU	97.3 mV	18.90 ft	200.0 ml/min
8/5/2025 1:24 PM	20:00	6.923 pH	18.15 °C	601.7 µS/cm	0.533 mg/L	0.470 NTU	79.1 mV	18.90 ft	200.0 ml/min
8/5/2025 1:29 PM	25:00	6.942 pH	17.16 °C	586.2 µS/cm	0.293 mg/L	0.020 NTU	96.5 mV	18.90 ft	200.0 ml/min
8/5/2025 1:34 PM	30:00	6.934 pH	17.08 °C	608.7 µS/cm	0.157 mg/L	0.050 NTU	74.0 mV	18.90 ft	200.0 ml/min
8/5/2025 1:39 PM	35:00	6.937 pH	17.01 °C	620.8 µS/cm	0.101 mg/L	0.070 NTU	56.7 mV	18.90 ft	200.0 ml/min
8/5/2025 1:44 PM	40:00	6.942 pH	17.07 °C	624.0 µS/cm	0.070 mg/L	0.100 NTU	48.8 mV	18.90 ft	200.0 ml/min

Samples

Sample ID:	Description:

HAM-HGWA-1	Grab.

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/5/2025 12:18:04 PM
Project: GP-Plant Hammond
Operator Name: J. Newsome

Location Name: HGWA-2 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 17.95 ft** **Total Depth: 27.95 ft** **Initial Depth to Water: 13.55 ft**	**Pump Type: Bladder** **Tubing Type: Poly** **Pump Intake From TOC: 22.95 ft** **Estimated Total Volume Pumped: 6 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.2 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965586**

Test Notes:
Six bottles: Full App. III & IV.

Weather Conditions:
Overcast, 70 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
8/5/2025 12:18 PM	00:00	5.25 pH	18.81 °C	220.77 µS/cm	0.53 mg/L	12.51 NTU	113.1 mV	13.55 ft	200.00 ml/min
8/5/2025 12:23 PM	05:00	4.98 pH	18.70 °C	245.38 µS/cm	0.41 mg/L	12.30 NTU	107.6 mV	13.75 ft	200.00 ml/min
8/5/2025 12:28 PM	10:00	4.93 pH	18.88 °C	246.51 µS/cm	0.49 mg/L	7.98 NTU	97.3 mV	13.75 ft	200.00 ml/min
8/5/2025 12:33 PM	15:00	4.90 pH	18.91 °C	246.79 µS/cm	0.48 mg/L	4.00 NTU	93.1 mV	13.75 ft	200.00 ml/min
8/5/2025 12:38 PM	20:00	4.91 pH	18.83 °C	246.74 µS/cm	0.48 mg/L	3.97 NTU	89.2 mV	13.75 ft	200.00 ml/min
8/5/2025 12:43 PM	25:00	4.93 pH	18.83 °C	247.43 µS/cm	0.50 mg/L	1.90 NTU	86.4 mV	13.75 ft	200.00 ml/min
8/5/2025 12:48 PM	30:00	4.90 pH	18.92 °C	246.88 µS/cm	0.52 mg/L	1.01 NTU	86.2 mV	13.75 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-HGWA-2	Grab.

Low-Flow Test Report:

Test Date / Time: 8/5/2025 1:16:16 PM
Project: GP-Plant Hammond
Operator Name: J. Newsome

Location Name: HGWA-3 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 34.51 ft** **Total Depth: 44.51 ft** **Initial Depth to Water: 13.19 ft**	**Pump Type: Bladder** **Tubing Type: Polyethylene** **Pump Intake From TOC: 39.51 ft** **Estimated Total Volume Pumped: 7 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.05 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965586**

Test Notes:
Six bottles: Full App. III & IV.

Weather Conditions:
Overcast, 70 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
8/5/2025 1:16 PM	00:00	6.51 pH	18.82 °C	436.22 µS/cm	0.80 mg/L	53.21 NTU	31.5 mV	13.19 ft	200.00 ml/min
8/5/2025 1:21 PM	05:00	6.78 pH	18.51 °C	434.56 µS/cm	0.07 mg/L	50.10 NTU	13.2 mV	13.24 ft	200.00 ml/min
8/5/2025 1:26 PM	10:00	6.90 pH	18.47 °C	433.92 µS/cm	0.04 mg/L	18.80 NTU	5.2 mV	13.24 ft	200.00 ml/min
8/5/2025 1:31 PM	15:00	6.98 pH	18.51 °C	432.26 µS/cm	0.04 mg/L	11.90 NTU	1.9 mV	13.24 ft	200.00 ml/min
8/5/2025 1:36 PM	20:00	7.04 pH	18.51 °C	432.70 µS/cm	0.05 mg/L	10.09 NTU	-2.0 mV	13.24 ft	200.00 ml/min
8/5/2025 1:41 PM	25:00	7.06 pH	18.51 °C	432.65 µS/cm	0.05 mg/L	7.26 NTU	-4.9 mV	13.24 ft	200.00 ml/min
8/5/2025 1:46 PM	30:00	7.09 pH	18.50 °C	432.55 µS/cm	0.05 mg/L	5.67 NTU	-9.4 mV	13.24 ft	200.00 ml/min
8/5/2025 1:51 PM	35:00	7.12 pH	18.44 °C	432.91 µS/cm	0.05 mg/L	4.75 NTU	-15.2 mV	13.24 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-HGWA-3	Grab.

Low-Flow Test Report:

Test Date / Time: 8/5/2025 11:32:03 AM
Project: GP-Plant Hammond
Operator Name: T. Kessler

Location Name: HGWA-43D **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 51.25 ft** **Total Depth: 61.25 ft** **Initial Depth to Water: 18.4 ft**	**Pump Type: Bladder** **Tubing Type: Poly** **Pump Intake From TOC: 56.25 ft** **Estimated Total Volume Pumped: 7.5 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 2.45 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 843593**

Test Notes:
Six bottles: Full App. III & IV.

Weather Conditions:
Cloudy, 69 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 5	
8/5/2025 11:32 AM	00:00	7.383 pH	17.72 °C	458.4 µS/cm	0.464 mg/L	2.510 NTU	-60.6 mV	20.25 ft	200.0 ml/min
8/5/2025 11:37 AM	05:00	7.396 pH	17.59 °C	460.6 µS/cm	0.352 mg/L	1.890 NTU	-101.4 mV	20.50 ft	200.0 ml/min
8/5/2025 11:42 AM	10:00	7.414 pH	17.54 °C	461.8 µS/cm	0.297 mg/L	1.530 NTU	-109.9 mV	20.70 ft	200.0 ml/min
8/5/2025 11:47 AM	15:00	7.425 pH	17.59 °C	460.6 µS/cm	0.272 mg/L	1.040 NTU	-81.3 mV	20.80 ft	200.0 ml/min
8/5/2025 11:49 AM	17:27	7.425 pH	17.57 °C	459.0 µS/cm	0.262 mg/L	1.040 NTU	-82.8 mV	20.85 ft	200.0 ml/min
8/5/2025 11:54 AM	22:27	7.426 pH	17.54 °C	455.9 µS/cm	0.244 mg/L	2.260 NTU	-109.2 mV	20.85 ft	200.0 ml/min
8/5/2025 11:59 AM	27:27	7.423 pH	17.58 °C	453.4 µS/cm	0.213 mg/L	0.730 NTU	-77.5 mV	20.85 ft	200.0 ml/min
8/5/2025 12:04 PM	32:27	7.422 pH	17.55 °C	451.1 µS/cm	0.190 mg/L	0.930 NTU	-76.0 mV	20.85 ft	200.0 ml/min

Samples

Sample ID:	Description:
HAM-HGWA-43D	Grab.

Low-Flow Test Report:

Test Date / Time: 8/5/2025 9:20:19 AM
Project: HGWA-44D
Operator Name: T. Kessler

Location Name: HGWA-44D **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 103.5 ft** **Total Depth: 113.5 ft** **Initial Depth to Water: 18.9 ft**	**Pump Type: Bladder** **Tubing Type: Poly** **Pump Intake From TOC: 108.5 ft** **Estimated Total Volume Pumped: 14 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 5.15 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 843593**

Test Notes:
Six bottles: Full App. III & IV.

Weather Conditions:
Cloudy, 69 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 5	
8/5/2025 9:20 AM	00:00	8.339 pH	18.03 °C	553.9 µS/cm	1.942 mg/L	10.92 NTU	-104.3 mV	21.20 ft	200.0 ml/min
8/5/2025 9:25 AM	05:00	8.359 pH	17.98 °C	550.7 µS/cm	1.263 mg/L	12.50 NTU	-105.5 mV	21.46 ft	200.0 ml/min
8/5/2025 9:30 AM	10:00	8.375 pH	17.90 °C	544.7 µS/cm	0.520 mg/L	13.52 NTU	-106.1 mV	21.69 ft	200.0 ml/min
8/5/2025 9:35 AM	15:00	8.390 pH	17.90 °C	554.9 µS/cm	0.246 mg/L	13.41 NTU	-111.2 mV	21.95 ft	200.0 ml/min
8/5/2025 9:40 AM	20:00	8.403 pH	17.90 °C	549.9 µS/cm	0.228 mg/L	6.610 NTU	-117.1 mV	22.41 ft	200.0 ml/min
8/5/2025 9:45 AM	25:00	8.413 pH	17.90 °C	546.2 µS/cm	0.200 mg/L	6.510 NTU	-123.3 mV	22.75 ft	200.0 ml/min
8/5/2025 9:50 AM	30:00	8.421 pH	17.89 °C	548.0 µS/cm	0.179 mg/L	6.300 NTU	-124.6 mV	23.05 ft	200.0 ml/min
8/5/2025 9:55 AM	35:00	8.429 pH	17.86 °C	551.4 µS/cm	0.098 mg/L	5.710 NTU	-128.9 mV	23.20 ft	200.0 ml/min
8/5/2025 10:00 AM	40:00	8.436 pH	17.88 °C	553.5 µS/cm	0.086 mg/L	6.310 NTU	-133.0 mV	23.41 ft	200.0 ml/min
8/5/2025 10:05 AM	45:00	8.441 pH	17.98 °C	553.4 µS/cm	0.077 mg/L	5.140 NTU	-136.3 mV	23.52 ft	200.0 ml/min
8/5/2025 10:10 AM	50:00	8.449 pH	17.82 °C	564.2 µS/cm	1.690 mg/L	4.840 NTU	-184.9 mV	23.70 ft	200.0 ml/min
8/5/2025 10:15 AM	55:00	8.454 pH	17.90 °C	562.2 µS/cm	3.420 mg/L	4.840 NTU	-188.1 mV	23.75 ft	200.0 ml/min
8/5/2025 10:20 AM	01:00:00	8.459 pH	17.85 °C	570.4 µS/cm	0.092 mg/L	4.630 NTU	-188.5 mV	23.90 ft	200.0 ml/min

8/5/2025 10:25 AM	01:05:00	8.460 pH	17.89 °C	564.9 µS/cm	0.069 mg/L	4.770 NTU	-146.2 mV	23.90 ft	200.0 ml/min
8/5/2025 10:30 AM	01:10:00	8.463 pH	17.91 °C	558.0 µS/cm	0.053 mg/L	4.280 NTU	-147.9 mV	24.05 ft	200.0 ml/min

Samples

Sample ID:	Description:
HAM-HGWA-44D	Grab.
HAM-UGRD-FD-01	Grab.

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/6/2025 4:06:56 PM
Project: GP-Plant Hammond
Operator Name: T. Kessler

Location Name: HGWC-7 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 17.96 ft** **Total Depth: 27.96 ft** **Initial Depth to Water: 13.1 ft**	**Pump Type: Peristaltic** **Tubing Type: Poly** **Pump Intake From TOC: 22.96 ft** **Estimated Total Volume Pumped: 7 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.15 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 843593**

Test Notes:
Six bottles: Full App. III & IV.

Weather Conditions:
Sunny, 85 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 5	
8/6/2025 4:06 PM	00:00	7.226 pH	23.15 °C	582.6 µS/cm	0.342 mg/L	0.550 NTU	82.0 mV	13.25 ft	200.0 ml/min
8/6/2025 4:11 PM	05:00	7.252 pH	21.49 °C	605.8 µS/cm	0.150 mg/L	0.770 NTU	177.2 mV	13.25 ft	200.0 ml/min
8/6/2025 4:16 PM	10:00	7.251 pH	21.28 °C	612.6 µS/cm	0.103 mg/L	0.650 NTU	199.0 mV	13.25 ft	200.0 ml/min
8/6/2025 4:21 PM	15:00	7.281 pH	21.92 °C	600.6 µS/cm	0.082 mg/L	2.990 NTU	151.3 mV	13.25 ft	200.0 ml/min
8/6/2025 4:26 PM	20:00	7.288 pH	21.19 °C	590.9 µS/cm	0.071 mg/L	3.100 NTU	153.3 mV	13.25 ft	200.0 ml/min
8/6/2025 4:31 PM	25:00	7.272 pH	21.33 °C	596.6 µS/cm	0.067 mg/L	2.910 NTU	145.3 mV	13.25 ft	200.0 ml/min
8/6/2025 4:36 PM	30:00	7.277 pH	20.76 °C	594.9 µS/cm	0.060 mg/L	2.280 NTU	133.0 mV	13.25 ft	200.0 ml/min

Samples

Sample ID:	Description:
HAM-HGWC-7	Grab.

Low-Flow Test Report:

Test Date / Time: 8/6/2025 3:44:41 PM
Project: GP-Plant Hammond
Operator Name: J. Newsome

Location Name: HGWC-8 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 15.51 ft** **Total Depth: 25.51 ft** **Initial Depth to Water: 16 ft**	**Pump Type: Peristaltic** **Tubing Type: Poly** **Pump Intake From TOC: 20.15 ft** **Estimated Total Volume Pumped: 7 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min Final Draw Down: 0.32 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965586**

Test Notes:
Six bottles: Full App. III & IV.

Weather Conditions:
Sunny, 85 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
8/6/2025 3:44 PM	00:00	7.42 pH	24.87 °C	442.64 µS/cm	1.59 mg/L	1.76 NTU	151.1 mV	16.00 ft	200.00 ml/min
8/6/2025 3:49 PM	05:00	6.65 pH	22.88 °C	449.73 µS/cm	1.57 mg/L	0.98 NTU	155.8 mV	16.21 ft	200.00 ml/min
8/6/2025 3:54 PM	10:00	6.19 pH	22.44 °C	447.39 µS/cm	1.44 mg/L	0.39 NTU	152.8 mV	16.32 ft	200.00 ml/min
8/6/2025 3:59 PM	15:00	5.89 pH	22.51 °C	447.16 µS/cm	2.00 mg/L	0.48 NTU	150.3 mV	16.32 ft	200.00 ml/min
8/6/2025 4:04 PM	20:00	5.71 pH	22.34 °C	445.81 µS/cm	2.07 mg/L	0.37 NTU	147.4 mV	16.32 ft	200.00 ml/min
8/6/2025 4:09 PM	25:00	5.63 pH	22.33 °C	446.69 µS/cm	2.10 mg/L	0.91 NTU	144.6 mV	16.32 ft	200.00 ml/min
8/6/2025 4:14 PM	30:00	5.61 pH	22.32 °C	449.27 µS/cm	2.11 mg/L	0.57 NTU	142.0 mV	16.32 ft	200.00 ml/min
8/6/2025 4:19 PM	35:00	5.61 pH	22.26 °C	453.25 µS/cm	2.08 mg/L	0.48 NTU	139.0 mV	16.32 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-HGWC-8	Grab.
HAM-AP1-FD-01	Grab.

Low-Flow Test Report:

Test Date / Time: 8/7/2025 9:16:40 AM
Project: GP-Plant Hammond
Operator Name: T. Kessler

Location Name: HGWC-9 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 36.97 ft** **Total Depth: 46.97 ft** **Initial Depth to Water: 16.35 ft**	**Pump Type: Peristaltic** **Tubing Type: Poly** **Pump Intake From TOC: 41.97 ft** **Estimated Total Volume Pumped: 7 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 843593**

Test Notes:
Six bottles: Full App. III & IV.

Weather Conditions:
Cloudy, 72 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 5	
8/7/2025 9:16 AM	00:00	6.317 pH	19.98 °C	777.2 µS/cm	0.198 mg/L	0.560 NTU	77.1 mV	16.35 ft	200.0 ml/min
8/7/2025 9:21 AM	05:00	6.318 pH	19.28 °C	820.8 µS/cm	0.153 mg/L	1.320 NTU	85.0 mV	16.35 ft	200.0 ml/min
8/7/2025 9:26 AM	10:00	6.325 pH	19.52 °C	810.4 µS/cm	0.119 mg/L	3.910 NTU	78.2 mV	16.35 ft	200.0 ml/min
8/7/2025 9:31 AM	15:00	6.322 pH	19.54 °C	819.8 µS/cm	0.110 mg/L	0.310 NTU	77.6 mV	16.35 ft	200.0 ml/min
8/7/2025 9:36 AM	20:00	6.325 pH	19.82 °C	813.1 µS/cm	0.115 mg/L	0.290 NTU	77.7 mV	16.35 ft	200.0 ml/min
8/7/2025 9:41 AM	25:00	6.354 pH	19.58 °C	816.5 µS/cm	0.106 mg/L	0.220 NTU	77.0 mV	16.35 ft	200.0 ml/min
8/7/2025 9:46 AM	30:00	6.324 pH	19.75 °C	814.7 µS/cm	0.113 mg/L	0.210 NTU	77.0 mV	16.35 ft	200.0 ml/min

Samples

Sample ID:	Description:
HAM-HGWC-9	Grab.

Low-Flow Test Report:

Test Date / Time: 8/6/2025 2:38:12 PM
Project: GP-Plant Hammond
Operator Name: T. Kessler

Location Name: HGWC-10 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 12.94 ft** **Total Depth: 22.94 ft** **Initial Depth to Water: 14.71 ft**	**Pump Type: Peristaltic** **Tubing Type: Poly** **Pump Intake From TOC: 17.94 ft** **Estimated Total Volume Pumped: 10 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.11 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 843593**

Test Notes:
Six bottles: Full App. III & IV.

Weather Conditions:
Sunny, 80 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 5	
8/6/2025 2:38 PM	00:00	6.461 pH	24.69 °C	271.1 µS/cm	2.720 mg/L	2.110 NTU	105.9 mV	14.82 ft	200.0 ml/min
8/6/2025 2:43 PM	05:00	6.427 pH	22.39 °C	277.8 µS/cm	1.958 mg/L	1.040 NTU	132.6 mV	14.82 ft	200.0 ml/min
8/6/2025 2:48 PM	10:00	6.437 pH	21.73 °C	283.8 µS/cm	1.378 mg/L	1.930 NTU	134.6 mV	14.82 ft	200.0 ml/min
8/6/2025 2:53 PM	15:00	6.464 pH	21.41 °C	299.4 µS/cm	1.228 mg/L	0.840 NTU	133.6 mV	14.82 ft	200.0 ml/min
8/6/2025 2:58 PM	20:00	6.471 pH	21.81 °C	310.3 µS/cm	1.061 mg/L	0.760 NTU	102.5 mV	14.82 ft	200.0 ml/min
8/6/2025 3:03 PM	25:00	6.476 pH	21.92 °C	320.9 µS/cm	0.944 mg/L	0.510 NTU	130.9 mV	14.82 ft	200.0 ml/min
8/6/2025 3:08 PM	30:00	6.482 pH	22.06 °C	329.0 µS/cm	0.822 mg/L	0.340 NTU	105.8 mV	14.82 ft	200.0 ml/min
8/6/2025 3:13 PM	35:00	6.493 pH	21.97 °C	353.0 µS/cm	0.740 mg/L	0.430 NTU	106.1 mV	14.82 ft	200.0 ml/min
8/6/2025 3:18 PM	40:00	6.492 pH	22.10 °C	357.8 µS/cm	0.707 mg/L	0.280 NTU	138.6 mV	14.82 ft	200.0 ml/min
8/6/2025 3:23 PM	45:00	6.507 pH	22.18 °C	368.6 µS/cm	0.651 mg/L	0.420 NTU	142.9 mV	14.82 ft	200.0 ml/min

Samples

Sample ID:	Description:

HAM-HGWC-10	Grab.

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/6/2025 11:39:32 AM
Project: GP-Plant Hammond
Operator Name: T. Kessler

Location Name: HGWC-11 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 15.78 ft** **Total Depth: 25.78 ft** **Initial Depth to Water: 16.33 ft**	**Pump Type: Peristaltic** **Tubing Type: Poly** **Pump Intake From TOC: 20.78 ft** **Estimated Total Volume Pumped: 7 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.07 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 843593**

Test Notes:
Six bottles: Full App. III & IV.

Weather Conditions:
Sunny, 75 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 5	
8/6/2025 11:39 AM	00:00	5.472 pH	22.86 °C	497.1 µS/cm	3.096 mg/L	1.100 NTU	160.5 mV	16.40 ft	200.0 ml/min
8/6/2025 11:44 AM	05:00	5.433 pH	22.15 °C	506.2 µS/cm	3.315 mg/L	1.370 NTU	148.3 mV	16.40 ft	200.0 ml/min
8/6/2025 11:49 AM	10:00	5.421 pH	21.55 °C	511.9 µS/cm	3.266 mg/L	1.130 NTU	195.6 mV	16.40 ft	200.0 ml/min
8/6/2025 11:54 AM	15:00	5.423 pH	21.70 °C	508.9 µS/cm	3.194 mg/L	1.010 NTU	140.6 mV	16.40 ft	200.0 ml/min
8/6/2025 11:59 AM	20:00	5.430 pH	21.55 °C	511.4 µS/cm	3.160 mg/L	0.630 NTU	135.1 mV	16.40 ft	200.0 ml/min
8/6/2025 12:04 PM	25:00	5.436 pH	21.63 °C	508.2 µS/cm	3.144 mg/L	0.190 NTU	133.7 mV	16.40 ft	200.0 ml/min
8/6/2025 12:09 PM	30:00	5.438 pH	21.92 °C	507.0 µS/cm	3.070 mg/L	0.230 NTU	132.0 mV	16.40 ft	200.0 ml/min

Samples

Sample ID:	Description:
HAM-HGWC-11	Grab.

Low-Flow Test Report:

Test Date / Time: 8/6/2025 9:33:18 AM
Project: GP-Plant Hammond
Operator Name: T. Kessler

Location Name: HGWC-12 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 25.42 ft** **Total Depth: 35.42 ft** **Initial Depth to Water: 16.5 ft**	**Pump Type: Bladder** **Tubing Type: Poly** **Pump Intake From TOC: 35.42 ft** **Estimated Total Volume Pumped: 7 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 843593**

Test Notes:
Six bottles: Full app. III and IV.

Weather Conditions:
Cloudy, 70 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 5	
8/6/2025 9:33 AM	00:00	6.999 pH	19.82 °C	786.6 µS/cm	1.702 mg/L	3.790 NTU	67.5 mV	16.50 ft	200.0 ml/min
8/6/2025 9:38 AM	05:00	6.963 pH	19.62 °C	814.7 µS/cm	1.299 mg/L	2.900 NTU	73.7 mV	16.50 ft	200.0 ml/min
8/6/2025 9:43 AM	10:00	6.967 pH	19.58 °C	815.2 µS/cm	1.143 mg/L	3.110 NTU	75.6 mV	16.50 ft	200.0 ml/min
8/6/2025 9:48 AM	15:00	6.971 pH	19.51 °C	816.7 µS/cm	1.048 mg/L	1.030 NTU	85.6 mV	16.50 ft	200.0 ml/min
8/6/2025 9:53 AM	20:00	6.975 pH	19.67 °C	812.6 µS/cm	0.951 mg/L	0.920 NTU	77.5 mV	16.50 ft	200.0 ml/min
8/6/2025 9:58 AM	25:00	6.978 pH	19.63 °C	816.5 µS/cm	0.870 mg/L	0.540 NTU	88.2 mV	16.50 ft	200.0 ml/min
8/6/2025 10:03 AM	30:00	6.980 pH	19.73 °C	814.0 µS/cm	0.798 mg/L	0.830 NTU	79.1 mV	16.50 ft	200.0 ml/min

Samples

Sample ID:	Description:
HAM-HGWC-12	Grab.

Low-Flow Test Report:

Test Date / Time: 8/10/2025 11:05:51 AM
Project: GP-Plant Hammond
Operator Name: J. Newsome

Location Name: HGWC-13 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 35.15 ft** **Total Depth: 45.15 ft** **Initial Depth to Water: 32.01 ft**	**Pump Type: Bladder** **Tubing Type: Poly** **Pump Intake From TOC: 20.15 ft** **Estimated Total Volume Pumped: 6 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965586**

Test Notes:
Six bottles: Full App. III & IV.

Weather Conditions:
Cloudy, 70 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
8/10/2025 11:05 AM	00:00	6.97 pH	22.47 °C	707.29 µS/cm	3.56 mg/L	35.17 NTU	49.9 mV	32.01 ft	200.00 ml/min
8/10/2025 11:10 AM	05:00	6.84 pH	20.48 °C	689.90 µS/cm	3.98 mg/L	20.94 NTU	48.3 mV	32.01 ft	200.00 ml/min
8/10/2025 11:15 AM	10:00	6.81 pH	19.71 °C	719.14 µS/cm	0.63 mg/L	7.89 NTU	45.3 mV	32.01 ft	200.00 ml/min
8/10/2025 11:20 AM	15:00	6.78 pH	19.54 °C	716.00 µS/cm	0.58 mg/L	6.71 NTU	30.1 mV	32.01 ft	200.00 ml/min
8/10/2025 11:25 AM	20:00	6.76 pH	19.54 °C	711.36 µS/cm	0.30 mg/L	5.47 NTU	27.3 mV	32.01 ft	200.00 ml/min
8/10/2025 11:30 AM	25:00	6.77 pH	19.53 °C	696.01 µS/cm	0.35 mg/L	4.74 NTU	11.9 mV	32.01 ft	200.00 ml/min
8/10/2025 11:35 AM	30:00	6.78 pH	19.54 °C	691.29 µS/cm	0.26 mg/L	3.89 NTU	11.2 mV	32.01 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-HGWC-13	Grab.

Low-Flow Test Report:

Test Date / Time: 8/6/2025 12:56:57 PM
Project: GP-Plant Hammond
Operator Name: T. Kessler

Location Name: MW-19 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 19.53 ft** **Total Depth: 29.53 ft** **Initial Depth to Water: 15.53 ft**	**Pump Type: Peristaltic** **Tubing Type: Poly** **Pump Intake From TOC: 24.53 ft** **Estimated Total Volume Pumped: 8 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.02 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 843593**

Test Notes:
Six bottles: Full App. III & IV.

Weather Conditions:
Sunny, 75 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 5	
8/6/2025 12:56 PM	00:00	5.732 pH	23.23 °C	555.3 µS/cm	0.873 mg/L	20.60 NTU	152.5 mV	15.55 ft	200.0 ml/min
8/6/2025 1:01 PM	05:00	5.749 pH	22.75 °C	564.0 µS/cm	0.607 mg/L	23.10 NTU	144.5 mV	15.55 ft	200.0 ml/min
8/6/2025 1:06 PM	10:00	5.823 pH	22.49 °C	577.2 µS/cm	0.423 mg/L	25.90 NTU	185.6 mV	15.55 ft	200.0 ml/min
8/6/2025 1:11 PM	15:00	5.903 pH	21.97 °C	588.7 µS/cm	0.324 mg/L	15.10 NTU	178.9 mV	15.55 ft	200.0 ml/min
8/6/2025 1:16 PM	20:00	5.950 pH	22.05 °C	600.8 µS/cm	0.256 mg/L	10.90 NTU	128.1 mV	15.55 ft	200.0 ml/min
8/6/2025 1:21 PM	25:00	5.978 pH	21.91 °C	608.4 µS/cm	0.213 mg/L	9.510 NTU	165.1 mV	15.55 ft	200.0 ml/min
8/6/2025 1:26 PM	30:00	5.997 pH	22.48 °C	610.0 µS/cm	0.173 mg/L	5.820 NTU	126.1 mV	15.55 ft	200.0 ml/min
8/6/2025 1:31 PM	35:00	6.013 pH	22.64 °C	608.4 µS/cm	0.154 mg/L	4.760 NTU	123.1 mV	15.55 ft	200.0 ml/min

Samples

Sample ID:	Description:
HAM-MW-19	Grab.

Low-Flow Test Report:

Test Date / Time: 8/6/2025 9:27:04 AM
Project: GP-Plant Hammond
Operator Name: J. Newsome

Location Name: MW-20 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 24.37 ft** **Total Depth: 34.37 ft** **Initial Depth to Water: 14.25 ft**	**Pump Type: Bladder** **Tubing Type: Poly** **Pump Intake From TOC: 38.74 ft** **Estimated Total Volume Pumped: 6 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.45 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965586**

Test Notes:
Six bottles: Full App. III & IV.

Weather Conditions:
Overcast, 72 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
8/6/2025 9:27 AM	00:00	6.53 pH	19.23 °C	663.53 µS/cm	1.28 mg/L	11.27 NTU	25.9 mV	14.55 ft	200.00 ml/min
8/6/2025 9:32 AM	05:00	6.56 pH	19.13 °C	689.18 µS/cm	1.04 mg/L	7.94 NTU	13.4 mV	14.55 ft	200.00 ml/min
8/6/2025 9:37 AM	10:00	6.62 pH	19.14 °C	702.17 µS/cm	0.96 mg/L	3.91 NTU	10.6 mV	14.55 ft	200.00 ml/min
8/6/2025 9:42 AM	15:00	6.67 pH	19.10 °C	710.75 µS/cm	0.89 mg/L	2.67 NTU	6.7 mV	14.55 ft	200.00 ml/min
8/6/2025 9:47 AM	20:00	6.68 pH	19.15 °C	712.47 µS/cm	0.91 mg/L	1.68 NTU	-1.2 mV	14.70 ft	200.00 ml/min
8/6/2025 9:52 AM	25:00	6.71 pH	19.30 °C	714.48 µS/cm	0.92 mg/L	1.51 NTU	2.1 mV	14.70 ft	200.00 ml/min
8/6/2025 9:57 AM	30:00	6.73 pH	19.32 °C	715.78 µS/cm	0.85 mg/L	1.57 NTU	-2.7 mV	14.70 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM- MW-20	Grab.

Low-Flow Test Report:

Test Date / Time: 8/10/2025 12:20:04 PM
Project: GP-Plant Hammond
Operator Name: J. Newsome

Location Name: MW-24D **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 62.77 ft** **Total Depth: 72.77 ft** **Initial Depth to Water: 31.35 ft**	**Pump Type: Bladder** **Tubing Type: Poly** **Pump Intake From TOC: 67.77 ft** **Estimated Total Volume Pumped: 6 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965586**

Test Notes:
Six bottles: Full App. III & IV.

Weather Conditions:
Cloudy, 80 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
8/10/2025 12:20 PM	00:00	7.48 pH	20.74 °C	581.48 µS/cm	2.29 mg/L	12.42 NTU	124.7 mV	31.35 ft	200.00 ml/min
8/10/2025 12:25 PM	05:00	7.57 pH	20.39 °C	608.94 µS/cm	1.23 mg/L	10.47 NTU	124.2 mV	31.35 ft	200.00 ml/min
8/10/2025 12:30 PM	10:00	7.62 pH	20.21 °C	607.71 µS/cm	1.12 mg/L	5.56 NTU	120.8 mV	31.35 ft	200.00 ml/min
8/10/2025 12:35 PM	15:00	7.64 pH	20.17 °C	608.42 µS/cm	0.92 mg/L	5.19 NTU	122.4 mV	31.35 ft	200.00 ml/min
8/10/2025 12:40 PM	20:00	7.65 pH	20.13 °C	609.77 µS/cm	0.66 mg/L	4.89 NTU	120.7 mV	31.35 ft	200.00 ml/min
8/10/2025 12:45 PM	25:00	7.66 pH	20.12 °C	582.20 µS/cm	0.59 mg/L	3.42 NTU	120.3 mV	31.35 ft	200.00 ml/min
8/10/2025 12:50 PM	30:00	7.67 pH	20.03 °C	611.47 µS/cm	0.60 mg/L	3.17 NTU	120.3 mV	31.35 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-MW-24D	Grab.

Low-Flow Test Report:

Test Date / Time: 8/6/2025 11:25:24 AM
Project: GP-Plant Hammond
Operator Name: J. Newsome

Location Name: MW-27D **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 53.19 ft** **Total Depth: 63.19 ft** **Initial Depth to Water: 16.73 ft**	**Pump Type: Bladder** **Tubing Type: Poly** **Pump Intake From TOC: 38.74 ft** **Estimated Total Volume Pumped: 31.5 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 100 ml/min** **Final Draw Down: 34.62 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965586**

Test Notes:
Six bottles: Full App. III & IV.

Weather Conditions:
Sunny, 76 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
8/6/2025 11:25 AM	00:00	11.27 pH	20.15 °C	396.06 µS/cm	3.70 mg/L	3.90 NTU	74.7 mV	18.90 ft	200.00 ml/min
8/6/2025 11:30 AM	05:00	11.34 pH	19.89 °C	420.00 µS/cm	3.64 mg/L	3.23 NTU	76.0 mV	20.32 ft	200.00 ml/min
8/6/2025 11:35 AM	10:00	11.37 pH	19.96 °C	436.32 µS/cm	3.56 mg/L	6.63 NTU	76.4 mV	21.94 ft	200.00 ml/min
8/6/2025 11:40 AM	15:00	11.37 pH	19.69 °C	441.64 µS/cm	3.55 mg/L	4.97 NTU	77.6 mV	23.61 ft	200.00 ml/min
8/6/2025 11:45 AM	20:00	11.39 pH	19.59 °C	442.14 µS/cm	3.56 mg/L	2.17 NTU	77.8 mV	24.35 ft	200.00 ml/min
8/6/2025 11:50 AM	25:00	11.17 pH	19.57 °C	441.40 µS/cm	3.56 mg/L	1.81 NTU	78.0 mV	25.86 ft	200.00 ml/min
8/6/2025 11:55 AM	30:00	11.15 pH	19.65 °C	438.93 µS/cm	3.56 mg/L	1.72 NTU	78.4 mV	26.15 ft	200.00 ml/min
8/6/2025 12:00 PM	35:00	11.13 pH	19.54 °C	434.89 µS/cm	3.50 mg/L	1.56 NTU	79.5 mV	28.32 ft	200.00 ml/min
8/6/2025 12:05 PM	40:00	11.15 pH	19.96 °C	431.71 µS/cm	3.48 mg/L	1.47 NTU	79.5 mV	29.74 ft	200.00 ml/min
8/6/2025 12:10 PM	45:00	11.17 pH	20.17 °C	429.37 µS/cm	3.45 mg/L	1.75 NTU	80.1 mV	30.05 ft	200.00 ml/min
8/6/2025 12:15 PM	50:00	11.26 pH	20.12 °C	424.76 µS/cm	3.39 mg/L	1.81 NTU	81.1 mV	31.95 ft	200.00 ml/min
8/6/2025 12:20 PM	55:00	11.30 pH	20.03 °C	420.88 µS/cm	3.39 mg/L	1.71 NTU	82.0 mV	32.18 ft	200.00 ml/min
8/6/2025 12:25 PM	01:00:00	11.31 pH	20.02 °C	418.77 µS/cm	3.33 mg/L	1.66 NTU	82.1 mV	34.12 ft	200.00 ml/min

8/6/2025 12:30 PM	01:05:00	11.33 pH	20.17 °C	415.41 µS/cm	3.42 mg/L	1.61 NTU	82.4 mV	35.32 ft	200.00 ml/min
8/6/2025 12:35 PM	01:10:00	11.32 pH	20.21 °C	410.65 µS/cm	3.28 mg/L	1.74 NTU	83.4 mV	36.18 ft	200.00 ml/min
8/6/2025 12:40 PM	01:15:00	11.34 pH	20.11 °C	409.55 µS/cm	3.35 mg/L	1.11 NTU	83.7 mV	37.27 ft	200.00 ml/min
8/6/2025 12:45 PM	01:20:00	11.33 pH	20.49 °C	404.29 µS/cm	3.26 mg/L	1.22 NTU	83.9 mV	38.40 ft	200.00 ml/min
8/6/2025 12:50 PM	01:25:00	11.35 pH	20.12 °C	402.22 µS/cm	3.34 mg/L	1.08 NTU	84.1 mV	39.87 ft	200.00 ml/min
8/6/2025 12:55 PM	01:30:00	11.34 pH	20.25 °C	402.51 µS/cm	3.39 mg/L	1.47 NTU	85.0 mV	40.51 ft	200.00 ml/min
8/6/2025 1:00 PM	01:35:00	11.34 pH	20.25 °C	394.19 µS/cm	3.33 mg/L	1.01 NTU	86.0 mV	41.50 ft	200.00 ml/min
8/6/2025 1:05 PM	01:40:00	11.33 pH	20.12 °C	387.04 µS/cm	3.23 mg/L	1.31 NTU	86.3 mV	42.27 ft	200.00 ml/min
8/6/2025 1:10 PM	01:45:00	11.32 pH	20.14 °C	382.31 µS/cm	3.20 mg/L	1.61 NTU	86.3 mV	43.40 ft	200.00 ml/min
8/6/2025 1:15 PM	01:50:00	11.29 pH	20.70 °C	375.48 µS/cm	3.12 mg/L	1.04 NTU	86.5 mV	44.50 ft	200.00 ml/min
8/6/2025 1:20 PM	01:55:00	11.27 pH	20.94 °C	369.73 µS/cm	3.19 mg/L	0.88 NTU	87.3 mV	45.35 ft	200.00 ml/min
8/6/2025 1:25 PM	02:00:00	11.25 pH	21.42 °C	362.65 µS/cm	3.06 mg/L	0.97 NTU	87.9 mV	46.20 ft	200.00 ml/min
8/6/2025 1:30 PM	02:05:00	11.20 pH	22.26 °C	356.39 µS/cm	3.18 mg/L	0.86 NTU	87.5 mV	46.30 ft	100.00 ml/min
8/6/2025 1:35 PM	02:10:00	11.15 pH	22.46 °C	338.27 µS/cm	3.08 mg/L	0.75 NTU	89.3 mV	47.10 ft	100.00 ml/min
8/6/2025 1:40 PM	02:15:00	11.14 pH	21.87 °C	336.92 µS/cm	3.10 mg/L	0.76 NTU	90.1 mV	47.50 ft	100.00 ml/min
8/6/2025 1:45 PM	02:20:00	11.16 pH	21.55 °C	336.65 µS/cm	3.14 mg/L	0.81 NTU	90.6 mV	48.00 ft	100.00 ml/min
8/6/2025 1:50 PM	02:25:00	11.11 pH	22.22 °C	330.93 µS/cm	3.12 mg/L	0.74 NTU	90.7 mV	48.52 ft	100.00 ml/min
8/6/2025 1:55 PM	02:30:00	11.09 pH	22.04 °C	325.46 µS/cm	3.11 mg/L	0.78 NTU	91.3 mV	48.97 ft	100.00 ml/min
8/6/2025 2:00 PM	02:35:00	11.07 pH	22.31 °C	321.38 µS/cm	3.09 mg/L	0.79 NTU	91.5 mV	49.41 ft	100.00 ml/min
8/6/2025 2:05 PM	02:40:00	11.03 pH	21.95 °C	315.01 µS/cm	3.11 mg/L	0.80 NTU	92.0 mV	49.75 ft	100.00 ml/min
8/6/2025 2:10 PM	02:45:00	11.04 pH	21.28 °C	305.64 µS/cm	3.07 mg/L	0.77 NTU	92.9 mV	50.31 ft	100.00 ml/min
8/6/2025 2:15 PM	02:50:00	11.02 pH	21.33 °C	304.52 µS/cm	2.99 mg/L	0.94 NTU	91.6 mV	50.52 ft	100.00 ml/min
8/6/2025 2:20 PM	02:55:00	10.92 pH	23.38 °C	300.94 µS/cm	3.35 mg/L	0.74 NTU	91.0 mV	50.70 ft	100.00 ml/min
8/6/2025 2:25 PM	03:00:00	10.82 pH	23.20 °C	282.72 µS/cm	3.27 mg/L	0.61 NTU	92.4 mV	51.01 ft	100.00 ml/min
8/6/2025 2:30 PM	03:05:00	10.75 pH	21.72 °C	267.03 µS/cm	2.89 mg/L	0.98 NTU	92.2 mV	51.17 ft	100.00 ml/min
8/6/2025 2:35 PM	03:10:00	10.73 pH	21.73 °C	272.08 µS/cm	2.93 mg/L	0.84 NTU	91.0 mV	51.21 ft	100.00 ml/min
8/6/2025 2:40 PM	03:15:00	10.70 pH	22.12 °C	267.18 µS/cm	2.95 mg/L	0.86 NTU	91.9 mV	51.35 ft	100.00 ml/min

Samples

Sample ID:	Description:
HAM-MW-27D	Grab.

Created using VuSitu from In-Situ, Inc.

Plant Hammond AP-1 Surface Water Samples 08/04/2025

Sample ID	Time	Sample Depth	Total Depth	Temp (°C)	pH	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Conductance (mS/cm)	Coordinates
HAM-H-SCC-NBR	1057	Surface	< 10 ft	22.7	7.14	117.2	6.75	44.4	0.1690	34.261192, -85.336247
HAM-H-SCC	1041	Surface	< 10 ft	25.0	7.35	113.9	5.48	42.8	0.1799	34.251869, -85.338019

Plant Hammond AP-1/AP-2 Surface Water Samples 08/04/2025

Sample ID	Time	Sample Depth	Total Depth	Temp (°C)	pH	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Conductance (mS/cm)	Coordinates
HAM-H+0.25	1008	Surface	< 10 ft	25.2	7.53	121.6	6.33	44.7	0.1965	34.249261, -85.350334

CORRECTIVE ACTION PIEZOMETER SAMPLING (AUGUST 2025)

Low-Flow Test Report:

Test Date / Time: 8/11/2025 3:00:03 PM
Project: GP-Plant Hammond
Operator Name: A. Tomlinson

Location Name: MW-53 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 26.35 ft** **Total Depth: 36.35 ft** **Initial Depth to Water: 16.78 ft**	**Pump Type: Bladder** **Tubing Type: Poly** **Pump Intake From TOC: 31.35 ft** **Estimated Total Volume Pumped: 34 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.03 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 843593**

Test Notes:
Three bottles: Metals & Alkalinity.
Fe = 0 mg/L.

Weather Conditions:
Cloudy, 84 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 5	
8/11/2025 3:00 PM	00:00	7.107 pH	22.93 °C	833.2 µS/cm	0.424 mg/L	1,000 NTU	83.4 mV	16.80 ft	200.0 ml/min
8/11/2025 3:05 PM	05:00	7.111 pH	19.70 °C	883.4 µS/cm	0.783 mg/L	1,000 NTU	92.2 mV	16.81 ft	200.0 ml/min
8/11/2025 3:10 PM	10:00	7.121 pH	19.52 °C	881.3 µS/cm	0.694 mg/L	1,000 NTU	94.6 mV	16.81 ft	200.0 ml/min
8/11/2025 3:15 PM	15:00	7.107 pH	19.36 °C	884.4 µS/cm	0.643 mg/L	1,000 NTU	94.6 mV	16.81 ft	200.0 ml/min
8/11/2025 3:20 PM	20:00	7.105 pH	19.31 °C	882.5 µS/cm	0.624 mg/L	1,000 NTU	93.7 mV	16.81 ft	200.0 ml/min
8/11/2025 3:25 PM	25:00	7.098 pH	19.69 °C	883.5 µS/cm	0.659 mg/L	1,000 NTU	93.2 mV	16.81 ft	200.0 ml/min
8/11/2025 3:30 PM	30:00	7.097 pH	19.31 °C	884.2 µS/cm	0.595 mg/L	83.20 NTU	93.5 mV	16.81 ft	200.0 ml/min
8/11/2025 3:35 PM	35:00	7.097 pH	18.99 °C	889.2 µS/cm	0.580 mg/L	66.30 NTU	93.7 mV	16.81 ft	200.0 ml/min
8/11/2025 3:40 PM	40:00	7.093 pH	19.00 °C	886.1 µS/cm	0.594 mg/L	53.20 NTU	92.2 mV	16.81 ft	200.0 ml/min
8/11/2025 3:45 PM	45:00	7.091 pH	18.90 °C	887.0 µS/cm	0.393 mg/L	41.10 NTU	92.1 mV	16.81 ft	200.0 ml/min
8/11/2025 3:50 PM	50:00	7.092 pH	18.66 °C	898.2 µS/cm	0.520 mg/L	32.70 NTU	106.1 mV	16.81 ft	200.0 ml/min
8/11/2025 3:55 PM	55:00	7.088 pH	19.18 °C	882.7 µS/cm	0.308 mg/L	28.00 NTU	91.0 mV	16.81 ft	200.0 ml/min
8/11/2025 4:00 PM	01:00:00	7.084 pH	19.06 °C	885.7 µS/cm	0.517 mg/L	24.70 NTU	89.9 mV	16.81 ft	200.0 ml/min

8/11/2025 4:05 PM	01:05:00	7.081 pH	19.09 °C	886.5 µS/cm	0.532 mg/L	25.70 NTU	89.4 mV	16.81 ft	200.0 ml/min
8/11/2025 4:10 PM	01:10:00	7.075 pH	19.83 °C	878.9 µS/cm	0.431 mg/L	29.40 NTU	89.7 mV	16.81 ft	200.0 ml/min
8/11/2025 4:15 PM	01:15:00	7.066 pH	19.59 °C	885.3 µS/cm	0.304 mg/L	32.30 NTU	105.2 mV	16.81 ft	200.0 ml/min
8/11/2025 4:20 PM	01:20:00	7.070 pH	19.47 °C	882.0 µS/cm	0.480 mg/L	36.50 NTU	92.4 mV	16.81 ft	200.0 ml/min
8/11/2025 4:25 PM	01:25:00	7.076 pH	18.79 °C	894.1 µS/cm	0.513 mg/L	33.90 NTU	108.2 mV	16.81 ft	200.0 ml/min
8/11/2025 4:30 PM	01:30:00	7.077 pH	18.96 °C	888.8 µS/cm	0.185 mg/L	29.40 NTU	91.9 mV	16.81 ft	200.0 ml/min
8/11/2025 4:35 PM	01:35:00	7.076 pH	18.61 °C	896.0 µS/cm	0.511 mg/L	27.20 NTU	104.9 mV	16.81 ft	200.0 ml/min
8/11/2025 4:40 PM	01:40:00	7.078 pH	18.99 °C	885.4 µS/cm	0.464 mg/L	21.70 NTU	89.9 mV	16.81 ft	200.0 ml/min
8/11/2025 4:45 PM	01:45:00	7.075 pH	18.57 °C	897.0 µS/cm	0.391 mg/L	19.80 NTU	100.9 mV	16.81 ft	200.0 ml/min
8/11/2025 4:50 PM	01:50:00	7.073 pH	18.94 °C	886.8 µS/cm	0.309 mg/L	19.00 NTU	87.7 mV	16.81 ft	200.0 ml/min
8/11/2025 4:55 PM	01:55:00	7.071 pH	18.59 °C	894.3 µS/cm	0.418 mg/L	13.50 NTU	99.0 mV	16.81 ft	200.0 ml/min
8/11/2025 5:00 PM	02:00:00	7.068 pH	18.93 °C	888.6 µS/cm	0.280 mg/L	10.50 NTU	86.9 mV	16.81 ft	200.0 ml/min
8/11/2025 5:05 PM	02:05:00	7.066 pH	19.14 °C	880.9 µS/cm	0.371 mg/L	7.630 NTU	86.6 mV	16.81 ft	200.0 ml/min
8/11/2025 5:10 PM	02:10:00	7.067 pH	19.02 °C	888.0 µS/cm	0.361 mg/L	6.340 NTU	86.2 mV	16.81 ft	200.0 ml/min
8/11/2025 5:15 PM	02:15:00	7.064 pH	18.70 °C	894.4 µS/cm	0.379 mg/L	5.720 NTU	98.3 mV	16.81 ft	200.0 ml/min
8/11/2025 5:20 PM	02:20:00	7.064 pH	19.05 °C	883.6 µS/cm	0.201 mg/L	6.280 NTU	86.8 mV	16.81 ft	200.0 ml/min
8/11/2025 5:25 PM	02:25:00	7.061 pH	18.70 °C	894.2 µS/cm	0.359 mg/L	6.700 NTU	98.7 mV	16.81 ft	200.0 ml/min
8/11/2025 5:30 PM	02:30:00	7.065 pH	19.10 °C	884.3 µS/cm	0.248 mg/L	6.610 NTU	87.3 mV	16.81 ft	200.0 ml/min
8/11/2025 5:35 PM	02:35:00	7.067 pH	19.06 °C	885.0 µS/cm	0.322 mg/L	6.160 NTU	86.1 mV	16.81 ft	200.0 ml/min
8/11/2025 5:40 PM	02:40:00	7.065 pH	19.04 °C	892.1 µS/cm	0.472 mg/L	4.980 NTU	98.8 mV	16.81 ft	200.0 ml/min
8/11/2025 5:45 PM	02:45:00	7.063 pH	19.67 °C	879.9 µS/cm	0.367 mg/L	4.170 NTU	87.9 mV	16.81 ft	200.0 ml/min

Samples

Sample ID:	Description:
HAM-MW-53	Grab.
HAM-AP1-FD-03	Grab.

Low-Flow Test Report:

Test Date / Time: 8/11/2025 3:28:04 PM
Project: GP-Plant Hammond
Operator Name: J. Newsome

Location Name: MW-54 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 28 ft** **Total Depth: 38 ft** **Initial Depth to Water: 26.59 ft**	**Pump Type: Bladder** **Tubing Type: Polyethylene** **Pump Intake From TOC: 33 ft** **Estimated Total Volume Pumped: 15 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.22 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965586**

Test Notes:
Three bottles: Metals & Alkalinity.
Fe = 0.5 mg/L.

Weather Conditions:
Sunny, 85 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
8/11/2025 3:28 PM	00:00	5.23 pH	23.20 °C	414.57 µS/cm	2.07 mg/L	42.90 NTU	205.1 mV	26.77 ft	200.00 ml/min
8/11/2025 3:33 PM	05:00	5.02 pH	21.59 °C	423.91 µS/cm	2.04 mg/L	27.80 NTU	206.0 mV	26.77 ft	200.00 ml/min
8/11/2025 3:38 PM	10:00	4.94 pH	21.29 °C	426.67 µS/cm	2.01 mg/L	16.30 NTU	206.2 mV	26.81 ft	200.00 ml/min
8/11/2025 3:43 PM	15:00	5.59 pH	21.15 °C	533.99 µS/cm	1.51 mg/L	12.40 NTU	165.7 mV	26.81 ft	200.00 ml/min
8/11/2025 3:48 PM	20:00	6.14 pH	21.09 °C	623.67 µS/cm	0.88 mg/L	9.43 NTU	156.1 mV	26.81 ft	200.00 ml/min
8/11/2025 3:53 PM	25:00	6.25 pH	21.23 °C	632.80 µS/cm	0.76 mg/L	9.39 NTU	149.2 mV	26.81 ft	200.00 ml/min
8/11/2025 3:58 PM	30:00	6.29 pH	21.12 °C	639.75 µS/cm	0.66 mg/L	8.70 NTU	147.2 mV	26.81 ft	200.00 ml/min
8/11/2025 4:03 PM	35:00	6.32 pH	21.15 °C	638.78 µS/cm	0.63 mg/L	7.33 NTU	146.7 mV	26.81 ft	200.00 ml/min
8/11/2025 4:08 PM	40:00	6.34 pH	21.35 °C	645.00 µS/cm	0.53 mg/L	5.97 NTU	150.3 mV	26.81 ft	200.00 ml/min
8/11/2025 4:13 PM	45:00	6.34 pH	21.60 °C	645.03 µS/cm	0.49 mg/L	6.13 NTU	147.7 mV	26.81 ft	200.00 ml/min
8/11/2025 4:18 PM	50:00	6.35 pH	21.61 °C	646.99 µS/cm	0.43 mg/L	7.34 NTU	148.7 mV	26.81 ft	200.00 ml/min
8/11/2025 4:23 PM	55:00	6.37 pH	21.31 °C	650.46 µS/cm	0.39 mg/L	5.99 NTU	153.9 mV	26.81 ft	200.00 ml/min
8/11/2025 4:28 PM	01:00:00	6.37 pH	21.12 °C	652.44 µS/cm	0.42 mg/L	5.84 NTU	153.8 mV	26.81 ft	200.00 ml/min

8/11/2025 4:33 PM	01:05:00	6.36 pH	21.23 °C	654.24 µS/cm	0.37 mg/L	5.99 NTU	149.3 mV	26.81 ft	200.00 ml/min
8/11/2025 4:38 PM	01:10:00	6.37 pH	21.10 °C	657.04 µS/cm	0.32 mg/L	5.26 NTU	148.2 mV	26.81 ft	200.00 ml/min
8/11/2025 4:43 PM	01:15:00	6.38 pH	21.14 °C	655.50 µS/cm	0.37 mg/L	4.72 NTU	151.9 mV	26.81 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-MW-54.	Grab.

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/11/2025 10:15:48 AM
Project: GP-Plant Hammond
Operator Name: J. Newsome

Location Name: PT-07 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 37.75 ft** **Total Depth: 47.75 ft** **Initial Depth to Water: 26.77 ft**	**Pump Type: Bladder** **Tubing Type: Polyethylene** **Pump Intake From TOC: 42.75 ft** **Estimated Total Volume Pumped: 12 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.03 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965586**

Test Notes:
Three bottles: Metals & Alkalinity.
Fe = 3.0 mg/L.

Weather Conditions:
Cloudy, 76 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
8/11/2025 10:15 AM	00:00	7.22 pH	21.45 °C	638.42 µS/cm	5.28 mg/L	13.25 NTU	143.8 mV	26.80 ft	200.00 ml/min
8/11/2025 10:20 AM	05:00	7.14 pH	20.57 °C	643.81 µS/cm	5.84 mg/L	9.74 NTU	141.3 mV	26.80 ft	200.00 ml/min
8/11/2025 10:25 AM	10:00	7.09 pH	20.41 °C	650.37 µS/cm	6.02 mg/L	4.68 NTU	113.8 mV	26.80 ft	200.00 ml/min
8/11/2025 10:30 AM	15:00	6.83 pH	20.34 °C	695.28 µS/cm	4.21 mg/L	4.12 NTU	38.1 mV	26.80 ft	200.00 ml/min
8/11/2025 10:35 AM	20:00	6.80 pH	20.26 °C	701.24 µS/cm	4.21 mg/L	3.76 NTU	32.7 mV	26.80 ft	200.00 ml/min
8/11/2025 10:40 AM	25:00	6.81 pH	20.24 °C	703.51 µS/cm	4.42 mg/L	3.45 NTU	29.8 mV	26.80 ft	200.00 ml/min
8/11/2025 10:45 AM	30:00	6.79 pH	20.21 °C	709.04 µS/cm	4.23 mg/L	4.00 NTU	26.4 mV	26.80 ft	200.00 ml/min
8/11/2025 10:50 AM	35:00	6.80 pH	20.19 °C	714.82 µS/cm	4.02 mg/L	4.12 NTU	22.3 mV	26.80 ft	200.00 ml/min
8/11/2025 10:55 AM	40:00	6.81 pH	20.15 °C	716.11 µS/cm	4.05 mg/L	3.96 NTU	20.4 mV	26.80 ft	200.00 ml/min
8/11/2025 11:00 AM	45:00	6.83 pH	20.17 °C	714.89 µS/cm	4.30 mg/L	3.75 NTU	19.6 mV	26.80 ft	200.00 ml/min
8/11/2025 11:05 AM	50:00	6.82 pH	20.17 °C	719.77 µS/cm	4.09 mg/L	4.02 NTU	16.4 mV	26.80 ft	200.00 ml/min
8/11/2025 11:10 AM	55:00	6.83 pH	20.30 °C	721.16 µS/cm	4.12 mg/L	3.95 NTU	15.0 mV	26.80 ft	200.00 ml/min
8/11/2025 11:15 AM	01:00:00	6.84 pH	20.38 °C	721.77 µS/cm	4.11 mg/L	3.67 NTU	10.3 mV	26.80 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-07	Grab.

Low-Flow Test Report:

Test Date / Time: 8/11/2025 1:14:32 PM
Project: GP-Plant Hammond
Operator Name: A. Tomlinson

Location Name: PT-08 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 31.93 ft** **Total Depth: 41.93 ft** **Initial Depth to Water: 26.39 ft**	**Pump Type: Peristaltic** **Tubing Type: Poly** **Pump Intake From TOC: 36.93 ft** **Estimated Total Volume Pumped: 10 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.05 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 843593**

Test Notes:
Three bottles: Metals & Alkalinity.
Fe = 0.5 mg/L.

Weather Conditions:
Overcast, 82 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 5	
8/11/2025 1:14 PM	00:00	6.685 pH	22.19 °C	652.8 µS/cm	0.638 mg/L	48.30 NTU	64.7 mV	26.44 ft	200.0 ml/min
8/11/2025 1:19 PM	05:00	6.641 pH	20.04 °C	676.4 µS/cm	0.673 mg/L	26.70 NTU	61.0 mV	26.44 ft	200.0 ml/min
8/11/2025 1:24 PM	10:00	6.648 pH	20.52 °C	673.5 µS/cm	0.519 mg/L	19.50 NTU	55.3 mV	26.44 ft	200.0 ml/min
8/11/2025 1:29 PM	15:00	6.662 pH	19.90 °C	683.7 µS/cm	0.425 mg/L	17.00 NTU	50.1 mV	26.44 ft	200.0 ml/min
8/11/2025 1:34 PM	20:00	6.674 pH	20.91 °C	673.7 µS/cm	0.329 mg/L	25.20 NTU	48.7 mV	26.44 ft	200.0 ml/min
8/11/2025 1:39 PM	25:00	6.688 pH	20.22 °C	686.5 µS/cm	0.280 mg/L	11.40 NTU	46.5 mV	26.44 ft	200.0 ml/min
8/11/2025 1:44 PM	30:00	6.694 pH	19.90 °C	688.5 µS/cm	0.243 mg/L	8.070 NTU	40.7 mV	26.44 ft	200.0 ml/min
8/11/2025 1:49 PM	35:00	6.698 pH	20.59 °C	683.3 µS/cm	0.209 mg/L	6.040 NTU	41.0 mV	26.44 ft	200.0 ml/min
8/11/2025 1:54 PM	40:00	6.704 pH	20.81 °C	684.8 µS/cm	0.186 mg/L	5.070 NTU	38.9 mV	26.44 ft	200.0 ml/min
8/11/2025 1:59 PM	45:00	6.708 pH	20.48 °C	688.1 µS/cm	0.167 mg/L	4.410 NTU	33.8 mV	26.44 ft	200.0 ml/min

Samples

Sample ID:	Description:

HAM-PT-08	Grab.

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/10/2025 3:12:05 PM
Project: GP-Plant Hammond
Operator Name: J. Newsome

Location Name: PT-09 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 20.47 ft** **Total Depth: 30.47 ft** **Initial Depth to Water: 17.11 ft**	**Pump Type: Peristaltic** **Tubing Type: Polyethylene** **Pump Intake From TOC: 25.47 ft** **Estimated Total Volume Pumped: 9 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965586**

Test Notes:
Three bottles: Metals & Alkalinity.
Fe = 0 mg/L.

Weather Conditions:
Cloudy, 85 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
8/10/2025 3:12 PM	00:00	6.62 pH	21.86 °C	663.23 µS/cm	1.08 mg/L	17.80 NTU	141.9 mV	17.11 ft	200.00 ml/min
8/10/2025 3:17 PM	05:00	6.61 pH	21.01 °C	669.37 µS/cm	1.01 mg/L	30.70 NTU	144.1 mV	17.11 ft	200.00 ml/min
8/10/2025 3:22 PM	10:00	6.63 pH	20.79 °C	674.99 µS/cm	0.96 mg/L	24.30 NTU	139.7 mV	17.11 ft	200.00 ml/min
8/10/2025 3:27 PM	15:00	6.64 pH	20.88 °C	678.46 µS/cm	0.95 mg/L	19.00 NTU	139.4 mV	17.11 ft	200.00 ml/min
8/10/2025 3:32 PM	20:00	6.65 pH	20.79 °C	678.49 µS/cm	0.90 mg/L	13.30 NTU	139.5 mV	17.11 ft	200.00 ml/min
8/10/2025 3:37 PM	25:00	6.66 pH	20.92 °C	683.15 µS/cm	0.83 mg/L	10.70 NTU	139.3 mV	17.11 ft	200.00 ml/min
8/10/2025 3:42 PM	30:00	6.67 pH	20.87 °C	674.72 µS/cm	0.88 mg/L	12.25 NTU	139.5 mV	17.11 ft	200.00 ml/min
8/10/2025 3:47 PM	35:00	6.68 pH	21.05 °C	687.07 µS/cm	0.99 mg/L	8.51 NTU	139.0 mV	17.11 ft	200.00 ml/min
8/10/2025 3:52 PM	40:00	6.69 pH	20.83 °C	677.23 µS/cm	0.97 mg/L	5.26 NTU	139.1 mV	17.11 ft	200.00 ml/min
8/10/2025 3:57 PM	45:00	6.70 pH	20.83 °C	693.73 µS/cm	0.99 mg/L	4.66 NTU	138.9 mV	17.11 ft	200.00 ml/min

Samples

Sample ID:	Description:

HAM-PT-09	Grab.

Low-Flow Test Report:

Test Date / Time: 8/10/2025 3:22:25 PM
Project: GP-Plant Hammond
Operator Name: A. Tomlinson

Location Name: PT-10 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 20.45 ft** **Total Depth: 30.45 ft** **Initial Depth to Water: 17.03 ft**	**Pump Type: Peristaltic** **Tubing Type: Poly** **Pump Intake From TOC: 25.45 ft** **Estimated Total Volume Pumped: 10 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.03 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 843593**

Test Notes:
Three bottles: Metals & Alkalinity.
Fe = 0 mg/L.

Weather Conditions:
Cloudy, 82 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 5	
8/10/2025 3:22 PM	00:00	7.005 pH	21.50 °C	793.1 µS/cm	0.102 mg/L	1.280 NTU	3.3 mV	17.05 ft	200.0 ml/min
8/10/2025 3:27 PM	05:00	6.968 pH	19.86 °C	815.5 µS/cm	0.082 mg/L	1.020 NTU	-4.8 mV	17.06 ft	200.0 ml/min
8/10/2025 3:32 PM	10:00	6.939 pH	20.49 °C	799.3 µS/cm	0.057 mg/L	0.970 NTU	12.1 mV	17.06 ft	200.0 ml/min
8/10/2025 3:37 PM	15:00	6.920 pH	20.32 °C	789.4 µS/cm	0.051 mg/L	0.630 NTU	19.7 mV	17.06 ft	200.0 ml/min
8/10/2025 3:42 PM	20:00	6.860 pH	20.14 °C	767.2 µS/cm	0.043 mg/L	0.840 NTU	29.1 mV	17.06 ft	200.0 ml/min
8/10/2025 3:47 PM	25:00	6.799 pH	20.28 °C	753.2 µS/cm	0.041 mg/L	1.050 NTU	36.8 mV	17.06 ft	200.0 ml/min
8/10/2025 3:52 PM	30:00	6.801 pH	21.64 °C	757.8 µS/cm	0.720 mg/L	1.200 NTU	26.1 mV	17.06 ft	200.0 ml/min
8/10/2025 3:57 PM	35:00	6.800 pH	19.63 °C	758.5 µS/cm	0.136 mg/L	0.360 NTU	29.4 mV	17.06 ft	200.0 ml/min
8/10/2025 4:02 PM	40:00	6.799 pH	19.92 °C	749.7 µS/cm	0.085 mg/L	0.390 NTU	37.4 mV	17.06 ft	200.0 ml/min
8/10/2025 4:07 PM	45:00	6.792 pH	19.81 °C	754.2 µS/cm	0.082 mg/L	0.520 NTU	36.8 mV	17.06 ft	200.0 ml/min

Samples

Sample ID:	Description:

HAM-PT-10	Grab.

Low-Flow Test Report:

Test Date / Time: 8/10/2025 2:03:40 PM
Project: GP-Plant Hammond
Operator Name: A. Tomlinson

Location Name: PT-11 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 16.9 ft** **Total Depth: 26.9 ft** **Initial Depth to Water: 13.58 ft**	**Pump Type: Peristaltic** **Tubing Type: Poly** **Pump Intake From TOC: 21.9 ft** **Estimated Total Volume Pumped: 9 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.02 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 843593**

Test Notes:
Three bottles: Metals & Alkalinity.
Fe = 0.5 mg/L.

Weather Conditions:
Overcast, 81 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 5	
8/10/2025 2:03 PM	00:00	6.998 pH	22.91 °C	547.2 µS/cm	0.751 mg/L	8.110 NTU	81.7 mV	13.60 ft	200.0 ml/min
8/10/2025 2:08 PM	05:00	6.959 pH	20.85 °C	583.9 µS/cm	0.569 mg/L	7.370 NTU	90.7 mV	13.60 ft	200.0 ml/min
8/10/2025 2:13 PM	10:00	6.941 pH	20.86 °C	580.8 µS/cm	0.495 mg/L	6.910 NTU	94.0 mV	13.60 ft	200.0 ml/min
8/10/2025 2:18 PM	15:00	6.945 pH	20.77 °C	581.9 µS/cm	0.480 mg/L	7.380 NTU	96.3 mV	13.60 ft	200.0 ml/min
8/10/2025 2:23 PM	20:00	6.937 pH	21.02 °C	581.6 µS/cm	0.475 mg/L	7.610 NTU	98.7 mV	13.60 ft	200.0 ml/min
8/10/2025 2:28 PM	25:00	6.931 pH	21.17 °C	583.2 µS/cm	0.320 mg/L	6.590 NTU	101.1 mV	13.60 ft	200.0 ml/min
8/10/2025 2:33 PM	30:00	6.926 pH	20.87 °C	591.0 µS/cm	0.279 mg/L	7.050 NTU	103.9 mV	13.60 ft	200.0 ml/min
8/10/2025 2:38 PM	35:00	6.911 pH	20.68 °C	608.0 µS/cm	0.254 mg/L	5.700 NTU	105.1 mV	13.60 ft	200.0 ml/min
8/10/2025 2:43 PM	40:00	6.900 pH	20.37 °C	618.0 µS/cm	0.247 mg/L	4.390 NTU	104.2 mV	13.60 ft	200.0 ml/min

Samples

Sample ID:	Description:
HAM-PT-11	Grab.

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/10/2025 2:10:06 PM
Project: GP-Plant Hammond
Operator Name: J. Newsome

Location Name: PT-12 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 17.3 ft** **Total Depth: 27.3 ft** **Initial Depth to Water: 13.59 ft**	**Pump Type: Bladder** **Tubing Type: Polyethylene** **Pump Intake From TOC: 22.3 ft** **Estimated Total Volume Pumped: 6 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.02 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965586**

Test Notes:
Three bottles: Metals & Alkalinity.
Fe = 0 mg/L.

Weather Conditions:
Cloudy, 85 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
8/10/2025 2:10 PM	00:00	6.31 pH	20.88 °C	546.30 µS/cm	0.74 mg/L	1.54 NTU	145.9 mV	13.61 ft	200.00 ml/min
8/10/2025 2:15 PM	05:00	6.20 pH	20.65 °C	552.65 µS/cm	0.68 mg/L	1.61 NTU	150.2 mV	13.61 ft	200.00 ml/min
8/10/2025 2:20 PM	10:00	6.18 pH	20.63 °C	564.95 µS/cm	0.66 mg/L	1.13 NTU	145.5 mV	13.61 ft	200.00 ml/min
8/10/2025 2:25 PM	15:00	6.23 pH	21.00 °C	586.82 µS/cm	0.67 mg/L	1.10 NTU	143.8 mV	13.61 ft	200.00 ml/min
8/10/2025 2:30 PM	20:00	6.34 pH	21.02 °C	612.68 µS/cm	0.63 mg/L	1.01 NTU	141.8 mV	13.61 ft	200.00 ml/min
8/10/2025 2:35 PM	25:00	6.40 pH	20.57 °C	620.23 µS/cm	0.60 mg/L	1.74 NTU	141.6 mV	13.61 ft	200.00 ml/min
8/10/2025 2:40 PM	30:00	6.43 pH	20.66 °C	622.80 µS/cm	0.57 mg/L	1.29 NTU	141.7 mV	13.61 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-12	Grab.

Low-Flow Test Report:

Test Date / Time: 8/11/2025 11:56:15 AM
Project: GP-Plant Hammond
Operator Name: J. Newsome

Location Name: PT-13 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 35.3 ft** **Total Depth: 45.3 ft** **Initial Depth to Water: 26.18 ft**	**Pump Type: Bladder** **Tubing Type: Polyethylene** **Pump Intake From TOC: 40.3 ft** **Estimated Total Volume Pumped: 31 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.17 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965586**

Test Notes:
Three bottles: Metals & Alkalinity.
Fe = 4 mg/L.

Weather Conditions:
Cloudy, 78 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
8/11/2025 11:56 AM	00:00	6.85 pH	22.19 °C	702.30 µS/cm	1.41 mg/L	77.80 NTU	17.2 mV	26.18 ft	200.00 ml/min
8/11/2025 12:01 PM	05:00	6.84 pH	21.09 °C	710.35 µS/cm	1.70 mg/L	53.90 NTU	18.6 mV	26.30 ft	200.00 ml/min
8/11/2025 12:06 PM	10:00	6.84 pH	20.83 °C	710.25 µS/cm	1.93 mg/L	42.40 NTU	19.9 mV	26.30 ft	200.00 ml/min
8/11/2025 12:11 PM	15:00	6.84 pH	20.69 °C	711.61 µS/cm	2.00 mg/L	37.40 NTU	20.2 mV	26.30 ft	200.00 ml/min
8/11/2025 12:16 PM	20:00	6.84 pH	20.66 °C	712.16 µS/cm	2.02 mg/L	34.00 NTU	20.1 mV	26.35 ft	200.00 ml/min
8/11/2025 12:21 PM	25:00	6.84 pH	20.59 °C	712.23 µS/cm	2.17 mg/L	30.70 NTU	20.5 mV	26.35 ft	200.00 ml/min
8/11/2025 12:26 PM	30:00	6.85 pH	20.57 °C	713.49 µS/cm	2.26 mg/L	28.40 NTU	20.3 mV	26.35 ft	200.00 ml/min
8/11/2025 12:31 PM	35:00	6.84 pH	20.55 °C	714.28 µS/cm	2.37 mg/L	25.90 NTU	20.7 mV	26.35 ft	200.00 ml/min
8/11/2025 12:36 PM	40:00	6.85 pH	20.56 °C	714.65 µS/cm	2.43 mg/L	23.60 NTU	20.0 mV	26.35 ft	200.00 ml/min
8/11/2025 12:41 PM	45:00	6.85 pH	20.67 °C	715.91 µS/cm	2.47 mg/L	20.70 NTU	19.7 mV	26.35 ft	200.00 ml/min
8/11/2025 12:46 PM	50:00	6.85 pH	20.74 °C	715.92 µS/cm	2.43 mg/L	16.40 NTU	19.1 mV	26.35 ft	200.00 ml/min
8/11/2025 12:51 PM	55:00	6.85 pH	20.79 °C	715.47 µS/cm	2.40 mg/L	15.40 NTU	19.0 mV	26.35 ft	200.00 ml/min
8/11/2025 12:56 PM	01:00:00	6.85 pH	20.81 °C	715.04 µS/cm	2.12 mg/L	15.60 NTU	18.1 mV	26.35 ft	200.00 ml/min

8/11/2025 1:01 PM	01:05:00	6.86 pH	20.78 °C	715.12 µS/cm	1.91 mg/L	14.40 NTU	17.7 mV	26.35 ft	200.00 ml/min
8/11/2025 1:06 PM	01:10:00	6.85 pH	20.58 °C	717.12 µS/cm	1.79 mg/L	13.80 NTU	19.0 mV	26.35 ft	200.00 ml/min
8/11/2025 1:11 PM	01:15:00	6.86 pH	20.48 °C	714.48 µS/cm	1.64 mg/L	13.20 NTU	18.8 mV	26.35 ft	200.00 ml/min
8/11/2025 1:16 PM	01:20:00	6.85 pH	20.57 °C	718.62 µS/cm	1.48 mg/L	12.70 NTU	18.1 mV	26.35 ft	200.00 ml/min
8/11/2025 1:21 PM	01:25:00	6.86 pH	20.66 °C	716.98 µS/cm	1.46 mg/L	11.47 NTU	18.1 mV	26.35 ft	200.00 ml/min
8/11/2025 1:26 PM	01:30:00	6.85 pH	20.61 °C	716.81 µS/cm	1.44 mg/L	11.09 NTU	19.0 mV	26.35 ft	200.00 ml/min
8/11/2025 1:31 PM	01:35:00	6.86 pH	20.49 °C	718.63 µS/cm	1.47 mg/L	9.69 NTU	19.3 mV	26.35 ft	200.00 ml/min
8/11/2025 1:36 PM	01:40:00	6.86 pH	20.55 °C	717.74 µS/cm	1.39 mg/L	8.89 NTU	18.9 mV	26.35 ft	200.00 ml/min
8/11/2025 1:41 PM	01:45:00	6.86 pH	20.57 °C	716.36 µS/cm	1.38 mg/L	8.24 NTU	19.3 mV	26.35 ft	200.00 ml/min
8/11/2025 1:46 PM	01:50:00	6.86 pH	20.57 °C	716.85 µS/cm	1.34 mg/L	8.00 NTU	19.4 mV	26.35 ft	200.00 ml/min
8/11/2025 1:51 PM	01:55:00	6.86 pH	20.97 °C	714.98 µS/cm	1.30 mg/L	7.51 NTU	18.9 mV	26.35 ft	200.00 ml/min
8/11/2025 1:56 PM	02:00:00	6.86 pH	21.18 °C	714.09 µS/cm	1.24 mg/L	7.14 NTU	18.1 mV	26.35 ft	200.00 ml/min
8/11/2025 2:01 PM	02:05:00	6.86 pH	21.15 °C	715.07 µS/cm	1.25 mg/L	6.86 NTU	18.9 mV	26.35 ft	200.00 ml/min
8/11/2025 2:06 PM	02:10:00	6.86 pH	21.01 °C	712.84 µS/cm	1.21 mg/L	6.76 NTU	19.3 mV	26.35 ft	200.00 ml/min
8/11/2025 2:11 PM	02:15:00	6.86 pH	21.22 °C	714.77 µS/cm	1.20 mg/L	6.13 NTU	19.1 mV	26.35 ft	200.00 ml/min
8/11/2025 2:16 PM	02:20:00	6.87 pH	20.97 °C	713.55 µS/cm	1.16 mg/L	6.22 NTU	19.4 mV	26.35 ft	200.00 ml/min
8/11/2025 2:21 PM	02:25:00	6.86 pH	20.92 °C	714.54 µS/cm	1.12 mg/L	5.45 NTU	20.1 mV	26.35 ft	200.00 ml/min
8/11/2025 2:26 PM	02:30:00	6.86 pH	21.01 °C	713.12 µS/cm	1.01 mg/L	5.68 NTU	19.5 mV	26.35 ft	200.00 ml/min
8/11/2025 2:31 PM	02:35:00	6.86 pH	20.88 °C	714.53 µS/cm	1.02 mg/L	4.99 NTU	19.6 mV	26.35 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-13	Grab.

Low-Flow Test Report:

Test Date / Time: 8/11/2025 8:56:03 AM
Project: GP-Plant Hammond
Operator Name: A. Tomlinson

Location Name: PT-14 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 35.3 ft** **Total Depth: 45.3 ft** **Initial Depth to Water: 26.15 ft**	**Pump Type: Bladder** **Tubing Type: Poly** **Pump Intake From TOC: 40.3 ft** **Estimated Total Volume Pumped: 40 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.05 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 843593**

Test Notes:
Three bottles: Metals & Alkalinity.
Fe = 7 mg/L.

Weather Conditions:
Overcast, 74 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 5	
8/11/2025 8:56 AM	00:00	6.928 pH	21.31 °C	699.1 µS/cm	1.700 mg/L	1,000 NTU	-61.7 mV	26.15 ft	200.0 ml/min
8/11/2025 9:01 AM	05:00	6.938 pH	20.08 °C	708.9 µS/cm	2.059 mg/L	1,000 NTU	-58.7 mV	26.18 ft	200.0 ml/min
8/11/2025 9:06 AM	10:00	6.932 pH	19.87 °C	706.7 µS/cm	2.259 mg/L	80.40 NTU	-59.2 mV	26.18 ft	200.0 ml/min
8/11/2025 9:11 AM	15:00	6.934 pH	19.95 °C	701.5 µS/cm	2.392 mg/L	62.30 NTU	-59.2 mV	26.20 ft	200.0 ml/min
8/11/2025 9:16 AM	20:00	6.940 pH	19.65 °C	701.7 µS/cm	2.490 mg/L	51.60 NTU	-59.7 mV	26.20 ft	200.0 ml/min
8/11/2025 9:21 AM	25:00	6.940 pH	19.72 °C	700.3 µS/cm	2.493 mg/L	45.00 NTU	-59.9 mV	26.20 ft	200.0 ml/min
8/11/2025 9:26 AM	30:00	6.941 pH	19.93 °C	696.8 µS/cm	2.489 mg/L	40.10 NTU	-60.4 mV	26.20 ft	200.0 ml/min
8/11/2025 9:31 AM	35:00	6.941 pH	19.67 °C	698.1 µS/cm	2.777 mg/L	39.70 NTU	-61.5 mV	26.20 ft	200.0 ml/min
8/11/2025 9:36 AM	40:00	6.947 pH	19.54 °C	703.7 µS/cm	2.808 mg/L	35.20 NTU	-61.7 mV	26.20 ft	200.0 ml/min
8/11/2025 9:41 AM	45:00	6.950 pH	19.19 °C	707.9 µS/cm	2.843 mg/L	30.10 NTU	-68.7 mV	26.20 ft	200.0 ml/min
8/11/2025 9:46 AM	50:00	6.957 pH	19.23 °C	709.0 µS/cm	2.571 mg/L	30.90 NTU	-71.5 mV	26.20 ft	200.0 ml/min
8/11/2025 9:51 AM	55:00	6.959 pH	19.78 °C	700.6 µS/cm	2.496 mg/L	29.50 NTU	-66.0 mV	26.20 ft	200.0 ml/min
8/11/2025 9:56 AM	01:00:00	6.955 pH	19.31 °C	707.3 µS/cm	2.835 mg/L	28.80 NTU	-71.3 mV	26.20 ft	200.0 ml/min

8/11/2025 10:01 AM	01:05:00	6.956 pH	19.59 °C	702.2 µS/cm	2.664 mg/L	26.00 NTU	-66.3 mV	26.20 ft	200.0 ml/min
8/11/2025 10:06 AM	01:10:00	6.958 pH	19.86 °C	699.0 µS/cm	2.595 mg/L	23.90 NTU	-66.6 mV	26.20 ft	200.0 ml/min
8/11/2025 10:11 AM	01:15:00	6.959 pH	19.68 °C	703.3 µS/cm	2.568 mg/L	23.00 NTU	-67.4 mV	26.20 ft	200.0 ml/min
8/11/2025 10:16 AM	01:20:00	6.960 pH	19.72 °C	707.1 µS/cm	2.539 mg/L	22.30 NTU	-73.7 mV	26.20 ft	200.0 ml/min
8/11/2025 10:21 AM	01:25:00	6.958 pH	19.68 °C	707.3 µS/cm	2.536 mg/L	21.90 NTU	-74.4 mV	26.20 ft	200.0 ml/min
8/11/2025 10:26 AM	01:30:00	6.955 pH	20.15 °C	700.6 µS/cm	2.549 mg/L	19.60 NTU	-69.8 mV	26.20 ft	200.0 ml/min
8/11/2025 10:31 AM	01:35:00	6.963 pH	19.90 °C	706.1 µS/cm	2.566 mg/L	19.50 NTU	-70.5 mV	26.20 ft	200.0 ml/min
8/11/2025 10:36 AM	01:40:00	6.964 pH	19.76 °C	707.3 µS/cm	2.567 mg/L	18.90 NTU	-70.9 mV	26.20 ft	200.0 ml/min
8/11/2025 10:41 AM	01:45:00	6.966 pH	19.73 °C	707.6 µS/cm	2.528 mg/L	17.50 NTU	-71.3 mV	26.20 ft	200.0 ml/min
8/11/2025 10:46 AM	01:50:00	6.965 pH	19.90 °C	705.3 µS/cm	2.509 mg/L	16.80 NTU	-71.5 mV	26.20 ft	200.0 ml/min
8/11/2025 10:51 AM	01:55:00	6.967 pH	19.46 °C	711.2 µS/cm	2.553 mg/L	15.90 NTU	-77.4 mV	26.20 ft	200.0 ml/min
8/11/2025 10:56 AM	02:00:00	6.971 pH	19.85 °C	706.7 µS/cm	2.481 mg/L	15.50 NTU	-72.8 mV	26.20 ft	200.0 ml/min
8/11/2025 11:01 AM	02:05:00	6.971 pH	19.72 °C	708.4 µS/cm	2.515 mg/L	14.00 NTU	-73.4 mV	26.20 ft	200.0 ml/min
8/11/2025 11:06 AM	02:10:00	6.973 pH	19.93 °C	707.0 µS/cm	2.516 mg/L	13.50 NTU	-73.6 mV	26.20 ft	200.0 ml/min
8/11/2025 11:11 AM	02:15:00	6.972 pH	19.60 °C	714.4 µS/cm	2.505 mg/L	12.70 NTU	-79.3 mV	26.20 ft	200.0 ml/min
8/11/2025 11:16 AM	02:20:00	6.971 pH	20.15 °C	706.6 µS/cm	2.416 mg/L	12.00 NTU	-75.3 mV	26.20 ft	200.0 ml/min
8/11/2025 11:21 AM	02:25:00	6.975 pH	19.94 °C	710.8 µS/cm	2.440 mg/L	11.20 NTU	-75.6 mV	26.20 ft	200.0 ml/min
8/11/2025 11:26 AM	02:30:00	6.976 pH	19.68 °C	714.7 µS/cm	2.477 mg/L	10.90 NTU	-80.4 mV	26.20 ft	200.0 ml/min
8/11/2025 11:31 AM	02:35:00	6.973 pH	20.20 °C	709.5 µS/cm	2.378 mg/L	10.40 NTU	-76.0 mV	26.20 ft	200.0 ml/min
8/11/2025 11:36 AM	02:40:00	6.972 pH	20.03 °C	711.7 µS/cm	2.360 mg/L	10.20 NTU	-75.8 mV	26.20 ft	200.0 ml/min
8/11/2025 11:41 AM	02:45:00	6.969 pH	20.27 °C	709.8 µS/cm	2.311 mg/L	10.10 NTU	-76.2 mV	26.20 ft	200.0 ml/min
8/11/2025 11:46 AM	02:50:00	6.976 pH	19.77 °C	716.2 µS/cm	2.446 mg/L	10.00 NTU	-81.2 mV	26.20 ft	200.0 ml/min
8/11/2025 11:51 AM	02:55:00	6.975 pH	20.20 °C	709.8 µS/cm	2.364 mg/L	10.50 NTU	-76.9 mV	26.20 ft	200.0 ml/min
8/11/2025 11:56 AM	03:00:00	6.974 pH	19.97 °C	712.4 µS/cm	2.352 mg/L	11.40 NTU	-76.9 mV	26.20 ft	200.0 ml/min
8/11/2025 12:01 PM	03:05:00	6.978 pH	19.59 °C	718.3 µS/cm	2.397 mg/L	10.24 NTU	-81.3 mV	26.20 ft	200.0 ml/min
8/11/2025 12:06 PM	03:10:00	6.974 pH	19.83 °C	713.9 µS/cm	2.382 mg/L	10.00 NTU	-77.0 mV	26.20 ft	200.0 ml/min
8/11/2025 12:11 PM	03:15:00	6.977 pH	19.88 °C	715.0 µS/cm	2.381 mg/L	9.900 NTU	-77.7 mV	26.20 ft	200.0 ml/min

Samples

Sample ID:	Description:
HAM-PT-14	Grab.

Low-Flow Test Report:

Test Date / Time: 8/11/2025 9:02:03 AM
Project: GP-Plant Hammond
Operator Name: J. Newsome

Location Name: PT-15 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 35.3 ft** **Total Depth: 45.3 ft** **Initial Depth to Water: 26.15 ft**	**Pump Type: Bladder** **Tubing Type: Polyethylene** **Pump Intake From TOC: 40.3 ft** **Estimated Total Volume Pumped: 6 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.05 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965586**

Test Notes:
Three bottles: Metals & Alkalinity.
Fe = 0.5 mg/ L.

Weather Conditions:
Light rain, 76 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
8/11/2025 9:02 AM	00:00	6.94 pH	20.48 °C	678.95 µS/cm	0.67 mg/L	11.41 NTU	107.1 mV	26.20 ft	200.00 ml/min
8/11/2025 9:07 AM	05:00	6.86 pH	20.12 °C	686.86 µS/cm	0.37 mg/L	6.85 NTU	106.3 mV	26.20 ft	200.00 ml/min
8/11/2025 9:12 AM	10:00	6.85 pH	20.03 °C	687.43 µS/cm	0.26 mg/L	4.27 NTU	106.8 mV	26.20 ft	200.00 ml/min
8/11/2025 9:17 AM	15:00	6.85 pH	20.02 °C	686.25 µS/cm	0.21 mg/L	4.00 NTU	106.3 mV	26.20 ft	200.00 ml/min
8/11/2025 9:22 AM	20:00	6.84 pH	20.03 °C	686.06 µS/cm	0.18 mg/L	3.54 NTU	105.9 mV	26.20 ft	200.00 ml/min
8/11/2025 9:27 AM	25:00	6.84 pH	20.03 °C	686.50 µS/cm	0.16 mg/L	3.14 NTU	105.2 mV	26.20 ft	200.00 ml/min
8/11/2025 9:32 AM	30:00	6.85 pH	20.07 °C	686.65 µS/cm	0.13 mg/L	3.10 NTU	105.1 mV	26.20 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-15	Grab.
HAM-AP1-FD-02	Grab.

CALIBRATION REPORTS

FEBRUARY 2025

Site Name: GP-Plant Hammond **Field Instrumentation Calibration Form** Date: 2/12/2025

Calibrated By: A. Tomlinson Field Conditions: 48°F, rain

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aqua TROLL	850735
Turbidity Meter	LaMotte 2020e	1571-399

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	2401094	5/2025	YSI
pH (SU)	4.00	2401094	5/2025	
pH (SU)	7.00	24008587	6/2025	
pH (SU)	10.00	24004996	6/2025	
D.O. (%)	N/A	N/A	N/A	
ORP (mV)	228.0	24011792	6/2025	

Calibration					
Time Start 0800		Time Finish 0820			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4,490.0	10.36	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	10.46	± 0.1	GWMP
pH (SU)	7.00	7.00	10.69	± 0.1	GWMP
pH (SU)	10.00	10.00	10.59	± 0.1	GWMP
D.O. (%)	N/A	100%	11.20	± 10%	NA
ORP (mV)	228.0	228.0	10.57	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0	± 10% of standard	EPA 2023
	1	1.00		
	10	10.0		

Calibration Check					
Time Start 1250		Time Finish 1300			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4,490.0	14.10	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	14.20	± 0.1	GWMP
pH (SU)	7.00	7.00	13.86	± 0.1	GWMP
pH (SU)	10.00	10.00	13.49	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0.00	± 10% of standard	EPA 2023
	1	1.00		
	10	10.00		

Notes:

21/12/2025

Site Name: Plant Hammond

Field Instrumentation Calibration Form

Date: 2/12/2025

Calibrated By: T. Kessler

Field Conditions: Rainy, 39°F

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Insitu	989630
Turbidity Meter	Lamotte	11359-2683

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24010943	05/2025	Insitu
pH (SU)	4.00	24010413	05/2025	Insitu
pH (SU)	7.00	24005587	06/2025	Insitu
pH (SU)	10.00	24000486	06/2025	Insitu
D.O. (%)	N/A	—	—	—
ORP (mV)	228.0	24011792	06/2025	Insitu

Calibration					
Time Start 0753		Time Finish 0816			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4490	10.01	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	10.03	± 0.1	GWMP
pH (SU)	7.00	7.00	10.03	± 0.1	GWMP
pH (SU)	10.00	10.00	10.65	± 0.1	GWMP
D.O. (%)	N/A	100	11.74	± 10%	NA
ORP (mV)	228.0	228	10.82	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0	± 10% of standard	EPA 2023
	1	1.02		
	10	9.94		
	—	—		

Calibration Check					
Time Start 1200		Time Finish 1215			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4575.2	15.88	± 10% of standard	EPA 2023
pH (SU)	4.00	4.04	15.85	± 0.1	GWMP
pH (SU)	7.00	7.04	15.16	± 0.1	GWMP
pH (SU)	10.00	9.95	15.35	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0	± 10% of standard	EPA 2023
	1	1.05		
	10	9.95		
	—	—		

Notes:

Site Name: Plant Hammond

Field Instrumentation Calibration Form

Date: 2-12-25

Calibrated By: Zain W.

Field Conditions: Rain, 45°F

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 600	883530
Turbidity Meter	LaMotte 2020e	4121-2623

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24010943	05/2025	AIR
pH (SU)	4.00	24010943	05/2025	AIR
pH (SU)	7.00	24008587	06/2025	AIR
pH (SU)	10.00	24004996	06/2025	AIR
D.O. (%)	N/A	—	—	AIR
ORP (mV)	228.0	24011792	06/2025	AIR

Calibration					
Time Start 0750		Time Finish 0815			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4490	10.83	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	10.85	± 0.1	GWMP
pH (SU)	7.00	7.00	11.74	± 0.1	GWMP
pH (SU)	10.00	10.00	12.07	± 0.1	GWMP
D.O. (%)	N/A	100.2	12.75	± 10%	NA
ORP (mV)	228.0	228.0	12.25	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0	± 10% of standard	EPA 2023
	1	1		
	10	10		
	—	—		

Calibration Check					
Time Start 1500		Time Finish 1527			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4490	15.98	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	16.43	± 0.1	GWMP
pH (SU)	7.00	7.00	16.52	± 0.1	GWMP
pH (SU)	10.00	10.00	16.56	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0	± 10% of standard	EPA 2023
	1	1		
	10	10		
	—	—		

Notes: Recalibrated ORP during midday

Site Name: GP Plant Hammond **Field Instrumentation Calibration Form**

Date: 2/13/2025

Calibrated By: A. Tomlinson

Field Conditions: 47°F, cloudy

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AQUA TROLL	950735
Turbidity Meter	LaMotte 2020e	1571-3019

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24010943	5/2025	YSI
pH (SU)	4.00	24010943	5/2025	↓
pH (SU)	7.00	24005567	6/2025	
pH (SU)	10.00	24004996	6/2025	
D.O. (%)	N/A	N/A	N/A	
ORP (mV)	228.0	24011792	6/2025	

Calibration					
Time Start 0725		Time Finish 0740			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4,490.0	9.76	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	10.17	± 0.1	GWMP
pH (SU)	7.00	7.00	11.61	± 0.1	GWMP
pH (SU)	10.00	10.00	11.51	± 0.1	GWMP
D.O. (%)	N/A	100.1	~~11.98~~ 12.51	± 10%	NA
ORP (mV)	228.0	228.0	11.78	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0.00	± 10% of standard	EPA 2023
	1	1.00		
	10	10.00		
	—	—		

Calibration Check					
Time Start 1225		Time Finish 1236			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4,490	15.33	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	17.62	± 0.1	GWMP
pH (SU)	7.00	7.00	16.26	± 0.1	GWMP
pH (SU)	10.00	10.00	15.47	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0.00	± 10% of standard	EPA 2023
	1	1.00		
	10	10.00		
	—	—		

Notes:

APT

2/13/2025

Site Name: GP Plant Hammond **Field Instrumentation Calibration Form**

Date: 2/14/2025

Calibrated By: ~~Clear, 30°F~~ AT
A. Tomlinson

Field Conditions: Clear, 30°F

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTROLL	838735
Turbidity Meter	LaMotte 2020e	1511-3019

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24010943	5/2025	AIR
pH (SU)	4.00	24010943	5/2025	↓
pH (SU)	7.00	24009581	6/2025	↓
pH (SU)	10.00	24004996	6/2025	↓
D.O. (%)	N/A	N/A	N/A	↓
ORP (mV)	228.0	24011792	6/2025	↓

Calibration					
Time Start 0725			Time Finish 0745		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4,490.0	3.10	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	4.55	± 0.1	GWMP
pH (SU)	7.00	7.00	5.55	± 0.1	GWMP
pH (SU)	10.00	10.00	6.36	± 0.1	GWMP
D.O. (%)	N/A	100%	10.40	± 10%	NA
ORP (mV)	228.0	228.0	6.63	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0.00	± 10% of standard	EPA 2023
	1	1.00		
	10	10.00		
	—	—		

Calibration Check					
Time Start 1345			Time Finish 1352		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4,306.28	15.33	± 10% of standard	EPA 2023
pH (SU)	4.00	4.07	18.60	± 0.1	GWMP
pH (SU)	7.00	7.02	17.92	± 0.1	GWMP
pH (SU)	10.00	10.09	18.77	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0.60	± 10% of standard	EPA 2023
	1	1.00		
	10	10.00		
	—	—		

Notes:

AT

2/14/2025

Site Name: Plant Hammond

Field Instrumentation Calibration Form

Date: 2-14-25

Calibrated By: Zain W.

Field Conditions: Clear, 45°F

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaCell40X	883530
Turbidity Meter	LaMotte 2008	4121-2623

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24010945	05/2025	AIR
pH (SU)	4.00	24010943	05/2025	AIR
pH (SU)	7.00	24009587	06/2025	AIR
pH (SU)	10.00	24004996	06/2025	AIR
D.O. (%)	N/A	—	—	AIR
ORP (mV)	228.0	24011722	06/2025	AIR

Calibration					
Time Start 0709		Time Finish 0759			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4490	7.23	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	7.52	± 0.1	GWMP
pH (SU)	7.00	7.00	9.58	± 0.1	GWMP
pH (SU)	10.00	10.00	10.52	± 0.1	GWMP
D.O. (%)	N/A	100.7	12.52	± 10%	NA
ORP (mV)	228.0	228.0	12.22	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0	± 10% of standard	EPA 2023
	1	1		
	10	10		
	—	—		

Calibration Check					
Time Start 1310		Time Finish 1330			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4490	18.08	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	18.10	± 0.1	GWMP
pH (SU)	7.00	7.00	17.46	± 0.1	GWMP
pH (SU)	10.00	10.05	17.37	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0	± 10% of standard	EPA 2023
	1	1		
	10	10		
	—	—		

Notes:

ORP probe taking a long time to stabilize; reset factory settings on ORP probe; issue persisted

Site Name: GP-Plant Hammond **Field Instrumentation Calibration Form** Date: 2/15/2025

Calibrated By: A. Tammsen Field Conditions: 47°F, light rain

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aqua TROLL	850735
Turbidity Meter	LaMotte 2020e	1571-3019

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24010943	5/2025	ATR
pH (SU)	4.00	24010943	5/2025	↓
pH (SU)	7.00	24009681	6/2025	
pH (SU)	10.00	24009996	6/2025	
D.O. (%)	N/A	N/A	N/A	
ORP (mV)	228.0	2401-792	10/2025	

Calibration					
Time Start 0740			Time Finish 0830		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4,490.0	~~13.45~~ 13.90	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	~~12.53~~ 12.26	± 0.1	GWMP
pH (SU)	7.00	7.00	12.80	± 0.1	GWMP
pH (SU)	10.00	10.00	13.17	± 0.1	GWMP
D.O. (%)	N/A	100.1	14.41	± 10%	NA
ORP (mV)	228.0	228.0	13.98	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0.00	± 10% of standard	EPA 2023
	1	1.00		
	10	10.00		

Calibration Check					
Time Start 1128			Time Finish 1135		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4,490.0	16.50	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	16.63	± 0.1	GWMP
pH (SU)	7.00	7.00	16.56	± 0.1	GWMP
pH (SU)	10.00	10.00	16.36	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0.00	± 10% of standard	EPA 2023
	1	1.00		
	10	10.00		

Notes:

Had issues with pH probe - changed screw and refilled solution, fixed

2/15/2025

Site Name: GP-Plant Hammond **Field Instrumentation Calibration Form** Date: 2/16/2025

Calibrated By: A Tamm sm Field Conditions: Cloudy, 54°F

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTROLL	850735
Turbidity Meter	LaMotte 2008	1571-3019

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24010943	5/2025	ATR
pH (SU)	4.00	24010943	5/2025	↓
pH (SU)	7.00	24008581	6/2025	
pH (SU)	10.00	24004996	6/2025	
D.O. (%)	N/A	N/A	N/A	
ORP (mV)	228.0	240/1792	6/2025	

Calibration					
Time Start 0715		Time Finish 0735			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4,490.0	15.67	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	15.80	± 0.1	GWMP
pH (SU)	7.00	7.00	15.96	± 0.1	GWMP
pH (SU)	10.00	10.00	16.27	± 0.1	GWMP
D.O. (%)	N/A	100.1	17.06	± 10%	NA
ORP (mV)	228.0	228.0	16.42	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	1	1.00	± 10% of standard	EPA 2023
	10	10.00		
	—	—		

Calibration Check					
Time Start 1350		Time Finish 1355			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4,485	16.56	± 10% of standard	EPA 2023
pH (SU)	4.00	4.08	16.56	± 0.1	GWMP
pH (SU)	7.00	7.09	16.51	± 0.1	GWMP
pH (SU)	10.00	10.05	16.05	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0.00	± 10% of standard	EPA 2023
	10	10.00		
	—	—		

Notes:

2/16/2025

Site Name: GP - Plant Hammond **Field Instrumentation Calibration Form** Date: 2/17/2025

Calibrated By: A. Tomlinson Field Conditions: 31°F, clear

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTROLL	850735
Turbidity Meter	Hamach 2020	1571-3019

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	4,490	24010943	5/2025	YSI
pH (SU)	4.00	24010943	5/2025	
pH (SU)	7.00	24008681	6/2025	
pH (SU)	10.00	24004996	10/2025	
D.O. (%)	N/A	N/A	N/A	
ORP (mV)	228.0	24011792	6/2025	

Calibration					
Time Start 0800		**Time Finish** 0830			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490	4,490.0	5.57	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	5.93	± 0.1	GWMP
pH (SU)	7.00	7.00	6.53	± 0.1	GWMP
pH (SU)	10.00	10.00	7.51	± 0.1	GWMP
D.O. (%)	N/A	100%	8.90	± 10%	NA
ORP (mV)	228.0	228.0	7.70	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0	0.00	± 10% of standard	EPA 2023
	1	1.00		
	10	10.00		

Calibration Check					
Time Start 1431		**Time Finish** 1440			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490	4316.7	16.51	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	16.51	± 0.1	GWMP
pH (SU)	7.00	7.04	16.73	± 0.1	GWMP
pH (SU)	10.00	10.08	16.20	± 0.1	GWMP

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0	0.00	± 10% of standard	EPA 2023
	1	1.00		
	10	10.00		

Notes:

2/17/2025

AUGUST 2025

Site Name: Plant Hammond

Field Instrumentation Calibration Form

Date: 8/5/2025

Calibrated By: T. Kressler

Field Conditions: Cloudy 69°

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	In-Situ	643593
Turbidity Meter	Lamotte	[illegible]

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24014218	1126	In-Situ
pH (SU)	4.00	↓	↓	
pH (SU)	7.00	24014266	1126	In-Situ
pH (SU)	10.00	24011537	1126	In-Situ
D.O. (%)	N/A	—	—	—
ORP (mV)	228.0	22490167	1126	In-Situ

Calibration					
Time Start 0730		Time Finish 0800			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4490	21.91	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	21.94	± 0.1	GWMP
pH (SU)	7.00	7.00	22.00	± 0.1	GWMP
pH (SU)	10.00	10.00	22.00	± 0.1	GWMP
D.O. (%)	N/A	100	21.91	± 10%	NA
ORP (mV)	228.0	228	21.98	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0.00	± 10% of standard	EPA 2023
	1	0.98		
	10	10.0		
	—	—		

Calibration Check					
Time Start 1247		Time Finish 1252			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4490	22.36	± 10% of standard	EPA 2023
pH (SU)	4.00	4.005	22.36	± 0.1	GWMP
pH (SU)	7.00	7.02	22.22	± 0.1	GWMP
pH (SU)	10.00	10.04	22.13	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0	± 10% of standard	EPA 2023
	1	1.00		
	10	10.2		
	—	—		

Notes:

8-5-25

Site Name: Plant Hammond

Calibrated By: Z. Webb

Field Instrumentation Calibration Form

Date: 8-5-25

Field Conditions: Cloudy, 70°F

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	987630
Turbidity Meter	LaMotte 2020e	4104-2623

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24014218	01/2026	AIR
pH (SU)	4.00	24014218	01/2026	AIR
pH (SU)	7.00	24014266	01/2026	AIR
pH (SU)	10.00	24011537	01/2026	AIR
D.O. (%)	N/A	—	—	—
ORP (mV)	228.0	22490162	01/2026	AIR

Calibration					
Time Start 0730		Time Finish 0756			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4490	22.55	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	22.68	± 0.1	GWMP
pH (SU)	7.00	7.00	22.77	± 0.1	GWMP
pH (SU)	10.00	10.00	22.78	± 0.1	GWMP
D.O. (%)	N/A	100%	22.98	± 10%	NA
ORP (mV)	228.0	228.0	22.80	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0	± 10% of standard	EPA 2023
	1	1		
	10	10		
	—	—		

Calibration Check					
Time Start 1250		Time Finish 1305			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4490	24.17	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	24.15	± 0.1	GWMP
pH (SU)	7.00	7.00	24.06	± 0.1	GWMP
pH (SU)	10.00	10.00	23.87	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0	± 10% of standard	EPA 2023
	1	1		
	10	10		
	—	—		

Notes:

ZW 8-5-25

Site Name: GP Plant Hammond **Field Instrumentation Calibration Form** Date: 8/5/25

Calibrated By: J. Newsome Field Conditions: Overcast, 68°

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll	96 5586
Turbidity Meter	LaMotte	1511-4111

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24014 218	1/2026	YSI
pH (SU)	4.00	"	"	"
pH (SU)	7.00	24014266	"	"
pH (SU)	10.00	24011537	"	"
D.O. (%)	N/A	—	—	—
ORP (mV)	228.0	22401062	1/2024	YSI

Calibration					
Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4892	21.86	± 10% of standard	EPA 2023
pH (SU)	4.00	4.01	21.86	± 0.1	GWMP
pH (SU)	7.00	7.00	21.21	± 0.1	GWMP
pH (SU)	10.00	10.00	21.66	± 0.1	GWMP
D.O. (%)	N/A	101.70	21.30	± 10%	NA
ORP (mV)	228.0	228.0	21.77	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0	± 10% of standard	EPA 2023
	1	1		
	10	9.98		

Calibration Check					
Time Start	1415	Time Finish	1420		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4490	21.71	± 10% of standard	EPA 2023
pH (SU)	4.00	4.07	21.71	± 0.1	GWMP
pH (SU)	7.00	7.01	20.97	± 0.1	GWMP
pH (SU)	10.00	10.00	22.82	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0	± 10% of standard	EPA 2023
	1	1		
	10	10		

Notes:

JN 8-5-25

Site Name: Plant Hammond

Calibrated By: T. Klessler

Field Instrumentation Calibration Form

Date: 8/6/2025

Field Conditions: Cloudy, 70°

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Insitu Aquatroll 400	643593
Turbidity Meter	Lamotte	4134-2623

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24014218	01/2026	Insitu
pH (SU)	4.00	↓	↓	↓
pH (SU)	7.00	24014266	01/2026	↓
pH (SU)	10.00	24011537	01/2026	↓
D.O. (%)	N/A	—	—	—
ORP (mV)	228.0	24901G2	01/2026	Insitu

Calibration					
Time Start 0739		Time Finish 0752			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4490	27.63	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	27.67	± 0.1	GWMP
pH (SU)	7.00	7.00	27.71	± 0.1	GWMP
pH (SU)	10.00	10.00	27.91	± 0.1	GWMP
D.O. (%)	N/A	100.00	27.80	± 10%	NA
ORP (mV)	228.0	228.0	27.91	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0	± 10% of standard	EPA 2023
	1	1		
	10	10.05		
	—	—		

Calibration Check					
Time Start 1233		Time Finish 1240			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	11300	24.11	± 10% of standard	EPA 2023
pH (SU)	4.00	4.02	24.11	± 0.1	GWMP
pH (SU)	7.00	7.02	24.29	± 0.1	GWMP
pH (SU)	10.00	9.97	24.32	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0	± 10% of standard	EPA 2023
	1	0.99		
	10	10.11		
	—	—		

Notes:

8-6-25

Site Name: Plant Hammond

Calibrated By: Z. Webb

Field Instrumentation Calibration Form

Date: 8-6-25

Field Conditions: Cloudy, 70°F

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquaread 400	989630
Turbidity Meter	LaMotte 2020e	4104-2623

Calibration Standard Information

Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24014218	01/2026	AIR
pH (SU)	4.00	24014218	01/2026	AIR
pH (SU)	7.00	24014266	01/2026	AIR
pH (SU)	10.00	24011537	01/2026	AIR
D.O. (%)	N/A	—	—	—
ORP (mV)	228.0	22490162	01/2026	AIR

Calibration

Time Start 0721 Time Finish 0746

Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4490	23.35	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	23.42	± 0.1	GWMP
pH (SU)	7.00	7.00	23.69	± 0.1	GWMP
pH (SU)	10.00	10.00	23.83	± 0.1	GWMP
D.O. (%)	N/A	100%	23.61	± 10%	NA
ORP (mV)	228.0	228.0	23.99	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0	± 10% of standard	EPA 2023
	1	1		
	10	10		
	—	—		

Calibration Check

Time Start 1257 Time Finish 1312

Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4490	30.42	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	30.14	± 0.1	GWMP
pH (SU)	7.00	7.00	28.64	± 0.1	GWMP
pH (SU)	10.00	10.00	28.05	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0	± 10% of standard	EPA 2023
	1	1		
	10	10		
	—	—		

Notes:

ZW 8-6-25

Field Instrumentation Calibration Form

Site Name: Plant Hammond

Date: 8/6/25

Calibrated By: J. Newsome

Field Conditions: Overcast, 72F

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll	965586
Turbidity Meter	LaMotte	

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24014218	1/26	YSI
pH (SU)	4.00	"	"	"
pH (SU)	7.00	24014266	1/26	"
pH (SU)	10.00	24011537	1/26	"
D.O. (%)	N/A			
ORP (mV)	228.0	22490102	1/26	AIR

Calibration					
Time Start	720	Time Finish	745		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	~~4952 4944 3+8~~ 4490	21.07	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	21.22	± 0.1	GWMP
pH (SU)	7.00	7.00	21.75	± 0.1	GWMP
pH (SU)	10.00	10.00	22.39	± 0.1	GWMP
D.O. (%)	N/A	100%	22.08	± 10%	NA
ORP (mV)	228.0	228	22.71	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0	± 10% of standard	EPA 2023
	1	1		
	10	10		

Calibration Check					
Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490			± 10% of standard	EPA 2023
pH (SU)	4.00			± 0.1	GWMP
pH (SU)	7.00			± 0.1	GWMP
pH (SU)	10.00			± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)			± 10% of standard	EPA 2023

Notes:

MW 8/6/25

Site Name: Plant Hammond

Field Instrumentation Calibration Form

Calibrated By: T. Kressler

Date: 8/7/2025

Field Conditions: Cloudy, 72

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Insitu Aquatroll 600	843593
Turbidity Meter	Cornette	4139-2523

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24014218	1/26	Insitu
pH (SU)	4.00	24014226	1/26	↓
pH (SU)	7.00	↓	↓	↓
pH (SU)	10.00	24011537	1/26	↓
D.O. (%)	N/A	—	—	—
ORP (mV)	228.0	22490662	1/26	Insitu

Calibration					
Time Start 0725	Time Finish 0750				
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4490	24.61	± 10% of standard	EPA 2023
pH (SU)	4.00	4.0	24.6 C	± 0.1	GWMP
pH (SU)	7.00	7.0	25.42	± 0.1	GWMP
pH (SU)	10.00	10	25.78	± 0.1	GWMP
D.O. (%)	N/A	100		± 10%	NA
ORP (mV)	228.0	228	26.02	± 10	EPA 2023

Turbidity (NTU)	Standard	Calibration Value	Acceptance Criteria	Reference
	0	0	± 10% of standard	EPA 2023
	1	0.99		
	10	10.8		
	—	—		

Calibration Check					
Time Start 1135	Time Finish 1200 1145				
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4.095	26.58	± 10% of standard	EPA 2023
pH (SU)	4.00	4.367	↓	± 0.1	GWMP
pH (SU)	7.00	6.96	26.16	± 0.1	GWMP
pH (SU)	10.00	9.92	26.02	± 0.1	GWMP

Turbidity (NTU)	Standard	Calibration Value	Acceptance Criteria	Reference
	0	0	± 10% of standard	EPA 2023
	1	1.0		
	10	9.95		
	—	—		

Notes:

8-7-25

Site Name: Plant Hammond

Calibrated By: Z. Webb

Field Instrumentation Calibration Form

Date: 8-7-25

Field Conditions: Clear, 70°F

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	989630
Turbidity Meter	LaMotte 2020e	4104-2623

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24014218	01/2026	AIR
pH (SU)	4.00	24014218	01/2026	AIR
pH (SU)	7.00	24014266	01/2026	AIR
pH (SU)	10.00	24011537	01/2026	AIR
D.O. (%)	N/A	—	—	—
ORP (mV)	228.0	22490162	01/2026	AIR

Calibration					
Time Start 0730		Time Finish 0755			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4490	26.13	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	26.00	± 0.1	GWMP
pH (SU)	7.00	7.00	26.23	± 0.1	GWMP
pH (SU)	10.00	10.00	26.44	± 0.1	GWMP
D.O. (%)	N/A	~~100%~~	24.52	± 10%	NA
ORP (mV)	228.0	228.0	26.28	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0	± 10% of standard	EPA 2023
	1	1		
	10	10		
	—	—		

Calibration Check					
Time Start 1239		Time Finish 1254			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4490	27.12	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	26.90	± 0.1	GWMP
pH (SU)	7.00	7.00	26.27	± 0.1	GWMP
pH (SU)	10.00	10.00	25.97	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0	± 10% of standard	EPA 2023
	1	1		
	10	10		
	—	—		

Notes:

ZW 8-7-25

Site Name: Plant Hammond

Field Instrumentation Calibration Form

Calibrated By: J. Newsome

Date: 8/7/25

Field Conditions: Cloudy, 70°F

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquavoll	96558
Turbidity Meter	LaMotte	1411-5111

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	240 14218	1/2026	AVR
pH (SU)	4.00	~~240 14244~~		
pH (SU)	7.00	240 14244	1/2026	
pH (SU)	10.00	24011537	1/2024	
D.O. (%)	N/A			
ORP (mV)	228.0	22490162	1/2026	AVR

Calibration					
Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4490	25.82	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	25.28	± 0.1	GWMP
pH (SU)	7.00	7.01	25.56	± 0.1	GWMP
pH (SU)	10.00	10.00	25.59	± 0.1	GWMP
D.O. (%)	N/A			± 10%	NA
ORP (mV)	228.0	228.5	25.41	± 10	EPA 2023

Turbidity (NTU)	Standard	Calibration Value	Acceptance Criteria	Reference
	0	0	± 10% of standard	EPA 2023
	1			
	10	10		

Calibration Check					
Time Start	10	Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4490	25.71	± 10% of standard	EPA 2023
pH (SU)	4.00	4.01	25.71	± 0.1	GWMP
pH (SU)	7.00	7.04	27.89	± 0.1	GWMP
pH (SU)	10.00	10.00	24.71	± 0.1	GWMP
			25.18		

Turbidity (NTU)	Standard	Calibration Value	Acceptance Criteria	Reference
	0	0	± 10% of standard	EPA 2023
	1	1		
	10	10		

Notes:

8/7/25

Site Name: GP-Hammond

Calibrated By: A. Tomlinson

Field Instrumentation Calibration Form

Date: 5/10/2025

Field Conditions: 70s, cloudy

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTROLL	443595
Turbidity Meter	LaMotte	4139-4223

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24014718	01/2026	ATR
pH (SU)	4.00	24014718	01/2026	ATR
pH (SU)	7.00	24014764	01/2026	ATR
pH (SU)	10.00	24011537	01/2026	ATR
D.O. (%)	N/A	—	—	—
ORP (mV)	228.0	2249 0162	01/2026	ATR

Calibration					
Time Start 0720		Time Finish 0735			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4440	22.39	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	22.42	± 0.1	GWMP
pH (SU)	7.00	7.00	22.39	± 0.1	GWMP
pH (SU)	10.00	10.00	22.27	± 0.1	GWMP
D.O. (%)	N/A	100.1	21.20	± 10%	NA
ORP (mV)	228.0	228.0	22.70	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0.00	± 10% of standard	EPA 2023
	1	1.00		
	10	10.0		
	—	—		

Calibration Check					
Time Start 1500		Time Finish 1508			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4386	23.62	± 10% of standard	EPA 2023
pH (SU)	4.00	4.02	23.64	± 0.1	GWMP
pH (SU)	7.00	6.99	22.97	± 0.1	GWMP
pH (SU)	10.00	9.97	23.36	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0.00	± 10% of standard	EPA 2023
	1	1.00		
	10	10.0		
	—	—		

Notes:

ATR

8/14/2025

Site Name: Plant Hammond

Field Instrumentation Calibration Form

Date: 8-10-25

Calibrated By: Z. Webb

Field Conditions: Clear, 70°F

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	989630
Turbidity Meter	LaMotte 2020e	4104-2623

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24014218	01/2026	AIR
pH (SU)	4.00	24014218	01/2026	AIR
pH (SU)	7.00	24014266	01/2026	AIR
pH (SU)	10.00	24011537	01/2026	AIR
D.O. (%)	N/A	—	—	—
ORP (mV)	228.0	22490162	01/2026	AIR

Calibration					
Time Start 0720		Time Finish 0753			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4490	23.36	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	23.90	± 0.1	GWMP
pH (SU)	7.00	7.00	24.33	± 0.1	GWMP
pH (SU)	10.00	10.00	24.36	± 0.1	GWMP
D.O. (%)	N/A	100.2	25.13	± 10%	NA
ORP (mV)	228.0	228.0	24.73	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0	± 10% of standard	EPA 2023
	1	1		
	10	10		
	—	—		

Calibration Check					
Time Start 1107		Time Finish 1134			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4490	22.88	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	22.98	± 0.1	GWMP
pH (SU)	7.00	7.00	23.34	± 0.1	GWMP
pH (SU)	10.00	10.00	23.60	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0	± 10% of standard	EPA 2023
	1	1		
	10	10		
	—	—		

Notes:

Re-cal DO probe during mid-day

ZW

8-10-25

Field Instrumentation Calibration Form

Site Name: Plant Hammond

Date: 8/10/25

Calibrated By: J. Newsome

Field Conditions: Cloudy, 70 F

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll	965586
Turbidity Meter	Lamotte	4111 - 151

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24014218	1/7026	AIR
pH (SU)	4.00	"	"	
pH (SU)	7.00	24014216	1/2026	
pH (SU)	10.00		1/7026	
D.O. (%)	N/A			
ORP (mV)	228.0	27490162	1/2026	AIR

Calibration					
Time Start	730	Time Finish	752		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4490	23.68	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	23.97	± 0.1	GWMP
pH (SU)	7.00	7.00	24.80	± 0.1	GWMP
pH (SU)	10.00	10.00	24.96	± 0.1	GWMP
D.O. (%)	N/A	100	23.78	± 10%	NA
ORP (mV)	228.0	228	25.08	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0	± 10% of standard	EPA 2023
	1	1		
	10	10		

Calibration Check					
Time Start	1330	Time Finish	1335		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4491	28.94	± 10% of standard	EPA 2023
pH (SU)	4.00	4.02	28.94	± 0.1	GWMP
pH (SU)	7.00	7.00	29.04	± 0.1	GWMP
pH (SU)	10.00	10.01	29.13	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0	± 10% of standard	EPA 2023
	1	1		
	10	10		

Notes:

MM 8/10/25

CORRECTIVE ACTION PIEZOMETER SAMPLING (AUGUST 2025)

Site Name: GP-Hammond

Calibrated By: A. Tomlinson

Field Instrumentation Calibration Form

Date: 5/10/2025

Field Conditions: 70s, cloudy

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTROLL	443595
Turbidity Meter	LaMotte	4139-4223

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24014718	01/2026	ATR
pH (SU)	4.00	24014718	01/2026	ATR
pH (SU)	7.00	24014764	01/2026	ATR
pH (SU)	10.00	24011537	01/2026	ATR
D.O. (%)	N/A	—	—	—
ORP (mV)	228.0	2249 0162	01/2026	ATR

Calibration					
Time Start 0720		Time Finish 0735			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4440	22.39	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	22.42	± 0.1	GWMP
pH (SU)	7.00	7.00	22.39	± 0.1	GWMP
pH (SU)	10.00	10.00	22.27	± 0.1	GWMP
D.O. (%)	N/A	100.1	21.20	± 10%	NA
ORP (mV)	228.0	228.0	22.70	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0.00	± 10% of standard	EPA 2023
	1	1.00		
	10	10.0		
	—	—		

Calibration Check					
Time Start 1500		Time Finish 1508			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4386	23.62	± 10% of standard	EPA 2023
pH (SU)	4.00	4.02	23.64	± 0.1	GWMP
pH (SU)	7.00	6.99	22.97	± 0.1	GWMP
pH (SU)	10.00	9.97	23.36	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0.00	± 10% of standard	EPA 2023
	1	1.00		
	10	10.0		
	—	—		

Notes:

ATR

8/14/2025

Site Name: Plant Hammond

Field Instrumentation Calibration Form

Date: 8-10-25

Calibrated By: Z. Webb

Field Conditions: Clear, 70°F

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	989630
Turbidity Meter	LaMotte 2020e	4104-2623

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24014218	01/2026	AIR
pH (SU)	4.00	24014218	01/2026	AIR
pH (SU)	7.00	24014266	01/2026	AIR
pH (SU)	10.00	24011537	01/2026	AIR
D.O. (%)	N/A	—	—	—
ORP (mV)	228.0	22490162	01/2026	AIR

Calibration					
Time Start 0720		Time Finish 0753			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4490	23.36	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	23.90	± 0.1	GWMP
pH (SU)	7.00	7.00	24.33	± 0.1	GWMP
pH (SU)	10.00	10.00	24.36	± 0.1	GWMP
D.O. (%)	N/A	100.2	25.13	± 10%	NA
ORP (mV)	228.0	228.0	24.73	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0	± 10% of standard	EPA 2023
	1	1		
	10	10		
	—	—		

Calibration Check					
Time Start 1107		Time Finish 1134			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4490	22.88	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	22.98	± 0.1	GWMP
pH (SU)	7.00	7.00	23.34	± 0.1	GWMP
pH (SU)	10.00	10.00	23.60	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0	± 10% of standard	EPA 2023
	1	1		
	10	10		
	—	—		

Notes:

Re-cal DO probe during mid-day

ZW

8-10-25

Field Instrumentation Calibration Form

Site Name: Plant Hammond

Date: 8/10/25

Calibrated By: J. Newsome

Field Conditions: Cloudy, 70 F

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll	965586
Turbidity Meter	Lamotte	4111 - 151

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24014218	1/7026	AIR
pH (SU)	4.00	"	"	
pH (SU)	7.00	24014216	1/2026	
pH (SU)	10.00		1/7026	
D.O. (%)	N/A			
ORP (mV)	228.0	27490162	1/2026	AIR

Calibration					
Time Start	730	Time Finish	752		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4490	23.68	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	23.97	± 0.1	GWMP
pH (SU)	7.00	7.00	24.80	± 0.1	GWMP
pH (SU)	10.00	10.00	24.96	± 0.1	GWMP
D.O. (%)	N/A	100	23.78	± 10%	NA
ORP (mV)	228.0	228	25.08	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0	± 10% of standard	EPA 2023
	1	1		
	10	10		

Calibration Check					
Time Start	1330	Time Finish	1335		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4491	28.94	± 10% of standard	EPA 2023
pH (SU)	4.00	4.02	28.94	± 0.1	GWMP
pH (SU)	7.00	7.00	29.04	± 0.1	GWMP
pH (SU)	10.00	10.01	29.13	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0	± 10% of standard	EPA 2023
	1	1		
	10	10		

Notes:

MM 8/10/25

Site Name: LMP - Hammond

Calibrated By: A Tomlinson

Field Instrumentation Calibration Form

Date: 8/11/2025

Field Conditions: 70s, overcast

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll	845593
Turbidity Meter	LaMotte	4139-71022

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24014218	01/2026	ATR
pH (SU)	4.00	24014218	01/2026	ATR
pH (SU)	7.00	24014200	01/2026	ATR
pH (SU)	10.00	24015371	01/2026	ATR
D.O. (%)	N/A			
ORP (mV)	228.0	22490162	01/2026	ATR

Calibration					
Time Start 0743		Time Finish 0755			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4490	23.88	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	24.00	± 0.1	GWMP
pH (SU)	7.00	7.00	24.14	± 0.1	GWMP
pH (SU)	10.00	10.00	24.24	± 0.1	GWMP
D.O. (%)	N/A	100%	24.15	± 10%	NA
ORP (mV)	228.0	228.0	24.33	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0.00	± 10% of standard	EPA 2023
	1	1.00		
	10	10.00		
	—	—		

Calibration Check					
Time Start 1756		Time Finish 1306			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4395	25.38	± 10% of standard	EPA 2023
pH (SU)	4.00	4.05	25.38	± 0.1	GWMP
pH (SU)	7.00	7.01	24.85	± 0.1	GWMP
pH (SU)	10.00	9.92	24.51	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0.00	± 10% of standard	EPA 2023
	1	1.00		
	10	10.00		
	—	—		

Notes:

AT

8/11/2025

Site Name: Plant Hammond

Field Instrumentation Calibration Form

Date: 8-11-25

Calibrated By: Z. Webb

Field Conditions: Overcast, 70°F

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTcall400	489630
Turbidity Meter	LaMotte 2020e	4104-2623

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24014218	01/2026	AIR
pH (SU)	4.00	24014218	01/2026	AIR
pH (SU)	7.00	24014266	01/2026	AIR
pH (SU)	10.00	24011537	01/2026	AIR
D.O. (%)	N/A	—	—	—
ORP (mV)	228.0	22490162	01/2026	AIR

Calibration					
Time Start 0745		Time Finish 0805			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4490	25.23	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	25.20	± 0.1	GWMP
pH (SU)	7.00	7.00	25.18	± 0.1	GWMP
pH (SU)	10.00	10.00	25.23	± 0.1	GWMP
D.O. (%)	N/A	100%	24.53	± 10%	NA
ORP (mV)	228.0	228.0	25.16	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0	± 10% of standard	EPA 2023
	1	1		
	10	10		
	—	—		

Calibration Check					
Time Start 1227		Time Finish 1235			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4490	26.60	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	26.54	± 0.1	GWMP
pH (SU)	7.00	7.00	26.10	± 0.1	GWMP
pH (SU)	10.00	10.00	25.86	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0	± 10% of standard	EPA 2023
	1	1		
	10	10		
	—	—		

Notes:

ZW 8-11-25

Site Name: Plant Hammond

Field Instrumentation Calibration Form

Date: 8/11/25

Calibrated By: J. Newsome

Field Conditions: Cloudy, 78F

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll	965586
Turbidity Meter	LaMotte	1511-411

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24014218	1/2026	AIR
pH (SU)	4.00	"	"	
pH (SU)	7.00	24014266	1/2026	
pH (SU)	10.00	24011537	1/2026	
D.O. (%)	N/A			
ORP (mV)	228.0	22490162	1/2026	AIR

Calibration					
Time Start	745	Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4490	25.23	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	25.32	± 0.1	GWMP
pH (SU)	7.00	7.00	25.43	± 0.1	GWMP
pH (SU)	10.00	10.06	25.82	± 0.1	GWMP
D.O. (%)	N/A			± 10%	NA
ORP (mV)	228.0	228.6	25.94	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0	± 10% of standard	EPA 2023
	1	1		
	10	10		

Calibration Check					
Time Start	1515	Time Finish	1520		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4490	25.49	± 10% of standard	EPA 2023
pH (SU)	4.00	4.01	26.17	± 0.1	GWMP
pH (SU)	7.00	7.04	26.41	± 0.1	GWMP
pH (SU)	10.00	10.01	25.96	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0	± 10% of standard	EPA 2023
	1	1		
	10	10		

Notes:

JN 8/11/25

APPENDIX C

Statistical Analysis Reports

FEBRUARY 2025

GROUNDWATER STATS CONSULTING

August 29, 2025

Southern Company Services
Attn: Ms. Kristen Jurinko
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308

Re: Plant Hammond Ash Pond 1 (AP-1)
Statistical Analysis – 1st 2025 Semi-Annual Sample Event

Dear Ms. Jurinko,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the 1st 2025 Semi-Annual Groundwater Detection and Assessment Monitoring statistical summary of groundwater data for Georgia Power Company's Plant Hammond AP-1. The analysis complies with the federal rule for the Disposal of Coal Combustion Residuals from Electric Utilities (CCR Rule, 2015), the Georgia Environmental Protection Division (EPD) Rules for Solid Waste Management Chapter 391-3-4-.10 and follows the United States Environmental Protection Agency (USEPA) Unified Guidance (2009).

Sampling began for the Coal Combustion Residuals (CCR) program in 2016, and at least 8 background samples have been collected at each of the upgradient and downgradient groundwater monitoring wells. The monitoring well network, as provided by Southern Company Services, consists of the following:

- **Upgradient wells:** HGWA-1, HGWA-2, HGWA-3, HGWA-43D, and HGWA-44D
- **Downgradient wells:** HGWC-7, HGWC-8, HGWC-9, HGWC-10, HGWC-11, HGWC-12, and HGWC-13
- **Assessment wells:** MW-5, MW-6, MW-7, MW-19, MW-20, MW-24D, MW-25D, MW-26D, MW-27D, MW-28D, and MW-29

Sampling at upgradient wells HGWA-43D and HGWA-44D began in September 2020 and all data from these wells are included in construction of interwell statistical limits.

Sampling at assessment wells began in March 2019 and data from these wells are plotted on the time series graphs and box plots, and are evaluated for Appendix IV constituents using confidence intervals, which require a minimum sample size of n=4.

Data were sent electronically to Groundwater Stats Consulting, and the statistical analysis was reviewed by Andrew Collins, Project Manager of Groundwater Stats Consulting. The statistical analysis was performed according to the groundwater screening that was performed in April 2018 by GSC and approved by Dr. Cameron, PhD Statistician with MacStat Consulting and primary author of the USEPA Unified Guidance (2009). In 2024, Georgia Power Company completed a data audit and migration of all CCR related groundwater data to the EarthSoft EQuIS Database Management Program (EQuIS). Data were then exported from EQuIS to Groundwater Stats Consulting (GSC) for use in completing this statistical analysis. Georgia Power Company contracted an independent third-party consultant, Environmental Resources Management (ERM), to support the data audit and migration to EQuIS. Based on the results of the audit and statistical analysis results from GSC, EQuIS will now be used by Georgia Power Company and its third-party geologists and engineers for management of data imported by independent third-party laboratories and data exported by Georgia Power Company and its Consultants. The data will be used in preparation of report submittals, modeling, strategic planning, and other purposes appropriate and consistent with EQuIS's data management and reporting tools and capabilities.

The CCR program consists of the constituents listed below. The terms "parameters" and "constituents" are used interchangeably.

- **Appendix III** (Detection Monitoring) **-** boron, calcium, chloride, fluoride, pH, sulfate, and TDS
- **Appendix IV** (Assessment Monitoring) **–** antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, combined radium 226 + 228, fluoride, lead, lithium, mercury, molybdenum, selenium, and thallium

Note that when there are no detections present in downgradient wells for a given constituent, statistical analyses are not required. A summary of Appendix IV downgradient and assessment well/constituent pairs with 100% non-detects follows this letter.

For all constituents, a substitution of the most recent reporting limit is used for non-detect data. In the cases of lithium, historical reporting limits vary among the wells. Therefore, the reporting limits of 0.030 mg/L, respectively, were substituted across all wells, which is the most recent reporting limit provided by the laboratory.

Time series plots for Appendix III and IV parameters at all wells are provided for the purpose of screening data at these wells (Figure A). Additionally, a separate section of box plots is included for all constituents at upgradient and downgradient wells (Figure B). The time series plots are used to initially screen for suspected outliers and trends, while the box plots provide visual representation of variation within individual wells and between all wells. Values in background which have been flagged as outliers may be seen in a lighter font and as a disconnected symbol on the graphs. A list of flagged values follows this report (Figure C).

In earlier analyses, data at all wells were evaluated for the following: 1) outliers; 2) trends; 3) most appropriate statistical method for Appendix III parameters based on site characteristics of groundwater data upgradient of the facility; and 4) eligibility of downgradient wells when intrawell statistical methods are recommended. Power curves were provided with the previous screening to demonstrate that the selected statistical methods for Appendix III parameters comply with the USEPA Unified Guidance. The EPA suggests the selected statistical method should provide at least 55% power at 3 standard deviations or at least 80% power at 4 standard deviations.

Statistical Methods – Appendix III Parameters

The following Appendix III parameters are evaluated using interwell prediction limits combined with a 1-of-2 resample plan: boron, calcium, chloride, fluoride, pH, sulfate, and TDS.

Parametric prediction limits are utilized when the screened historical data follow a normal or transformed-normal distribution. When data cannot be normalized or the majority of data are non-detects, a nonparametric test is utilized. While the false positive rate associated with the parametric limits is based on an annual 10% (5% per semi-annual event) as recommended by the EPA Unified Guidance (2009), the false positive rate associated with the nonparametric limits is dependent upon the available background sample size, number of future comparisons, and verification resample plan. The distribution of data is tested using the Shapiro-Wilk/Shapiro-Francia test for normality. After testing for normality and performing any adjustments as discussed below (US EPA, 2009), data are analyzed using either parametric or non-parametric prediction limits.

- No statistical analyses are required on wells and analytes containing 100% non-detects (USEPA Unified Guidance, 2009, Chapter 6).
- When data contain <15% non-detects, simple substitution of one-half the reporting limit is utilized in the statistical analysis. The reporting limit utilized

for non-detects is the most recent practical quantification limit (PQL) as reported by the laboratory.

- When data contain between 15-50% non-detects, the Kaplan-Meier non-detect adjustment is applied to the background data for parametric limit. This technique adjusts the mean and standard deviation of the historical concentrations to account for concentrations below the reporting limit.
- Nonparametric prediction limits are used on data containing greater than 50% non-detects.

Note that values shown on data pages reflect raw data and any non-detects that have been substituted with one-half of the reporting limit will be shown as the original reporting limit.

Natural systems continuously evolve due to physical changes made to the environment. Examples include capping a landfill, paving areas near a well, or lining a drainage channel to prevent erosion. Periodic updating of background statistical limits is necessary to accommodate these types of changes. In the interwell case, prediction limits are updated with upgradient well data during each event after careful screening for any new outliers. In some cases, an earlier portion of data may require deselection prior to construction of limits to provide sensitive limits that will rapidly detect changes in groundwater quality. Even though the data are excluded from the calculation, the values will continue to be reported and shown in tables and graphs. When this step is required a summary of any adjusted records will be provided.

Statistical Analysis of Appendix III Parameters – February 2025

All Appendix III parameters were analyzed using interwell prediction limits. Background (upgradient) well data were reassessed for potential outliers during this analysis. No new values were flagged as shown in the outlier summary following this report (Figure C).

Interwell Prediction Limits

Interwell prediction limits, combined with a 1-of-2 resample plan, were constructed for Appendix III parameters using all historical upgradient well data through February 2025 (Figure D). Interwell prediction limits pool upgradient well data to establish a background limit for an individual constituent. The February 2025 sample from each downgradient well is compared to the background limit to determine whether initial exceedances are present.

In the event of an initial exceedance of compliance well data, the 1-of-2 resample plan allows for collection of one additional sample to determine whether the initial exceedance is confirmed. When a resample confirms the initial exceedance, a statistically significant increase (SSI) is identified and further research would be required to identify the cause of the exceedance (i.e., impact from the site, natural variation, or an off-site source). If the resample falls within the statistical limit, the initial exceedance is considered to be a false positive result and, therefore, no exceedance is noted and no further action is necessary. If no resample is collected, the original result is considered a confirmed exceedance.

When the February 2025 compliance data from downgradient wells were compared to interwell prediction limits, exceedances were identified for the following well/constituent pairs:

- Boron: HGWC-7, HGWC-8, HGWC-9, HGWC-11, HGWC-12, and HGWC-13
- Calcium: HGWC-9 and HGWC-12
- Chloride: HGWC-9
- Sulfate: HGWC-7, HGWC-8, HGWC-9, HGWC-11, HGWC-12, and HGWC-13

A summary table of these findings is provided along with the prediction limits.

Trend Test Evaluation – Appendix III

When prediction limit exceedances are identified in downgradient wells, data are further evaluated using the Sen's Slope/Mann Kendall trend test to determine whether concentrations are statistically increasing, decreasing, or stable at the 99% confidence level (Figure E). Upgradient well data are included in the trend analyses for all parameters found to exceed their prediction limit in downgradient wells to identify whether similar patterns exist upgradient of the site. Upgradient trends are an indication of variability in groundwater unrelated to practices at the site. A summary of the trend test results follows this letter. Statistically significant trends were noted for the following well/constituent pairs:

Increasing trends:

- Boron: HGWA-2 and HGWA-44D (both upgradient)
- Calcium: HGWA-2 and HGWA-3 (both upgradient)
- Chloride: HGWA-44D (upgradient)
- Sulfate: HGWA-2 (upgradient)

Decreasing trends:

- Boron: HGWA-43D (upgradient), HGWC-12, and HGWC-13
- Calcium: HGWA-44D (upgradient)
- Chloride: HGWA-3 (upgradient) and HGWC-9
- Sulfate: HGWA-43D (upgradient) and HGWC-9

Statistical Methods – Appendix IV Parameters

Appendix IV parameters are evaluated by statistically comparing the mean or median of each downgradient well/constituent pair against corresponding Groundwater Protection Standards (GWPS). The GWPS may be either regulatory (Maximum Contaminant Limits (MCL) or CCR rule-specified limits) or site-specific limits that are based on upgradient background groundwater quality. Site-specific background limits are determined using tolerance limits, and the comparison of downgradient means or medians to GWPS is performed using confidence intervals. The methods are described below.

Statistical Evaluation of Appendix IV Parameters – February 2025

For Appendix IV parameters, confidence intervals for each downgradient well/constituent pair were compared against corresponding Groundwater Protection Standards (GWPS). GWPS were developed as described below. Well/constituent pairs containing 100% non-detects do not require analyses.

Data from all wells for Appendix IV parameters are reassessed for outliers during each analysis. In previous reports, elevated concentrations for lithium at upgradient well HGWA-44D were flagged as outliers. More recent concentrations have continued to increase for lithium at upgradient well HGWA-44D; therefore, the record was truncated, in lieu of flagged outliers, to use observations between September 2020 and January 2023 to maintain conservative limits from a regulatory perspective. If further studies indicate the flagged measurements represent variation in groundwater quality, the values will be re-evaluated for construction of interwell upper tolerance limits. A list of any well/constituent pairs using a truncated portion of their record follows this letter.

Interwell Upper Tolerance Limits

Interwell upper tolerance limits were used to calculate site-specific background limits from all available pooled upgradient well data through February 2025 for Appendix IV constituents (Figure F). Parametric tolerance limits are calculated, with a target of 95% confidence and 95% coverage, when data follow a normal or transformed-normal distribution, such as the case for combined radium 226 + 228. When data contained

greater than 50% non-detects or did not follow a normal or transformed-normal distribution, non-parametric tolerance limits were used. As mentioned above, a reporting limit of 0.005 mg/L was substituted for arsenic and a reporting limit of 0.030 mg/L was substituted for lithium.

Groundwater Protection Standards

The background limits were then used when determining the groundwater protection standard (GWPS) under 40 CFR §257.95(h) and Georgia EPD Rule 391-3-4-.10(6)(a). On July 30, 2018, US EPA revised the Federal CCR rule updating GWPS for cobalt, lead, lithium, and molybdenum as described above in 40 CFR §257.95(h)(2). Effective on February 22, 2022, Georgia EPD incorporated the updated GWPS into the current Georgia EPD Rules for Solid Waste Management 391-3-4-.10(6)(a). In accordance with the updated Rules, the GWPS is:

- The maximum contaminant level (MCL) established under §141.62 and §141.66 of this title
- Where an MCL has not been established for a constituent, Federal and State CCR Rules specify levels for cobalt (0.006 mg/L), lead (0.015 mg/L), lithium (0.040 mg/L), and molybdenum (0.100 mg/L)
- The respective background level for a constituent when the background level is higher than the MCL or Federal CCR Rule identified GWPS

Following Georgia EPD Rule requirements and the Federal CCR requirements, GWPS were established for statistical comparison of Appendix IV constituents for this sample event (Figure G).

Confidence Intervals

To complete the statistical comparison to GWPS, confidence intervals using data through February 2025 were constructed for each of the Appendix IV constituents in each downgradient well with 8 or more samples and assessment wells with 4 or more samples.

The Sanitas software was used to calculate the confidence intervals. These intervals were constructed as either parametric or nonparametric confidence intervals depending on the data distribution and percentage of non-detects. When data followed a normal or transformed-normal distribution, parametric confidence intervals were used for Appendix IV parameters. Nonparametric confidence intervals, which use the appropriate order statistics, depending on the sample size, as interval limits, were constructed when data did not follow a normal or transformed-normal distribution or when there were greater than 50% non-detects. The lower confidence limit, which is constructed with 99%

confidence for parametric confidence intervals, is compared to the GWPS prepared as described above. The achievable confidence level associated with nonparametric confidence intervals is dependent upon the number samples available.

Confidence intervals were compared to the GWPS prepared as described above (Figure H). Only when the entire confidence interval is above a GWPS is the downgradient well/constituent pair considered to exceed its respective standard. If there is an exceedance of the GWPS, a statistically significant level (SSL) exceedance is identified. Summaries of the confidence interval results, along with graphical comparison against GWPS follow this letter. Exceedances were noted for the following well/constituent pairs:

- Arsenic: HGWC-13
- Molybdenum: HGWC-8

Trend Test Evaluation – Appendix IV

Data at wells with confidence interval exceedances are further evaluated using the Sen's Slope/Mann Kendall trend test at the 95% confidence level to determine whether concentrations are statistically increasing, decreasing, or stable (Figure I). Although the trend tests for Assessment monitoring pairs were previously evaluated using 99% confidence, the 95% confidence level more rapidly identifies statistically significant trends. Additionally, the 95% confidence level is recommended in cases with limited sample sizes and, particularly, for new assessment wells. Upgradient wells are included in the trend analyses to identify whether similar patterns exist upgradient of the site for the same constituents. When trends are present in upgradient wells, it is an indication of variability in groundwater quality unrelated to practices at the site. A summary of the Appendix IV trend test results follows this letter. Statistically significant trends were identified for the following well/constituent pairs:

Increasing trend:
- Arsenic: HGWC-13

Decreasing trends:
- Molybdenum: HGWA-43D (upgradient) and HGWC-8

Thank you for the opportunity to assist you in the statistical analysis of groundwater quality for Hammond AP-1. If you have any questions or comments, please feel free to contact us.

For Groundwater Stats Consulting,

Tristan Clark
Groundwater Analyst

Andrew T. Collins
Project Manager

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Summary Tables

Date Ranges

Date: 4/22/2025 4:43 PM

Plant Hammond Client: Southern Company Data: Hammond AP-1

Lithium (mg/L)

HGWA-44D overall:9/16/2020-1/24/2023

100% Non-Detects: Appendix IV Downgradient & Assessment

Analysis Run 4/22/2025 5:07 PM View: Appendix IV
Plant Hammond Client: Southern Company Data: Hammond AP-1

Antimony (mg/L)
HGWC-12, MW-5, MW-19, MW-20, MW-25D

Arsenic (mg/L)
HGWC-10, MW-7, MW-24D

Beryllium (mg/L)
HGWC-9, HGWC-10, HGWC-12, MW-5, MW-6, MW-20, MW-24D, MW-25D, MW-26D, MW-27D, MW-29

Cadmium (mg/L)
HGWC-13, MW-5, MW-6, MW-7, MW-20, MW-24D, MW-25D, MW-26D, MW-27D, MW-28D

Cobalt (mg/L)
MW-5, MW-7, MW-25D

Lithium (mg/L)
HGWC-10, HGWC-11, MW-7

Mercury (mg/L)
HGWC-7, HGWC-8, HGWC-12, MW-5, MW-6, MW-7, MW-19, MW-20, MW-24D, MW-26D, MW-27D, MW-28D

Molybdenum (mg/L)
MW-5, MW-20

Selenium (mg/L)
HGWC-7, MW-20, MW-24D, MW-25D, MW-26D, MW-28D, MW-29

Thallium (mg/L)
HGWC-7, HGWC-9, HGWC-10, MW-5, MW-7, MW-20, MW-24D, MW-25D, MW-26D, MW-27D

Appendix III Interwell Prediction Limits - Significant Results

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 4/22/2025, 4:56 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	HGWC-7	0.55	n/a	2/16/2025	0.9	Yes	100	6	n/a	n/a	0.0001929	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-8	0.55	n/a	2/15/2025	1.4	Yes	100	6	n/a	n/a	0.0001929	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-9	0.55	n/a	2/15/2025	2	Yes	100	6	n/a	n/a	0.0001929	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-11	0.55	n/a	2/13/2025	0.92	Yes	100	6	n/a	n/a	0.0001929	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-12	0.55	n/a	2/13/2025	1.4	Yes	100	6	n/a	n/a	0.0001929	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-13	0.55	n/a	2/17/2025	1	Yes	100	6	n/a	n/a	0.0001929	NP Inter (normality) 1 of 2
Calcium (mg/L)	HGWC-9	138	n/a	2/15/2025	171	Yes	100	0	n/a	n/a	0.0001929	NP Inter (normality) 1 of 2
Calcium (mg/L)	HGWC-12	138	n/a	2/13/2025	160	Yes	100	0	n/a	n/a	0.0001929	NP Inter (normality) 1 of 2
Chloride (mg/L)	HGWC-9	44.8	n/a	2/15/2025	81.2	Yes	100	0	n/a	n/a	0.0001929	NP Inter (normality) 1 of 2
Sulfate (mg/L)	HGWC-7	94.5	n/a	2/16/2025	98.5	Yes	100	1	n/a	n/a	0.0001929	NP Inter (normality) 1 of 2
Sulfate (mg/L)	HGWC-8	94.5	n/a	2/15/2025	104	Yes	100	1	n/a	n/a	0.0001929	NP Inter (normality) 1 of 2
Sulfate (mg/L)	HGWC-9	94.5	n/a	2/15/2025	169	Yes	100	1	n/a	n/a	0.0001929	NP Inter (normality) 1 of 2
Sulfate (mg/L)	HGWC-11	94.5	n/a	2/13/2025	155	Yes	100	1	n/a	n/a	0.0001929	NP Inter (normality) 1 of 2
Sulfate (mg/L)	HGWC-12	94.5	n/a	2/13/2025	198	Yes	100	1	n/a	n/a	0.0001929	NP Inter (normality) 1 of 2
Sulfate (mg/L)	HGWC-13	94.5	n/a	2/17/2025	167	Yes	100	1	n/a	n/a	0.0001929	NP Inter (normality) 1 of 2

Appendix III Interwell Prediction Limits - All Results

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 4/22/2025, 4:56 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	**HGWC-7**	**0.55**	**n/a**	**2/16/2025**	**0.9**	**Yes**	**100**	**6**	**n/a**	**n/a**	**0.0001929**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**HGWC-8**	**0.55**	**n/a**	**2/15/2025**	**1.4**	**Yes**	**100**	**6**	**n/a**	**n/a**	**0.0001929**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**HGWC-9**	**0.55**	**n/a**	**2/15/2025**	**2**	**Yes**	**100**	**6**	**n/a**	**n/a**	**0.0001929**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	HGWC-10	0.55	n/a	2/14/2025	0.1	No	100	6	n/a	n/a	0.0001929	NP Inter (normality) 1 of 2
Boron (mg/L)	**HGWC-11**	**0.55**	**n/a**	**2/13/2025**	**0.92**	**Yes**	**100**	**6**	**n/a**	**n/a**	**0.0001929**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**HGWC-12**	**0.55**	**n/a**	**2/13/2025**	**1.4**	**Yes**	**100**	**6**	**n/a**	**n/a**	**0.0001929**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**HGWC-13**	**0.55**	**n/a**	**2/17/2025**	**1**	**Yes**	**100**	**6**	**n/a**	**n/a**	**0.0001929**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	HGWC-7	138	n/a	2/16/2025	114	No	100	0	n/a	n/a	0.0001929	NP Inter (normality) 1 of 2
Calcium (mg/L)	HGWC-8	138	n/a	2/15/2025	83.3	No	100	0	n/a	n/a	0.0001929	NP Inter (normality) 1 of 2
Calcium (mg/L)	**HGWC-9**	**138**	**n/a**	**2/15/2025**	**171**	**Yes**	**100**	**0**	**n/a**	**n/a**	**0.0001929**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	HGWC-10	138	n/a	2/14/2025	61	No	100	0	n/a	n/a	0.0001929	NP Inter (normality) 1 of 2
Calcium (mg/L)	HGWC-11	138	n/a	2/13/2025	133	No	100	0	n/a	n/a	0.0001929	NP Inter (normality) 1 of 2
Calcium (mg/L)	**HGWC-12**	**138**	**n/a**	**2/13/2025**	**160**	**Yes**	**100**	**0**	**n/a**	**n/a**	**0.0001929**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	HGWC-13	138	n/a	2/17/2025	115	No	100	0	n/a	n/a	0.0001929	NP Inter (normality) 1 of 2
Chloride (mg/L)	HGWC-7	44.8	n/a	2/16/2025	30.7	No	100	0	n/a	n/a	0.0001929	NP Inter (normality) 1 of 2
Chloride (mg/L)	HGWC-8	44.8	n/a	2/15/2025	25	No	100	0	n/a	n/a	0.0001929	NP Inter (normality) 1 of 2
Chloride (mg/L)	**HGWC-9**	**44.8**	**n/a**	**2/15/2025**	**81.2**	**Yes**	**100**	**0**	**n/a**	**n/a**	**0.0001929**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	HGWC-10	44.8	n/a	2/14/2025	2.1	No	100	0	n/a	n/a	0.0001929	NP Inter (normality) 1 of 2
Chloride (mg/L)	HGWC-11	44.8	n/a	2/13/2025	11.7	No	100	0	n/a	n/a	0.0001929	NP Inter (normality) 1 of 2
Chloride (mg/L)	HGWC-12	44.8	n/a	2/13/2025	24.3	No	100	0	n/a	n/a	0.0001929	NP Inter (normality) 1 of 2
Chloride (mg/L)	HGWC-13	44.8	n/a	2/17/2025	13.5	No	100	0	n/a	n/a	0.0001929	NP Inter (normality) 1 of 2
Fluoride (mg/L)	HGWC-7	1.5	n/a	2/16/2025	0.056J	No	117	25.64	n/a	n/a	0.0001436	NP Inter (normality) 1 of 2
Fluoride (mg/L)	HGWC-8	1.5	n/a	2/15/2025	0.24	No	117	25.64	n/a	n/a	0.0001436	NP Inter (normality) 1 of 2
Fluoride (mg/L)	HGWC-9	1.5	n/a	2/15/2025	0.071J	No	117	25.64	n/a	n/a	0.0001436	NP Inter (normality) 1 of 2
Fluoride (mg/L)	HGWC-10	1.5	n/a	2/14/2025	0.086J	No	117	25.64	n/a	n/a	0.0001436	NP Inter (normality) 1 of 2
Fluoride (mg/L)	HGWC-11	1.5	n/a	2/13/2025	0.3	No	117	25.64	n/a	n/a	0.0001436	NP Inter (normality) 1 of 2
Fluoride (mg/L)	HGWC-12	1.5	n/a	2/13/2025	0.24	No	117	25.64	n/a	n/a	0.0001436	NP Inter (normality) 1 of 2
Fluoride (mg/L)	HGWC-13	1.5	n/a	2/17/2025	0.4	No	117	25.64	n/a	n/a	0.0001436	NP Inter (normality) 1 of 2
pH, Field (SU)	HGWC-7	8.49	4.57	2/16/2025	7.41	No	121	0	n/a	n/a	0.0002663	NP Inter (normality) 1 of 2
pH, Field (SU)	HGWC-8	8.49	4.57	2/15/2025	6.54	No	121	0	n/a	n/a	0.0002663	NP Inter (normality) 1 of 2
pH, Field (SU)	HGWC-9	8.49	4.57	2/15/2025	7.03	No	121	0	n/a	n/a	0.0002663	NP Inter (normality) 1 of 2
pH, Field (SU)	HGWC-10	8.49	4.57	2/14/2025	6.77	No	121	0	n/a	n/a	0.0002663	NP Inter (normality) 1 of 2
pH, Field (SU)	HGWC-11	8.49	4.57	2/13/2025	6.6	No	121	0	n/a	n/a	0.0002663	NP Inter (normality) 1 of 2
pH, Field (SU)	HGWC-12	8.49	4.57	2/13/2025	7.04	No	121	0	n/a	n/a	0.0002663	NP Inter (normality) 1 of 2
pH, Field (SU)	HGWC-13	8.49	4.57	2/17/2025	7.11	No	121	0	n/a	n/a	0.0002663	NP Inter (normality) 1 of 2
Sulfate (mg/L)	**HGWC-7**	**94.5**	**n/a**	**2/16/2025**	**98.5**	**Yes**	**100**	**1**	**n/a**	**n/a**	**0.0001929**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**HGWC-8**	**94.5**	**n/a**	**2/15/2025**	**104**	**Yes**	**100**	**1**	**n/a**	**n/a**	**0.0001929**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**HGWC-9**	**94.5**	**n/a**	**2/15/2025**	**169**	**Yes**	**100**	**1**	**n/a**	**n/a**	**0.0001929**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	HGWC-10	94.5	n/a	2/14/2025	39.2	No	100	1	n/a	n/a	0.0001929	NP Inter (normality) 1 of 2
Sulfate (mg/L)	**HGWC-11**	**94.5**	**n/a**	**2/13/2025**	**155**	**Yes**	**100**	**1**	**n/a**	**n/a**	**0.0001929**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**HGWC-12**	**94.5**	**n/a**	**2/13/2025**	**198**	**Yes**	**100**	**1**	**n/a**	**n/a**	**0.0001929**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**HGWC-13**	**94.5**	**n/a**	**2/17/2025**	**167**	**Yes**	**100**	**1**	**n/a**	**n/a**	**0.0001929**	**NP Inter (normality) 1 of 2**
TDS (mg/L)	HGWC-7	632	n/a	2/16/2025	408	No	100	0	n/a	n/a	0.0001929	NP Inter (normality) 1 of 2
TDS (mg/L)	HGWC-8	632	n/a	2/15/2025	340	No	100	0	n/a	n/a	0.0001929	NP Inter (normality) 1 of 2
TDS (mg/L)	HGWC-9	632	n/a	2/15/2025	628	No	100	0	n/a	n/a	0.0001929	NP Inter (normality) 1 of 2
TDS (mg/L)	HGWC-10	632	n/a	2/14/2025	208	No	100	0	n/a	n/a	0.0001929	NP Inter (normality) 1 of 2
TDS (mg/L)	HGWC-11	632	n/a	2/13/2025	478	No	100	0	n/a	n/a	0.0001929	NP Inter (normality) 1 of 2
TDS (mg/L)	HGWC-12	632	n/a	2/13/2025	590	No	100	0	n/a	n/a	0.0001929	NP Inter (normality) 1 of 2
TDS (mg/L)	HGWC-13	632	n/a	2/17/2025	522	No	100	0	n/a	n/a	0.0001929	NP Inter (normality) 1 of 2

Appendix III Trend Tests - Significant Results

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 4/22/2025, 5:02 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	**HGWA-2 (bg)**	**0.002553**	**192**	**105**	**Yes**	**24**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**HGWA-43D (bg)**	**-0.00484**	**-48**	**-43**	**Yes**	**13**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**HGWA-44D (bg)**	**0.06008**	**56**	**43**	**Yes**	**13**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**HGWC-12**	**-0.1623**	**-169**	**-105**	**Yes**	**24**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**HGWC-13**	**-0.1816**	**-179**	**-111**	**Yes**	**25**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**HGWA-2 (bg)**	**1.743**	**142**	**105**	**Yes**	**24**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**HGWA-3 (bg)**	**1.808**	**153**	**111**	**Yes**	**25**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**HGWA-44D (bg)**	**-6.278**	**-58**	**-43**	**Yes**	**13**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**HGWA-3 (bg)**	**-0.1661**	**-183**	**-111**	**Yes**	**25**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**HGWA-44D (bg)**	**6.04**	**54**	**43**	**Yes**	**13**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**HGWC-9**	**-10.74**	**-206**	**-105**	**Yes**	**24**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**HGWA-2 (bg)**	**4.631**	**200**	**105**	**Yes**	**24**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**HGWA-43D (bg)**	**-3.467**	**-66**	**-43**	**Yes**	**13**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**HGWC-9**	**-4.647**	**-119**	**-105**	**Yes**	**24**	**0**	**n/a**	**n/a**	**0.01**	**NP**

Appendix III Trend Tests - All Results

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 4/22/2025, 5:02 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	HGWA-1 (bg)	0	-3	-111	No	25	0	n/a	n/a	0.01	NP
Boron (mg/L)	**HGWA-2 (bg)**	**0.002553**	**192**	**105**	**Yes**	**24**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	HGWA-3 (bg)	0.0004291	70	111	No	25	24	n/a	n/a	0.01	NP
Boron (mg/L)	**HGWA-43D (bg)**	**-0.00484**	**-48**	**-43**	**Yes**	**13**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**HGWA-44D (bg)**	**0.06008**	**56**	**43**	**Yes**	**13**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	HGWC-7	0.01365	66	111	No	25	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWC-8	-0.04194	-74	-111	No	25	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWC-9	0.0155	45	105	No	24	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWC-11	-0.1137	-104	-105	No	24	0	n/a	n/a	0.01	NP
Boron (mg/L)	**HGWC-12**	**-0.1623**	**-169**	**-105**	**Yes**	**24**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**HGWC-13**	**-0.1816**	**-179**	**-111**	**Yes**	**25**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	HGWA-1 (bg)	2.026	100	111	No	25	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**HGWA-2 (bg)**	**1.743**	**142**	**105**	**Yes**	**24**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**HGWA-3 (bg)**	**1.808**	**153**	**111**	**Yes**	**25**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	HGWA-43D (bg)	-1.38	-24	-43	No	13	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**HGWA-44D (bg)**	**-6.278**	**-58**	**-43**	**Yes**	**13**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	HGWC-9	-0.2798	-18	-105	No	24	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWC-12	-2.431	-63	-105	No	24	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWA-1 (bg)	0.4664	67	111	No	25	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWA-2 (bg)	0.1024	59	105	No	24	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**HGWA-3 (bg)**	**-0.1661**	**-183**	**-111**	**Yes**	**25**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	HGWA-43D (bg)	-0.1034	-29	-43	No	13	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**HGWA-44D (bg)**	**6.04**	**54**	**43**	**Yes**	**13**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**HGWC-9**	**-10.74**	**-206**	**-105**	**Yes**	**24**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	HGWA-1 (bg)	0.3291	19	111	No	25	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**HGWA-2 (bg)**	**4.631**	**200**	**105**	**Yes**	**24**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	HGWA-3 (bg)	-0.7966	-54	-111	No	25	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**HGWA-43D (bg)**	**-3.467**	**-66**	**-43**	**Yes**	**13**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	HGWA-44D (bg)	-1.791	-24	-43	No	13	7.692	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWC-7	-0.3647	-48	-111	No	25	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWC-8	-11.28	-111	-111	No	25	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**HGWC-9**	**-4.647**	**-119**	**-105**	**Yes**	**24**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	HGWC-11	-10.76	-104	-105	No	24	4.167	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWC-12	-8.029	-82	-105	No	24	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWC-13	22.76	64	105	No	24	0	n/a	n/a	0.01	NP

Upper Tolerance Limits - Summary Table

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 4/24/2025, 3:01 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	n/a	0.003	n/a	n/a	n/a	n/a	106	84.91	n/a	n/a	0.004352	NP Inter(NDs)
Arsenic (mg/L)	n/a	0.005	n/a	n/a	n/a	n/a	112	70.54	n/a	n/a	0.003199	NP Inter(NDs)
Barium (mg/L)	n/a	0.46	n/a	n/a	n/a	n/a	112	0	n/a	n/a	0.003199	NP Inter(normality)
Beryllium (mg/L)	n/a	0.0005	n/a	n/a	n/a	n/a	106	78.3	n/a	n/a	0.004352	NP Inter(NDs)
Cadmium (mg/L)	n/a	0.0005	n/a	n/a	n/a	n/a	112	84.82	n/a	n/a	0.003199	NP Inter(NDs)
Chromium (mg/L)	n/a	0.0079	n/a	n/a	n/a	n/a	106	85.85	n/a	n/a	0.004352	NP Inter(NDs)
Cobalt (mg/L)	n/a	0.038	n/a	n/a	n/a	n/a	112	71.43	n/a	n/a	0.003199	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	n/a	1.592	n/a	n/a	n/a	n/a	112	0	None	sqrt(x)	0.05	Inter
Fluoride (mg/L)	n/a	1.5	n/a	n/a	n/a	n/a	117	25.64	n/a	n/a	0.002475	NP Inter(normality)
Lead (mg/L)	n/a	0.001	n/a	n/a	n/a	n/a	106	73.58	n/a	n/a	0.004352	NP Inter(NDs)
Lithium (mg/L)	n/a	0.064	n/a	n/a	n/a	n/a	108	18.52	n/a	n/a	0.003928	NP Inter(normality)
Mercury (mg/L)	n/a	0.0002	n/a	n/a	n/a	n/a	89	97.75	n/a	n/a	0.01041	NP Inter(NDs)
Molybdenum (mg/L)	n/a	0.01	n/a	n/a	n/a	n/a	114	77.19	n/a	n/a	0.002887	NP Inter(NDs)
Selenium (mg/L)	n/a	0.005	n/a	n/a	n/a	n/a	112	94.64	n/a	n/a	0.003199	NP Inter(NDs)
Thallium (mg/L)	n/a	0.001	n/a	n/a	n/a	n/a	112	99.11	n/a	n/a	0.003199	NP Inter(NDs)

PLANT HAMMOND AP-1 GWPS				
Constituent Name	**MCL**	**CCR-Rule Specified**	**Background Limit**	**GWPS**
Antimony, Total (mg/L)	0.006		0.003	0.006
Arsenic, Total (mg/L)	0.01		0.005	0.01
Barium, Total (mg/L)	2		0.46	2
Beryllium, Total (mg/L)	0.004		0.0005	0.004
Cadmium, Total (mg/L)	0.005		0.0005	0.005
Chromium, Total (mg/L)	0.1		0.0079	0.1
Cobalt, Total (mg/L)	n/a	0.006	0.038	0.038
Combined Radium, Total (pCi/L)	5		1.59	5
Fluoride, Total (mg/L)	4		1.5	4
Lead, Total (mg/L)	n/a	0.015	0.001	0.015
Lithium, Total (mg/L)	n/a	0.04	0.064	0.064
Mercury, Total (mg/L)	0.002		0.0002	0.002
Molybdenum, Total (mg/L)	n/a	0.1	0.01	0.1
Selenium, Total (mg/L)	0.05		0.005	0.05
Thallium, Total (mg/L)	0.002		0.001	0.002

**Grey cell indidcates background is higher than MCL or CCR-Rule*

**MCL = Maximum Contaminant Level*

**CCR = Coal Combustion Residuals*

**GWPS = Groundwater Protection Statard*

Confidence Interval Summary Table - Significant Results

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 4/22/2025, 5:23 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	**HGWC-13**	**0.4435**	**0.3736**	**0.01**	**Yes**	**27**	**0.4085**	**0.07328**	**0**	**None**	**No**	**0.01**	**Param.**
Molybdenum (mg/L)	**HGWC-8**	**0.4707**	**0.3911**	**0.1**	**Yes**	**28**	**0.4215**	**0.09993**	**0**	**None**	**x^2**	**0.01**	**Param.**

Confidence Interval Summary Table - All Results

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 4/22/2025, 5:23 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	HGWC-7	0.003	0.0017	0.006	No	25	0.002842	0.0005823	92	None	No	0.01	NP (NDs)
Antimony (mg/L)	HGWC-8	0.003	0.00064	0.006	No	25	0.002906	0.000472	96	None	No	0.01	NP (NDs)
Antimony (mg/L)	HGWC-9	0.003	0.00092	0.006	No	25	0.002604	0.0009319	84	None	No	0.01	NP (NDs)
Antimony (mg/L)	HGWC-10	0.003	0.0018	0.006	No	25	0.002858	0.0005187	92	None	No	0.01	NP (NDs)
Antimony (mg/L)	HGWC-11	0.003	0.00038	0.006	No	25	0.002895	0.000524	96	None	No	0.01	NP (NDs)
Antimony (mg/L)	HGWC-13	0.003	0.00061	0.006	No	25	0.002269	0.001198	72	None	No	0.01	NP (NDs)
Antimony (mg/L)	MW-6	0.003	0.0014	0.006	No	16	0.0029	0.0004	93.75	None	No	0.01	NP (NDs)
Antimony (mg/L)	MW-7	0.003	0.0013	0.006	No	16	0.002548	0.0008646	75	None	No	0.01	NP (NDs)
Antimony (mg/L)	MW-24D	0.003	0.0017	0.006	No	16	0.002639	0.0008024	81.25	None	No	0.01	NP (NDs)
Antimony (mg/L)	MW-26D	0.003	0.002	0.006	No	16	0.002831	0.0004785	87.5	None	No	0.01	NP (NDs)
Antimony (mg/L)	MW-27D	0.003	0.00031	0.006	No	16	0.001989	0.001349	62.5	None	No	0.01	NP (NDs)
Antimony (mg/L)	MW-28D	0.003	0.0019	0.006	No	16	0.002931	0.000275	93.75	None	No	0.01	NP (NDs)
Antimony (mg/L)	MW-29	0.003	0.00094	0.006	No	16	0.002871	0.000515	93.75	None	No	0.01	NP (NDs)
Arsenic (mg/L)	HGWC-7	0.005	0.0019	0.01	No	27	0.004885	0.0005966	96.3	None	No	0.01	NP (NDs)
Arsenic (mg/L)	HGWC-8	0.005	0.002	0.01	No	27	0.004889	0.0005774	96.3	None	No	0.01	NP (NDs)
Arsenic (mg/L)	HGWC-9	0.005	0.0021	0.01	No	27	0.004408	0.001469	85.19	None	No	0.01	NP (NDs)
Arsenic (mg/L)	HGWC-11	0.005	0.0018	0.01	No	27	0.003639	0.001706	51.85	None	No	0.01	NP (NDs)
Arsenic (mg/L)	HGWC-12	0.004281	0.003105	0.01	No	27	0.003693	0.001233	11.11	None	No	0.01	Param.
Arsenic (mg/L)	**HGWC-13**	**0.4435**	**0.3736**	**0.01**	**Yes**	**27**	**0.4085**	**0.07328**	**0**	**None**	**No**	**0.01**	**Param.**
Arsenic (mg/L)	MW-5	0.005	0.0013	0.01	No	16	0.004769	0.000925	93.75	None	No	0.01	NP (NDs)
Arsenic (mg/L)	MW-6	0.005	0.0034	0.01	No	16	0.0049	0.0004	93.75	None	No	0.01	NP (NDs)
Arsenic (mg/L)	MW-19	0.005	0.00045	0.01	No	16	0.004716	0.001137	93.75	None	No	0.01	NP (NDs)
Arsenic (mg/L)	MW-20	0.005	0.0023	0.01	No	16	0.004289	0.001571	81.25	None	No	0.01	NP (NDs)
Arsenic (mg/L)	MW-25D	0.005	0.0011	0.01	No	16	0.004047	0.001719	75	None	No	0.01	NP (NDs)
Arsenic (mg/L)	MW-26D	0.005	0.0017	0.01	No	16	0.004256	0.001613	81.25	None	No	0.01	NP (NDs)
Arsenic (mg/L)	MW-27D	0.005	0.001	0.01	No	16	0.004181	0.001768	81.25	None	No	0.01	NP (NDs)
Arsenic (mg/L)	MW-28D	0.005	0.0011	0.01	No	16	0.004756	0.000975	93.75	None	No	0.01	NP (NDs)
Arsenic (mg/L)	MW-29	0.005	0.00037	0.01	No	16	0.004711	0.001157	93.75	None	No	0.01	NP (NDs)
Barium (mg/L)	HGWC-7	0.07521	0.06819	2	No	27	0.0717	0.007357	0	None	No	0.01	Param.
Barium (mg/L)	HGWC-8	0.07107	0.0596	2	No	27	0.06533	0.01203	0	None	No	0.01	Param.
Barium (mg/L)	HGWC-9	0.1139	0.09115	2	No	27	0.1025	0.02387	0	None	No	0.01	Param.
Barium (mg/L)	HGWC-10	0.07971	0.05964	2	No	27	0.06968	0.02103	0	None	No	0.01	Param.
Barium (mg/L)	HGWC-11	0.04724	0.03267	2	No	27	0.04149	0.01789	0	None	x^(1/3)	0.01	Param.
Barium (mg/L)	HGWC-12	0.1038	0.08321	2	No	27	0.09444	0.02234	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	HGWC-13	0.08388	0.06431	2	No	27	0.0741	0.02052	0	None	No	0.01	Param.
Barium (mg/L)	MW-5	0.05141	0.04496	2	No	16	0.04819	0.004956	0	None	No	0.01	Param.
Barium (mg/L)	MW-6	0.08746	0.07516	2	No	16	0.08131	0.00945	0	None	No	0.01	Param.
Barium (mg/L)	MW-7	0.06131	0.05032	2	No	16	0.05581	0.008448	0	None	No	0.01	Param.
Barium (mg/L)	MW-19	0.05692	0.03983	2	No	16	0.04838	0.01314	0	None	No	0.01	Param.
Barium (mg/L)	MW-20	0.09517	0.08783	2	No	16	0.0915	0.005633	0	None	No	0.01	Param.
Barium (mg/L)	MW-24D	0.062	0.043	2	No	16	0.05625	0.01988	0	None	No	0.01	NP (normality)
Barium (mg/L)	MW-25D	0.6539	0.4699	2	No	16	0.5619	0.1414	0	None	No	0.01	Param.
Barium (mg/L)	MW-26D	0.108	0.06512	2	No	16	0.08656	0.03295	0	None	No	0.01	Param.
Barium (mg/L)	MW-27D	1.116	0.8115	2	No	16	0.9638	0.234	0	None	No	0.01	Param.
Barium (mg/L)	MW-28D	1.061	0.3831	2	No	17	0.8735	0.776	0	None	ln(x)	0.01	Param.
Barium (mg/L)	MW-29	0.08105	0.06958	2	No	16	0.07531	0.008815	0	None	No	0.01	Param.
Beryllium (mg/L)	HGWC-7	0.0005	0.00019	0.004	No	25	0.0004539	0.0001287	88	None	No	0.01	NP (NDs)
Beryllium (mg/L)	HGWC-8	0.0005	0.000087	0.004	No	25	0.0003505	0.0002044	64	None	No	0.01	NP (NDs)
Beryllium (mg/L)	HGWC-11	0.0005	0.00015	0.004	No	25	0.0003746	0.0001875	68	None	No	0.01	NP (NDs)
Beryllium (mg/L)	HGWC-13	0.0005	0.000099	0.004	No	25	0.0003373	0.0002036	60	None	No	0.01	NP (NDs)
Beryllium (mg/L)	MW-7	0.0005	0.000051	0.004	No	16	0.0004719	0.0001123	93.75	None	No	0.01	NP (NDs)
Beryllium (mg/L)	MW-19	0.0005	0.000058	0.004	No	16	0.0004724	0.0001105	93.75	None	No	0.01	NP (NDs)
Beryllium (mg/L)	MW-28D	0.0005	0.00014	0.004	No	16	0.0004214	0.0001701	81.25	None	No	0.01	NP (NDs)
Cadmium (mg/L)	HGWC-7	0.0005	0.0002	0.005	No	25	0.0004356	0.0001327	80	None	No	0.01	NP (NDs)
Cadmium (mg/L)	HGWC-8	0.0003	0.00017	0.005	No	25	0.000338	0.0003796	4	None	No	0.01	NP (normality)
Cadmium (mg/L)	HGWC-9	0.0005	0.0002	0.005	No	25	0.0004548	0.0001265	88	None	No	0.01	NP (NDs)
Cadmium (mg/L)	HGWC-10	0.0005	0.0002	0.005	No	25	0.0003926	0.0001768	72	None	No	0.01	NP (NDs)
Cadmium (mg/L)	HGWC-11	0.0005	0.0001	0.005	No	25	0.0004518	0.0001331	88	None	No	0.01	NP (NDs)
Cadmium (mg/L)	HGWC-12	0.0005	0.0003	0.005	No	25	0.0004496	0.000122	84	None	No	0.01	NP (NDs)
Cadmium (mg/L)	MW-19	0.0002874	0.0001543	0.005	No	16	0.0003475	0.0002489	31.25	Kaplan-Meier	ln(x)	0.01	Param.
Cadmium (mg/L)	MW-29	0.00053	0.00039	0.005	No	16	0.0004756	0.00008148	81.25	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	HGWC-7	0.005	0.0021	0.1	No	25	0.006746	0.01349	72	None	No	0.01	NP (NDs)
Chromium (mg/L)	HGWC-8	0.005	0.0015	0.1	No	25	0.004341	0.001549	84	None	No	0.01	NP (NDs)
Chromium (mg/L)	HGWC-9	0.005	0.0013	0.1	No	25	0.004344	0.00154	84	None	No	0.01	NP (NDs)
Chromium (mg/L)	HGWC-10	0.005	0.0014	0.1	No	25	0.005148	0.003336	84	None	No	0.01	NP (NDs)
Chromium (mg/L)	HGWC-11	0.005	0.0012	0.1	No	25	0.004484	0.001431	88	None	No	0.01	NP (NDs)
Chromium (mg/L)	HGWC-12	0.005	0.0025	0.1	No	25	0.004552	0.001277	88	None	No	0.01	NP (NDs)
Chromium (mg/L)	HGWC-13	0.005	0.00059	0.1	No	25	0.004462	0.001487	88	None	No	0.01	NP (NDs)

Confidence Interval Summary Table - All Results

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 4/22/2025, 5:23 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Chromium (mg/L)	MW-5	0.003572	0.002278	0.1	No	16	0.002925	0.000995	6.25	None	No	0.01	Param.
Chromium (mg/L)	MW-6	0.005	0.0014	0.1	No	16	0.004214	0.0017	81.25	None	No	0.01	NP (NDs)
Chromium (mg/L)	MW-7	0.005	0.0015	0.1	No	16	0.002537	0.001489	25	None	No	0.01	NP (normality)
Chromium (mg/L)	MW-19	0.005	0.00066	0.1	No	16	0.003526	0.002001	62.5	None	No	0.01	NP (NDs)
Chromium (mg/L)	MW-20	0.005	0.00071	0.1	No	16	0.004181	0.001761	81.25	None	No	0.01	NP (NDs)
Chromium (mg/L)	MW-24D	0.005	0.0017	0.1	No	16	0.004507	0.001366	87.5	None	No	0.01	NP (NDs)
Chromium (mg/L)	MW-25D	0.005	0.0012	0.1	No	16	0.004488	0.001403	87.5	None	No	0.01	NP (NDs)
Chromium (mg/L)	MW-26D	0.005	0.0015	0.1	No	16	0.003879	0.001769	68.75	None	No	0.01	NP (NDs)
Chromium (mg/L)	MW-27D	0.005	0.00082	0.1	No	16	0.00447	0.001448	87.5	None	No	0.01	NP (NDs)
Chromium (mg/L)	MW-28D	0.005	0.00085	0.1	No	16	0.003602	0.001911	62.5	None	No	0.01	NP (NDs)
Chromium (mg/L)	MW-29	0.005	0.001	0.1	No	16	0.00475	0.001	93.75	None	No	0.01	NP (NDs)
Cobalt (mg/L)	HGWC-7	0.001252	0.0007034	0.038	No	27	0.001128	0.0007438	14.81	None	ln(x)	0.01	Param.
Cobalt (mg/L)	HGWC-8	0.0021	0.0018	0.038	No	27	0.002747	0.002824	7.407	None	No	0.01	NP (normality)
Cobalt (mg/L)	HGWC-9	0.001	0.00056	0.038	No	27	0.0009607	0.0007185	14.81	None	No	0.01	NP (normality)
Cobalt (mg/L)	HGWC-10	0.005	0.0012	0.038	No	27	0.004059	0.001797	77.78	None	No	0.01	NP (NDs)
Cobalt (mg/L)	HGWC-11	0.005	0.0014	0.038	No	27	0.003362	0.00183	51.85	None	No	0.01	NP (NDs)
Cobalt (mg/L)	HGWC-12	0.0016	0.0012	0.038	No	27	0.001633	0.001004	7.407	None	No	0.01	NP (normality)
Cobalt (mg/L)	HGWC-13	0.0053	0.0024	0.038	No	27	0.005534	0.005433	3.704	None	No	0.01	NP (normality)
Cobalt (mg/L)	MW-6	0.00094	0.00041	0.038	No	16	0.001338	0.001822	18.75	None	No	0.01	NP (normality)
Cobalt (mg/L)	MW-19	0.03819	0.02456	0.038	No	16	0.03138	0.01047	0	None	No	0.01	Param.
Cobalt (mg/L)	MW-20	0.005	0.0011	0.038	No	16	0.004756	0.000975	93.75	None	No	0.01	NP (NDs)
Cobalt (mg/L)	MW-24D	0.005	0.0011	0.038	No	16	0.004182	0.001766	81.25	None	No	0.01	NP (NDs)
Cobalt (mg/L)	MW-26D	0.005	0.00045	0.038	No	16	0.002178	0.002258	37.5	None	No	0.01	NP (normality)
Cobalt (mg/L)	MW-27D	0.005	0.00045	0.038	No	16	0.004121	0.00189	81.25	None	No	0.01	NP (NDs)
Cobalt (mg/L)	MW-28D	0.005	0.00093	0.038	No	16	0.004746	0.001017	93.75	None	No	0.01	NP (NDs)
Cobalt (mg/L)	MW-29	0.001442	0.0007252	0.038	No	16	0.001121	0.0006196	12.5	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	HGWC-7	0.8053	0.4295	5	No	27	0.6647	0.4531	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	HGWC-8	0.9026	0.6327	5	No	27	0.7677	0.2829	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	HGWC-9	0.844	0.5253	5	No	27	0.6847	0.3341	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	HGWC-10	0.9873	0.5678	5	No	27	0.7776	0.4397	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	HGWC-11	1.065	0.6394	5	No	27	0.852	0.4458	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	HGWC-12	0.9576	0.5557	5	No	27	0.7567	0.4213	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	HGWC-13	0.9326	0.594	5	No	27	0.7633	0.3549	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-5	0.871	0.5405	5	No	16	0.7058	0.2539	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-6	0.9167	0.492	5	No	16	0.7473	0.3989	0	None	ln(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-7	1.004	0.4257	5	No	16	0.7148	0.4443	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-19	0.8461	0.4376	5	No	16	0.6418	0.3139	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-20	0.9273	0.4357	5	No	16	0.6815	0.3778	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-24D	0.5223	0.1925	5	No	16	0.3819	0.3035	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-25D	1.243	0.8891	5	No	16	1.066	0.2723	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-26D	0.7146	0.1948	5	No	16	0.5042	0.4463	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-27D	1.363	0.7646	5	No	16	1.09	0.5032	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-28D	1.683	0.7239	5	No	16	1.203	0.737	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-29	0.8424	0.3627	5	No	16	0.6025	0.3687	0	None	No	0.01	Param.
Fluoride (mg/L)	HGWC-7	0.15	0.081	4	No	29	0.136	0.1027	6.897	None	No	0.01	NP (normality)
Fluoride (mg/L)	HGWC-8	0.5967	0.4454	4	No	29	0.531	0.1775	0	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	HGWC-9	0.2141	0.09955	4	No	28	0.1754	0.1429	7.143	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	HGWC-10	0.1638	0.08216	4	No	28	0.1538	0.131	14.29	None	ln(x)	0.01	Param.
Fluoride (mg/L)	HGWC-11	0.3702	0.2329	4	No	28	0.3151	0.1582	0	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	HGWC-12	0.3	0.17	4	No	28	0.2919	0.2194	3.571	None	No	0.01	NP (normality)
Fluoride (mg/L)	HGWC-13	0.6483	0.4716	4	No	28	0.56	0.1891	0	None	No	0.01	Param.
Fluoride (mg/L)	MW-5	0.08265	0.05985	4	No	16	0.07125	0.01753	12.5	None	No	0.01	Param.
Fluoride (mg/L)	MW-6	0.15	0.057	4	No	16	0.09275	0.04567	18.75	None	No	0.01	NP (normality)
Fluoride (mg/L)	MW-7	0.17	0.06	4	No	16	0.09219	0.02745	56.25	None	No	0.01	NP (NDs)
Fluoride (mg/L)	MW-19	0.2184	0.09994	4	No	16	0.1697	0.1181	0	None	x^(1/3)	0.01	Param.
Fluoride (mg/L)	MW-20	0.1	0.074	4	No	16	0.09294	0.01322	75	None	No	0.01	NP (NDs)
Fluoride (mg/L)	MW-24D	0.09527	0.05679	4	No	16	0.08688	0.03372	25	Kaplan-Meier	sqrt(x)	0.01	Param.
Fluoride (mg/L)	MW-25D	1.7	1.4	4	No	16	1.581	0.1905	0	None	No	0.01	NP (normality)
Fluoride (mg/L)	MW-26D	0.1107	0.06555	4	No	16	0.08994	0.03788	6.25	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	MW-27D	0.2847	0.2192	4	No	16	0.2538	0.05439	0	None	x^(1/3)	0.01	Param.
Fluoride (mg/L)	MW-28D	0.2354	0.1683	4	No	16	0.2019	0.05154	0	None	No	0.01	Param.
Fluoride (mg/L)	MW-29	0.18	0.068	4	No	16	0.09313	0.0298	62.5	None	No	0.01	NP (NDs)
Lead (mg/L)	HGWC-7	0.001	0.0002	0.015	No	24	0.0007498	0.0004091	62.5	None	No	0.01	NP (NDs)
Lead (mg/L)	HGWC-8	0.001	0.0002	0.015	No	23	0.000849	0.0003371	82.61	None	No	0.01	NP (NDs)
Lead (mg/L)	HGWC-9	0.001	0.0002	0.015	No	23	0.0007093	0.0004088	65.22	None	No	0.01	NP (NDs)
Lead (mg/L)	HGWC-10	0.001	0.00005	0.015	No	23	0.0009587	0.0001981	95.65	None	No	0.01	NP (NDs)
Lead (mg/L)	HGWC-11	0.001	0.0003	0.015	No	23	0.0007852	0.0003733	73.91	None	No	0.01	NP (NDs)
Lead (mg/L)	HGWC-12	0.001	0.00043	0.015	No	23	0.0008147	0.0003658	78.26	None	No	0.01	NP (NDs)

Confidence Interval Summary Table - All Results

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 4/22/2025, 5:23 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lead (mg/L)	HGWC-13	0.001	0.00018	0.015	No	23	0.0007735	0.0003903	73.91	None	No	0.01	NP (NDs)
Lead (mg/L)	MW-5	0.001	0.000047	0.015	No	14	0.0009319	0.0002547	92.86	None	No	0.01	NP (NDs)
Lead (mg/L)	MW-6	0.001	0.00013	0.015	No	15	0.0007673	0.0004019	73.33	None	No	0.01	NP (NDs)
Lead (mg/L)	MW-7	0.001	0.000062	0.015	No	14	0.000933	0.0002507	92.86	None	No	0.01	NP (NDs)
Lead (mg/L)	MW-19	0.001	0.000085	0.015	No	14	0.000736	0.0004334	71.43	None	No	0.01	NP (NDs)
Lead (mg/L)	MW-20	0.001	0.00013	0.015	No	14	0.0007456	0.0004182	71.43	None	No	0.01	NP (NDs)
Lead (mg/L)	MW-24D	0.001	0.000064	0.015	No	14	0.0006754	0.0004533	64.29	None	No	0.01	NP (NDs)
Lead (mg/L)	MW-25D	0.001	0.00037	0.015	No	14	0.000955	0.0001684	92.86	None	No	0.01	NP (NDs)
Lead (mg/L)	MW-26D	0.001	0.0001	0.015	No	14	0.00087	0.0003305	85.71	None	No	0.01	NP (NDs)
Lead (mg/L)	MW-27D	0.001	0.00043	0.015	No	14	0.0008971	0.000268	85.71	None	No	0.01	NP (NDs)
Lead (mg/L)	MW-28D	0.001	0.00034	0.015	No	14	0.0007873	0.0003582	64.29	None	No	0.01	NP (NDs)
Lead (mg/L)	MW-29	0.001	0.00011	0.015	No	14	0.0008037	0.0003902	78.57	None	No	0.01	NP (NDs)
Lithium (mg/L)	HGWC-7	0.0026	0.002	0.064	No	27	0.002862	0.002479	3.704	None	No	0.01	NP (normality)
Lithium (mg/L)	HGWC-8	0.003	0.0025	0.064	No	27	0.003916	0.004029	11.11	None	No	0.01	NP (normality)
Lithium (mg/L)	HGWC-9	0.0044	0.0036	0.064	No	27	0.004397	0.002189	3.704	None	No	0.01	NP (normality)
Lithium (mg/L)	HGWC-12	0.01017	0.008069	0.064	No	27	0.009118	0.0022	0	None	No	0.01	Param.
Lithium (mg/L)	HGWC-13	0.03983	0.03222	0.064	No	27	0.03603	0.007984	0	None	No	0.01	Param.
Lithium (mg/L)	MW-5	0.03	0.000687	0.064	No	16	0.02817	0.007328	93.75	None	No	0.01	NP (NDs)
Lithium (mg/L)	MW-6	0.03	0.000625	0.064	No	16	0.02816	0.007344	93.75	None	No	0.01	NP (NDs)
Lithium (mg/L)	MW-19	0.01321	0.008978	0.064	No	16	0.01109	0.003252	12.5	None	No	0.01	Param.
Lithium (mg/L)	MW-20	0.03	0.00091	0.064	No	16	0.01193	0.01446	37.5	None	No	0.01	NP (normality)
Lithium (mg/L)	MW-24D	0.002889	0.002616	0.064	No	16	0.002753	0.0002094	0	None	No	0.01	Param.
Lithium (mg/L)	MW-25D	0.04802	0.04076	0.064	No	16	0.04439	0.005576	0	None	No	0.01	Param.
Lithium (mg/L)	MW-26D	0.004	0.0032	0.064	No	16	0.005176	0.006628	0	None	No	0.01	NP (normality)
Lithium (mg/L)	MW-27D	0.009379	0.006809	0.064	No	16	0.008094	0.001975	0	None	No	0.01	Param.
Lithium (mg/L)	MW-28D	0.01309	0.008005	0.064	No	16	0.01055	0.00391	0	None	No	0.01	Param.
Lithium (mg/L)	MW-29	0.0024	0.0019	0.064	No	16	0.002244	0.0004403	0	None	No	0.01	NP (normality)
Mercury (mg/L)	HGWC-9	0.0002	0.00004	0.002	No	19	0.0001916	0.00003671	94.74	None	No	0.01	NP (NDs)
Mercury (mg/L)	HGWC-10	0.0002	0.00005	0.002	No	20	0.0001925	0.00003354	95	None	No	0.01	NP (NDs)
Mercury (mg/L)	HGWC-11	0.0002	0.00005	0.002	No	19	0.0001921	0.00003441	94.74	None	No	0.01	NP (NDs)
Mercury (mg/L)	HGWC-13	0.0002	0.00005	0.002	No	19	0.0001837	0.0000489	89.47	None	No	0.01	NP (NDs)
Mercury (mg/L)	MW-25D	0.0002	0.0002	0.002	No	10	0.000193	0.00002214	90	None	No	0.011	NP (NDs)
Mercury (mg/L)	MW-29	0.0002	0.0002	0.002	No	10	0.000197	0.00000948	90	None	No	0.011	NP (NDs)
Molybdenum (mg/L)	HGWC-7	0.04138	0.03392	0.1	No	28	0.03765	0.00798	0	None	No	0.01	Param.
Molybdenum (mg/L)	**HGWC-8**	**0.4707**	**0.3911**	**0.1**	**Yes**	**28**	**0.4215**	**0.09993**	**0**	**None**	**x^2**	**0.01**	**Param.**
Molybdenum (mg/L)	HGWC-9	0.033	0.0229	0.1	No	27	0.04295	0.08701	0	None	No	0.01	NP (normality)
Molybdenum (mg/L)	HGWC-10	0.01	0.0014	0.1	No	27	0.006451	0.004367	59.26	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	HGWC-11	0.02651	0.01742	0.1	No	27	0.02196	0.009526	0	None	No	0.01	Param.
Molybdenum (mg/L)	HGWC-12	0.04873	0.04557	0.1	No	27	0.04715	0.003317	0	None	No	0.01	Param.
Molybdenum (mg/L)	HGWC-13	0.03377	0.02588	0.1	No	27	0.02983	0.008263	0	None	No	0.01	Param.
Molybdenum (mg/L)	MW-6	0.002749	0.002376	0.1	No	16	0.002563	0.0002872	0	None	No	0.01	Param.
Molybdenum (mg/L)	MW-7	0.01	0.0015	0.1	No	16	0.005012	0.004029	37.5	None	No	0.01	NP (normality)
Molybdenum (mg/L)	MW-19	0.04739	0.02273	0.1	No	16	0.03506	0.01895	12.5	None	No	0.01	Param.
Molybdenum (mg/L)	MW-24D	0.01	0.00087	0.1	No	16	0.004109	0.004163	25	None	No	0.01	NP (normality)
Molybdenum (mg/L)	MW-25D	0.01	0.0022	0.1	No	16	0.008946	0.002889	87.5	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	MW-26D	0.02353	0.01389	0.1	No	17	0.01871	0.007692	5.882	None	No	0.01	Param.
Molybdenum (mg/L)	MW-27D	0.004719	0.001678	0.1	No	16	0.004081	0.00505	6.25	None	ln(x)	0.01	Param.
Molybdenum (mg/L)	MW-28D	0.01627	0.005515	0.1	No	16	0.01089	0.008267	0	None	No	0.01	Param.
Molybdenum (mg/L)	MW-29	0.003521	0.002529	0.1	No	16	0.003025	0.000762	6.25	None	No	0.01	Param.
Selenium (mg/L)	HGWC-8	0.05	0.0024	0.05	No	27	0.04824	0.009161	96.3	None	No	0.01	NP (NDs)
Selenium (mg/L)	HGWC-9	0.005	0.0037	0.05	No	27	0.004952	0.0002502	96.3	None	No	0.01	NP (NDs)
Selenium (mg/L)	HGWC-10	0.005	0.0031	0.05	No	27	0.004156	0.001239	62.96	None	No	0.01	NP (NDs)
Selenium (mg/L)	HGWC-11	0.01281	0.006401	0.05	No	27	0.01049	0.007239	3.704	None	sqrt(x)	0.01	Param.
Selenium (mg/L)	HGWC-12	0.005	0.0011	0.05	No	27	0.004856	0.0007506	96.3	None	No	0.01	NP (NDs)
Selenium (mg/L)	HGWC-13	0.005	0.0016	0.05	No	27	0.004696	0.001114	92.59	None	No	0.01	NP (NDs)
Selenium (mg/L)	MW-5	0.003648	0.002577	0.05	No	16	0.003113	0.0008237	0	None	No	0.01	Param.
Selenium (mg/L)	MW-6	0.005	0.0035	0.05	No	16	0.004675	0.0009747	87.5	None	No	0.01	NP (NDs)
Selenium (mg/L)	MW-7	0.005	0.0015	0.05	No	16	0.003375	0.001703	50	None	No	0.01	NP (normality)
Selenium (mg/L)	MW-19	0.0082	0.0022	0.05	No	16	0.01268	0.0186	18.75	None	No	0.01	NP (normality)
Selenium (mg/L)	MW-27D	0.005	0.00012	0.05	No	16	0.004695	0.00122	93.75	None	No	0.01	NP (NDs)
Thallium (mg/L)	HGWC-8	0.001	0.00018	0.002	No	27	0.0007655	0.0004044	74.07	None	No	0.01	NP (NDs)
Thallium (mg/L)	HGWC-11	0.001	0.00008	0.002	No	27	0.0009319	0.0002455	92.59	None	No	0.01	NP (NDs)
Thallium (mg/L)	HGWC-12	0.001	0.0002	0.002	No	27	0.0008009	0.0003802	77.78	None	No	0.01	NP (NDs)
Thallium (mg/L)	HGWC-13	0.0004261	0.0003389	0.002	No	27	0.0003825	0.00009134	14.81	None	No	0.01	Param.
Thallium (mg/L)	MW-6	0.001	0.000082	0.002	No	16	0.0009426	0.0002295	93.75	None	No	0.01	NP (NDs)
Thallium (mg/L)	MW-19	0.001	0.00026	0.002	No	16	0.0005913	0.0003754	43.75	None	No	0.01	NP (normality)
Thallium (mg/L)	MW-28D	0.001	0.000092	0.002	No	16	0.0009433	0.000227	93.75	None	No	0.01	NP (NDs)
Thallium (mg/L)	MW-29	0.001	0.000064	0.002	No	16	0.0009415	0.000234	93.75	None	No	0.01	NP (NDs)

Appendix IV Trend Tests - Significant Results

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 4/22/2025, 5:28 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Arsenic (mg/L)	**HGWC-13**	**0.01588**	**131**	**96**	**Yes**	**27**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Molybdenum (mg/L)	**HGWA-43D (bg)**	**-0.0008641**	**-44**	**-37**	**Yes**	**14**	**7.143**	**n/a**	**n/a**	**0.05**	**NP**
Molybdenum (mg/L)	**HGWC-8**	**-0.02526**	**-194**	**-101**	**Yes**	**28**	**0**	**n/a**	**n/a**	**0.05**	**NP**

Appendix IV Trend Tests - All Results

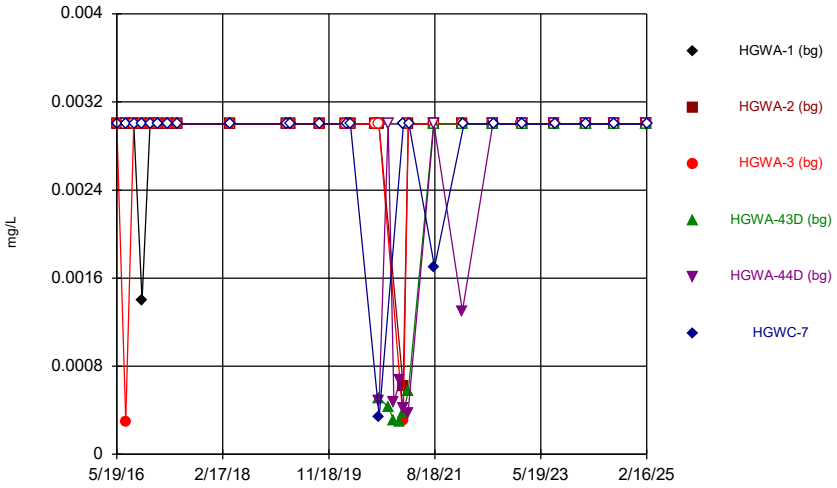
Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 4/22/2025, 5:28 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Arsenic (mg/L)	HGWA-1 (bg)	0	2	101	No	28	89.29	n/a	n/a	0.05	NP
Arsenic (mg/L)	HGWA-2 (bg)	0	77	101	No	28	67.86	n/a	n/a	0.05	NP
Arsenic (mg/L)	HGWA-3 (bg)	0	65	101	No	28	67.86	n/a	n/a	0.05	NP
Arsenic (mg/L)	HGWA-43D (bg)	0	14	37	No	14	50	n/a	n/a	0.05	NP
Arsenic (mg/L)	HGWA-44D (bg)	0	-22	-37	No	14	64.29	n/a	n/a	0.05	NP
Arsenic (mg/L)	**HGWC-13**	**0.01588**	**131**	**96**	**Yes**	**27**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Molybdenum (mg/L)	HGWA-1 (bg)	0	0	106	No	29	100	n/a	n/a	0.05	NP
Molybdenum (mg/L)	HGWA-2 (bg)	0	0	101	No	28	100	n/a	n/a	0.05	NP
Molybdenum (mg/L)	HGWA-3 (bg)	0	0	106	No	29	100	n/a	n/a	0.05	NP
Molybdenum (mg/L)	**HGWA-43D (bg)**	**-0.0008641**	**-44**	**-37**	**Yes**	**14**	**7.143**	**n/a**	**n/a**	**0.05**	**NP**
Molybdenum (mg/L)	HGWA-44D (bg)	0	-1	-37	No	14	7.143	n/a	n/a	0.05	NP
Molybdenum (mg/L)	**HGWC-8**	**-0.02526**	**-194**	**-101**	**Yes**	**28**	**0**	**n/a**	**n/a**	**0.05**	**NP**

FIGURE A.

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Antimony Analysis Run 4/22/2025 4:44 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

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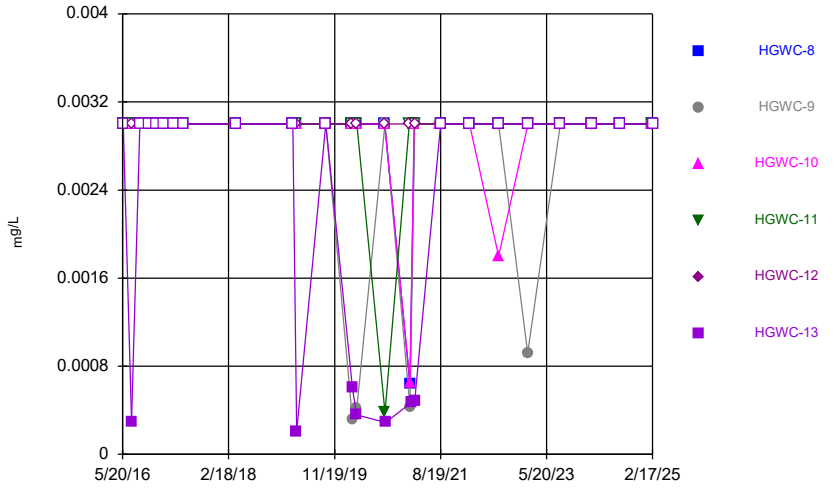

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Plant Hammond Client: Southern Company Data: Hammond AP-1

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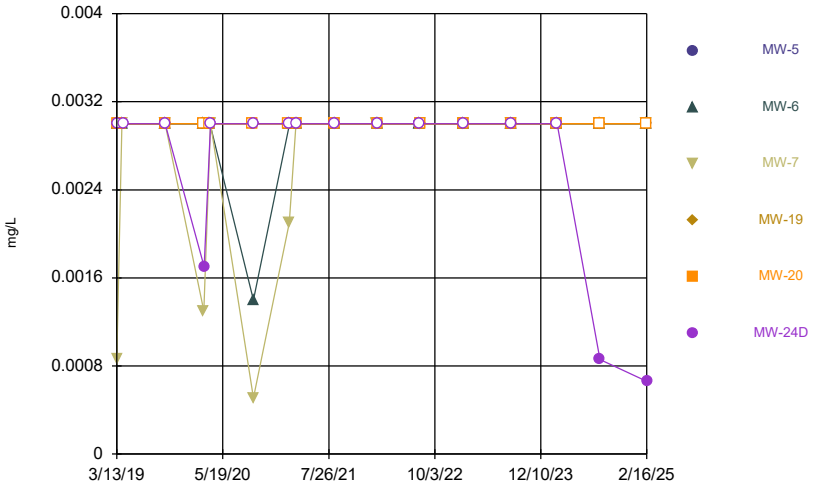

Constituent: Antimony Analysis Run 4/22/2025 4:44 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

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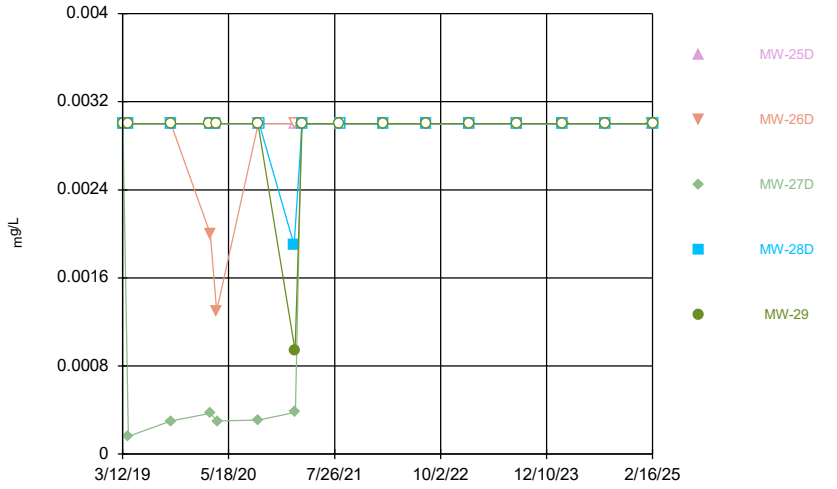
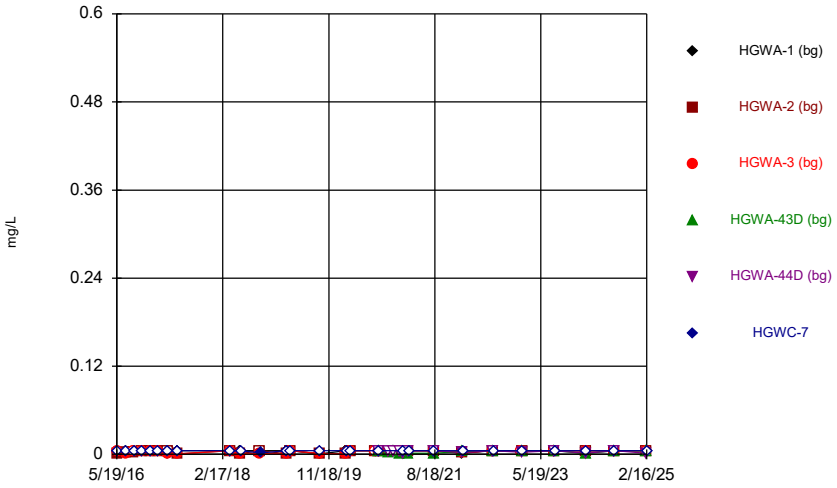


Constituent: Antimony Analysis Run 4/22/2025 4:44 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

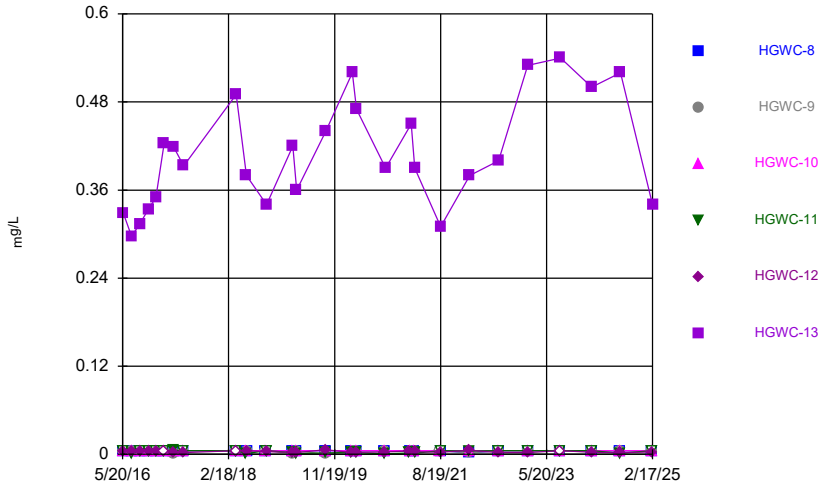
Time Series



Constituent: Arsenic Analysis Run 4/22/2025 4:44 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



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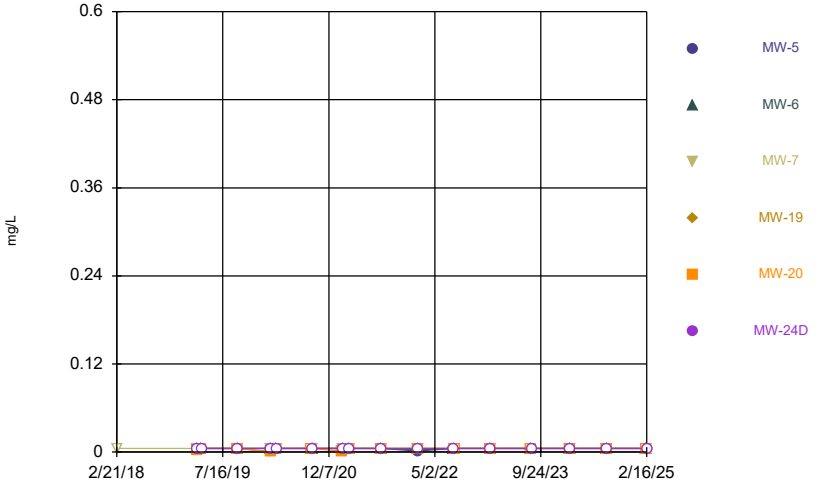
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



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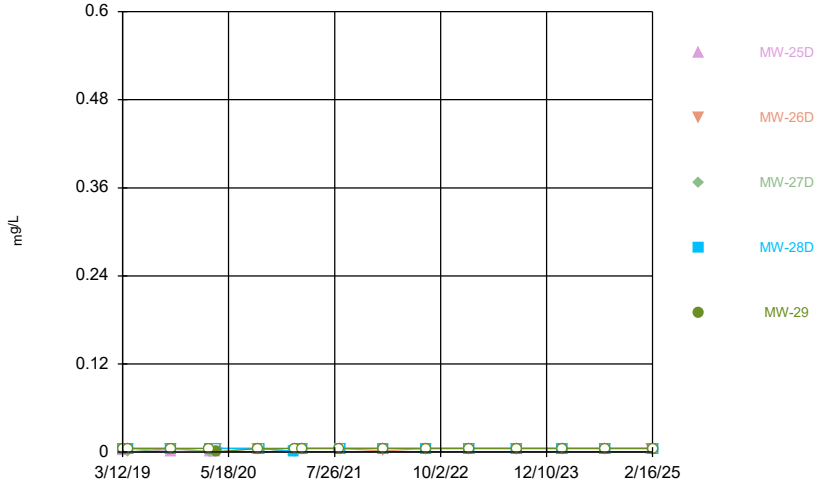

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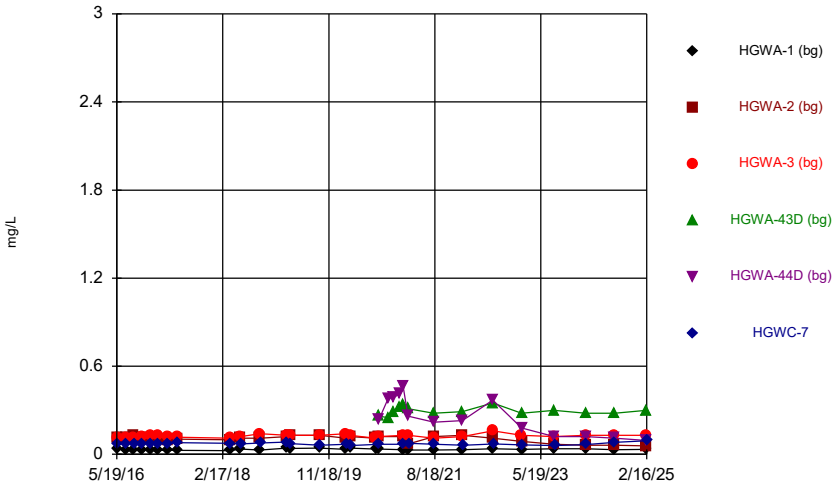
Plant Hammond Client: Southern Company Data: Hammond AP-1

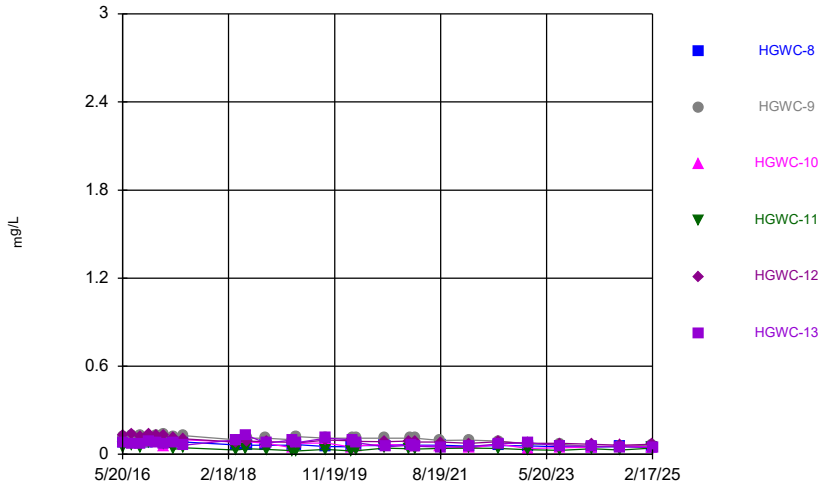
Time Series



Constituent: Barium Analysis Run 4/22/2025 4:44 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

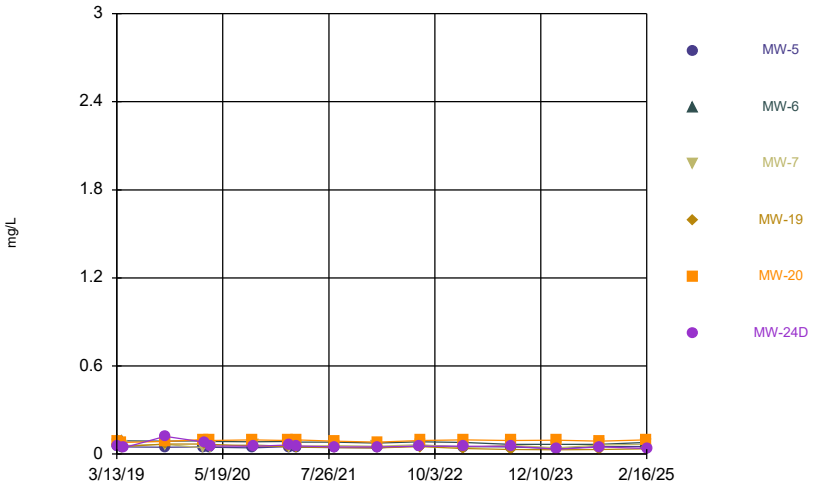
Time Series



Constituent: Barium Analysis Run 4/22/2025 4:44 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

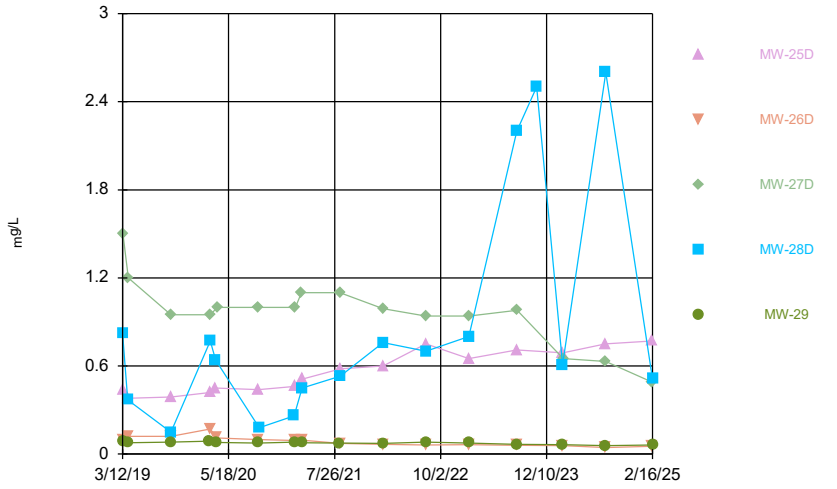
Time Series



Constituent: Barium Analysis Run 4/22/2025 4:44 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

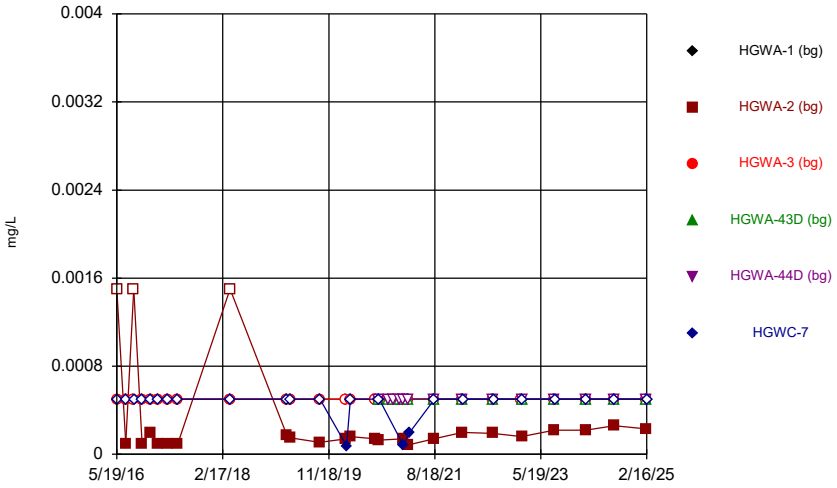
Time Series



Constituent: Barium Analysis Run 4/22/2025 4:44 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

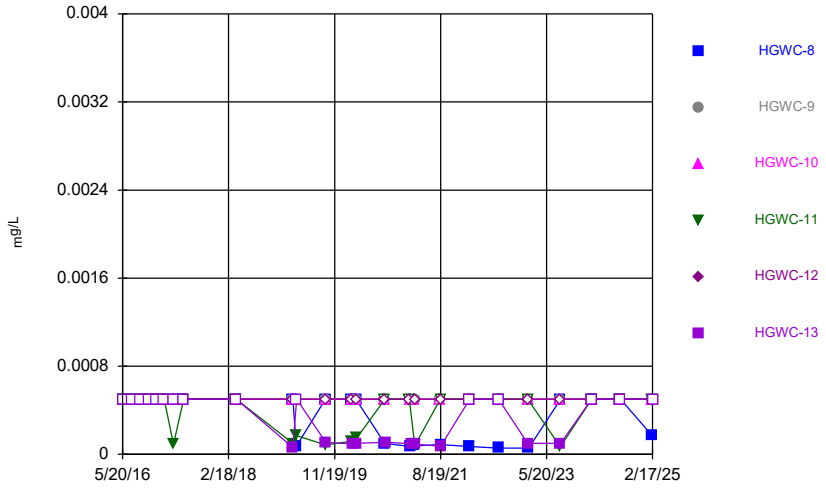
Time Series



Constituent: Beryllium Analysis Run 4/22/2025 4:44 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

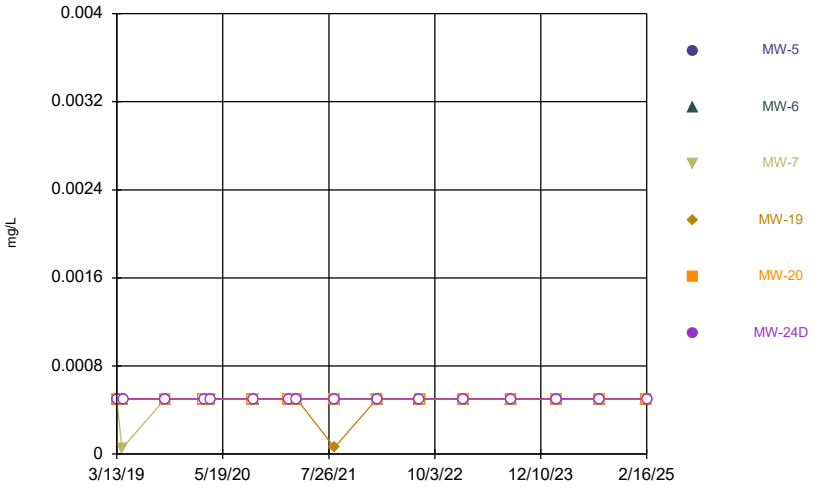
Time Series



Constituent: Beryllium Analysis Run 4/22/2025 4:44 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

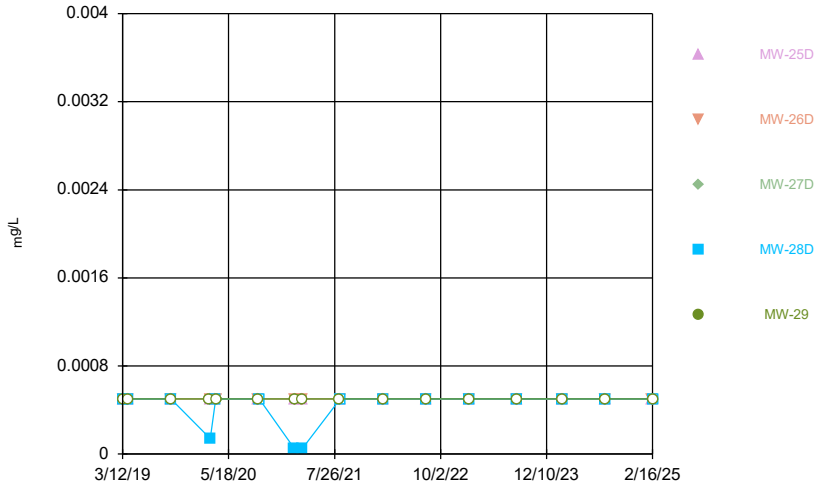
Time Series



Constituent: Beryllium Analysis Run 4/22/2025 4:44 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

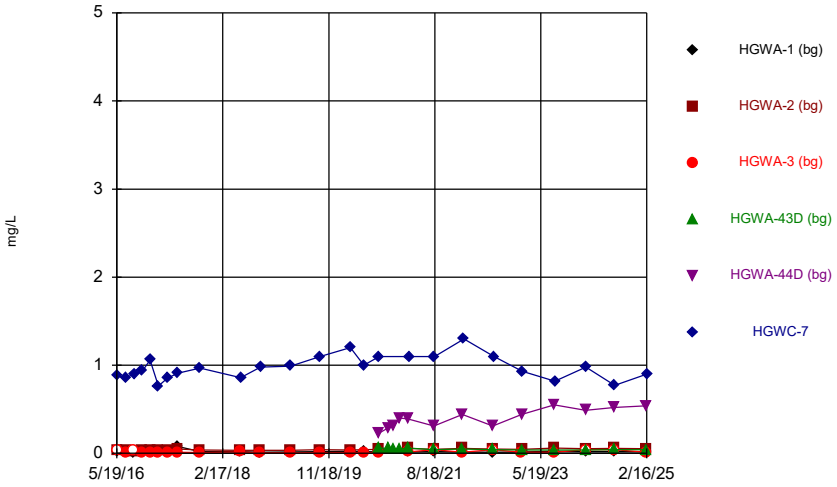
Time Series



Constituent: Beryllium Analysis Run 4/22/2025 4:44 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

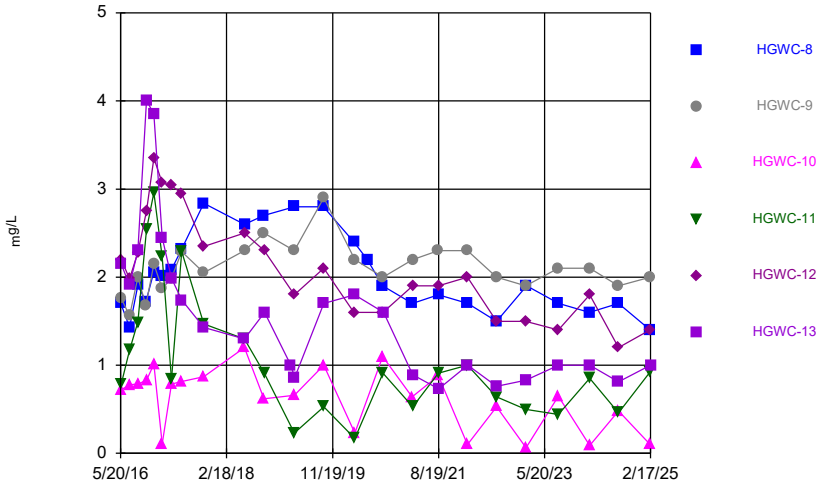
Time Series



Constituent: Boron Analysis Run 4/22/2025 4:44 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

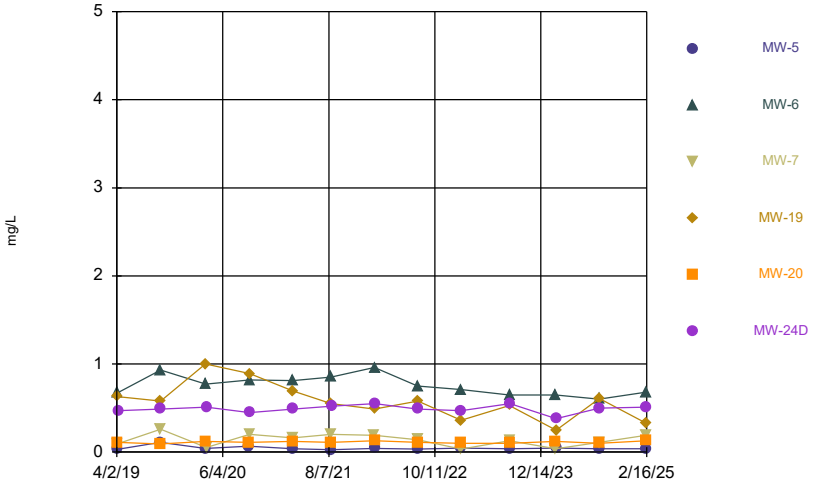
Time Series



Constituent: Boron Analysis Run 4/22/2025 4:44 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

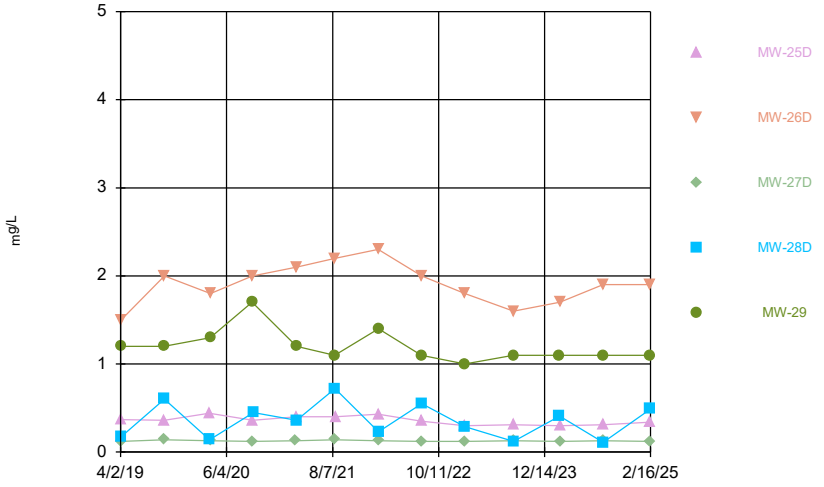
Time Series



Constituent: Boron Analysis Run 4/22/2025 4:44 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

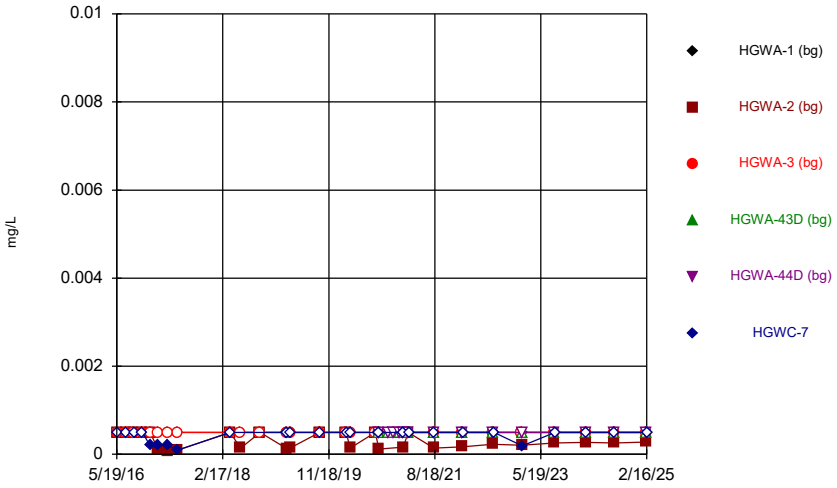
Time Series



Constituent: Boron Analysis Run 4/22/2025 4:44 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

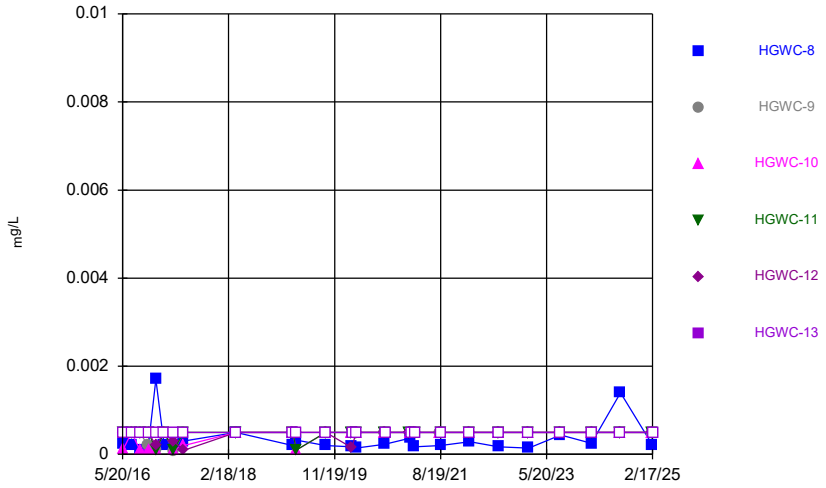
Time Series



Constituent: Cadmium Analysis Run 4/22/2025 4:44 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

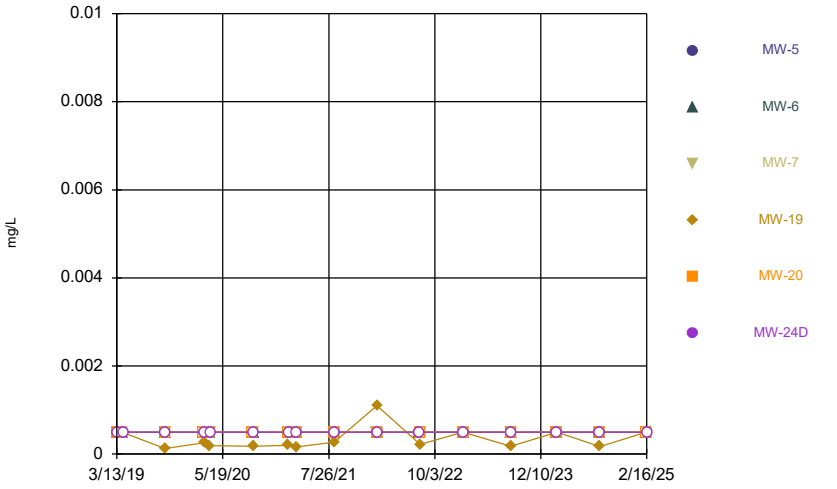
Time Series



Constituent: Cadmium Analysis Run 4/22/2025 4:44 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

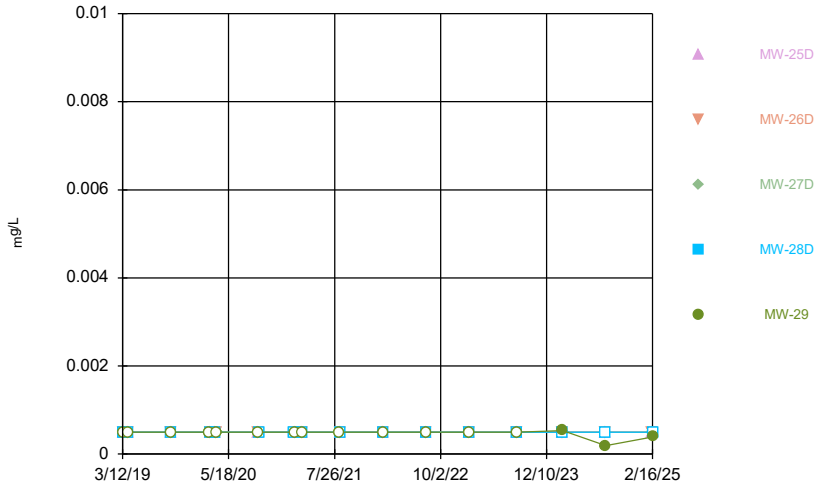
Time Series



Constituent: Cadmium Analysis Run 4/22/2025 4:44 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

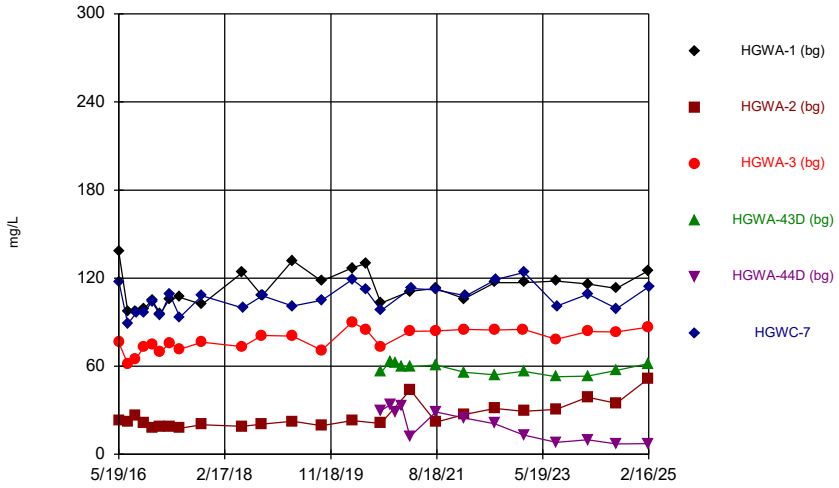
Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Cadmium Analysis Run 4/22/2025 4:44 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

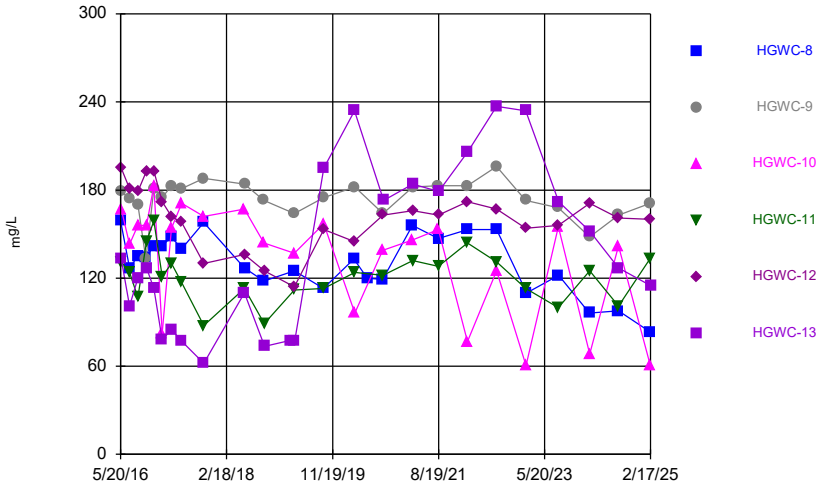
Time Series



Constituent: Calcium Analysis Run 4/22/2025 4:44 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

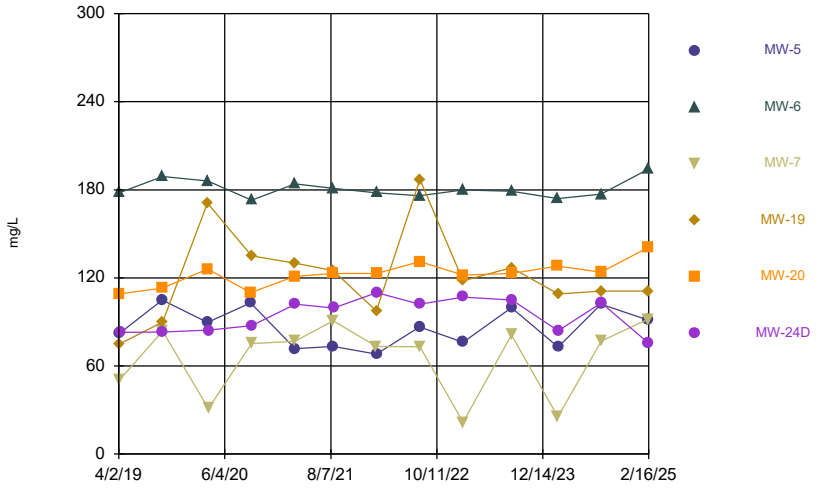
Time Series



Constituent: Calcium Analysis Run 4/22/2025 4:44 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

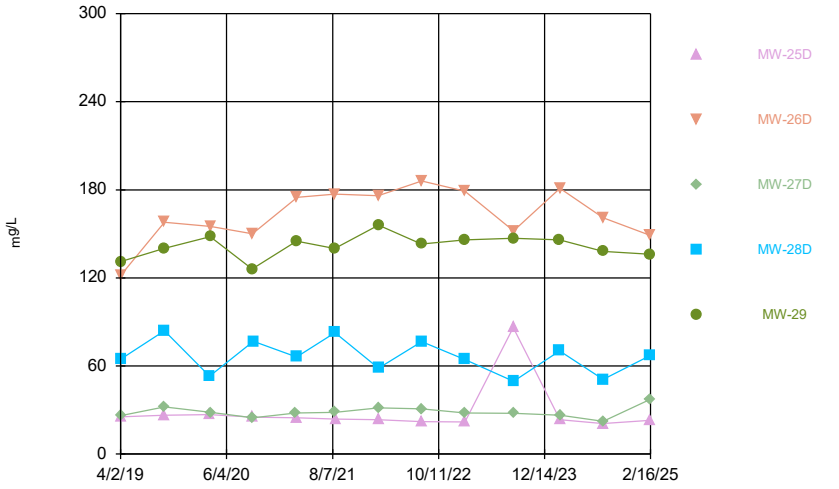
Time Series



Constituent: Calcium Analysis Run 4/22/2025 4:44 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

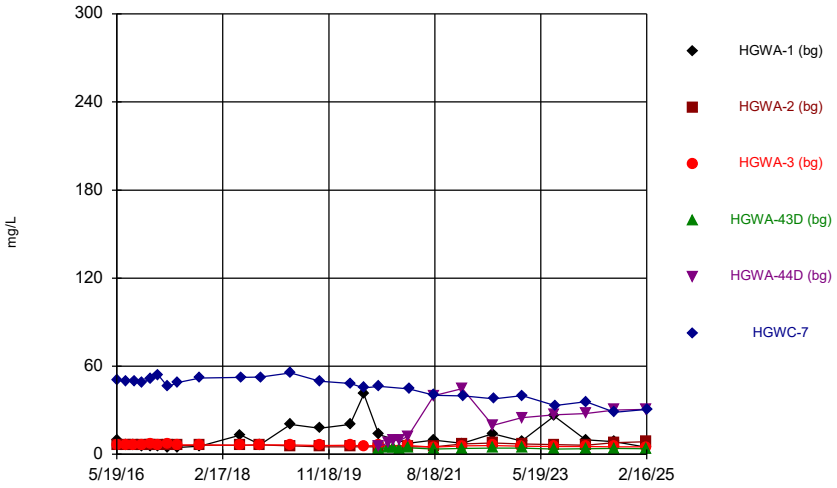
Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

Time Series



Constituent: Calcium Analysis Run 4/22/2025 4:44 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

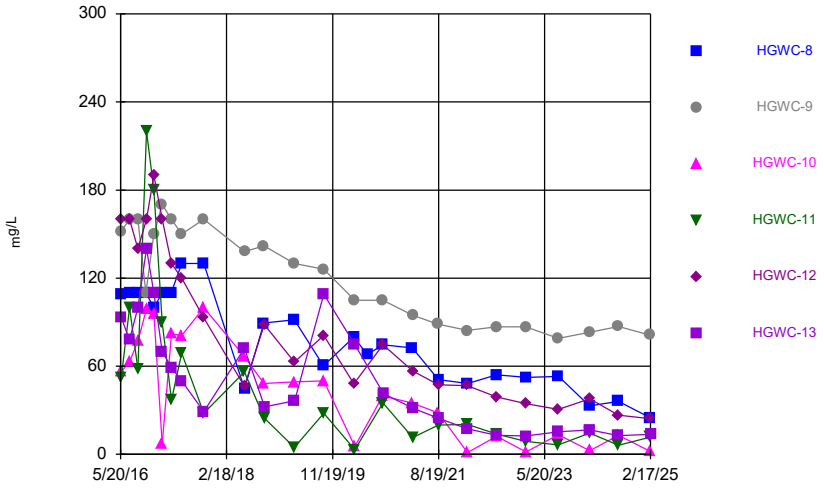
Time Series



Constituent: Chloride Analysis Run 4/22/2025 4:44 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

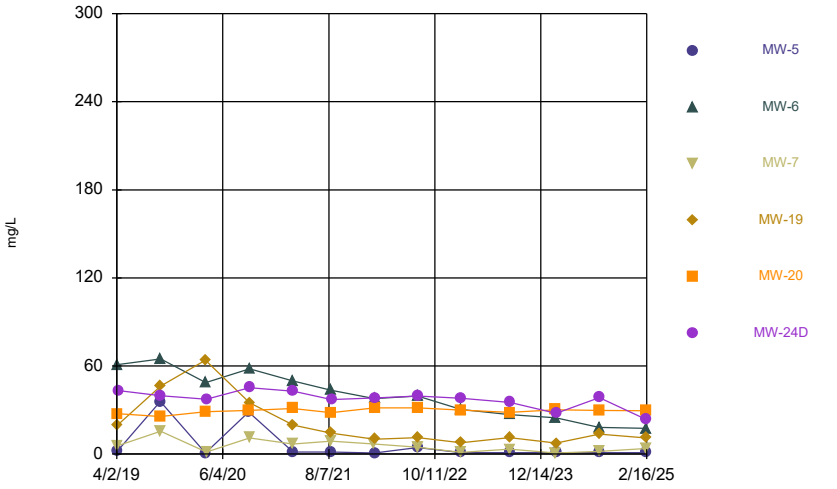
Time Series



Constituent: Chloride Analysis Run 4/22/2025 4:44 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

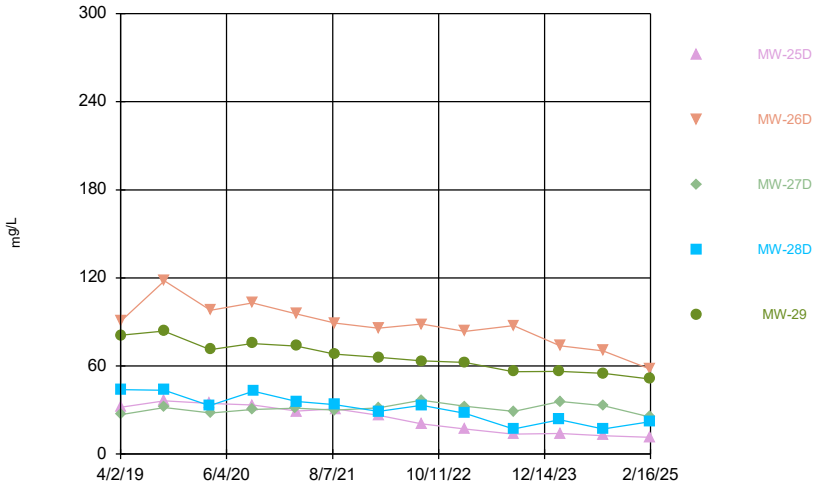
Time Series



Constituent: Chloride Analysis Run 4/22/2025 4:44 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

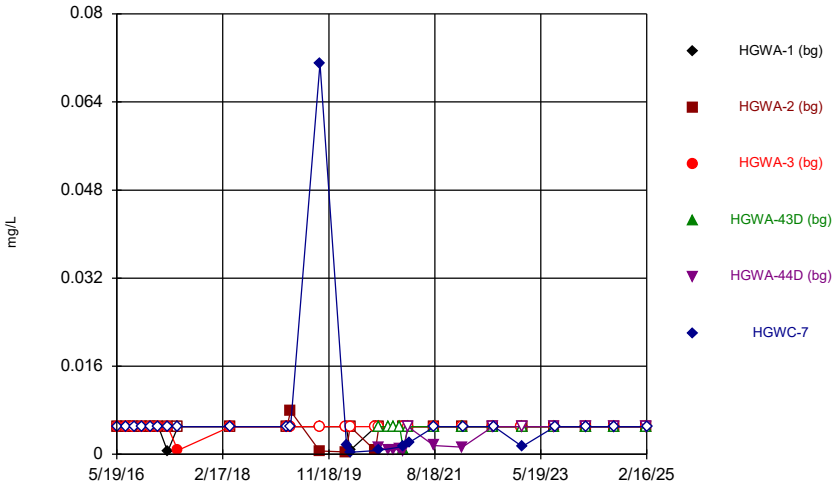
Time Series



Constituent: Chloride Analysis Run 4/22/2025 4:44 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

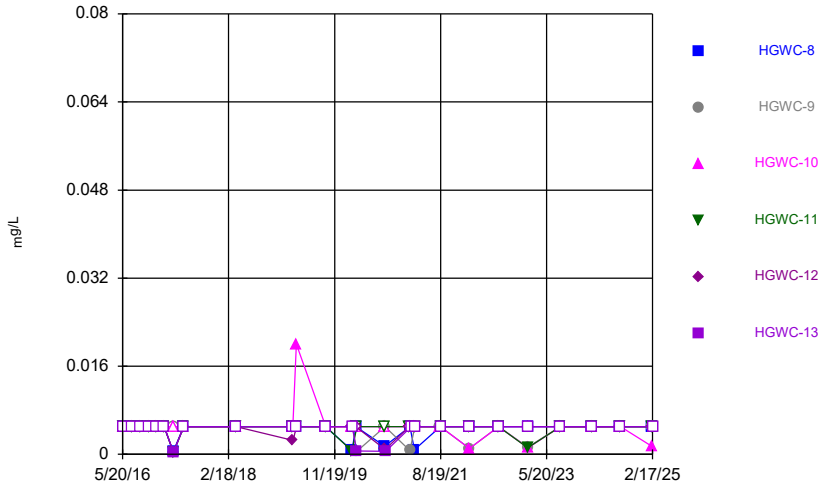
Time Series



Constituent: Chromium Analysis Run 4/22/2025 4:44 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

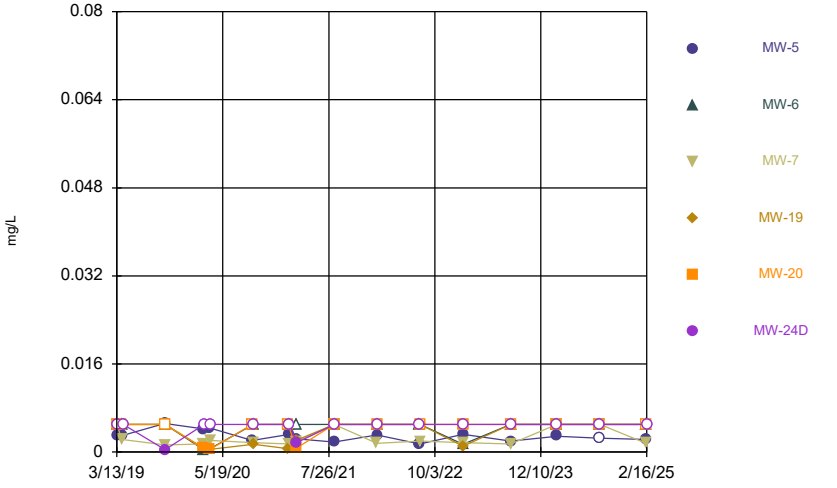
Time Series



Constituent: Chromium Analysis Run 4/22/2025 4:44 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

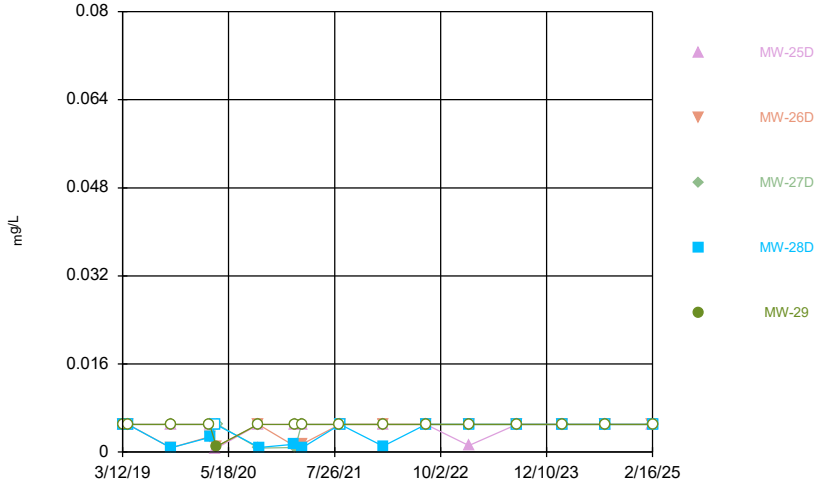
Time Series



Constituent: Chromium Analysis Run 4/22/2025 4:44 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

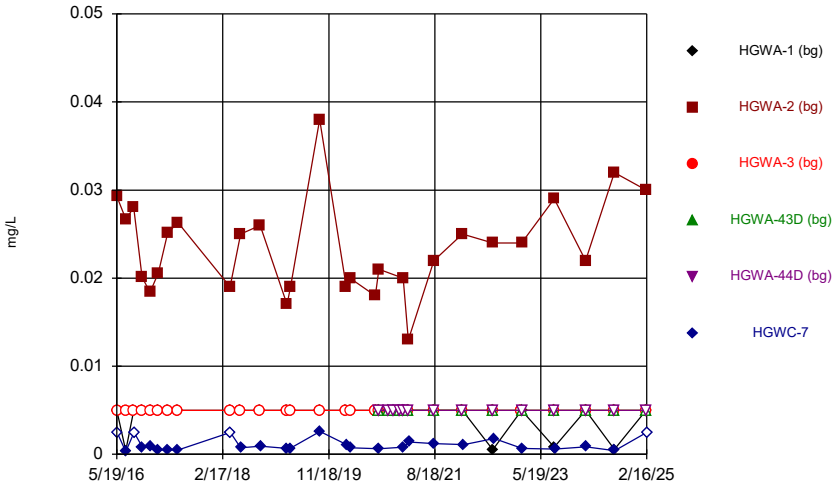
Time Series



Constituent: Chromium Analysis Run 4/22/2025 4:45 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

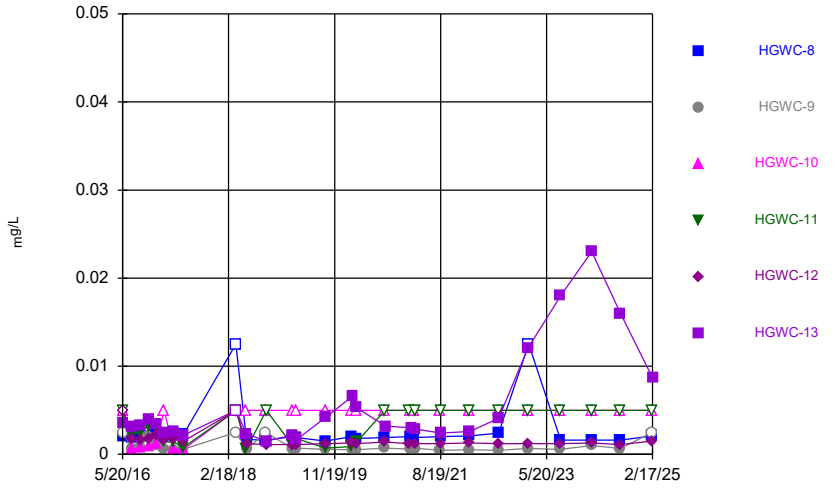
Time Series



Constituent: Cobalt Analysis Run 4/22/2025 4:45 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

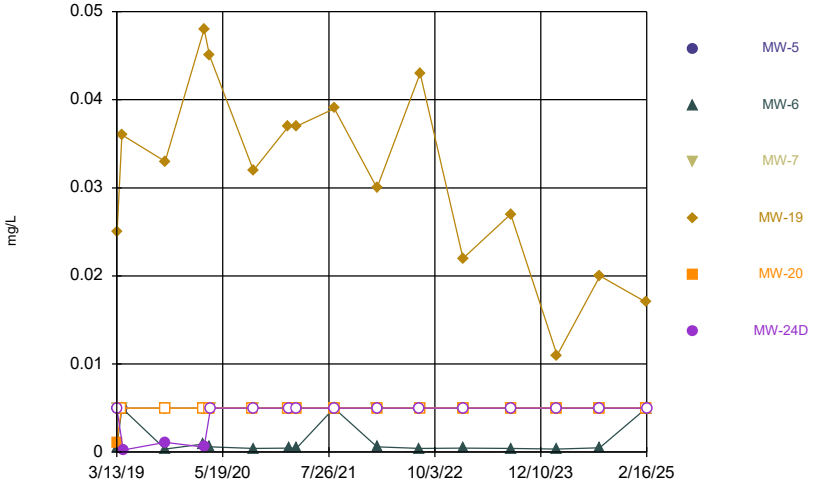
Time Series



Constituent: Cobalt Analysis Run 4/22/2025 4:45 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

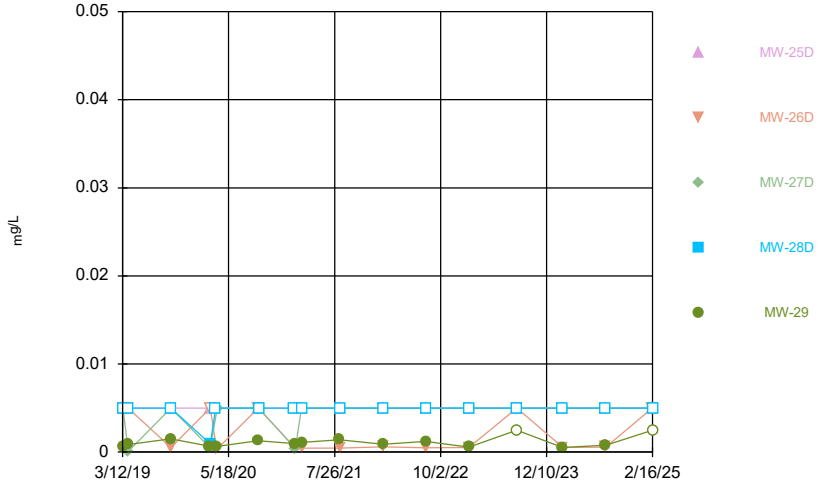
Time Series



Constituent: Cobalt Analysis Run 4/22/2025 4:45 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

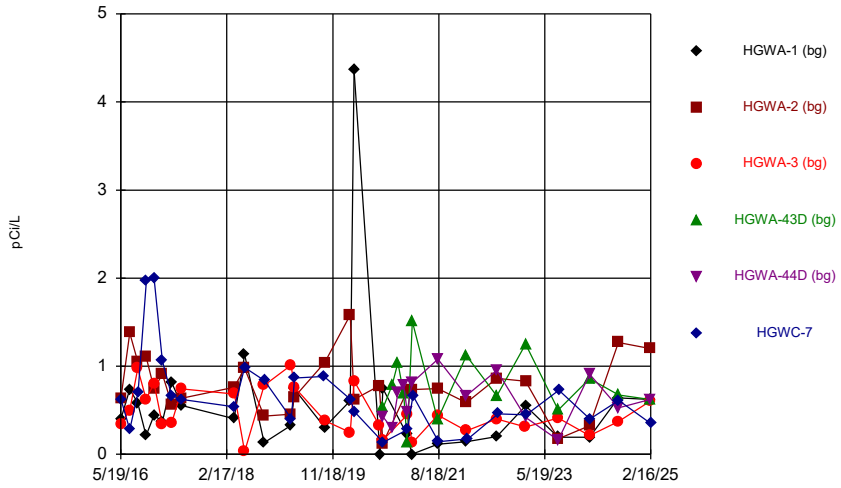
Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Cobalt Analysis Run 4/22/2025 4:45 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

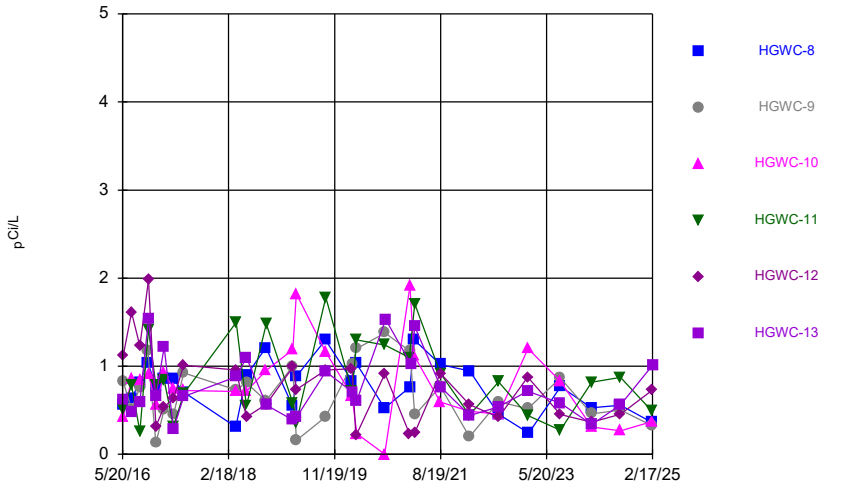
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 4/22/2025 4:45 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

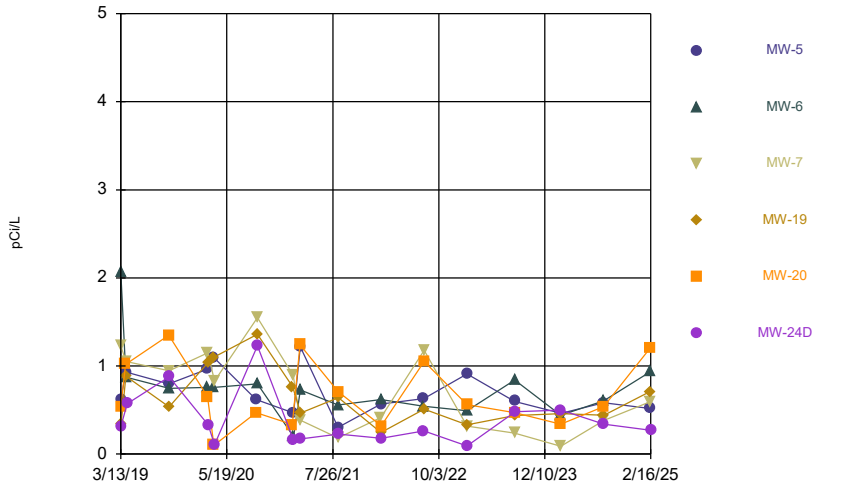
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 4/22/2025 4:45 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

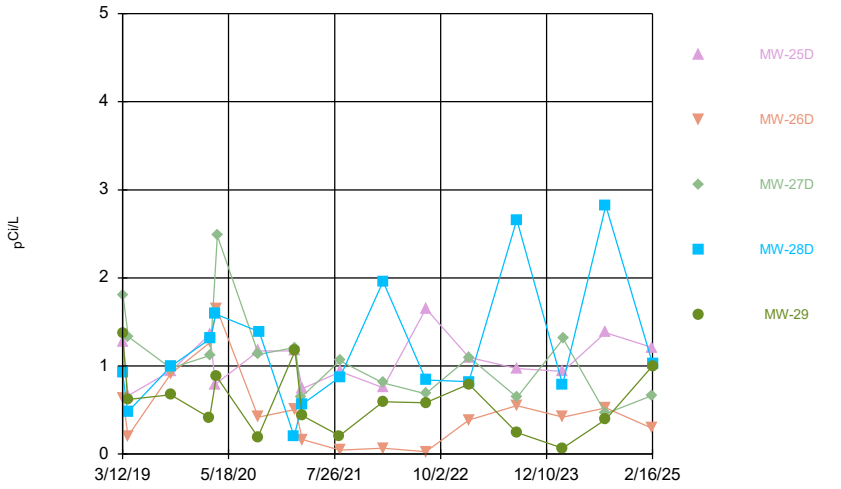
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 4/22/2025 4:45 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

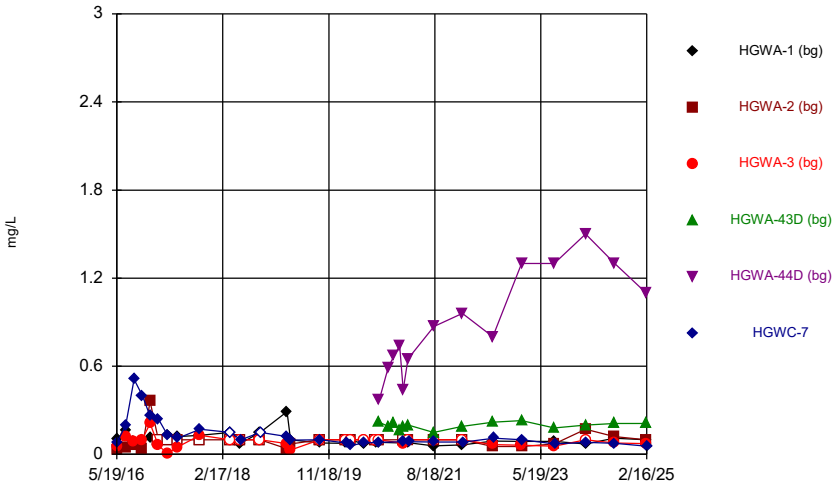
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 4/22/2025 4:45 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

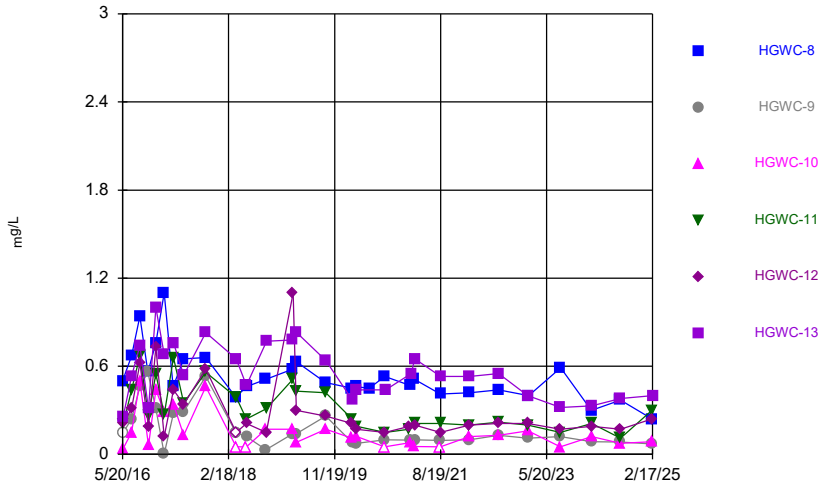
Time Series



Constituent: Fluoride Analysis Run 4/22/2025 4:45 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

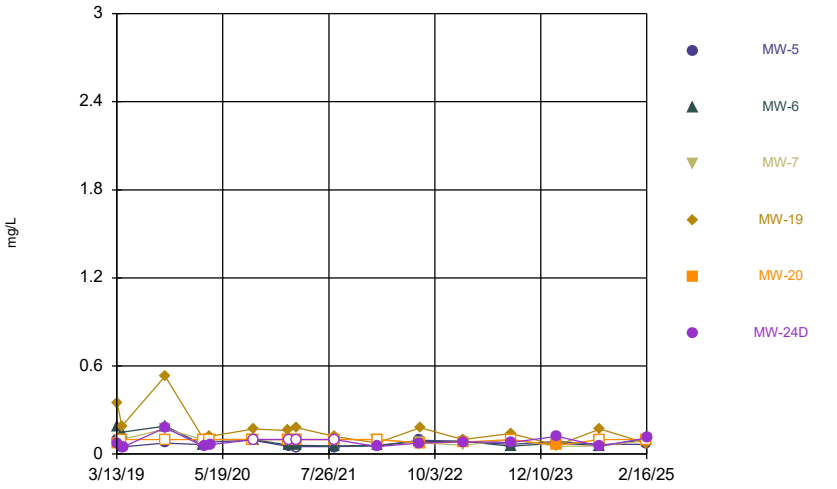
Time Series



Constituent: Fluoride Analysis Run 4/22/2025 4:45 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

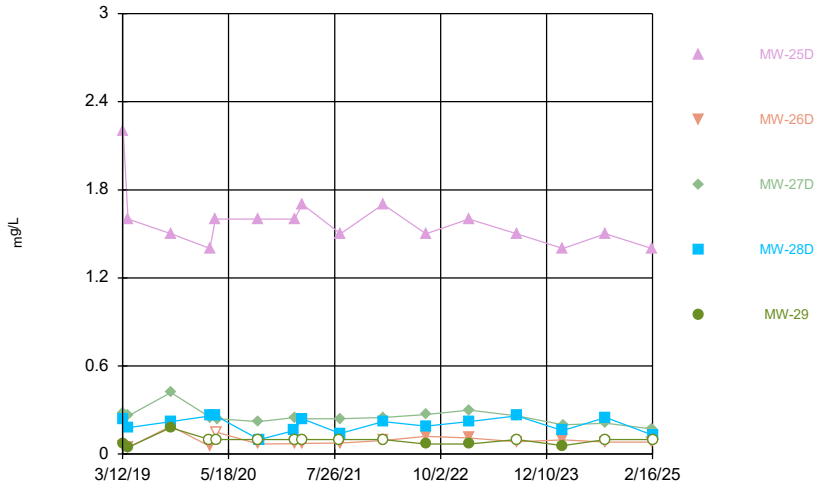
Time Series



Constituent: Fluoride Analysis Run 4/22/2025 4:45 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Fluoride Analysis Run 4/22/2025 4:45 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG
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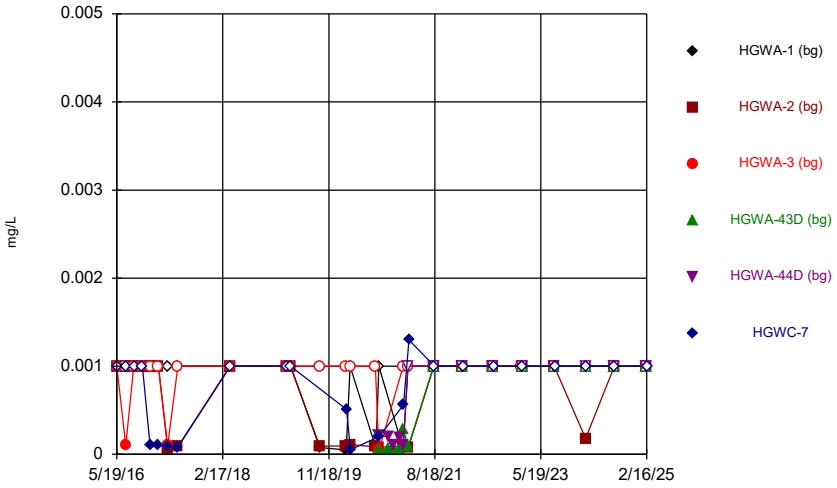
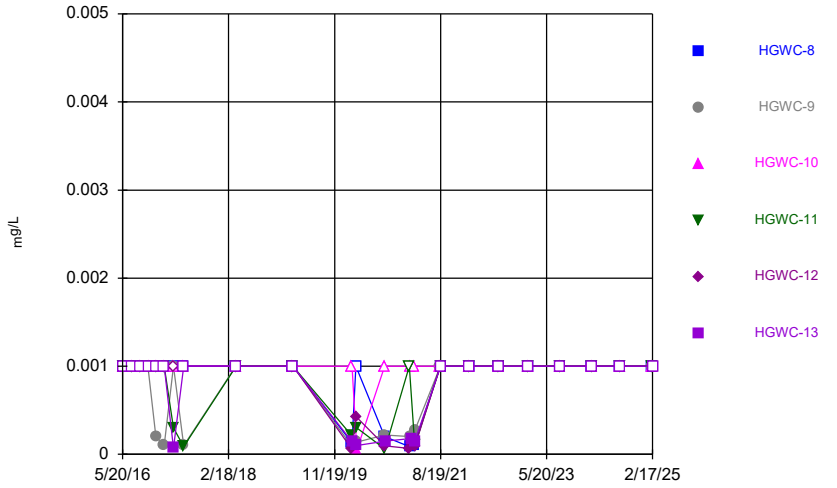
Time Series



Constituent: Lead Analysis Run 4/22/2025 4:45 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Lead Analysis Run 4/22/2025 4:45 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG
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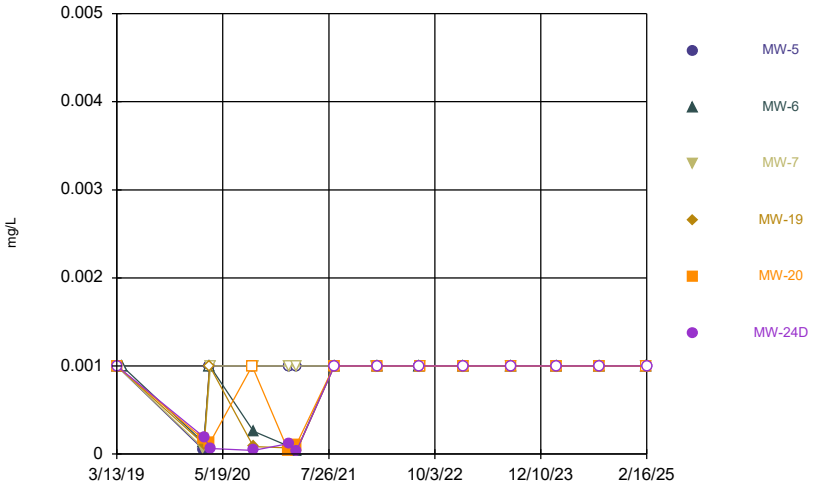
Time Series



Constituent: Lead Analysis Run 4/22/2025 4:45 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG
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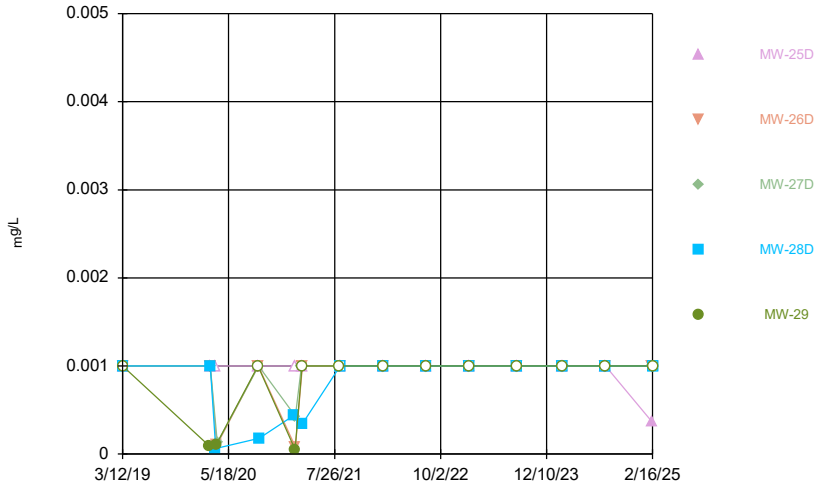
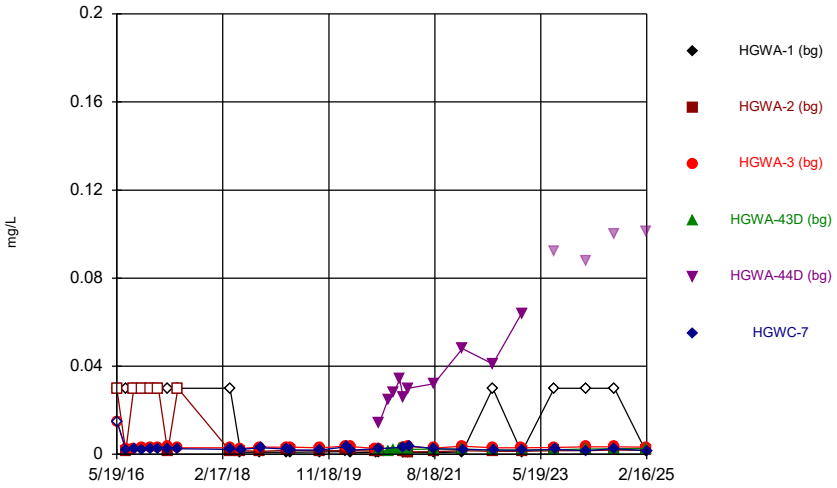
Time Series



Constituent: Lead Analysis Run 4/22/2025 4:45 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

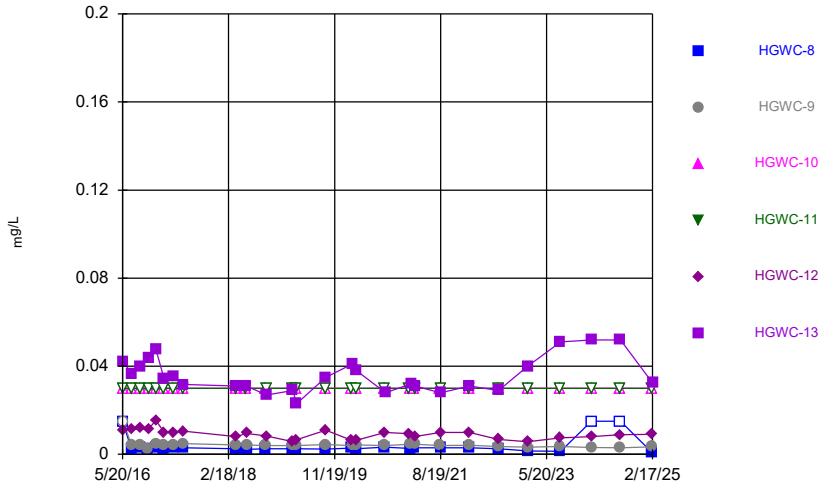
Time Series



Constituent: Lithium Analysis Run 4/22/2025 4:45 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Lithium Analysis Run 4/22/2025 4:45 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG
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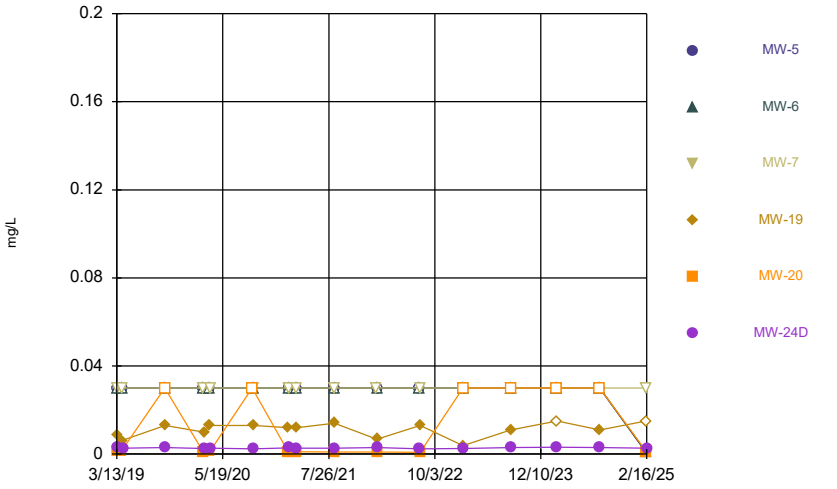
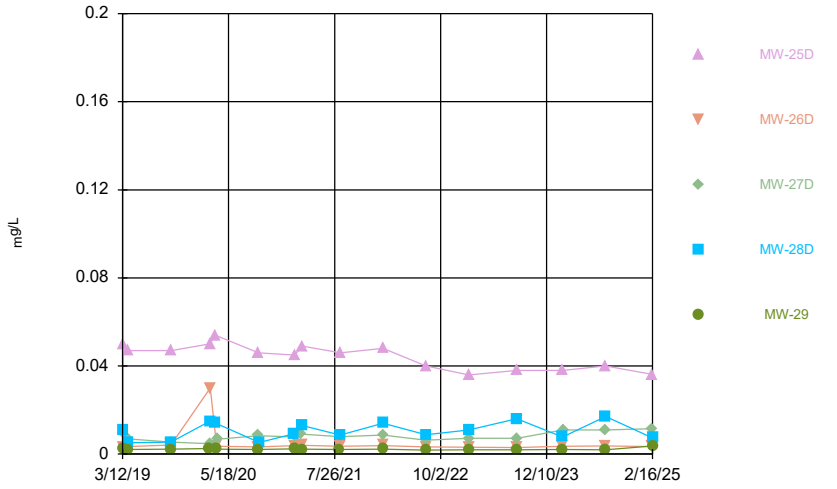
Time Series



Constituent: Lithium Analysis Run 4/22/2025 4:45 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

Time Series



Constituent: Lithium Analysis Run 4/22/2025 4:45 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG
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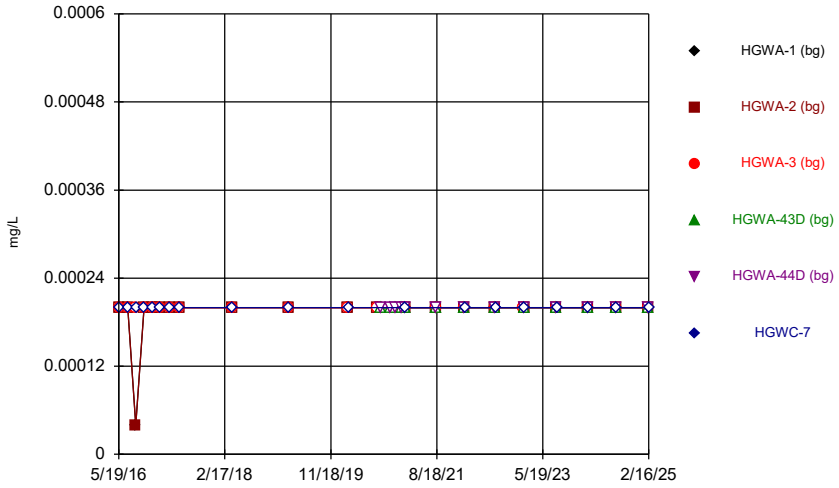
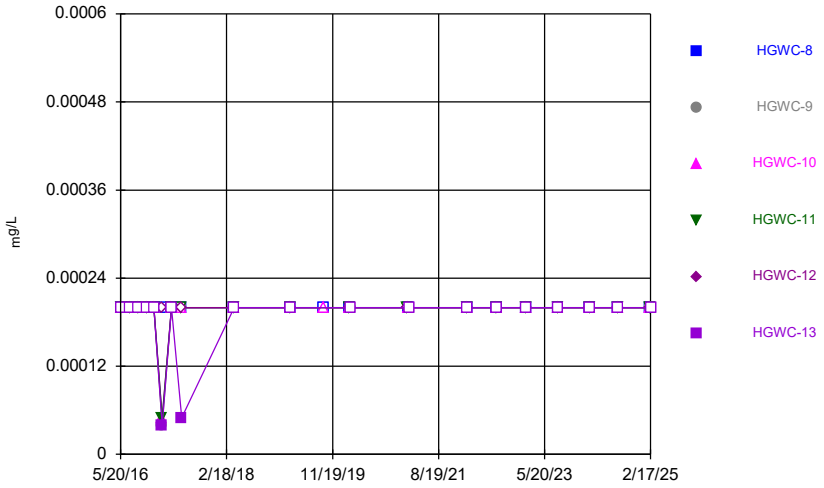
Time Series



Constituent: Mercury Analysis Run 4/22/2025 4:45 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

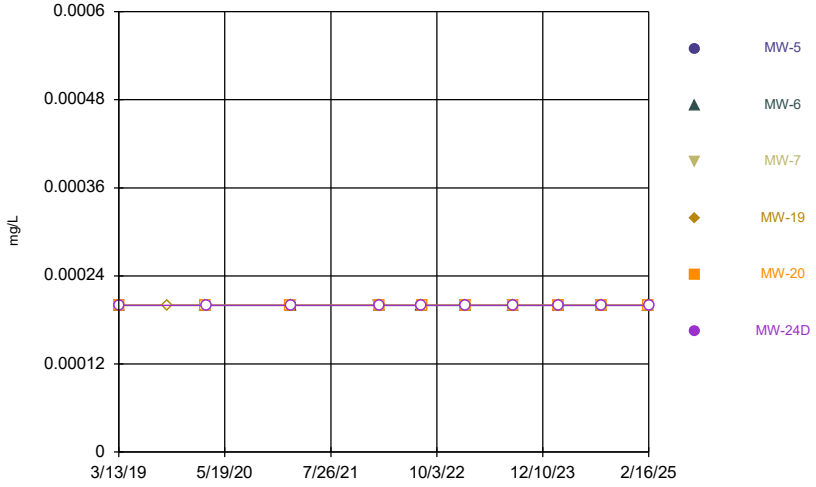
Time Series



Constituent: Mercury Analysis Run 4/22/2025 4:45 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Mercury Analysis Run 4/22/2025 4:45 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG
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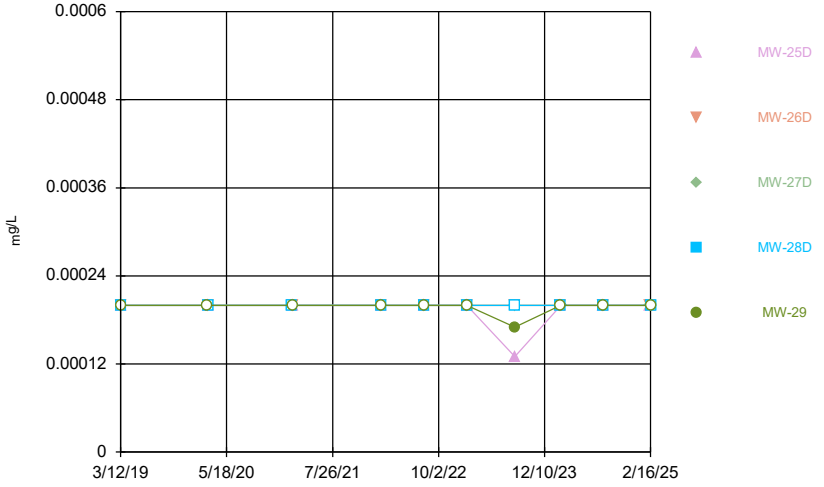
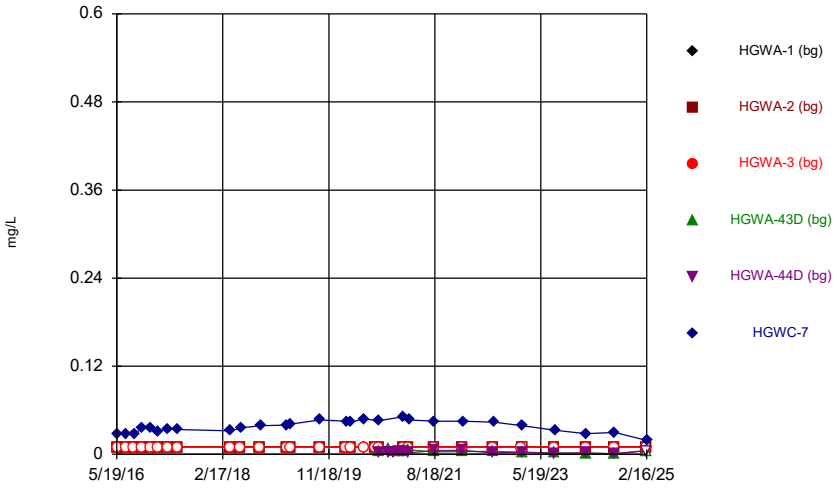
Time Series



Constituent: Mercury Analysis Run 4/22/2025 4:45 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

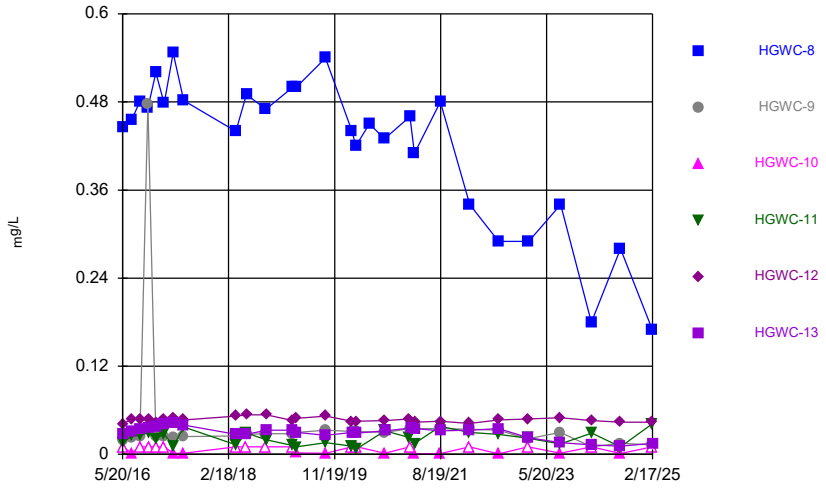
Time Series



Constituent: Molybdenum Analysis Run 4/22/2025 4:45 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

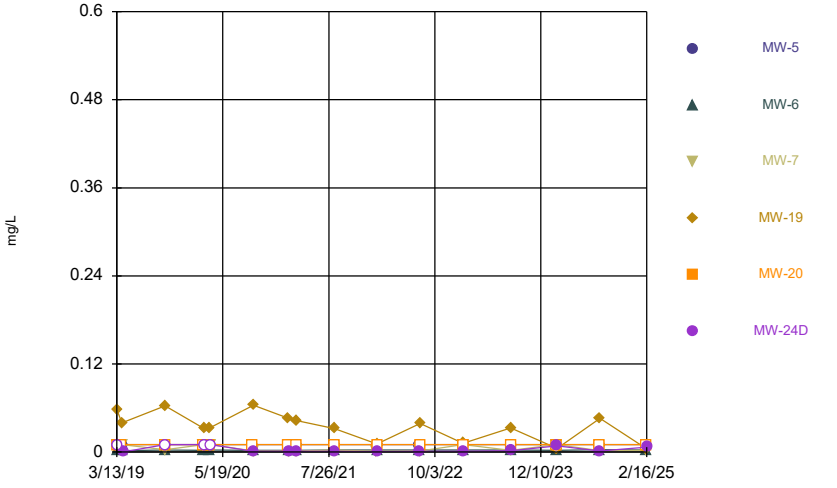
Time Series



Constituent: Molybdenum Analysis Run 4/22/2025 4:45 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Molybdenum Analysis Run 4/22/2025 4:45 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG
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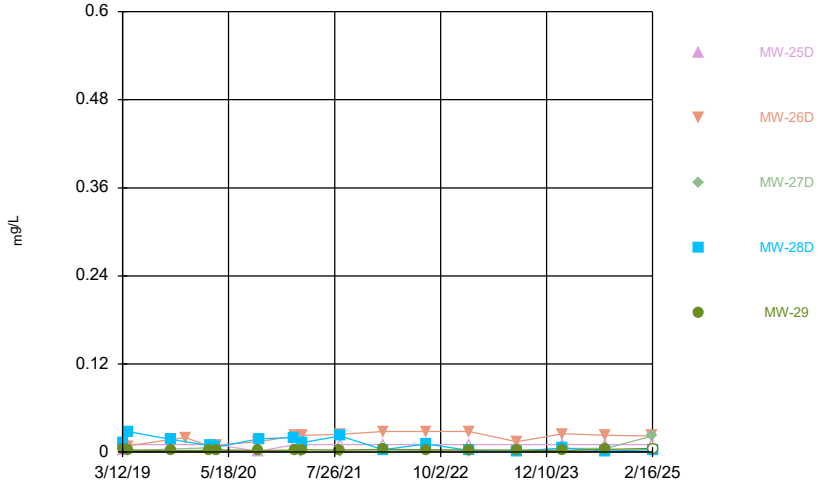
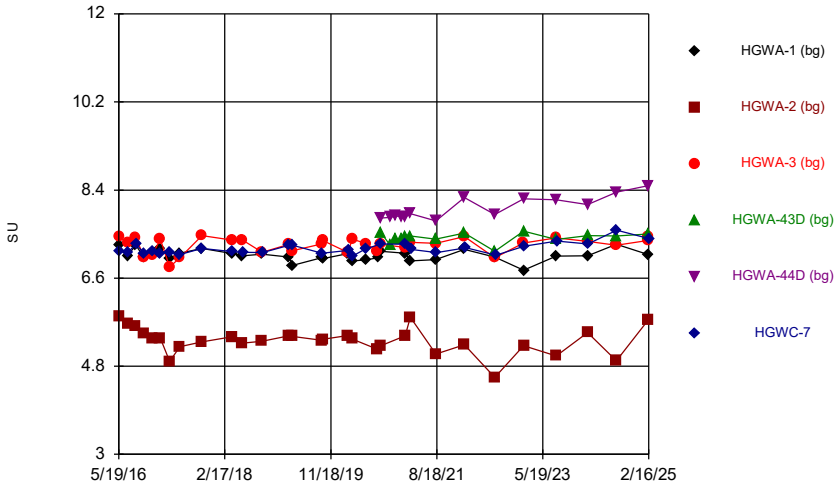
Time Series



Constituent: Molybdenum Analysis Run 4/22/2025 4:45 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

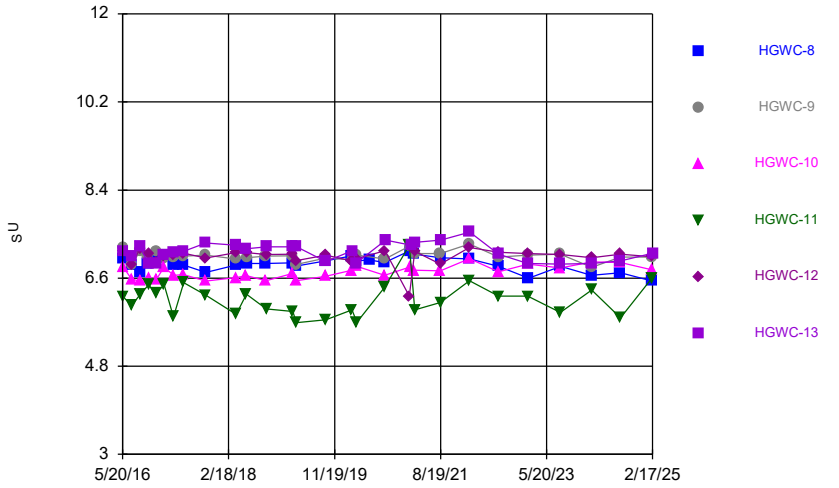
Time Series



Constituent: pH, Field Analysis Run 4/22/2025 4:45 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

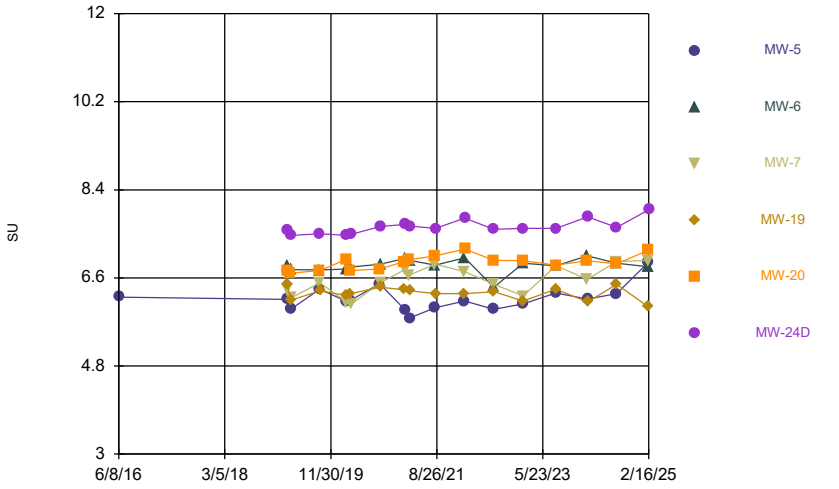
Time Series



Constituent: pH, Field Analysis Run 4/22/2025 4:45 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

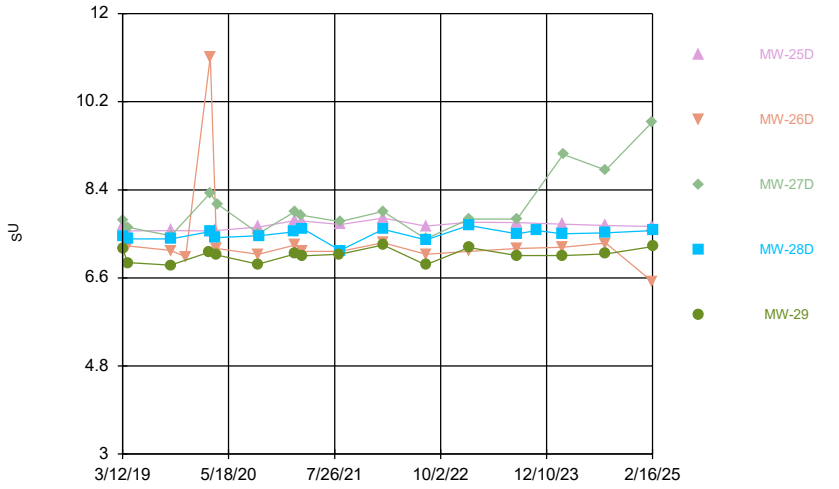
Time Series



Constituent: pH, Field Analysis Run 4/22/2025 4:45 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

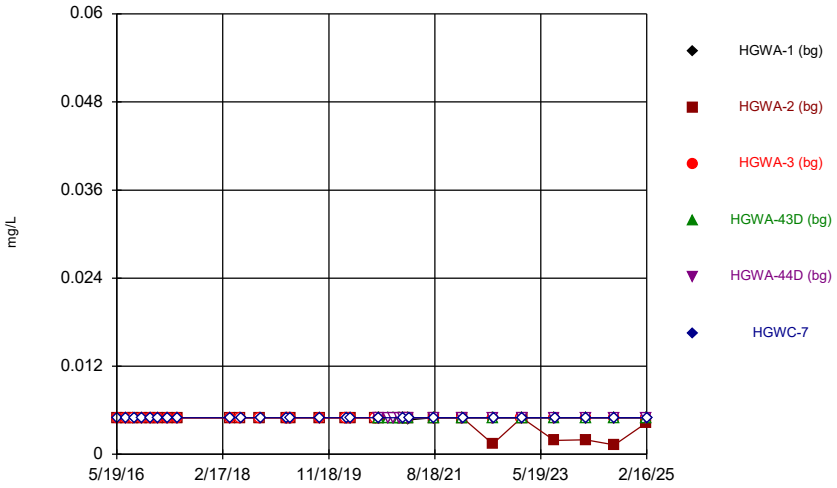
Time Series



Constituent: pH, Field Analysis Run 4/22/2025 4:45 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Selenium Analysis Run 4/22/2025 4:45 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG
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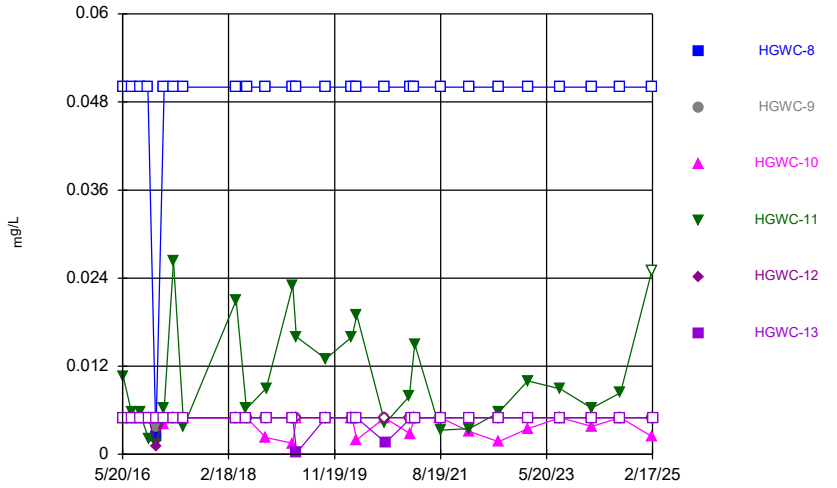
Time Series



Constituent: Selenium Analysis Run 4/22/2025 4:45 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

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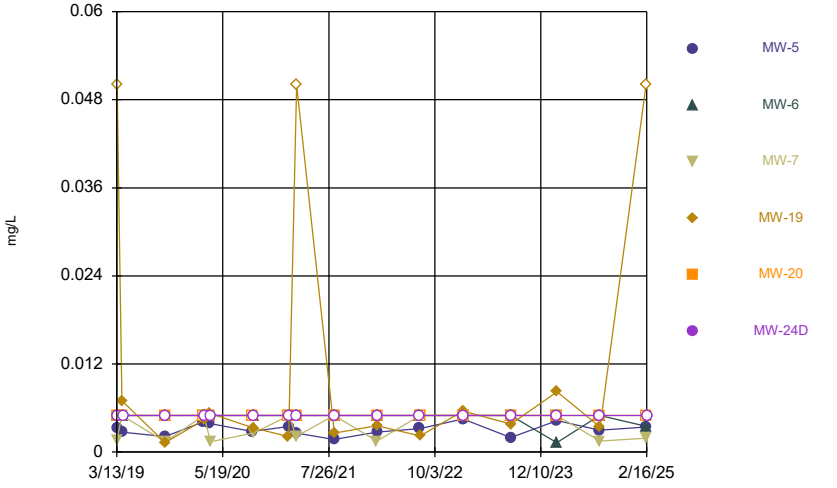
Time Series



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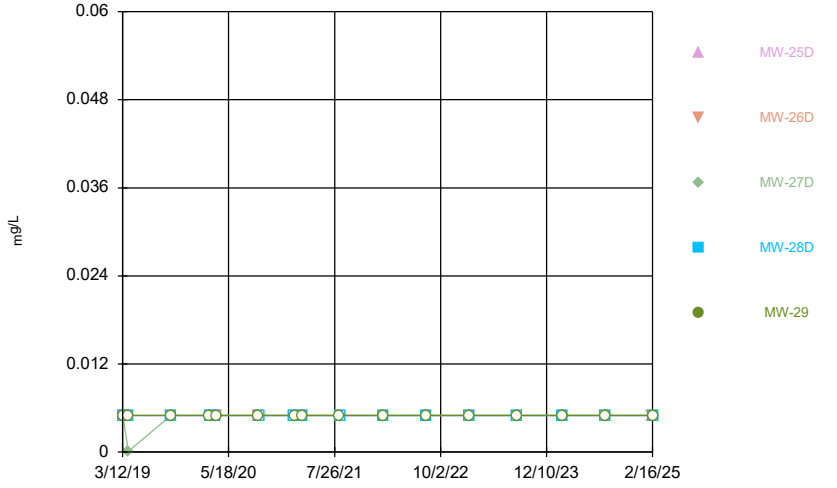
Time Series



Constituent: Selenium Analysis Run 4/22/2025 4:45 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG
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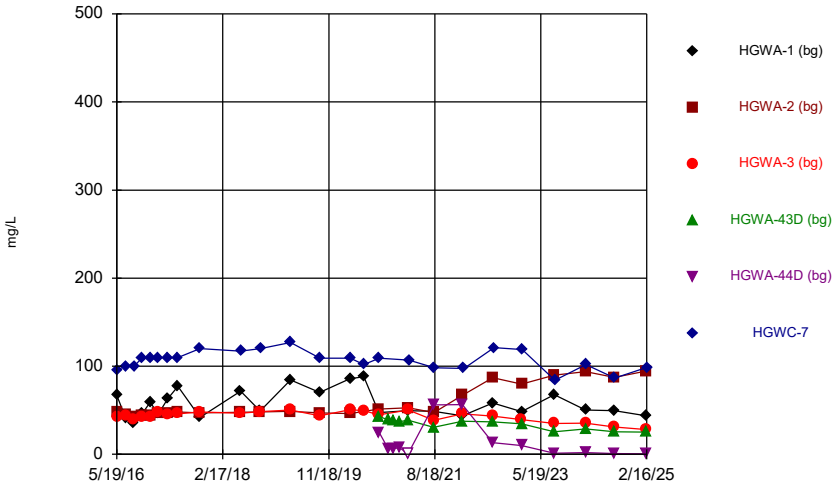
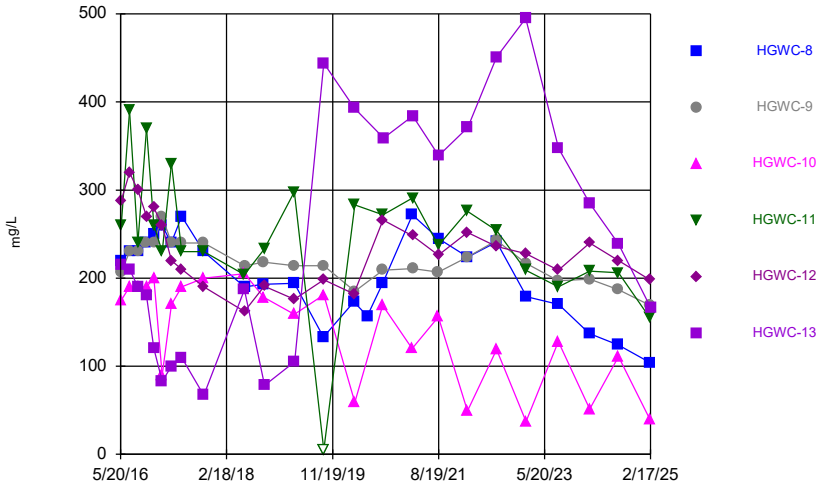
Time Series



Constituent: Sulfate Analysis Run 4/22/2025 4:45 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

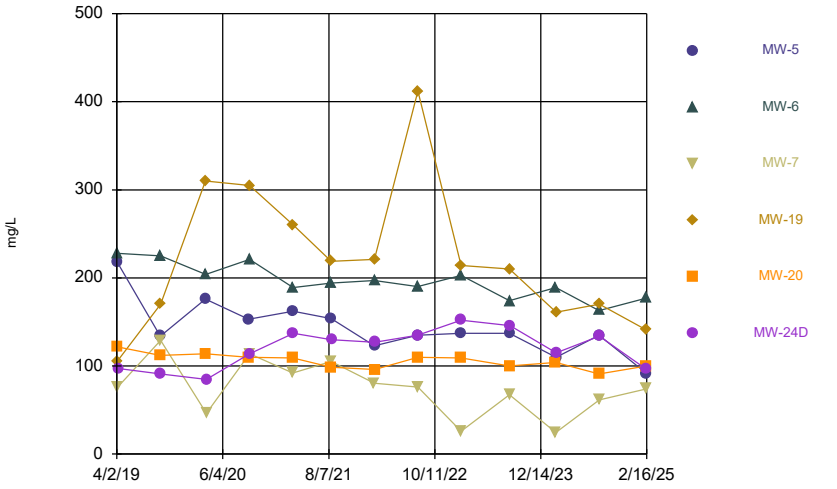
Time Series



Constituent: Sulfate Analysis Run 4/22/2025 4:45 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

Time Series



Constituent: Sulfate Analysis Run 4/22/2025 4:45 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

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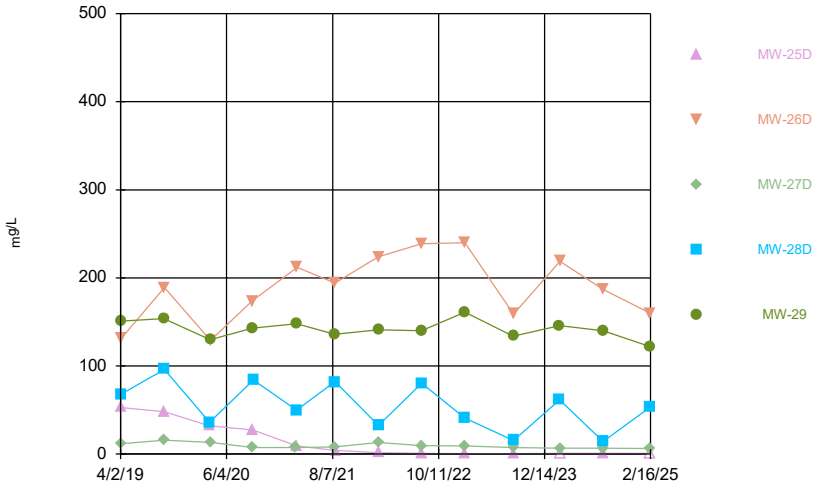
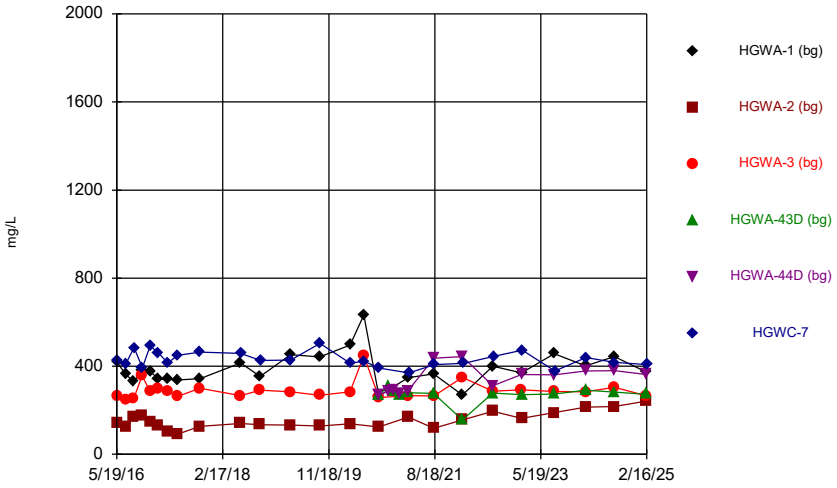
Time Series



Constituent: Sulfate Analysis Run 4/22/2025 4:45 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

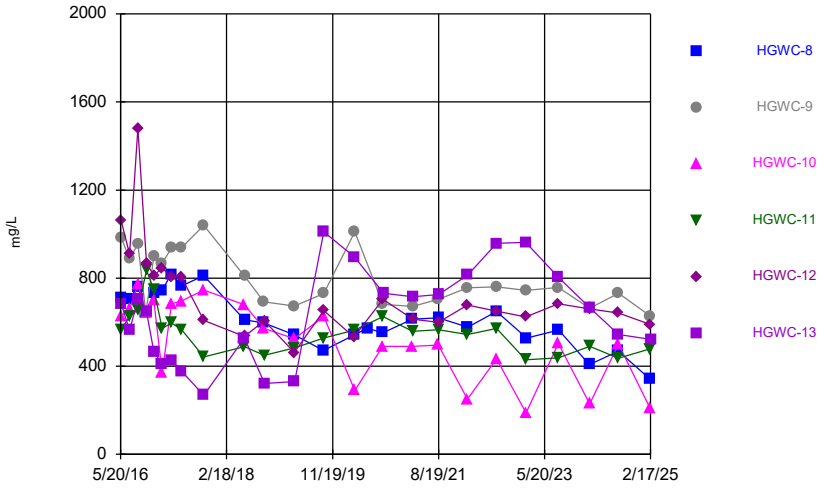
Time Series



Constituent: TDS Analysis Run 4/22/2025 4:45 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

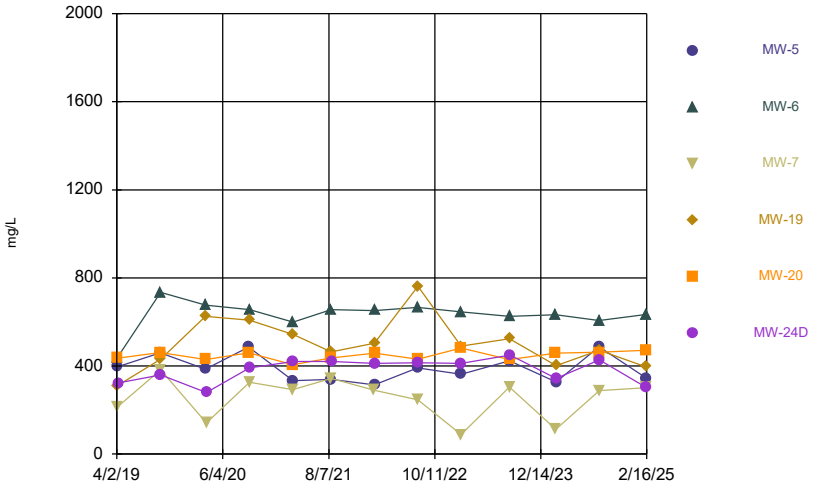
Time Series



Constituent: TDS Analysis Run 4/22/2025 4:45 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

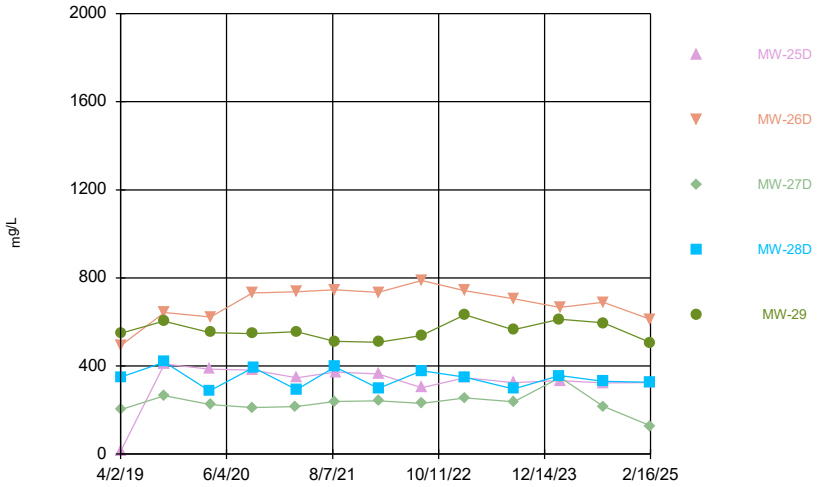
Time Series



Constituent: TDS Analysis Run 4/22/2025 4:45 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

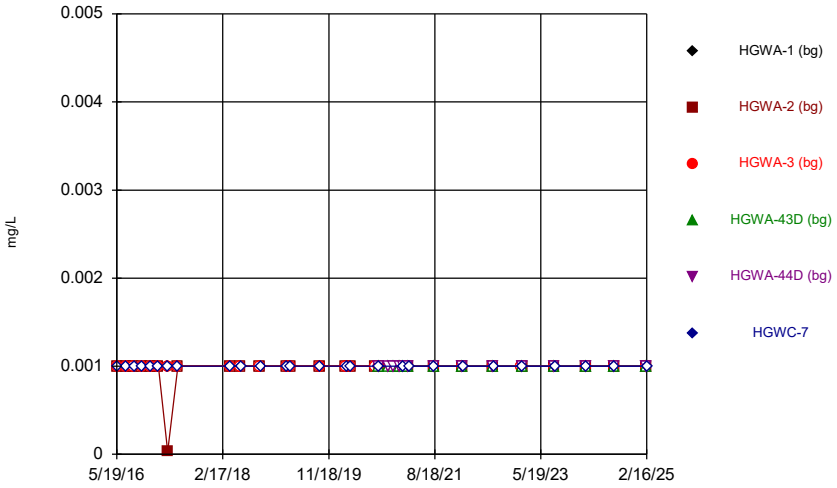
Time Series



Constituent: TDS Analysis Run 4/22/2025 4:45 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Thallium Analysis Run 4/22/2025 4:45 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG
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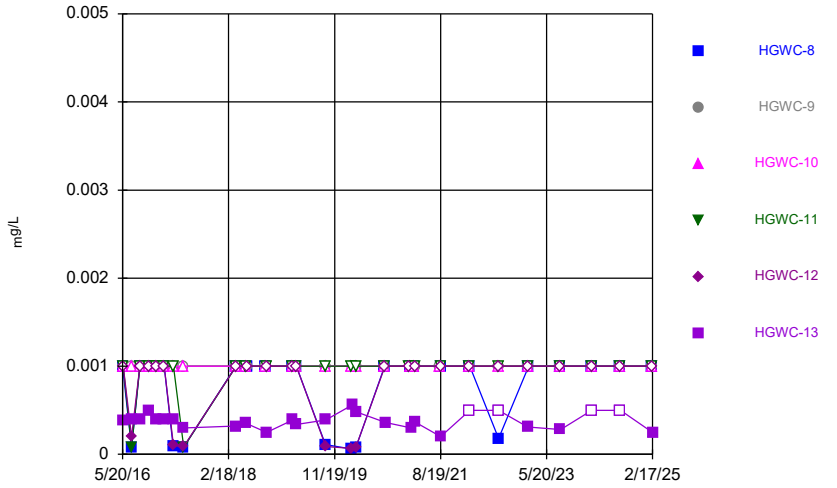
Time Series



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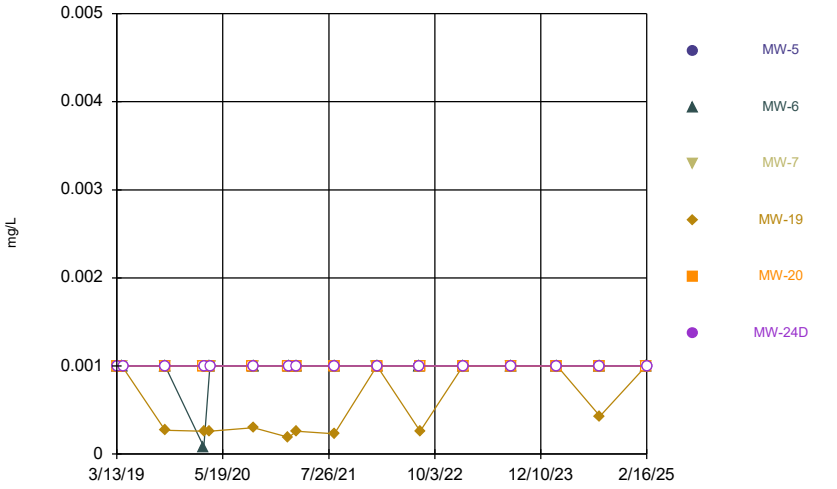
Time Series



Constituent: Thallium Analysis Run 4/22/2025 4:45 PM View: Time Series & Box Plot
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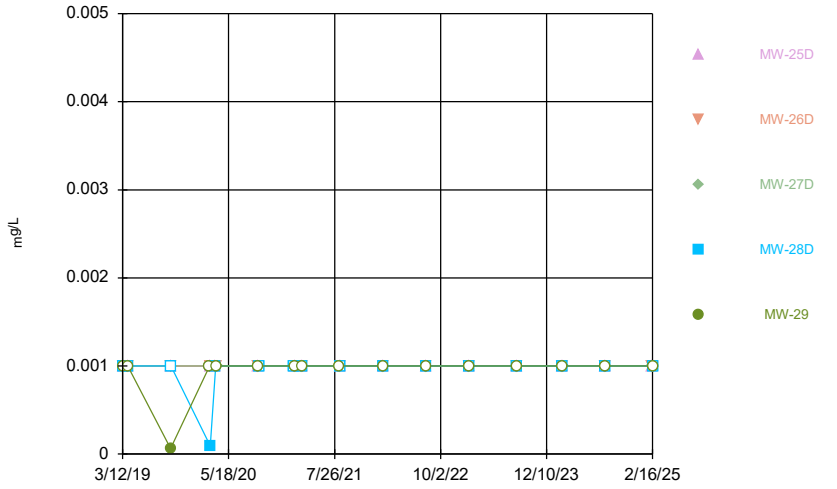
Time Series



Constituent: Thallium Analysis Run 4/22/2025 4:45 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-7
5/19/2016	<0.003	<0.003	<0.003			
5/20/2016						<0.003
7/11/2016	<0.003	<0.003				
7/12/2016			0.0003 (J)			<0.003
8/30/2016	<0.003	<0.003	<0.003			
9/1/2016						<0.003
10/19/2016	0.0014 (J)	<0.003	<0.003			
10/20/2016						<0.003
12/6/2016	<0.003	<0.003	<0.003			<0.003
1/24/2017	<0.003	<0.003	<0.003			
1/25/2017						<0.003
3/21/2017	<0.003	<0.003	<0.003			<0.003
5/22/2017	<0.003	<0.003	<0.003			
5/23/2017						<0.003
4/2/2018	<0.003	<0.003				
4/3/2018			<0.003			<0.003
3/12/2019	<0.003	<0.003	<0.003			
3/13/2019						<0.003
4/1/2019			<0.003			
4/2/2019	<0.003	<0.003				<0.003
9/23/2019	<0.003	<0.003	<0.003			
9/25/2019						<0.003
3/2/2020	<0.003	<0.003	<0.003			
3/4/2020						<0.003
3/25/2020	<0.003	<0.003	<0.003			
3/27/2020						<0.003
8/25/2020		<0.003	<0.003			
8/28/2020	<0.003					
9/15/2020	<0.003	<0.003	<0.003			
9/16/2020				0.00051 (J)	0.00049 (J)	0.00034 (J)
11/10/2020				0.00043 (J)	<0.003	
12/15/2020				0.00031 (J)	0.00047 (J)	
1/19/2021				0.00029 (J)	0.00067 (J)	
2/8/2021	<0.003					
2/9/2021		0.00062 (J)	0.00031 (J)	0.00037 (J)	0.00042 (J)	
2/10/2021						<0.003
3/10/2021	<0.003				0.00037 (J)	
3/11/2021		<0.003	<0.003	0.00057 (J)		
3/15/2021						<0.003
8/11/2021	<0.003			<0.003		
8/12/2021		<0.003	<0.003			
8/13/2021					<0.003	
8/16/2021						0.0017 (J)
2/1/2022	<0.003	<0.003	<0.003	<0.003	0.0013 (J)	
2/10/2022						<0.003
8/2/2022	<0.003	<0.003	<0.003	<0.003	<0.003	
8/11/2022						<0.003
1/23/2023			<0.003			
1/24/2023	<0.003	<0.003		<0.003	<0.003	
1/27/2023						<0.003
8/8/2023	<0.003	<0.003	<0.003	<0.003	<0.003	
8/12/2023						<0.003

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-7
2/13/2024	<0.003	<0.003	<0.003	<0.003	<0.003	
2/14/2024						<0.003
8/5/2024	<0.003	<0.003	<0.003			
8/6/2024				<0.003	<0.003	
8/7/2024						<0.003
2/12/2025	<0.003		<0.003	<0.003	<0.003	
2/14/2025		<0.003				
2/16/2025						<0.003

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-8	HGWC-9	HGWC-10	HGWC-11	HGWC-12	HGWC-13
5/20/2016	<0.003					
5/23/2016		<0.003	<0.003	<0.003	<0.003	<0.003
7/12/2016	<0.003	<0.003	<0.003	<0.003	<0.003	0.0003 (J)
9/1/2016	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
10/20/2016	<0.003	<0.003				
10/24/2016			<0.003	<0.003	<0.003	<0.003
12/6/2016	<0.003	<0.003				
12/7/2016			<0.003	<0.003	<0.003	<0.003
1/25/2017	<0.003					
1/26/2017		<0.003	<0.003	<0.003	<0.003	<0.003
3/21/2017	<0.003					
3/22/2017		<0.003	<0.003	<0.003	<0.003	<0.003
5/23/2017	<0.003	<0.003				
5/24/2017			<0.003	<0.003	<0.003	<0.003
4/3/2018	<0.003	<0.003				
4/4/2018			<0.003	<0.003	<0.003	<0.003
3/12/2019	<0.003					
3/13/2019		<0.003	<0.003	<0.003		<0.003
3/14/2019					<0.003	
4/3/2019	<0.003	<0.003	<0.003	<0.003	<0.003	
4/5/2019						0.00021 (J)
9/24/2019	<0.003					
9/26/2019						<0.003
9/27/2019		<0.003	<0.003	<0.003	<0.003	
3/3/2020	<0.003		<0.003	<0.003	<0.003	
3/4/2020		0.00032 (J)				0.00061 (J)
3/26/2020					<0.003	
3/27/2020	<0.003					
3/30/2020						0.00036 (J)
3/31/2020		0.00042 (J)		<0.003		
4/1/2020			<0.003			
9/16/2020	<0.003		<0.003			
9/17/2020		<0.003				
9/18/2020				0.00038 (J)	<0.003	
9/21/2020						0.00029 (J)
2/12/2021				<0.003	<0.003	
2/15/2021			0.00065 (J)			
2/16/2021	0.00064 (J)	0.00043 (J)				
2/22/2021						0.00047 (J)
3/12/2021			<0.003			
3/15/2021	<0.003					
3/16/2021		<0.003		<0.003	<0.003	
3/17/2021						0.00049 (J)
8/17/2021		<0.003	<0.003			
8/18/2021	<0.003			<0.003	<0.003	
8/19/2021						<0.003
2/9/2022		<0.003	<0.003	<0.003	<0.003	
2/10/2022	<0.003					<0.003
8/3/2022	<0.003		0.0018 (J)	<0.003	<0.003	<0.003
8/4/2022		<0.003				
1/26/2023		0.00092 (J)		<0.003	<0.003	<0.003
1/27/2023			<0.003			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-8	HGWC-9	HGWC-10	HGWC-11	HGWC-12	HGWC-13
2/1/2023	<0.003					
8/10/2023			<0.003	<0.003	<0.003	
8/11/2023		<0.003				
8/12/2023	<0.003					<0.003
2/14/2024	<0.003					
2/15/2024		<0.003	<0.003	<0.003	<0.003	
2/16/2024						<0.003
8/7/2024	<0.003	<0.003	<0.003	<0.003	<0.003	
8/8/2024						<0.003
2/13/2025				<0.003	<0.003	
2/14/2025			<0.003			
2/15/2025	<0.003	<0.003				
2/17/2025						<0.003

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-5	MW-6	MW-7	MW-19	MW-20	MW-24D
3/13/2019	<0.003	<0.003	0.00086 (J)		<0.003	<0.003
3/14/2019				<0.003		
4/2/2019					<0.003	
4/3/2019	<0.003	<0.003	<0.003	<0.003		
4/8/2019						<0.003
9/25/2019	<0.003				<0.003	
9/26/2019		<0.003	<0.003			<0.003
9/27/2019				<0.003		
3/2/2020	<0.003				<0.003	
3/3/2020		<0.003	0.0013 (J)			
3/4/2020				<0.003		0.0017 (J)
3/26/2020	<0.003			<0.003		
3/27/2020		<0.003			<0.003	
3/30/2020			<0.003			<0.003
9/17/2020	<0.003				<0.003	
9/21/2020		0.0014 (J)	0.00051 (J)	<0.003		<0.003
2/11/2021					<0.003	
2/12/2021				<0.003		
2/15/2021			0.0021 (J)			
2/16/2021	<0.003	<0.003				<0.003
3/15/2021			<0.003		<0.003	
3/16/2021	<0.003	<0.003				
3/17/2021				<0.003		<0.003
8/17/2021	<0.003	<0.003	<0.003		<0.003	
8/18/2021				<0.003		
8/19/2021						<0.003
2/8/2022			<0.003			
2/9/2022	<0.003	<0.003		<0.003		
2/10/2022					<0.003	<0.003
8/3/2022	<0.003	<0.003				<0.003
8/4/2022			<0.003	<0.003	<0.003	
1/26/2023	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
8/10/2023	<0.003	<0.003	<0.003	<0.003	<0.003	
8/12/2023						<0.003
2/14/2024		<0.003	<0.003		<0.003	
2/15/2024	<0.003			<0.003		<0.003
8/7/2024	<0.003	<0.003			<0.003	
8/8/2024			<0.003	<0.003		0.00086 (J)
2/13/2025			<0.003	<0.003		
2/14/2025	<0.003	<0.003				
2/15/2025					<0.003	
2/16/2025						0.00066 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-25D	MW-26D	MW-27D	MW-28D	MW-29
3/12/2019				<0.003	<0.003
3/13/2019		<0.003	<0.003		
3/14/2019	<0.003				
4/2/2019				<0.003	<0.003
4/3/2019	<0.003	<0.003			
4/4/2019			0.00016 (J)		
9/24/2019					<0.003
9/26/2019		<0.003	0.0003 (J)	<0.003	
9/27/2019	<0.003				
3/2/2020					<0.003
3/3/2020	<0.003				
3/4/2020		0.002 (J)	0.00037 (J)	<0.003	
3/26/2020	<0.003				
3/27/2020				<0.003	
3/30/2020					<0.003
3/31/2020		0.0013 (J)			
4/2/2020			0.0003 (J)		
9/16/2020					<0.003
9/17/2020		<0.003			
9/18/2020	<0.003		0.00031 (J)		
9/21/2020				<0.003	
2/10/2021				0.0019 (J)	
2/12/2021	<0.003				
2/15/2021					0.00094 (J)
2/16/2021		<0.003	0.00038 (J)		
3/12/2021			<0.003		
3/15/2021				<0.003	<0.003
3/16/2021	<0.003				
3/17/2021		<0.003			
8/16/2021					<0.003
8/17/2021		<0.003	<0.003		
8/18/2021				<0.003	
8/19/2021	<0.003				
2/9/2022	<0.003	<0.003			
2/10/2022			<0.003	<0.003	<0.003
8/3/2022			<0.003		<0.003
8/4/2022	<0.003	<0.003		<0.003	
1/26/2023	<0.003	<0.003		<0.003	<0.003
1/27/2023			<0.003		
8/10/2023	<0.003				<0.003
8/11/2023		<0.003		<0.003	
8/12/2023			<0.003		
2/14/2024				<0.003	<0.003
2/15/2024	<0.003	<0.003			
2/16/2024			<0.003		
8/7/2024	<0.003				
8/8/2024		<0.003	<0.003	<0.003	<0.003
2/13/2025	<0.003				
2/14/2025		<0.003			
2/15/2025			<0.003		
2/16/2025				<0.003	<0.003

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-7
5/19/2016	<0.005	0.00127 (J)	<0.005			
5/20/2016						<0.005
7/11/2016	<0.005	0.002 (J)				
7/12/2016			0.0008 (J)			<0.005
8/30/2016	<0.005	0.0017 (J)	<0.005			
9/1/2016						<0.005
10/19/2016	<0.005	<0.005	<0.005			
10/20/2016						<0.005
12/6/2016	<0.005	<0.005	<0.005			<0.005
1/24/2017	<0.005	<0.005	<0.005			
1/25/2017						<0.005
3/21/2017	0.0005 (J)	<0.005	0.0007 (J)			<0.005
5/22/2017	<0.005	0.0006 (J)	0.0006 (J)			
5/23/2017						<0.005
4/2/2018	<0.005	<0.005				
4/3/2018			<0.005			<0.005
6/4/2018	<0.005	0.00088 (J)	0.0008 (J)			
6/5/2018						<0.005
10/1/2018	<0.005	<0.005	0.0011 (J)			
10/2/2018						0.0019 (J)
3/12/2019	<0.005	0.00069 (J)	0.00063 (J)			
3/13/2019						<0.005
4/1/2019			<0.005			
4/2/2019	<0.005	<0.005				<0.005
9/23/2019	0.00046 (J)	0.00067 (J)	0.0011 (J)			
9/25/2019						<0.005
3/2/2020	<0.005	0.00043 (J)	0.0004 (J)			
3/4/2020						<0.005
3/25/2020	<0.005	<0.005	<0.005			
3/27/2020						<0.005
8/25/2020		<0.005	<0.005			
8/28/2020	<0.005					
9/15/2020	<0.005	<0.005	<0.005			
9/16/2020				<0.005	<0.005	<0.005
11/10/2020				0.0021 (J)	<0.005	
12/15/2020				<0.005	<0.005	
1/19/2021				0.0011 (J)	<0.005	
2/8/2021	<0.005					
2/9/2021		<0.005	<0.005	0.0017 (J)	0.00083 (J)	
2/10/2021						<0.005
3/10/2021	<0.005				<0.005	
3/11/2021		<0.005	<0.005	0.0013 (J)		
3/15/2021						<0.005
8/11/2021	<0.005			0.0015 (J)		
8/12/2021		<0.005	<0.005			
8/13/2021					<0.005	
8/16/2021						<0.005
2/1/2022	0.0016 (J)	0.0023 (J)	0.0024 (J)	0.0036 (J)	0.0025 (J)	
2/10/2022						<0.005
8/2/2022	<0.005	<0.005	<0.005	<0.005	<0.005	
8/11/2022						<0.005
1/23/2023			<0.005			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-7
1/24/2023	<0.005	<0.005		<0.005	0.0027 (J)	
1/27/2023						<0.005
8/8/2023	<0.005	<0.005	<0.005	<0.005	<0.005	
8/12/2023						<0.005
2/13/2024	<0.005	<0.005	<0.005	0.00097 (J)	0.0014 (J)	
2/14/2024						<0.005
8/5/2024	<0.005	<0.005	<0.005			
8/6/2024				<0.005	<0.005	
8/7/2024						<0.005
2/12/2025	<0.005		<0.005	<0.005	0.0014 (J)	
2/14/2025		<0.005				
2/16/2025						<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-8	HGWC-9	HGWC-10	HGWC-11	HGWC-12	HGWC-13
5/20/2016	<0.005					
5/23/2016		<0.005	<0.005	<0.005	0.0046 (J)	0.329
7/12/2016	<0.005	<0.005	<0.005	0.0015 (J)	0.005	0.297
9/1/2016	<0.005	<0.005	<0.005	<0.005	0.0043 (J)	0.314
10/20/2016	<0.005	<0.005				
10/24/2016			<0.005	<0.005	0.0049 (J)	0.334
12/6/2016	<0.005	<0.005				
12/7/2016			<0.005	<0.005	0.0046 (J)	0.35
1/25/2017	<0.005					
1/26/2017		<0.005	<0.005	<0.005	<0.01	0.424
3/21/2017	<0.005					
3/22/2017		0.0008 (J)	<0.005	0.0053	0.0019 (J)	0.419
5/23/2017	<0.005	<0.005				
5/24/2017			<0.005	<0.005	0.0022 (J)	0.393
4/3/2018	<0.005	<0.005				
4/4/2018			<0.005	<0.005	<0.01	0.49
6/5/2018			<0.005	0.0012 (J)		0.38
6/6/2018	<0.005	<0.005			0.0048 (J)	
10/2/2018	<0.005	<0.005	<0.005			
10/3/2018				<0.005	0.0037 (J)	
10/5/2018						0.34
3/12/2019	<0.005					
3/13/2019		0.00075 (J)	<0.005	0.0024 (J)		0.42
3/14/2019					0.0026 (J)	
4/3/2019	<0.005	<0.005	<0.005	0.00094 (J)	0.0022 (J)	
4/5/2019						0.36
9/24/2019	<0.005					
9/26/2019						0.44
9/27/2019		0.00037 (J)	<0.005	0.0018 (J)	0.0061	
3/3/2020	<0.005		<0.005	0.0022 (J)	0.0023 (J)	
3/4/2020		<0.005				0.52
3/26/2020					0.0028 (J)	
3/27/2020	<0.005					
3/30/2020						0.47
3/31/2020		<0.005		0.0022 (J)		
4/1/2020			<0.005			
9/16/2020	<0.005		<0.005			
9/17/2020		<0.005				
9/18/2020				0.00081 (J)	0.0031 (J)	
9/21/2020						0.39
2/12/2021				0.002 (J)	0.0045 (J)	
2/15/2021			<0.005			
2/16/2021	<0.005	<0.005				
2/22/2021						0.45
3/12/2021			<0.005			
3/15/2021	<0.005					
3/16/2021		<0.005		0.0017 (J)	0.0038 (J)	
3/17/2021						0.39
8/17/2021		<0.005	<0.005			
8/18/2021	<0.005			<0.005	0.0028 (J)	
8/19/2021						0.31
2/9/2022		0.0021 (J)	<0.005	0.0047 (J)	0.0053	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-8	HGWC-9	HGWC-10	HGWC-11	HGWC-12	HGWC-13
2/10/2022	0.002 (J)					0.38
8/3/2022	<0.005		<0.005	<0.005	0.0023 (J)	0.4
8/4/2022		<0.005				
1/26/2023		<0.005		<0.005	0.0025 (J)	0.53
1/27/2023			<0.005			
2/1/2023	<0.005					
8/10/2023			<0.005	<0.005	<0.01	
8/11/2023		<0.005				
8/12/2023	<0.005					0.54
2/14/2024	<0.005					
2/15/2024		<0.005	<0.005	<0.005	0.0027 (J)	
2/16/2024						0.5
8/7/2024	<0.005	<0.005	<0.005	0.0015 (J)	0.0024 (J)	
8/8/2024						0.52
2/13/2025				<0.005	0.0033 (J)	
2/14/2025			<0.005			
2/15/2025	<0.005	<0.005				
2/17/2025						0.34

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-5	MW-6	MW-7	MW-19	MW-20	MW-24D
2/21/2018			<0.005			
3/13/2019	<0.005	<0.005	<0.005		0.0023 (J)	<0.005
3/14/2019				<0.005		
4/2/2019					<0.005	
4/3/2019	<0.005	<0.005	<0.005	<0.005		
4/8/2019						<0.005
9/25/2019	<0.005				<0.005	
9/26/2019		<0.005	<0.005			<0.005
9/27/2019				<0.005		
3/2/2020	<0.005				0.00038 (J)	
3/3/2020		<0.005	<0.005			
3/4/2020				0.00045 (J)		<0.005
3/26/2020	<0.005			<0.005		
3/27/2020		<0.005			<0.005	
3/30/2020			<0.005			<0.005
9/17/2020	<0.005				<0.005	
9/21/2020		<0.005	<0.005	<0.005		<0.005
2/11/2021					0.00094 (J)	
2/12/2021				<0.005		
2/15/2021			<0.005			
2/16/2021	<0.005	<0.005				<0.005
3/15/2021			<0.005		<0.005	
3/16/2021	<0.005	<0.005				
3/17/2021				<0.005		<0.005
8/17/2021	<0.005	<0.005	<0.005		<0.005	
8/18/2021				<0.005		
8/19/2021						<0.005
2/8/2022			<0.005			
2/9/2022	0.0013 (J)	0.0034 (J)		<0.005		
2/10/2022					<0.005	<0.005
8/3/2022	<0.005	<0.005				<0.005
8/4/2022			<0.005	<0.005	<0.005	
1/26/2023	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
8/10/2023	<0.005	<0.005	<0.005	<0.005	<0.005	
8/12/2023						<0.005
2/14/2024		<0.005	<0.005		<0.005	
2/15/2024	<0.005			<0.005		<0.005
8/7/2024	<0.005	<0.005			<0.005	
8/8/2024			<0.005	<0.005		<0.005
2/13/2025			<0.005	<0.005		
2/14/2025	<0.005	<0.005				
2/15/2025					<0.005	
2/16/2025						<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-25D	MW-26D	MW-27D	MW-28D	MW-29
3/12/2019				<0.005	<0.005
3/13/2019		<0.005	<0.005		
3/14/2019	0.0019 (J)				
4/2/2019				<0.005	<0.005
4/3/2019	<0.005	<0.005			
4/4/2019			0.0002 (J)		
9/24/2019					<0.005
9/26/2019		<0.005	<0.005	<0.005	
9/27/2019	0.0011 (J)				
3/2/2020					<0.005
3/3/2020	0.001 (J)				
3/4/2020		0.0006 (J)	0.00069 (J)	<0.005	
3/26/2020	0.00075 (J)				
3/27/2020				<0.005	
3/30/2020					0.00037 (J)
3/31/2020		<0.005			
4/2/2020			<0.005		
9/16/2020					<0.005
9/17/2020		<0.005			
9/18/2020	<0.005		<0.005		
9/21/2020				<0.005	
2/10/2021				0.0011 (J)	
2/12/2021	<0.005				
2/15/2021					<0.005
2/16/2021		0.0008 (J)	0.001 (J)		
3/12/2021			<0.005		
3/15/2021				<0.005	<0.005
3/16/2021	<0.005				
3/17/2021		<0.005			
8/16/2021					<0.005
8/17/2021		<0.005	<0.005		
8/18/2021				<0.005	
8/19/2021	<0.005				
2/9/2022	<0.005	0.0017 (J)			
2/10/2022			<0.005	<0.005	<0.005
8/3/2022			<0.005		<0.005
8/4/2022	<0.005	<0.005		<0.005	
1/26/2023	<0.005	<0.005		<0.005	<0.005
1/27/2023			<0.005		
8/10/2023	<0.005				<0.005
8/11/2023		<0.005		<0.005	
8/12/2023			<0.005		
2/14/2024				<0.005	<0.005
2/15/2024	<0.005	<0.005			
2/16/2024			<0.005		
8/7/2024	<0.005				
8/8/2024		<0.005	<0.005	<0.005	<0.005
2/13/2025	<0.005				
2/14/2025		<0.005			
2/15/2025			<0.005		
2/16/2025				<0.005	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Barium (mg/L) Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-7
5/19/2016	0.0346	0.114	0.111			
5/20/2016						0.0687
7/11/2016	0.0311	0.112				
7/12/2016			0.115			0.0731
8/30/2016	0.0293	0.131	0.113			
9/1/2016						0.0747
10/19/2016	0.0293	0.111	0.123			
10/20/2016						0.072
12/6/2016	0.0304	0.108	0.127			0.0752
1/24/2017	0.028	0.102	0.126			
1/25/2017						0.0747
3/21/2017	0.0275	0.095	0.12			0.0722
5/22/2017	0.0281	0.103	0.117			
5/23/2017						0.0794
4/2/2018	0.026	0.099				
4/3/2018			0.11			0.075
6/4/2018	0.035	0.11	0.12			
6/5/2018						0.071
10/1/2018	0.029	0.11	0.14			
10/2/2018						0.078
3/12/2019	0.042	0.12	0.13			
3/13/2019						0.083
4/1/2019			0.13			
4/2/2019	0.04	0.13				0.072
9/23/2019	0.042	0.13	0.13			
9/25/2019						0.061
3/2/2020	0.034	0.11	0.14			
3/4/2020						0.068
3/25/2020	0.043	0.12	0.13			
3/27/2020						0.059
8/25/2020		0.11	0.11			
8/28/2020	0.036					
9/15/2020	0.035	0.12	0.12			
9/16/2020				0.26	0.24	0.068
11/10/2020				0.25	0.38	
12/15/2020				0.29	0.39	
1/19/2021				0.32	0.41	
2/8/2021	0.032					
2/9/2021		0.12	0.13	0.34	0.46	
2/10/2021						0.069
3/10/2021	0.03				0.26	
3/11/2021		0.07	0.13	0.31 (D)		
3/15/2021						0.074
8/11/2021	0.03			0.28		
8/12/2021		0.12	0.11			
8/13/2021					0.22	
8/16/2021						0.068
2/1/2022	0.031	0.13	0.12	0.29	0.23	
2/10/2022						0.063
8/2/2022	0.039	0.11	0.16	0.35	0.37	
8/11/2022						0.071
1/23/2023			0.13			

Time Series

Constituent: Barium (mg/L) Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-7
1/24/2023	0.033	0.088		0.28	0.18	
1/27/2023						0.065
8/8/2023	0.039	0.068	0.12	0.3	0.12	
8/12/2023						0.06
2/13/2024	0.039	0.062	0.13	0.28	0.12	
2/14/2024						0.067
8/5/2024	0.032	0.062	0.13			
8/6/2024				0.28	0.11	
8/7/2024						0.082
2/12/2025	0.034		0.13	0.3	0.095	
2/14/2025		0.057				
2/16/2025						0.092

Time Series

Constituent: Barium (mg/L) Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-8	HGWC-9	HGWC-10	HGWC-11	HGWC-12	HGWC-13
5/20/2016	0.0808					
5/23/2016		0.117	0.0877	0.0466	0.133	0.0779
7/12/2016	0.083	0.13	0.0926	0.0616	0.135	0.0697
9/1/2016	0.0829	0.13	0.0994	0.0497	0.123	0.07
10/20/2016	0.0811	0.0806				
10/24/2016			0.101	0.0794	0.135	0.0882
12/6/2016	0.0845	0.128				
12/7/2016			0.107	0.1	0.13	0.0798
1/25/2017	0.078					
1/26/2017		0.142	0.0538	0.0696	0.127	0.0738
3/21/2017	0.0791					
3/22/2017		0.122	0.0962	0.0346	0.112	0.0755
5/23/2017	0.0846	0.127				
5/24/2017			0.0996	0.0437	0.106	0.0627
4/3/2018	0.065	0.1				
4/4/2018			0.084	0.029	0.083	0.099
6/5/2018			0.086	0.039		0.13
6/6/2018	0.063	0.11			0.09	
10/2/2018	0.061	0.11	0.076			
10/3/2018				0.033	0.087	
10/5/2018						0.076
3/12/2019	0.062					
3/13/2019		0.1	0.044	0.024		0.1
3/14/2019					0.081	
4/3/2019	0.066	0.12	0.076	0.023	0.077	
4/5/2019						0.079
9/24/2019	0.053					
9/26/2019						0.11
9/27/2019		0.11	0.078	0.033	0.096	
3/3/2020	0.052		0.048	0.022	0.092	
3/4/2020		0.11				0.1
3/26/2020					0.089	
3/27/2020	0.059					
3/30/2020						0.08
3/31/2020		0.11		0.026		
4/1/2020			0.058			
9/16/2020	0.06		0.068			
9/17/2020		0.11				
9/18/2020				0.043	0.086	
9/21/2020						0.052
2/12/2021				0.039	0.09	
2/15/2021			0.06			
2/16/2021	0.069	0.11				
2/22/2021						0.061
3/12/2021			0.058			
3/15/2021	0.063					
3/16/2021		0.11		0.035	0.084	
3/17/2021						0.056
8/17/2021		0.095	0.055			
8/18/2021	0.062			0.04	0.083	
8/19/2021						0.049
2/9/2022		0.096	0.042	0.042	0.075	

Time Series

Constituent: Barium (mg/L) Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-8	HGWC-9	HGWC-10	HGWC-11	HGWC-12	HGWC-13
2/10/2022	0.056					0.053
8/3/2022	0.06		0.069	0.041	0.086	0.07
8/4/2022		0.091				
1/26/2023		0.069		0.031	0.076	0.079
1/27/2023			0.041			
2/1/2023	0.058					
8/10/2023			0.045	0.027	0.075	
8/11/2023		0.068				
8/12/2023	0.052					0.057
2/14/2024	0.048					
2/15/2024		0.054	0.048	0.037	0.068	
2/16/2024						0.056
8/7/2024	0.053	0.054	0.059	0.029	0.063	
8/8/2024						0.05
2/13/2025				0.042	0.068	
2/14/2025			0.049			
2/15/2025	0.048	0.065				
2/17/2025						0.046

Time Series

Constituent: Barium (mg/L) Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-5	MW-6	MW-7	MW-19	MW-20	MW-24D
3/13/2019	0.056	0.1	0.063		0.087	0.053
3/14/2019				0.06		
4/2/2019					0.08	
4/3/2019	0.049	0.09	0.058	0.05		
4/8/2019						0.043
9/25/2019	0.046				0.085	
9/26/2019		0.089	0.066			0.12
9/27/2019				0.068		
3/2/2020	0.049				0.099	
3/3/2020		0.09	0.043			
3/4/2020				0.069		0.081
3/26/2020	0.046			0.067		
3/27/2020		0.086			0.093	
3/30/2020			0.05			0.056
9/17/2020	0.043				0.096	
9/21/2020		0.083	0.065	0.056		0.053
2/11/2021					0.093	
2/12/2021				0.051		
2/15/2021			0.048			
2/16/2021	0.05	0.085				0.062
3/15/2021			0.053		0.096	
3/16/2021	0.046	0.081				
3/17/2021				0.049		0.055
8/17/2021	0.045	0.081	0.057		0.089	
8/18/2021				0.045		
8/19/2021						0.048
2/8/2022			0.053			
2/9/2022	0.042	0.074		0.042		
2/10/2022					0.082	0.048
8/3/2022	0.058	0.084				0.053
8/4/2022			0.064	0.05	0.093	
1/26/2023	0.05	0.079	0.044	0.039	0.097	0.054
8/10/2023	0.048	0.066	0.059	0.032	0.093	
8/12/2023						0.053
2/14/2024		0.067	0.042		0.095	
2/15/2024	0.039			0.03		0.034
8/7/2024	0.052	0.066			0.089	
8/8/2024			0.062	0.031		0.048
2/13/2025			0.066	0.035		
2/14/2025	0.052	0.08				
2/15/2025					0.097	
2/16/2025						0.039

Time Series

Constituent: Barium (mg/L) Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-25D	MW-26D	MW-27D	MW-28D	MW-29
3/12/2019				0.82	0.089
3/13/2019		0.099	1.5		
3/14/2019	0.44				
4/2/2019				0.37	0.078
4/3/2019	0.38	0.12			
4/4/2019			1.2		
9/24/2019					0.081
9/26/2019		0.12	0.95	0.15	
9/27/2019	0.39				
3/2/2020					0.088
3/3/2020	0.42				
3/4/2020		0.17	0.95	0.77	
3/26/2020	0.45				
3/27/2020				0.64	
3/30/2020					0.08
3/31/2020		0.11			
4/2/2020			1		
9/16/2020					0.076
9/17/2020		0.099			
9/18/2020	0.44		1		
9/21/2020				0.18	
2/10/2021				0.26	
2/12/2021	0.46				
2/15/2021					0.081
2/16/2021		0.093	1		
3/12/2021			1.1		
3/15/2021				0.45	0.078
3/16/2021	0.51				
3/17/2021		0.094			
8/16/2021					0.074
8/17/2021		0.072	1.1		
8/18/2021				0.53	
8/19/2021	0.58				
2/9/2022	0.6	0.066			
2/10/2022			0.99	0.76	0.072
8/3/2022			0.94		0.081
8/4/2022	0.75	0.062		0.7	
1/26/2023	0.65	0.065		0.8	0.076
1/27/2023			0.94		
8/10/2023	0.71				0.066
8/11/2023		0.059		2.2	
8/12/2023			0.98		
10/31/2023				2.5	
2/14/2024				0.61	0.065
2/15/2024	0.69	0.058			
2/16/2024			0.65		
8/7/2024	0.75				
8/8/2024		0.045	0.63	2.6	0.058
2/13/2025	0.77				
2/14/2025		0.053			
2/15/2025			0.49		
2/16/2025				0.51	0.062

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-7
5/19/2016	<0.0005	<0.003	<0.0005			
5/20/2016						<0.0005
7/11/2016	<0.0005	0.0001 (J)				
7/12/2016			<0.0005			<0.0005
8/30/2016	<0.0005	<0.003	<0.0005			
9/1/2016						<0.0005
10/19/2016	<0.0005	0.0001 (J)	<0.0005			
10/20/2016						<0.0005
12/6/2016	<0.0005	0.0002 (J)	<0.0005			<0.0005
1/24/2017	<0.0005	0.0001 (J)	<0.0005			
1/25/2017						<0.0005
3/21/2017	<0.0005	0.0001 (J)	<0.0005			<0.0005
5/22/2017	<0.0005	0.0001 (J)	<0.0005			
5/23/2017						<0.0005
4/2/2018	<0.0005	<0.003				
4/3/2018			<0.0005			<0.0005
3/12/2019	<0.0005	0.00017 (J)	<0.0005			
3/13/2019						<0.0005
4/1/2019			<0.0005			
4/2/2019	<0.0005	0.00015 (J)				<0.0005
9/23/2019	<0.0005	0.00011 (J)	<0.0005			
9/25/2019						<0.0005
3/2/2020	<0.0005	0.00014 (J)	<0.0005			
3/4/2020						7.7E-05 (J)
3/25/2020	<0.0005	0.00016 (J)	<0.0005			
3/27/2020						<0.0005
8/25/2020		0.00014 (J)	<0.0005			
8/28/2020	<0.0005					
9/15/2020	<0.0005	0.00013 (J)	<0.0005			
9/16/2020				<0.0005	<0.0005	<0.0005
11/10/2020				<0.0005	<0.0005	
12/15/2020				<0.0005	<0.0005	
1/19/2021				<0.0005	<0.0005	
2/8/2021	<0.0005					
2/9/2021		0.00014 (J)	<0.0005	<0.0005	<0.0005	
2/10/2021						8.1E-05 (J)
3/10/2021	<0.0005				<0.0005	
3/11/2021		8.6E-05 (J)	<0.0005	<0.0005		
3/15/2021						0.00019 (J)
8/11/2021	<0.0005			<0.0005		
8/12/2021		0.00014 (J)	<0.0005			
8/13/2021					<0.0005	
8/16/2021						<0.0005
2/1/2022	<0.0005	0.0002 (J)	<0.0005	<0.0005	<0.0005	
2/10/2022						<0.0005
8/2/2022	<0.0005	0.00019 (J)	<0.0005	<0.0005	<0.0005	
8/11/2022						<0.0005
1/23/2023			<0.0005			
1/24/2023	<0.0005	0.00016 (J)		<0.0005	<0.0005	
1/27/2023						<0.0005
8/8/2023	<0.0005	0.00022 (J)	<0.0005	<0.0005	<0.0005	
8/12/2023						<0.0005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-7
2/13/2024	<0.0005	0.00022 (J)	<0.0005	<0.0005	<0.0005	
2/14/2024						<0.0005
8/5/2024	<0.0005	0.00026 (J)	<0.0005			
8/6/2024				<0.0005	<0.0005	
8/7/2024						<0.0005
2/12/2025	<0.0005		<0.0005	<0.0005	<0.0005	
2/14/2025		0.00023 (J)				
2/16/2025						<0.0005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-8	HGWC-9	HGWC-10	HGWC-11	HGWC-12	HGWC-13
5/20/2016	<0.0005					
5/23/2016		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
7/12/2016	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
9/1/2016	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
10/20/2016	<0.0005	<0.0005				
10/24/2016			<0.0005	<0.0005	<0.0005	<0.0005
12/6/2016	<0.0005	<0.0005				
12/7/2016			<0.0005	<0.0005	<0.0005	<0.0005
1/25/2017	<0.0005					
1/26/2017		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
3/21/2017	<0.0005					
3/22/2017		<0.0005	<0.0005	9E-05 (J)	<0.0005	<0.0005
5/23/2017	<0.0005	<0.0005				
5/24/2017			<0.0005	<0.0005	<0.0005	<0.0005
4/3/2018	<0.0005	<0.0005				
4/4/2018			<0.0005	<0.0005	<0.0005	<0.0005
3/12/2019	<0.0005					
3/13/2019		<0.0005	<0.0005	0.0001 (J)		6.2E-05 (J)
3/14/2019					<0.0005	
4/3/2019	7.4E-05 (J)	<0.0005	<0.0005	0.00017 (J)	<0.0005	
4/5/2019						<0.0005
9/24/2019	<0.0005					
9/26/2019						0.00011 (J)
9/27/2019		<0.0005	<0.0005	8.6E-05 (J)	<0.0005	
3/3/2020	<0.0005		<0.0005	0.00012 (J)	<0.0005	
3/4/2020		<0.0005				9.3E-05 (J)
3/26/2020					<0.0005	
3/27/2020	<0.0005					
3/30/2020						9.9E-05 (J)
3/31/2020		<0.0005		0.00015 (J)		
4/1/2020			<0.0005			
9/16/2020	0.0001 (J)		<0.0005			
9/17/2020		<0.0005				
9/18/2020				<0.0005	<0.0005	
9/21/2020						0.00011 (J)
2/12/2021				<0.0005	<0.0005	
2/15/2021			<0.0005			
2/16/2021	7.1E-05 (J)	<0.0005				
2/22/2021						9.7E-05 (J)
3/12/2021			<0.0005			
3/15/2021	7.8E-05 (J)					
3/16/2021		<0.0005		8.1E-05 (J)	<0.0005	
3/17/2021						9E-05 (J)
8/17/2021		<0.0005	<0.0005			
8/18/2021	8.7E-05 (J)			<0.0005	<0.0005	
8/19/2021						7.3E-05 (J)
2/9/2022		<0.0005	<0.0005	<0.0005	<0.0005	
2/10/2022	7.1E-05 (J)					<0.0005
8/3/2022	5.6E-05 (J)		<0.0005	<0.0005	<0.0005	<0.0005
8/4/2022		<0.0005				
1/26/2023		<0.0005		<0.0005	<0.0005	9.9E-05 (J)
1/27/2023			<0.0005			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-8	HGWC-9	HGWC-10	HGWC-11	HGWC-12	HGWC-13
2/1/2023	5.6E-05 (J)					
8/10/2023			<0.0005	6.9E-05 (J)	<0.0005	
8/11/2023		<0.0005				
8/12/2023	<0.0005					0.0001 (J)
2/14/2024	<0.0005					
2/15/2024		<0.0005	<0.0005	<0.0005	<0.0005	
2/16/2024						<0.0005
8/7/2024	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
8/8/2024						<0.0005
2/13/2025				<0.0005	<0.0005	
2/14/2025			<0.0005			
2/15/2025	0.00017 (J)	<0.0005				
2/17/2025						<0.0005

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-5	MW-6	MW-7	MW-19	MW-20	MW-24D
3/13/2019	<0.0005	<0.0005	<0.0005		<0.0005	<0.0005
3/14/2019				<0.0005		
4/2/2019					<0.0005	
4/3/2019	<0.0005	<0.0005	5.1E-05 (J)	<0.0005		
4/8/2019						<0.0005
9/25/2019	<0.0005				<0.0005	
9/26/2019		<0.0005	<0.0005			<0.0005
9/27/2019				<0.0005		
3/2/2020	<0.0005				<0.0005	
3/3/2020		<0.0005	<0.0005			
3/4/2020				<0.0005		<0.0005
3/26/2020	<0.0005			<0.0005		
3/27/2020		<0.0005			<0.0005	
3/30/2020			<0.0005			<0.0005
9/17/2020	<0.0005				<0.0005	
9/21/2020		<0.0005	<0.0005	<0.0005		<0.0005
2/11/2021					<0.0005	
2/12/2021				<0.0005		
2/15/2021			<0.0005			
2/16/2021	<0.0005	<0.0005				<0.0005
3/15/2021			<0.0005		<0.0005	
3/16/2021	<0.0005	<0.0005				
3/17/2021				<0.0005		<0.0005
8/17/2021	<0.0005	<0.0005	<0.0005		<0.0005	
8/18/2021				5.8E-05 (J)		
8/19/2021						<0.0005
2/8/2022			<0.0005			
2/9/2022	<0.0005	<0.0005		<0.0005		
2/10/2022					<0.0005	<0.0005
8/3/2022	<0.0005	<0.0005				<0.0005
8/4/2022			<0.0005	<0.0005	<0.0005	
1/26/2023	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
8/10/2023	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
8/12/2023						<0.0005
2/14/2024		<0.0005	<0.0005		<0.0005	
2/15/2024	<0.0005			<0.0005		<0.0005
8/7/2024	<0.0005	<0.0005			<0.0005	
8/8/2024			<0.0005	<0.0005		<0.0005
2/13/2025			<0.0005	<0.0005		
2/14/2025	<0.0005	<0.0005				
2/15/2025					<0.0005	
2/16/2025						<0.0005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-25D	MW-26D	MW-27D	MW-28D	MW-29
3/12/2019				<0.0005	<0.0005
3/13/2019		<0.0005	<0.0005		
3/14/2019	<0.0005				
4/2/2019				<0.0005	<0.0005
4/3/2019	<0.0005	<0.0005			
4/4/2019			<0.0005		
9/24/2019					<0.0005
9/26/2019		<0.0005	<0.0005	<0.0005	
9/27/2019	<0.0005				
3/2/2020					<0.0005
3/3/2020	<0.0005				
3/4/2020		<0.0005	<0.0005	0.00014 (J)	
3/26/2020	<0.0005				
3/27/2020				<0.0005	
3/30/2020					<0.0005
3/31/2020		<0.0005			
4/2/2020			<0.0005		
9/16/2020					<0.0005
9/17/2020		<0.0005			
9/18/2020	<0.0005		<0.0005		
9/21/2020				<0.0005	
2/10/2021				5.4E-05 (J)	
2/12/2021	<0.0005				
2/15/2021					<0.0005
2/16/2021		<0.0005	<0.0005		
3/12/2021			<0.0005		
3/15/2021				4.8E-05 (J)	<0.0005
3/16/2021	<0.0005				
3/17/2021		<0.0005			
8/16/2021					<0.0005
8/17/2021		<0.0005	<0.0005		
8/18/2021				<0.0005	
8/19/2021	<0.0005				
2/9/2022	<0.0005	<0.0005			
2/10/2022			<0.0005	<0.0005	<0.0005
8/3/2022			<0.0005		<0.0005
8/4/2022	<0.0005	<0.0005		<0.0005	
1/26/2023	<0.0005	<0.0005		<0.0005	<0.0005
1/27/2023			<0.0005		
8/10/2023	<0.0005				<0.0005
8/11/2023		<0.0005		<0.0005	
8/12/2023			<0.0005		
2/14/2024				<0.0005	<0.0005
2/15/2024	<0.0005	<0.0005			
2/16/2024			<0.0005		
8/7/2024	<0.0005				
8/8/2024		<0.0005	<0.0005	<0.0005	<0.0005
2/13/2025	<0.0005				
2/14/2025		<0.0005			
2/15/2025			<0.0005		
2/16/2025				<0.0005	<0.0005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-7
5/19/2016	0.0214 (J)	0.0321 (J)	<0.04			
5/20/2016						0.885
7/11/2016	0.0142 (J)	0.0337 (J)				
7/12/2016			0.0074 (J)			0.857
8/30/2016	0.0074 (J)	0.0173 (J)	<0.04			
9/1/2016						0.904
10/19/2016	0.0224 (J)	0.0341 (J)	0.0085 (J)			
10/20/2016						0.936
12/6/2016	0.0211 (J)	0.0326 (J)	0.0085 (J)			1.06
1/24/2017	0.0165 (J)	0.0365 (J)	0.01 (J)			
1/25/2017						0.764
3/21/2017	0.0187 (J)	0.0349 (J)	0.0079 (J)			0.857
5/22/2017	0.0782	0.0475	0.0131 (J)			
5/23/2017						0.91
10/3/2017	0.0198 (J)	0.0386 (J)	0.0097 (J)			0.967
6/4/2018	0.02 (J)	0.036 (J)	0.017 (J)			
6/5/2018						0.86
10/1/2018	0.013 (J)	0.035 (J)	0.0061 (J)			
10/2/2018						0.98
4/1/2019			0.0066 (J)			
4/2/2019	0.016 (J)	0.034 (J)				0.99
9/23/2019	0.021 (J)	0.04 (J)	0.0081 (J)			
9/25/2019						1.1
3/25/2020	0.025 (J)	0.039 (J)	0.0096 (J)			
3/27/2020						1.2
6/16/2020	0.021 (J)		0.01 (J)			
6/17/2020						1
9/15/2020	0.017 (J)	0.044 (J)	0.0071 (J)			
9/16/2020				0.061 (J)	0.23	1.1
11/10/2020				0.057 (J)	0.29	
12/15/2020				0.052 (J)	0.31	
1/19/2021				0.049 (J)	0.4	
3/10/2021	0.015 (J)				0.39	
3/11/2021		0.056	0.015 (J)	0.06		
3/15/2021						1.1
8/11/2021	0.02 (J)			0.042		
8/12/2021		0.044	<0.04			
8/13/2021					0.31	
8/16/2021						1.1
2/1/2022	0.016 (J)	0.056	0.011 (J)	0.05	0.44	
2/10/2022						1.3
8/2/2022	0.012 (J)	0.047	<0.04	0.043	0.31	
8/11/2022						1.1
1/23/2023			0.012 (J)			
1/24/2023	0.015 (J)	0.046		0.037 (J)	0.44	
1/27/2023						0.93
8/8/2023	0.023 (J)	0.06	0.011 (J)	0.038 (J)	0.55	
8/12/2023						0.82
2/13/2024	0.02 (J)	0.051	<0.04	0.037 (J)	0.49	
2/14/2024						0.98
8/5/2024	0.02 (J)	0.057	<0.04			
8/6/2024				0.043	0.52	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-7
8/7/2024						0.77
2/12/2025	0.021 (J)		0.011 (J)	0.04 (J)	0.54	
2/14/2025		0.053				
2/16/2025						0.9

Time Series

Constituent: Boron (mg/L) Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-8	HGWC-9	HGWC-10	HGWC-11	HGWC-12	HGWC-13
5/20/2016	1.71					
5/23/2016		1.76	0.72	0.787	2.2	2.15
7/12/2016	1.43	1.56	0.778	1.17	1.98	1.91
9/1/2016	1.91	2	0.786	1.49	2.28	2.3
10/20/2016	1.72	1.68				
10/24/2016			0.831	2.54	2.75	4.01
12/6/2016	2.06	2.15				
12/7/2016			1.01	2.96	3.35	3.85
1/25/2017	2.01					
1/26/2017		1.87	0.108	2.23	3.07	2.45
3/21/2017	2.08					
3/22/2017		1.99	0.788	0.84	3.04	1.99
5/23/2017	2.32	2.29				
5/24/2017			0.814	2.29	2.95	1.74
10/3/2017	2.84	2.05	0.871	1.47	2.35	1.43
6/5/2018			1.2	1.3		1.3
6/6/2018	2.6	2.3			2.5	
10/2/2018	2.7	2.5	0.62			
10/3/2018				0.91	2.3	
10/5/2018						1.6
3/13/2019						1
4/3/2019	2.8	2.3	0.66	0.23	1.8	
4/5/2019						0.86 (J)
9/24/2019	2.8					
9/26/2019						1.7
9/27/2019		2.9	1	0.53	2.1	
3/26/2020					1.6	
3/27/2020	2.4					
3/30/2020						1.8
3/31/2020		2.2		0.17		
4/1/2020			0.23			
6/16/2020	2.2					
9/16/2020	1.9		1.1			
9/17/2020		2				
9/18/2020				0.91	1.6	
9/21/2020						1.6
3/12/2021			0.64			
3/15/2021	1.7					
3/16/2021		2.2		0.53	1.9	
3/17/2021						0.89
8/17/2021		2.3	0.88			
8/18/2021	1.8			0.91	1.9	
8/19/2021						0.73
2/9/2022		2.3	0.1	1	2	
2/10/2022	1.7					1
8/3/2022	1.5		0.53	0.64	1.5	0.76
8/4/2022		2				
1/26/2023		1.9		0.5	1.5	0.83
1/27/2023			0.065			
2/1/2023	1.9					
8/10/2023			0.65	0.44	1.4	
8/11/2023		2.1				

Time Series

Constituent: Boron (mg/L) Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-8	HGWC-9	HGWC-10	HGWC-11	HGWC-12	HGWC-13
8/12/2023	1.7					1
2/14/2024	1.6					
2/15/2024		2.1	0.089	0.85	1.8	
2/16/2024						1
8/7/2024	1.7	1.9	0.48	0.46	1.2	
8/8/2024						0.81
2/13/2025				0.92	1.4	
2/14/2025			0.1			
2/15/2025	1.4 (M1)	2				
2/17/2025						1

Time Series

Constituent: Boron (mg/L) Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-5	MW-6	MW-7	MW-19	MW-20	MW-24D
4/2/2019					0.11	
4/3/2019	0.03 (J)	0.67	0.094	0.63		
4/8/2019						0.47 (J)
9/25/2019	0.11				0.091	
9/26/2019		0.93	0.26			0.49
9/27/2019				0.58		
3/26/2020	0.041 (J)			1		
3/27/2020		0.77			0.12	
3/30/2020			0.051 (J)			0.51
9/17/2020	0.067 (J)				0.11	
9/21/2020		0.82	0.2	0.89		0.45
3/15/2021			0.16		0.12	
3/16/2021	0.037 (J)	0.81				
3/17/2021				0.69		0.49
8/17/2021	0.026 (J)	0.85	0.2		0.11	
8/18/2021				0.55		
8/19/2021						0.52
2/8/2022			0.19			
2/9/2022	0.042	0.96		0.49		
2/10/2022					0.13	0.55
8/3/2022	0.034 (J)	0.75				0.49
8/4/2022			0.14	0.58	0.11	
1/26/2023	0.044	0.71	0.033 (J)	0.36	0.099	0.47
8/10/2023	0.037 (J)	0.65	0.13	0.53	0.1	
8/12/2023						0.55
2/14/2024		0.65	0.038 (J)		0.12	
2/15/2024	0.046			0.25		0.38
8/7/2024	0.039 (J)	0.6			0.1	
8/8/2024			0.11	0.61		0.5
2/13/2025			0.19	0.33 (JED)		
2/14/2025	0.039 (J)	0.68				
2/15/2025					0.13	
2/16/2025						0.51

Time Series

Constituent: Boron (mg/L) Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-25D	MW-26D	MW-27D	MW-28D	MW-29
4/2/2019				0.17	1.2
4/3/2019	0.37	1.5			
4/4/2019			0.12 (J)		
9/24/2019					1.2
9/26/2019		2	0.14	0.6	
9/27/2019	0.36				
3/26/2020	0.44				
3/27/2020				0.14	
3/30/2020					1.3
3/31/2020		1.8			
4/2/2020			0.13		
9/16/2020					1.7
9/17/2020		2			
9/18/2020	0.36		0.12		
9/21/2020				0.45	
3/12/2021			0.13		
3/15/2021				0.36	1.2
3/16/2021	0.4				
3/17/2021		2.1			
8/16/2021					1.1
8/17/2021		2.2	0.14		
8/18/2021				0.72	
8/19/2021	0.4				
2/9/2022	0.43	2.3			
2/10/2022			0.13	0.23	1.4
8/3/2022			0.12		1.1
8/4/2022	0.35	2		0.55	
1/26/2023	0.3	1.8		0.29	1
1/27/2023			0.12		
8/10/2023	0.31				1.1
8/11/2023		1.6		0.12	
8/12/2023			0.13		
2/14/2024				0.41	1.1
2/15/2024	0.3	1.7			
2/16/2024			0.12		
8/7/2024	0.31				
8/8/2024		1.9	0.13	0.11	1.1
2/13/2025	0.34 (JED)				
2/14/2025		1.9			
2/15/2025			0.12		
2/16/2025				0.49	1.1

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-7
5/19/2016	<0.0005	<0.0005	<0.0005			
5/20/2016						<0.0005
7/11/2016	<0.0005	<0.0005				
7/12/2016			<0.0005			<0.0005
8/30/2016	<0.0005	<0.0005	<0.0005			
9/1/2016						<0.0005
10/19/2016	<0.0005	<0.0005	<0.0005			
10/20/2016						<0.0005
12/6/2016	<0.0005	<0.0005	<0.0005			0.0002 (J)
1/24/2017	<0.0005	0.0001 (J)	<0.0005			
1/25/2017						0.0002 (J)
3/21/2017	<0.0005	7E-05 (J)	<0.0005			0.0002 (J)
5/22/2017	<0.0005	0.0001 (J)	<0.0005			
5/23/2017						0.0001 (J)
4/2/2018	<0.0005	<0.0005				
4/3/2018			<0.0005			<0.0005
6/4/2018	<0.0005	0.00014 (J)	<0.0005			
10/1/2018	<0.0005	<0.0005	<0.0005			
3/12/2019	<0.0005	0.00013 (J)	<0.0005			
3/13/2019						<0.0005
4/1/2019			<0.0005			
4/2/2019	<0.0005	0.00015 (J)				<0.0005
9/23/2019	<0.0005	<0.0005 (D)	<0.0005			
9/25/2019						<0.0005
3/2/2020	<0.0005	<0.0005	<0.0005			
3/4/2020						<0.0005
3/25/2020	<0.0005	0.00014 (J)	<0.0005			
3/27/2020						<0.0005
8/25/2020		<0.0005	<0.0005			
8/28/2020	<0.0005					
9/15/2020	<0.0005	0.00012 (J)	<0.0005			
9/16/2020				<0.0005	<0.0005	<0.0005
11/10/2020				<0.0005	<0.0005	
12/15/2020				<0.0005	<0.0005	
1/19/2021				<0.0005	<0.0005	
2/8/2021	<0.0005					
2/9/2021		0.00016 (J)	<0.0005	<0.0005	<0.0005	
2/10/2021						<0.0005
3/10/2021	<0.0005				<0.0005	
3/11/2021		<0.0005	<0.0005	<0.0005		
3/15/2021						<0.0005
8/11/2021	<0.0005			<0.0005		
8/12/2021		0.00014 (J)	<0.0005			
8/13/2021					<0.0005	
8/16/2021						<0.0005
2/1/2022	<0.0005	0.00017 (J)	<0.0005	<0.0005	<0.0005	
2/10/2022						<0.0005
8/2/2022	<0.0005	0.00023 (J)	<0.0005	<0.0005	<0.0005	
8/11/2022						<0.0005
1/23/2023			<0.0005			
1/24/2023	<0.0005	0.00021 (J)		<0.0005	<0.0005	
1/27/2023						0.00019 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-7
8/8/2023	<0.0005	0.00026 (J)	<0.0005	<0.0005	<0.0005	
8/12/2023						<0.0005
2/13/2024	<0.0005	0.00027 (J)	<0.0005	<0.0005	<0.0005	
2/14/2024						<0.0005
8/5/2024	<0.0005	0.00026 (J)	<0.0005			
8/6/2024				<0.0005	<0.0005	
8/7/2024						<0.0005
2/12/2025	<0.0005		<0.0005	<0.0005	<0.0005	
2/14/2025		0.00028 (J)				
2/16/2025						<0.0005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-8	HGWC-9	HGWC-10	HGWC-11	HGWC-12	HGWC-13
5/20/2016	0.00024 (J)					
5/23/2016		<0.0005	0.000115 (J)	<0.0005	<0.0005	<0.0005
7/12/2016	0.0002 (J)	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
9/1/2016	0.0001 (J)	<0.0005	0.0001 (J)	<0.0005	<0.0005	<0.0005
10/20/2016	0.0001 (J)	0.0002 (J)				
10/24/2016			0.0001 (J)	<0.0005	<0.0005	<0.0005
12/6/2016	0.0017	0.0001 (J)				
12/7/2016			0.0001 (J)	0.0001 (J)	0.0002 (J)	<0.0005
1/25/2017	0.0002 (J)					
1/26/2017		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
3/21/2017	0.0002 (J)					
3/22/2017		7E-05 (J)	0.0001 (J)	0.0001 (J)	0.0003 (J)	<0.0005
5/23/2017	0.0003 (J)	<0.0005				
5/24/2017			0.0002 (J)	<0.0005	9E-05 (J)	<0.0005
4/3/2018	<0.001	<0.0005				
4/4/2018			<0.0005	<0.0005	<0.0005	<0.0005
3/12/2019	0.0002 (J)					
3/13/2019		<0.0005	<0.0005	<0.0005		<0.0005
3/14/2019					<0.0005	
4/3/2019	0.00032 (J)	<0.0005	0.0001 (J)	9.6E-05 (J)	<0.0005	
4/5/2019						<0.0005
9/24/2019	0.0002 (J)					
9/26/2019						<0.0005
9/27/2019		<0.0005	<0.0005	<0.0005	<0.0005	
3/3/2020	0.00017 (J)		<0.0005	<0.0005	0.00015 (J)	
3/4/2020		<0.0005				<0.0005
3/26/2020					<0.0005	
3/27/2020	0.00014 (J)					
3/30/2020						<0.0005
3/31/2020		<0.0005		<0.0005		
4/1/2020			<0.0005			
9/16/2020	0.00023 (J)		<0.0005			
9/17/2020		<0.0005				
9/18/2020				<0.0005	<0.0005	
9/21/2020						<0.0005
2/12/2021				<0.0005	<0.0005	
2/15/2021			<0.0005			
2/16/2021	0.00037 (J)	<0.0005				
2/22/2021						<0.0005
3/12/2021			<0.0005			
3/15/2021	0.00017 (J)					
3/16/2021		<0.0005		<0.0005	<0.0005	
3/17/2021						<0.0005
8/17/2021		<0.0005	<0.0005			
8/18/2021	0.0002 (J)			<0.0005	<0.0005	
8/19/2021						<0.0005
2/9/2022		<0.0005	<0.0005	<0.0005	<0.0005	
2/10/2022	0.00029 (J)					<0.0005
8/3/2022	0.00017 (J)		<0.0005	<0.0005	<0.0005	<0.0005
8/4/2022		<0.0005				
1/26/2023		<0.0005		<0.0005	<0.0005	<0.0005
1/27/2023			<0.0005			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-8	HGWC-9	HGWC-10	HGWC-11	HGWC-12	HGWC-13
2/1/2023	0.00014 (J)					
8/10/2023			<0.0005	<0.0005	<0.0005	
8/11/2023		<0.0005				
8/12/2023	0.00044 (J)					<0.0005
2/14/2024	0.00025 (J)					
2/15/2024		<0.0005	<0.0005	<0.0005	<0.0005	
2/16/2024						<0.0005
8/7/2024	0.0014	<0.0005	<0.0005	<0.0005	<0.0005	
8/8/2024						<0.0005
2/13/2025				<0.0005	<0.0005	
2/14/2025			<0.0005			
2/15/2025	0.00022 (J)	<0.0005				
2/17/2025						<0.0005

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-5	MW-6	MW-7	MW-19	MW-20	MW-24D
3/13/2019	<0.0005	<0.0005	<0.0005		<0.0005	<0.0005
3/14/2019				<0.0005		
4/2/2019					<0.0005	
4/3/2019	<0.0005	<0.0005	<0.0005	<0.0005		
4/8/2019						<0.0005
9/25/2019	<0.0005				<0.0005	
9/26/2019		<0.0005	<0.0005			<0.0005
9/27/2019				0.00013 (J)		
3/2/2020	<0.0005				<0.0005	
3/3/2020		<0.0005	<0.0005			
3/4/2020				0.00026 (J)		<0.0005
3/26/2020	<0.0005			0.00019 (J)		
3/27/2020		<0.0005			<0.0005	
3/30/2020			<0.0005			<0.0005
9/17/2020	<0.0005				<0.0005	
9/21/2020		<0.0005	<0.0005	0.00018 (J)		<0.0005
2/11/2021					<0.0005	
2/12/2021				0.0002 (J)		
2/15/2021			<0.0005			
2/16/2021	<0.0005	<0.0005				<0.0005
3/15/2021			<0.0005		<0.0005	
3/16/2021	<0.0005	<0.0005				
3/17/2021				0.00016 (J)		<0.0005
8/17/2021	<0.0005	<0.0005	<0.0005		<0.0005	
8/18/2021				0.00027 (J)		
8/19/2021						<0.0005
2/8/2022			<0.0005			
2/9/2022	<0.0005	<0.0005		0.0011		
2/10/2022					<0.0005	<0.0005
8/3/2022	<0.0005	<0.0005				<0.0005
8/4/2022			<0.0005	0.00022 (J)	<0.0005	
1/26/2023	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
8/10/2023	<0.0005	<0.0005	<0.0005	0.00018 (J)	<0.0005	
8/12/2023						<0.0005
2/14/2024		<0.0005	<0.0005		<0.0005	
2/15/2024	<0.0005			<0.0005		<0.0005
8/7/2024	<0.0005	<0.0005			<0.0005	
8/8/2024			<0.0005	0.00017 (J)		<0.0005
2/13/2025			<0.0005	<0.0005		
2/14/2025	<0.0005	<0.0005				
2/15/2025					<0.0005	
2/16/2025						<0.0005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-25D	MW-26D	MW-27D	MW-28D	MW-29
3/12/2019				<0.0005	<0.0005
3/13/2019		<0.0005	<0.0005		
3/14/2019	<0.0005				
4/2/2019				<0.0005	<0.0005
4/3/2019	<0.0005	<0.0005			
4/4/2019			<0.0005		
9/24/2019					<0.0005
9/26/2019		<0.0005	<0.0005	<0.0005	
9/27/2019	<0.0005				
3/2/2020					<0.0005
3/3/2020	<0.0005				
3/4/2020		<0.0005	<0.0005	<0.0005	
3/26/2020	<0.0005				
3/27/2020				<0.0005	
3/30/2020					<0.0005
3/31/2020		<0.0005			
4/2/2020			<0.0005		
9/16/2020					<0.0005
9/17/2020		<0.0005			
9/18/2020	<0.0005		<0.0005		
9/21/2020				<0.0005	
2/10/2021				<0.0005	
2/12/2021	<0.0005				
2/15/2021					<0.0005
2/16/2021		<0.0005	<0.0005		
3/12/2021			<0.0005		
3/15/2021				<0.0005	<0.0005
3/16/2021	<0.0005				
3/17/2021		<0.0005			
8/16/2021					<0.0005
8/17/2021		<0.0005	<0.0005		
8/18/2021				<0.0005	
8/19/2021	<0.0005				
2/9/2022	<0.0005	<0.0005			
2/10/2022			<0.0005	<0.0005	<0.0005
8/3/2022			<0.0005		<0.0005
8/4/2022	<0.0005	<0.0005		<0.0005	
1/26/2023	<0.0005	<0.0005		<0.0005	<0.0005
1/27/2023			<0.0005		
8/10/2023	<0.0005				<0.0005
8/11/2023		<0.0005		<0.0005	
8/12/2023			<0.0005		
2/14/2024				<0.0005	0.00053
2/15/2024	<0.0005	<0.0005			
2/16/2024			<0.0005		
8/7/2024	<0.0005				
8/8/2024		<0.0005	<0.0005	<0.0005	0.00019 (J)
2/13/2025	<0.0005				
2/14/2025		<0.0005			
2/15/2025			<0.0005		
2/16/2025				<0.0005	0.00039 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-7
5/19/2016	138	22.9	76.2			
5/20/2016						117
7/11/2016	97.2	22.3				
7/12/2016			61.5			88.8
8/30/2016	97.5	26.4	65.1			
9/1/2016						96.3
10/19/2016	99.2	21.7	73.2			
10/20/2016						96.9
12/6/2016	105	18.2	74.9			104
1/24/2017	95.7	18.5	69.6			
1/25/2017						94.5
3/21/2017	106	18.6	75.7			109
5/22/2017	107	17.8	71.5			
5/23/2017						93.3
10/3/2017	102	20.2	76.3			108
6/4/2018	124	19.1	73.4			
6/5/2018						99.8
10/1/2018	108	20.5 (J)	80.9			
10/2/2018						108
4/1/2019			80.5			
4/2/2019	132	22.5 (J)				101
9/23/2019	118	19.5	71			
9/25/2019						105
3/25/2020	127	23	89.8			
3/27/2020						119
6/16/2020	130		85.1			
6/17/2020						112
9/15/2020	103	21.1	73.1			
9/16/2020				56	30	98
11/10/2020				63.3	33.6	
12/15/2020				62.6	28.7	
1/19/2021				60.1	33	
3/10/2021	111				12.1 (D)	
3/11/2021		43.8	83.8	59.6		
3/15/2021						113
8/11/2021	113			61		
8/12/2021		21.9	84			
8/13/2021					28.9	
8/16/2021						112
2/1/2022	106	27.2	85.1	55.9	24.8	
2/10/2022						108
8/2/2022	117	31.2	84.6	54.1	20.9	
8/11/2022						119
1/23/2023			85			
1/24/2023	117	29.4		56.6	13.2	
1/27/2023						124
8/8/2023	118	30.7	78.3	52.8	8.1	
8/12/2023						101
2/13/2024	116	38.8	83.6	53.3	9.9	
2/14/2024						109
8/5/2024	113	34.7	83.3			
8/6/2024				57.2	7.1	

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-7
8/7/2024						99.2
2/12/2025	125		86.6	61.8	7.2	
2/14/2025		51.5				
2/16/2025						114

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-8	HGWC-9	HGWC-10	HGWC-11	HGWC-12	HGWC-13
5/20/2016	159					
5/23/2016		179	167	131	195	133
7/12/2016	127	174	143	124	181	101
9/1/2016	135	170	156	107	179	120
10/20/2016	134	133				
10/24/2016			156	145	193	127
12/6/2016	142	181				
12/7/2016			183	159	193	113
1/25/2017	142					
1/26/2017		175	82.6	121	172	77.9
3/21/2017	148					
3/22/2017		183	154	130	162	85.1
5/23/2017	140	181				
5/24/2017			171	117	158	77.1
10/3/2017	158	188	162	87.7	130	62
6/5/2018			167	113		110
6/6/2018	127	184			136	
10/2/2018	118	173	144			
10/3/2018				89	125	
10/5/2018						73.6
3/13/2019						77.7
4/3/2019	125	164	137	112	114	
4/5/2019						77.1
9/24/2019	113					
9/26/2019						195
9/27/2019		175	157	113	153	
3/26/2020					145	
3/27/2020	133					
3/30/2020						234
3/31/2020		182		124		
4/1/2020			96.2			
6/16/2020	120					
9/16/2020	119		139			
9/17/2020		164				
9/18/2020				122	163	
9/21/2020						173
3/12/2021			146			
3/15/2021	156					
3/16/2021		182		132	166	
3/17/2021						184
8/17/2021		183	153			
8/18/2021	147			128	163	
8/19/2021						179
2/9/2022		183	76.8	144	172	
2/10/2022	153					206
8/3/2022	153		125	131	167	237
8/4/2022		196				
1/26/2023		173		113	154	234
1/27/2023			60.4			
2/1/2023	110					
8/10/2023			155	100	156	
8/11/2023		168				

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-8	HGWC-9	HGWC-10	HGWC-11	HGWC-12	HGWC-13
8/12/2023	122					172
2/14/2024	96.2					
2/15/2024		148	68.4	125	171	
2/16/2024						152
8/7/2024	97.7	163	142	101	161	
8/8/2024						127
2/13/2025				133	160	
2/14/2025			61			
2/15/2025	83.3 (M1)	171				
2/17/2025						115

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-5	MW-6	MW-7	MW-19	MW-20	MW-24D
4/2/2019					109	
4/3/2019	82	178	50.2	74.9		
4/8/2019						83
9/25/2019	105				113	
9/26/2019		189	83.9			83.1
9/27/2019				90		
3/26/2020	89.6			171		
3/27/2020		186			126	
3/30/2020			31.1			84.4
9/17/2020	103				110	
9/21/2020		173	75.3	135		87.6
3/15/2021			76.9		121	
3/16/2021	71.8	184				
3/17/2021				130		102
8/17/2021	73.3	181	90.7		123	
8/18/2021				125		
8/19/2021						99.5
2/8/2022			73.3			
2/9/2022	68.1	178		97.6		
2/10/2022					123	110
8/3/2022	86.6	176				102
8/4/2022			73.1	187	131	
1/26/2023	76.1	180	21.6	118	122	107
8/10/2023	99.7	179	81.2	127	123	
8/12/2023						105
2/14/2024		174	25.4		128	
2/15/2024	72.9			109		84
8/7/2024	102	177			124	
8/8/2024			77	111		103
2/13/2025			91.8	111		
2/14/2025	91.2	194				
2/15/2025					141	
2/16/2025						75.4

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-25D	MW-26D	MW-27D	MW-28D	MW-29
4/2/2019				64.6	131
4/3/2019	25.4	122			
4/4/2019			26.3		
9/24/2019					140
9/26/2019		158	32.1	84	
9/27/2019	26.4				
3/26/2020	27				
3/27/2020				53	
3/30/2020					148
3/31/2020		155			
4/2/2020			28.4		
9/16/2020					126
9/17/2020		150			
9/18/2020	25.1		24.8		
9/21/2020				76.8	
3/12/2021			28		
3/15/2021				66.1	145
3/16/2021	24.8				
3/17/2021		175			
8/16/2021					140
8/17/2021		177	28.5		
8/18/2021				82.8	
8/19/2021	23.8				
2/9/2022	23.5	176			
2/10/2022			31.4	58.5	156
8/3/2022			30.8		143
8/4/2022	22	186		76.7	
1/26/2023	21.8	179		64.4	146
1/27/2023			28.1		
8/10/2023	86.1				147
8/11/2023		152		49.6	
8/12/2023			27.8		
2/14/2024				70.3	146
2/15/2024	23.5	181			
2/16/2024			26.5		
8/7/2024	20.7				
8/8/2024		161	22.4	50.8	138
2/13/2025	23				
2/14/2025		149			
2/15/2025			37.4		
2/16/2025				67.2	136

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-7
5/19/2016	9.94	6.14	5.93			
5/20/2016						50.4
7/11/2016	6.3	5.9				
7/12/2016			6.2			50
8/30/2016	6	6.2	6.4			
9/1/2016						50
10/19/2016	5.8	6.1	6.5			
10/20/2016						49
12/6/2016	5.4	6	7.2			51
1/24/2017	5.2	6.1	6.4			
1/25/2017						54
3/21/2017	4.6	5.9	7.5			46
5/22/2017	4.6	5.9	6.5			
5/23/2017						49
10/3/2017	5.6	6.3	6.5			52
6/4/2018	13.1	6.1	6.3			
6/5/2018						52.3
10/1/2018	6.6	6.4	6.4			
10/2/2018						52.6
4/1/2019			6.5			
4/2/2019	20.3	5.8				55.5
9/23/2019	17.7	5.1	5.9			
9/25/2019						49.8
3/25/2020	20.4	5.2	6.1			
3/27/2020						48.3
6/16/2020	41.1		5.8			
6/17/2020						45.2
9/15/2020	13.4	5	6			
9/16/2020				4.1	5.65 (D)	46.4
11/10/2020				4.4	7.8	
12/15/2020				4.7	9.4	
1/19/2021				4.1	9.5	
3/10/2021	7.4				12.3	
3/11/2021		5.1	5.9	4.5		
3/15/2021						44.5
8/11/2021	9.6			3.5		
8/12/2021		5.2	4.8			
8/13/2021					39.9	
8/16/2021						40.3
2/1/2022	7.5	7	5.7	4.1	44.8	
2/10/2022						39.8
8/2/2022	14.1	7.8	5.9	4.3	19.8	
8/11/2022						37.7
1/23/2023			5.6			
1/24/2023	9	7.1		4.3	24.9	
1/27/2023						40
8/8/2023	26	6.6	5.3	3.5	27	
8/12/2023						33.3
2/13/2024	10	6.3	5.3	3.9	27.7	
2/14/2024						35.8
8/5/2024	8.7	7.9	5.2			
8/6/2024				4	30.2	

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-7
8/7/2024						28.6
2/12/2025	4.8		5	3.8	30.7	
2/14/2025		8.5				
2/16/2025						30.7

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-8	HGWC-9	HGWC-10	HGWC-11	HGWC-12	HGWC-13
5/20/2016	109					
5/23/2016		152	56.1	51.9	160	93.2
7/12/2016	110	160	63	100	160	78
9/1/2016	110	160	77	58	140	100
10/20/2016	110	110				
10/24/2016			99	220	160	140
12/6/2016	100	150				
12/7/2016			96	180	190	110
1/25/2017	110					
1/26/2017		170	7	90	160	70
3/21/2017	110					
3/22/2017		160	82	37	130	59
5/23/2017	130	150				
5/24/2017			81	69	120	50
10/3/2017	130	160	100	28	93	29
6/5/2018			66.6	56.1		72.3
6/6/2018	44.8	138			46.4	
10/2/2018	89.4	142	48.3			
10/3/2018				24.8	88.4	
10/5/2018						32.3
4/3/2019	91.6	130	49.3	4.6	62.8	
4/5/2019						36.4
9/24/2019	60.2					
9/26/2019						109
9/27/2019		126	49.9	27.9	81	
3/26/2020					48	
3/27/2020	79.8					
3/30/2020						75.1
3/31/2020		105		3.2		
4/1/2020			5.4			
6/16/2020	67.9					
9/16/2020	74.6		39.7			
9/17/2020		105				
9/18/2020				34.9	74.6	
9/21/2020						41.2
3/12/2021			35			
3/15/2021	72.4					
3/16/2021		94.7		11.5	56.8	
3/17/2021						31.4
8/17/2021		88.6	28.3			
8/18/2021	50.9			19.9	47.3	
8/19/2021						24.4
2/9/2022		84.4	1.2	20.4	46.8	
2/10/2022	48.2					17.4
8/3/2022	54.1		12.3	13.8	39.2	13
8/4/2022		86.8				
1/26/2023		86.9		8.8	34.6	12.5
1/27/2023			1.6			
2/1/2023	52.4					
8/10/2023			13.4	6.5	30.6	
8/11/2023		78.9				
8/12/2023	53.1					15.3

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-8	HGWC-9	HGWC-10	HGWC-11	HGWC-12	HGWC-13
2/14/2024	32.9					
2/15/2024		83.2	2.6	14.5	37.7	
2/16/2024						16.7
8/7/2024	36.1	87.1	12.9	6.3	26.7	
8/8/2024						12.8
2/13/2025				11.7	24.3	
2/14/2025			2.1			
2/15/2025	25	81.2				
2/17/2025						13.5

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-5	MW-6	MW-7	MW-19	MW-20	MW-24D
4/2/2019					27.5	
4/3/2019	1.8	60.9	5.6	19.5		
4/8/2019						43.3
9/25/2019	35.9				25.7	
9/26/2019		64.9	15.6			39.7
9/27/2019				46.2		
3/26/2020	0.73 (J)			64		
3/27/2020		48.6			28.8	
3/30/2020			1.5			37.4
9/17/2020	28.7				29.7	
9/21/2020		58.1	11.1	35		45.2
3/15/2021			6.8		31.1	
3/16/2021	1.4	49.8				
3/17/2021				19.8		42.9
8/17/2021	1.4	43.5	8.9		28.3	
8/18/2021				14.3		
8/19/2021						37.2
2/8/2022			6.9			
2/9/2022	0.74 (J)	37.9		10.2		
2/10/2022					31.4	38.2
8/3/2022	4.4	39.6				39.6
8/4/2022			4.7	11.3	31.4	
1/26/2023	0.86 (J)	30.5	1.2	7.7	30	38
8/10/2023	0.86 (J)	26.9	3.3	11.2	28.4	
8/12/2023						35.1
2/14/2024		24.7	0.74 (J)		30.2	
2/15/2024	0.95 (J)			7.5		27.8
8/7/2024	1	18.2			29.8	
8/8/2024			1.9	13.7		38.5
2/13/2025			3.8	10.9		
2/14/2025	0.97 (J)	17.5				
2/15/2025					29.6	
2/16/2025						23.4

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-25D	MW-26D	MW-27D	MW-28D	MW-29
4/2/2019				44	80.9
4/3/2019	32	90.6			
4/4/2019			26.9		
9/24/2019					83.8
9/26/2019		118	31.8	43.5	
9/27/2019	36.2				
3/26/2020	34.6				
3/27/2020				33	
3/30/2020					71.2
3/31/2020		98			
4/2/2020			27.9		
9/16/2020					75.3
9/17/2020		103			
9/18/2020	33.4		30.4		
9/21/2020				42.9	
3/12/2021			31.3		
3/15/2021				35.8	73.6
3/16/2021	29.2				
3/17/2021		95.3			
8/16/2021					68
8/17/2021		89.2	30		
8/18/2021				33.7	
8/19/2021	30.8				
2/9/2022	26.5	85.7			
2/10/2022			31.4	29	66
8/3/2022			36.7		63.5
8/4/2022	20.5	88.5		33.3	
1/26/2023	17.2	83.6		27.7	62.4
1/27/2023			32.5		
8/10/2023	13.6				56.1
8/11/2023		87.6		17	
8/12/2023			29		
2/14/2024				23.4	56.3
2/15/2024	14	73.7			
2/16/2024			35.8		
8/7/2024	12.6				
8/8/2024		70.3	33.1	17.1	55
2/13/2025	11.5				
2/14/2025		57.8			
2/15/2025			25.2		
2/16/2025				22	51.2

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-7
5/19/2016	<0.005	<0.005	<0.005			
5/20/2016						<0.005
7/11/2016	<0.005	<0.005				
7/12/2016			<0.005			<0.005
8/30/2016	<0.005	<0.005	<0.005			
9/1/2016						<0.005
10/19/2016	<0.005	<0.005	<0.005			
10/20/2016						<0.005
12/6/2016	<0.005	<0.005	<0.005			<0.005
1/24/2017	<0.005	<0.005	<0.005			
1/25/2017						<0.005
3/21/2017	0.0005 (J)	<0.005	<0.005			<0.005
5/22/2017	<0.005	<0.005	0.0007 (J)			
5/23/2017						<0.005
4/2/2018	<0.005	<0.005				
4/3/2018			<0.005			<0.005
3/12/2019	<0.005	<0.005	<0.005			
3/13/2019						<0.005
4/1/2019			<0.005			
4/2/2019	<0.005	0.0079 (J)				<0.005
9/23/2019	<0.005	0.00058 (J)	<0.005			
9/25/2019						0.071
3/2/2020	<0.005	0.00041 (J)	<0.005			
3/4/2020						0.0016 (J)
3/25/2020	0.00072 (J)	<0.005	<0.005			
3/27/2020						0.0004 (J)
8/25/2020		0.00067 (J)	<0.005			
8/28/2020	<0.005					
9/15/2020	<0.005	<0.005	<0.005			
9/16/2020				<0.005	0.0012 (J)	0.00074 (J)
11/10/2020				<0.005	0.00089 (J)	
12/15/2020				<0.005	0.00072 (J)	
1/19/2021				<0.005	0.0011 (J)	
2/8/2021	<0.005					
2/9/2021		<0.005	<0.005	0.00095 (J)	0.00066 (J)	
2/10/2021						0.0014 (J)
3/10/2021	<0.005				<0.005	
3/11/2021		<0.005	<0.005	<0.005		
3/15/2021						0.0021 (J)
8/11/2021	<0.005			<0.005		
8/12/2021		<0.005	<0.005			
8/13/2021					0.0016 (J)	
8/16/2021						<0.005
2/1/2022	<0.005	<0.005	<0.005	<0.005	0.0013 (J)	
2/10/2022						<0.005
8/2/2022	<0.005	<0.005	<0.005	<0.005	<0.005	
8/11/2022						<0.005
1/23/2023			<0.005			
1/24/2023	<0.005	<0.005		<0.005	<0.005	
1/27/2023						0.0014 (J)
8/8/2023	<0.005	<0.005	<0.005	<0.005	<0.005	
8/12/2023						<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-7
2/13/2024	<0.005	<0.005	<0.005	<0.005	<0.005	
2/14/2024						<0.005
8/5/2024	<0.005	<0.005	<0.005			
8/6/2024				<0.005	<0.005	
8/7/2024						<0.005
2/12/2025	<0.005		<0.005	<0.005	<0.005	
2/14/2025		<0.005				
2/16/2025						<0.005

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-8	HGWC-9	HGWC-10	HGWC-11	HGWC-12	HGWC-13
5/20/2016	<0.005					
5/23/2016		<0.005	<0.005	<0.005	<0.005	<0.005
7/12/2016	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
9/1/2016	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
10/20/2016	<0.005	<0.005				
10/24/2016			<0.005	<0.005	<0.005	<0.005
12/6/2016	<0.005	<0.005				
12/7/2016			<0.005	<0.005	<0.005	<0.005
1/25/2017	<0.005					
1/26/2017		<0.005	<0.005	<0.005	<0.005	<0.005
3/21/2017	0.0005 (J)					
3/22/2017		<0.005	<0.005	0.0003 (J)	0.0004 (J)	0.0004 (J)
5/23/2017	<0.005	<0.005				
5/24/2017			<0.005	<0.005	<0.005	<0.005
4/3/2018	<0.005	<0.005				
4/4/2018			<0.005	<0.005	<0.005	<0.005
3/12/2019	<0.005					
3/13/2019		<0.005	<0.005	<0.005		<0.005
3/14/2019					0.0025 (J)	
4/3/2019	<0.005	<0.005	0.02	<0.005	<0.005	
4/5/2019						<0.005
9/24/2019	<0.005					
9/26/2019						<0.005
9/27/2019		<0.005	<0.005	<0.005	<0.005	
3/3/2020	0.0007 (J)		<0.005	0.00061 (J)	<0.005	
3/4/2020		<0.005				<0.005
3/26/2020					<0.005	
3/27/2020	<0.005					
3/30/2020						0.00059 (J)
3/31/2020		0.00052 (J)		<0.005		
4/1/2020			<0.005			
9/16/2020	0.0015 (J)		<0.005			
9/17/2020		<0.005				
9/18/2020				<0.005	0.00091 (J)	
9/21/2020						0.00056 (J)
2/12/2021				<0.005	<0.005	
2/15/2021			<0.005			
2/16/2021	<0.005	0.00067 (J)				
2/22/2021						<0.005
3/12/2021			<0.005			
3/15/2021	0.00082 (J)					
3/16/2021		<0.005		<0.005	<0.005	
3/17/2021						<0.005
8/17/2021		<0.005	<0.005			
8/18/2021	<0.005			<0.005	<0.005	
8/19/2021						<0.005
2/9/2022		0.0011 (J)	0.0011 (J)	<0.005	<0.005	
2/10/2022	<0.005					<0.005
8/3/2022	<0.005		<0.005	<0.005	<0.005	<0.005
8/4/2022		<0.005				
1/26/2023		0.0013 (J)		0.0012 (J)	<0.005	<0.005
1/27/2023			0.0012 (J)			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-8	HGWC-9	HGWC-10	HGWC-11	HGWC-12	HGWC-13
2/1/2023	<0.005					
8/10/2023			<0.005	<0.005	<0.005	
8/11/2023		<0.005				
8/12/2023	<0.005					<0.005
2/14/2024	<0.005					
2/15/2024		<0.005	<0.005	<0.005	<0.005	
2/16/2024						<0.005
8/7/2024	<0.005	<0.005	<0.005	<0.005	<0.005	
8/8/2024						<0.005
2/13/2025				<0.005	<0.005	
2/14/2025			0.0014 (J)			
2/15/2025	<0.005	<0.005				
2/17/2025						<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-5	MW-6	MW-7	MW-19	MW-20	MW-24D
3/13/2019	0.003 (J)	<0.005	<0.005		<0.005	<0.005
3/14/2019				<0.005		
4/2/2019					<0.005	
4/3/2019	0.003 (J)	<0.005	0.0023 (J)	<0.005		
4/8/2019						<0.005
9/25/2019	0.0052 (J)				<0.005	
9/26/2019		<0.005	0.0013 (J)			0.00042 (J)
9/27/2019				<0.005		
3/2/2020	0.0042 (J)				0.00071 (J)	
3/3/2020		0.00044 (J)	0.0015 (J)			
3/4/2020				0.00066 (J)		<0.005
3/26/2020	0.0044 (J)			0.00047 (J)		
3/27/2020		0.00059 (J)			0.00051 (J)	
3/30/2020			0.0021 (J)			<0.005
9/17/2020	0.0021 (J)				<0.005	
9/21/2020		<0.005	0.0017 (J)	0.0014 (J)		<0.005
2/11/2021					<0.005	
2/12/2021				0.00059 (J)		
2/15/2021			0.0015 (J)			
2/16/2021	0.0032 (J)	<0.005				<0.005
3/15/2021			0.0018 (J)		0.00068 (J)	
3/16/2021	0.0024 (J)	<0.005				
3/17/2021				0.0022 (J)		0.0017 (J)
8/17/2021	0.0018 (J)	<0.005	<0.005		<0.005	
8/18/2021				<0.005		
8/19/2021						<0.005
2/8/2022			0.0016 (J)			
2/9/2022	0.0031 (J)	<0.005		<0.005		
2/10/2022					<0.005	<0.005
8/3/2022	0.0015 (J)	<0.005				<0.005
8/4/2022			0.002 (J)	<0.005	<0.005	
1/26/2023	0.0032 (J)	0.0014 (J)	0.0017 (J)	0.0011 (J)	<0.005	<0.005
8/10/2023	0.002 (J)	<0.005	0.0015 (J)	<0.005	<0.005	
8/12/2023						<0.005
2/14/2024		<0.005	<0.005		<0.005	
2/15/2024	0.0029 (J)			<0.005		<0.005
8/7/2024	<0.005	<0.005			<0.005	
8/8/2024			<0.005	<0.005		<0.005
2/13/2025			0.0016 (J)	<0.005		
2/14/2025	0.0023 (J)	<0.005				
2/15/2025					<0.005	
2/16/2025						<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-25D	MW-26D	MW-27D	MW-28D	MW-29
3/12/2019				<0.005	<0.005
3/13/2019		<0.005	<0.005		
3/14/2019	<0.005				
4/2/2019				<0.005	<0.005
4/3/2019	<0.005	<0.005			
4/4/2019			<0.005		
9/24/2019					<0.005
9/26/2019		0.00076 (J)	<0.005	0.00081 (J)	
9/27/2019	<0.005				
3/2/2020					<0.005
3/3/2020	<0.005				
3/4/2020		0.0028 (J)	<0.005	0.0027 (J)	
3/26/2020	0.00061 (J)				
3/27/2020				<0.005	
3/30/2020					0.001 (J)
3/31/2020		0.001 (J)			
4/2/2020			<0.005		
9/16/2020					<0.005
9/17/2020		<0.005			
9/18/2020	<0.005		0.0007 (J)		
9/21/2020				0.00085 (J)	
2/10/2021				0.0014 (J)	
2/12/2021	<0.005				
2/15/2021					<0.005
2/16/2021		0.001 (J)	0.00082 (J)		
3/12/2021			<0.005		
3/15/2021				0.00078 (J)	<0.005
3/16/2021	<0.005				
3/17/2021		0.0015 (J)			
8/16/2021					<0.005
8/17/2021		<0.005	<0.005		
8/18/2021				<0.005	
8/19/2021	<0.005				
2/9/2022	<0.005	<0.005			
2/10/2022			<0.005	0.0011 (J)	<0.005
8/3/2022			<0.005		<0.005
8/4/2022	<0.005	<0.005		<0.005	
1/26/2023	0.0012 (J)	<0.005		<0.005	<0.005
1/27/2023			<0.005		
8/10/2023	<0.005				<0.005
8/11/2023		<0.005		<0.005	
8/12/2023			<0.005		
2/14/2024				<0.005	<0.005
2/15/2024	<0.005	<0.005			
2/16/2024			<0.005		
8/7/2024	<0.005				
8/8/2024		<0.005	<0.005	<0.005	<0.005
2/13/2025	<0.005				
2/14/2025		<0.005			
2/15/2025			<0.005		
2/16/2025				<0.005	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-7
5/19/2016	<0.005	0.0293	<0.005			
5/20/2016						<0.005
7/11/2016	0.0004 (J)	0.0267				
7/12/2016			<0.005			0.0003 (J)
8/30/2016	<0.005	0.028	<0.005			
9/1/2016						<0.005
10/19/2016	<0.005	0.0201	<0.005			
10/20/2016						0.0008 (J)
12/6/2016	<0.005	0.0184	<0.005			0.0009 (J)
1/24/2017	<0.005	0.0206	<0.005			
1/25/2017						0.0005 (J)
3/21/2017	<0.005	0.0251	<0.005			0.0005 (J)
5/22/2017	<0.005	0.0263	<0.005			
5/23/2017						0.0005 (J)
4/2/2018	<0.005	0.019				
4/3/2018			<0.005			<0.005
6/4/2018	<0.005	0.025	<0.005			
6/5/2018						0.00074 (J)
10/1/2018	<0.005	0.026	<0.005			
10/2/2018						0.00091 (J)
3/12/2019	<0.005	0.017	<0.005			
3/13/2019						0.00067 (J)
4/1/2019			<0.005			
4/2/2019	<0.005	0.019				0.00069 (J)
9/23/2019	<0.005	0.038	<0.005			
9/25/2019						0.0026 (J)
3/2/2020	<0.005	0.019	<0.005			
3/4/2020						0.0011 (J)
3/25/2020	<0.005	0.02	<0.005			
3/27/2020						0.00074 (J)
8/25/2020		0.018	<0.005			
8/28/2020	<0.005					
9/15/2020	<0.005	0.021	<0.005			
9/16/2020				<0.005	<0.005	0.00065 (J)
11/10/2020				<0.005	<0.005	
12/15/2020				<0.005	<0.005	
1/19/2021				<0.005	<0.005	
2/8/2021	<0.005					
2/9/2021		0.02	<0.005	<0.005	<0.005	
2/10/2021						0.00081 (J)
3/10/2021	<0.005				<0.005	
3/11/2021		0.013	<0.005	<0.005		
3/15/2021						0.0014 (J)
8/11/2021	<0.005			<0.005		
8/12/2021		0.022	<0.005			
8/13/2021					<0.005	
8/16/2021						0.0012 (J)
2/1/2022	<0.005	0.025	<0.005	<0.005	<0.005	
2/10/2022						0.0011 (J)
8/2/2022	0.00054 (J)	0.024	<0.005	<0.005	<0.005	
8/11/2022						0.0018 (J)
1/23/2023			<0.005			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-7
1/24/2023	<0.005	0.024		<0.005	<0.005	
1/27/2023						0.00067 (J)
8/8/2023	0.0008 (J)	0.029	<0.005	<0.005	<0.005	
8/12/2023						0.00061 (J)
2/13/2024	<0.005	0.022	<0.005	<0.005	<0.005	
2/14/2024						0.00084 (J)
8/5/2024	0.00055 (J)	0.032	<0.005			
8/6/2024				<0.005	<0.005	
8/7/2024						0.00043 (J)
2/12/2025	<0.005		<0.005	<0.005	<0.005	
2/14/2025		0.03				
2/16/2025						<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-8	HGWC-9	HGWC-10	HGWC-11	HGWC-12	HGWC-13
5/20/2016	0.00207 (J)					
5/23/2016		<0.005	<0.005	<0.005	<0.01	0.00361 (J)
7/12/2016	0.0019 (J)	0.0006 (J)	0.0006 (J)	0.0021 (J)	0.0018 (J)	0.0032 (J)
9/1/2016	0.0023 (J)	0.0007 (J)	0.0007 (J)	0.0025 (J)	0.0016 (J)	0.0033 (J)
10/20/2016	0.002 (J)	0.002 (J)				
10/24/2016			0.0009 (J)	0.0032 (J)	0.0017 (J)	0.004 (J)
12/6/2016	0.0026 (J)	0.0011 (J)				
12/7/2016			0.0012 (J)	0.003 (J)	0.0021 (J)	0.0034 (J)
1/25/2017	0.002 (J)					
1/26/2017		0.0006 (J)	<0.005	0.0014 (J)	0.0016 (J)	0.0024 (J)
3/21/2017	0.0023 (J)					
3/22/2017		0.0005 (J)	0.0006 (J)	0.0014 (J)	0.0018 (J)	0.0026 (J)
5/23/2017	0.0023 (J)	0.0006 (J)				
5/24/2017			0.0006 (J)	0.0008 (J)	0.0015 (J)	0.0022 (J)
4/3/2018	<0.025	<0.005				
4/4/2018			<0.005	<0.005	<0.01	<0.01
6/5/2018			<0.005	0.00061 (J)		0.0023 (J)
6/6/2018	0.0017 (J)	0.00056 (J)			0.0012 (J)	
10/2/2018	0.0016 (J)	<0.005	<0.005			
10/3/2018				<0.005	0.0011 (J)	
10/5/2018						0.0015 (J)
3/12/2019	0.002 (J)					
3/13/2019		0.00065 (J)	<0.005	0.00098 (J)		0.0022 (J)
3/14/2019					0.0011 (J)	
4/3/2019	0.0019 (J)	0.00069 (J)	<0.005	0.0018 (J)	0.0011 (J)	
4/5/2019						0.0017 (J)
9/24/2019	0.0015 (J)					
9/26/2019						0.0042 (J)
9/27/2019		0.00057 (J)	<0.005	0.00071 (J)	0.0012 (J)	
3/3/2020	0.002 (J)		<0.005	0.00087 (J)	0.0013 (J)	
3/4/2020		0.00053 (J)				0.0066
3/26/2020					0.0012 (J)	
3/27/2020	0.0018 (J)					
3/30/2020						0.0053
3/31/2020		0.00051 (J)		0.0014 (J)		
4/1/2020			<0.005			
9/16/2020	0.0019 (J)		<0.005			
9/17/2020		0.0007 (J)				
9/18/2020				<0.005	0.0014 (J)	
9/21/2020						0.0032 (J)
2/12/2021				<0.005	0.0012 (J)	
2/15/2021			<0.005			
2/16/2021	0.002 (J)	0.00061 (J)				
2/22/2021						0.003 (J)
3/12/2021			<0.005			
3/15/2021	0.0019 (J)					
3/16/2021		0.00069 (J)		<0.005	0.0012 (J)	
3/17/2021						0.0029 (J)
8/17/2021		0.00045 (J)	<0.005			
8/18/2021	0.002 (J)			<0.005	0.0012 (J)	
8/19/2021						0.0024 (J)
2/9/2022		0.00051 (J)	<0.005	<0.005	0.0013 (J)	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-8	HGWC-9	HGWC-10	HGWC-11	HGWC-12	HGWC-13
2/10/2022	0.0021 (J)					0.0026 (J)
8/3/2022	0.0024 (J)		<0.005	<0.005	0.0012 (J)	0.0041 (J)
8/4/2022		0.00046 (J)				
1/26/2023		0.00068 (J)		<0.005	0.0012 (J)	0.012
1/27/2023			<0.005			
2/1/2023	<0.025					
8/10/2023			<0.005	<0.005	0.0012 (J)	
8/11/2023		0.00057 (J)				
8/12/2023	0.0016 (J)					0.018
2/14/2024	0.0016 (J)					
2/15/2024		0.001 (J)	<0.005	<0.005	0.0013 (J)	
2/16/2024						0.023
8/7/2024	0.0016 (J)	0.00066 (J)	<0.005	<0.005	0.0011 (J)	
8/8/2024						0.016
2/13/2025				<0.005	0.0015 (J)	
2/14/2025			<0.005			
2/15/2025	0.0021 (J)	<0.005				
2/17/2025						0.0087

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-5	MW-6	MW-7	MW-19	MW-20	MW-24D
3/13/2019	<0.005	0.00055 (J)	<0.005		0.0011 (J)	<0.005
3/14/2019				0.025		
4/2/2019					<0.005	
4/3/2019	<0.005	<0.005	<0.005	0.036		
4/8/2019						0.00025 (J)
9/25/2019	<0.005				<0.005	
9/26/2019		0.00036 (J)	<0.005			0.0011 (J)
9/27/2019				0.033		
3/2/2020	<0.005				<0.005	
3/3/2020		0.00094 (J)	<0.005			
3/4/2020				0.048		0.00056 (J)
3/26/2020	<0.005			0.045		
3/27/2020		0.00059 (J)			<0.005	
3/30/2020			<0.005			<0.005
9/17/2020	<0.005				<0.005	
9/21/2020		0.00041 (J)	<0.005	0.032		<0.005
2/11/2021					<0.005	
2/12/2021				0.037		
2/15/2021			<0.005			
2/16/2021	<0.005	0.00045 (J)				<0.005
3/15/2021			<0.005		<0.005	
3/16/2021	<0.005	0.00042 (J)				
3/17/2021				0.037		<0.005
8/17/2021	<0.005	<0.005	<0.005		<0.005	
8/18/2021				0.039		
8/19/2021						<0.005
2/8/2022			<0.005			
2/9/2022	<0.005	0.00059 (J)		0.03		
2/10/2022					<0.005	<0.005
8/3/2022	<0.005	0.00041 (J)				<0.005
8/4/2022			<0.005	0.043	<0.005	
1/26/2023	<0.005	0.00044 (J)	<0.005	0.022	<0.005	<0.005
8/10/2023	<0.005	0.00041 (J)	<0.005	0.027	<0.005	
8/12/2023						<0.005
2/14/2024		0.00035 (J)	<0.005		<0.005	
2/15/2024	<0.005			0.011		<0.005
8/7/2024	<0.005	0.00049 (J)			<0.005	
8/8/2024			<0.005	0.02		<0.005
2/13/2025			<0.005	0.017		
2/14/2025	<0.005	<0.005				
2/15/2025					<0.005	
2/16/2025						<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-25D	MW-26D	MW-27D	MW-28D	MW-29
3/12/2019				<0.005	0.00057 (J)
3/13/2019		<0.005	<0.005		
3/14/2019	<0.005				
4/2/2019				<0.005	0.00084 (J)
4/3/2019	<0.005	<0.005			
4/4/2019			9.1E-05 (J)		
9/24/2019					0.0015 (J)
9/26/2019		0.00053 (J)	<0.005	<0.005	
9/27/2019	<0.005				
3/2/2020					0.00067 (J)
3/3/2020	<0.005				
3/4/2020		<0.005	0.00045 (J)	0.00093 (J)	
3/26/2020	<0.005				
3/27/2020				<0.005	
3/30/2020					0.00063 (J)
3/31/2020		0.0003 (J)			
4/2/2020			<0.005		
9/16/2020					0.0013 (J)
9/17/2020		<0.005			
9/18/2020	<0.005		<0.005		
9/21/2020				<0.005	
2/10/2021				<0.005	
2/12/2021	<0.005				
2/15/2021					0.00097 (J)
2/16/2021		0.00045 (J)	0.0004 (J)		
3/12/2021			<0.005		
3/15/2021				<0.005	0.0011 (J)
3/16/2021	<0.005				
3/17/2021		0.00044 (J)			
8/16/2021					0.0014 (J)
8/17/2021		0.00045 (J)	<0.005		
8/18/2021				<0.005	
8/19/2021	<0.005				
2/9/2022	<0.005	0.00059 (J)			
2/10/2022			<0.005	<0.005	0.00089 (J)
8/3/2022			<0.005		0.0012 (J)
8/4/2022	<0.005	0.00048 (J)		<0.005	
1/26/2023	<0.005	0.00051 (J)		<0.005	0.00056 (J)
1/27/2023			<0.005		
8/10/2023	<0.005				<0.005
8/11/2023		<0.005		<0.005	
8/12/2023			<0.005		
2/14/2024				<0.005	0.00052 (J)
2/15/2024	<0.005	0.00054 (J)			
2/16/2024			<0.005		
8/7/2024	<0.005				
8/8/2024		0.00056 (J)	<0.005	<0.005	0.00078 (J)
2/13/2025	<0.005				
2/14/2025		<0.005			
2/15/2025			<0.005		
2/16/2025				<0.005	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-7
5/19/2016	0.397	0.627	0.342			
5/20/2016						0.62
7/11/2016	0.738	1.38				
7/12/2016			0.499			0.283
8/30/2016	0.581	1.05	0.976			
9/1/2016						0.703
10/19/2016	0.213	1.11	0.626			
10/20/2016						1.97
12/6/2016	0.444	0.741	0.805			2
1/24/2017	0.373	0.908	0.336			
1/25/2017						1.06
3/21/2017	0.816	0.567	0.358			0.668
5/22/2017	0.554 (U)	0.638 (U)	0.744 (U)			
5/23/2017						0.621 (U)
4/2/2018	0.405	0.761				
4/3/2018			0.684			0.538
6/4/2018	1.13 (U)	0.975 (U)	0.0291 (U)			
6/5/2018						0.985 (U)
10/1/2018	0.132 (U)	0.434 (U)	0.781 (U)			
10/2/2018						0.837 (U)
3/12/2019	0.327 (U)	0.454 (U)	1.01 (U)			
3/13/2019						0.403 (U)
4/1/2019			0.76 (U)			
4/2/2019	0.739 (U)	0.651 (U)				0.865 (U)
9/25/2019						0.884 (U)
9/30/2019	0.306 (U)	1.04 (U)	0.384 (U)			
3/2/2020	0.61 (U)	1.58	0.249 (U)			
3/4/2020						0.624 (U)
3/25/2020	4.36	0.621 (U)	0.833 (U)			
3/27/2020						0.485 (U)
8/25/2020		0.778 (U)	0.33 (U)			
8/28/2020	0 (U)					
9/15/2020	0.748 (U)	0.124 (U)	0.161 (U)			
9/16/2020				0.531 (U)	0.422 (U)	0.135 (U)
11/10/2020				0.788 (U)	0.293 (U)	
12/15/2020				1.04 (U)	0.7 (U)	
1/19/2021				0.685 (U)	0.79 (U)	
2/8/2021	0.223 (U)					
2/9/2021		0.721 (U)	0.447 (U)	0.138 (U)	0.486 (U)	
2/10/2021						0.281 (U)
3/10/2021	0 (U)				0.811 (U)	
3/11/2021		0.737 (U)	0.128 (U)	1.51 (U)		
3/15/2021						0.666 (U)
8/11/2021	0.115 (U)			0.394 (U)		
8/12/2021		0.746 (U)	0.4435 (UD)			
8/13/2021					1.0795 (UD)	
8/16/2021						0.143 (U)
2/1/2022	0.143 (U)	0.588 (U)	0.266 (U)	1.12	0.665 (U)	
2/10/2022						0.175 (U)
8/2/2022	0.203 (U)	0.861 (U)	0.4 (U)	0.662 (U)	0.952 (U)	
8/11/2022						0.461 (U)
1/23/2023			0.311 (U)			

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-7
1/24/2023	0.549 (U)	0.829 (U)		1.25	0.421 (U)	
1/27/2023						0.45 (U)
8/8/2023	0.195 (U)	0.175 (U)	0.411 (U)	0.503 (U)	0.163 (U)	
8/12/2023						0.729 (U)
2/13/2024	0.194 (U)	0.325 (U)	0.213 (U)	0.86 (U)	0.909	
2/14/2024						0.401 (U)
8/5/2024	0.64 (U)	1.27	0.371 (U)			
8/6/2024				0.674 (U)	0.529 (U)	
8/7/2024						0.611 (U)
2/12/2025	0.624 (U)			0.624 (U)	0.622 (U)	
2/14/2025		1.2 (U)	0.606 (U)			
2/16/2025						0.349 (U)

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-8	HGWC-9	HGWC-10	HGWC-11	HGWC-12	HGWC-13
5/20/2016	0.56					
5/23/2016		0.826	0.419	0.509	1.12	0.625
7/12/2016	0.636	0.511	0.855	0.784	1.61	0.478
9/1/2016	0.818	0.762	0.844	0.261	1.23	0.595
10/20/2016	1.04	1.17				
10/24/2016			0.917	1.42	1.98	1.54
12/6/2016	0.771	0.126				
12/7/2016			0.558	0.781	0.319	0.657
1/25/2017	0.859					
1/26/2017		0.515	0.922	0.842	0.54	1.22
3/21/2017	0.851					
3/22/2017		0.451	0.751	0.318	0.635	0.285
5/23/2017	0.705 (U)	0.924 (U)				
5/24/2017			0.725 (U)	0.687 (U)	1.01	0.655 (U)
4/3/2018	0.311	0.732				
4/4/2018			0.715	1.5	0.956	0.882 (U)
6/5/2018			0.718 (U)	0.549 (U)		1.1 (U)
6/6/2018	0.896 (U)	0.813 (U)			0.424 (U)	
10/2/2018	1.21	0.61 (U)	0.948			
10/3/2018				1.48	0.57 (U)	
10/5/2018						0.558 (U)
3/12/2019	0.544 (U)					
3/13/2019		1 (U)	1.19 (U)	0.584 (U)		0.39 (U)
3/14/2019					0.992 (U)	
4/3/2019	0.885 (U)	0.156 (U)	1.82 (U)	0.36 (U)	0.734 (U)	
4/5/2019						0.422 (U)
9/24/2019	1.3					
9/26/2019						0.939 (U)
9/27/2019		0.428 (U)	1.16 (U)	1.78	0.958 (U)	
3/3/2020	0.835 (U)		0.667 (U)	0.716 (U)	0.971 (U)	
3/4/2020		1.03				0.708 (U)
3/26/2020					0.209 (U)	
3/27/2020	1.04 (U)					
3/30/2020						0.602 (U)
3/31/2020		1.2 (U)		1.3 (U)		
4/1/2020			0.235 (U)			
9/16/2020	0.526 (U)		0 (U)			
9/17/2020		1.38 (U)				
9/18/2020				1.24 (U)	0.916 (U)	
9/21/2020						1.53
2/12/2021				1.1	0.236 (U)	
2/15/2021			1.91			
2/16/2021	0.764 (U)	1.17 (U)				
2/22/2021						1.02
3/12/2021			1.12 (U)			
3/15/2021	1.3 (U)					
3/16/2021		0.446 (U)		1.71	0.245 (U)	
3/17/2021						1.45 (U)
8/17/2021		0.771 (U)	0.595 (U)			
8/18/2021	1.02 (U)			0.919 (U)	0.919 (U)	
8/19/2021						0.764 (U)
2/9/2022		0.198 (U)	0.49 (U)	0.444 (U)	0.564 (U)	

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-8	HGWC-9	HGWC-10	HGWC-11	HGWC-12	HGWC-13
2/10/2022	0.945 (U)					0.442 (U)
8/3/2022	0.455 (U)		0.454 (U)	0.823 (U)	0.418 (U)	0.54 (U)
8/4/2022		0.597 (U)				
1/26/2023		0.516 (U)		0.441 (U)	0.877	0.719
1/27/2023			1.2			
2/1/2023	0.241 (U)					
8/10/2023			0.831 (U)	0.273 (U)	0.453 (U)	
8/11/2023		0.867 (U)				
8/12/2023	0.767 (U)					0.58 (U)
2/14/2024	0.529 (U)					
2/15/2024		0.461 (U)	0.31 (U)	0.819 (U)	0.364 (U)	
2/16/2024						0.338 (U)
8/7/2024	0.556 (U)	0.502 (U)	0.268 (U)	0.874 (U)	0.455 (U)	
8/8/2024						0.561 (U)
2/13/2025				0.491 (U)	0.725 (U)	
2/14/2025			0.372 (U)			
2/15/2025	0.363 (U)	0.324 (U)				
2/17/2025						1.01 (U)

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-5	MW-6	MW-7	MW-19	MW-20	MW-24D
3/13/2019	0.621 (U)	2.07	1.23		0.538 (U)	0.311 (U)
3/14/2019				0.347 (U)		
4/2/2019					1.02 (U)	
4/3/2019	0.932 (U)	0.872 (U)	1.05 (U)	0.884 (U)		
4/8/2019						0.573 (U)
9/25/2019	0.798 (U)				1.35 (U)	
9/26/2019		0.745 (U)	0.947 (U)			0.878 (U)
9/27/2019				0.534 (U)		
3/2/2020	0.964 (U)				0.653 (U)	
3/3/2020		0.757 (U)	1.15			
3/4/2020				1.04		0.333 (U)
3/26/2020	1.1			1.1 (U)		
3/27/2020		0.758 (U)			0.1 (U)	
3/30/2020			0.83 (U)			0.107 (U)
9/17/2020	0.618 (U)				0.469 (U)	
9/21/2020		0.796 (U)	1.55 (U)	1.36 (U)		1.23 (U)
2/11/2021					0.334 (U)	
2/12/2021				0.764 (U)		
2/15/2021			0.892 (U)			
2/16/2021	0.466 (U)	0.198 (U)				0.156 (U)
3/15/2021			0.386 (U)		1.24 (U)	
3/16/2021	1.22	0.727 (U)				
3/17/2021				0.466 (U)		0.174 (U)
8/17/2021	0.304 (U)	0.557 (U)	0.183 (U)		0.709 (U)	
8/18/2021				0.642 (U)		
8/19/2021						0.227 (U)
2/8/2022			0.417 (U)			
2/9/2022	0.567 (U)	0.619 (U)		0.245 (U)		
2/10/2022					0.32 (U)	0.178 (U)
8/3/2022	0.63 (U)	0.543 (U)				0.263 (U)
8/4/2022			1.18 (U)	0.509 (U)	1.05 (U)	
1/26/2023	0.909	0.493 (U)	0.318 (U)	0.333 (U)	0.561 (U)	0.0906 (U)
8/10/2023	0.599 (U)	0.839 (U)	0.239 (U)	0.437 (U)	0.469 (U)	
8/12/2023						0.481 (U)
2/14/2024		0.441 (U)	0.089 (U)		0.341 (U)	
2/15/2024	0.463 (U)			0.459 (U)		0.5 (U)
8/7/2024	0.584 (U)	0.606 (U)			0.54 (U)	
8/8/2024			0.382 (U)	0.44 (U)		0.338 (U)
2/13/2025			0.593 (U)	0.709 (U)		
2/14/2025	0.517 (U)	0.935 (U)				
2/15/2025					1.21 (U)	
2/16/2025						0.271 (U)

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-25D	MW-26D	MW-27D	MW-28D	MW-29
3/12/2019				0.926 (U)	1.37
3/13/2019		0.627 (U)	1.81		
3/14/2019	1.28 (U)				
4/2/2019				0.479 (U)	0.62 (U)
4/3/2019	0.662 (U)	0.205 (U)			
4/4/2019			1.33		
9/24/2019					0.675 (U)
9/26/2019		0.912 (U)	0.974 (U)	0.997 (U)	
9/27/2019	0.945 (U)				
3/2/2020					0.413 (U)
3/3/2020	1.36				
3/4/2020		1.27 (U)	1.12	1.31	
3/26/2020	0.793 (U)				
3/27/2020				1.59	
3/30/2020					0.885 (U)
3/31/2020		1.65			
4/2/2020			2.48		
9/16/2020					0.193 (U)
9/17/2020		0.42 (U)			
9/18/2020	1.17 (U)		1.13 (U)		
9/21/2020				1.39 (U)	
2/10/2021				0.201 (U)	
2/12/2021	1.17				
2/15/2021					1.17 (U)
2/16/2021		0.505 (U)	1.21		
3/12/2021			0.649 (U)		
3/15/2021				0.564 (U)	0.436 (U)
3/16/2021	0.742 (U)				
3/17/2021		0.165 (U)			
8/16/2021					0.208 (U)
8/17/2021		0.0468 (U)	1.06 (U)		
8/18/2021				0.876 (U)	
8/19/2021	0.935 (U)				
2/9/2022	0.754 (U)	0.0677 (U)			
2/10/2022			0.809 (U)	1.96 (U)	0.594 (U)
8/3/2022			0.685 (U)		0.581 (U)
8/4/2022	1.65	0.0273 (U)		0.84 (U)	
1/26/2023	1.1	0.386 (U)		0.821	0.793 (U)
1/27/2023			1.1		
8/10/2023	0.972				0.244 (U)
8/11/2023		0.55 (U)		2.66	
8/12/2023			0.645 (U)		
2/14/2024				0.79 (U)	0.0655 (U)
2/15/2024	0.938	0.418 (U)			
2/16/2024			1.31		
8/7/2024	1.38				
8/8/2024		0.524 (U)	0.461 (U)	2.82	0.393 (U)
2/13/2025	1.21				
2/14/2025		0.294 (U)			
2/15/2025			0.666 (U)		
2/16/2025				1.03 (U)	1 (U)

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-7
5/19/2016	0.105 (J)	0.0303 (J)	0.0513 (J)			
5/20/2016						0.0828 (J)
7/11/2016	0.16 (J)	0.05 (J)				
7/12/2016			0.12 (J)			0.2 (J)
8/30/2016	0.09 (J)	0.06 (J)	0.09 (J)			
9/1/2016						0.51
10/19/2016	0.1 (J)	0.04 (J)	0.1 (J)			
10/20/2016						0.4
12/6/2016	0.11 (J)	0.36	0.21 (J)			0.26 (J)
1/24/2017	0.09 (J)	<0.1	0.06 (J)			
1/25/2017						0.24 (J)
3/21/2017	0.13 (J)	<0.1	0.005 (J)			0.13 (J)
5/22/2017	0.12 (J)	<0.1	0.05 (J)			
5/23/2017						0.11 (J)
10/3/2017	0.13 (J)	<0.1	0.13 (J)			0.17 (J)
4/2/2018	<0.3	<0.1				
4/3/2018			<0.1			<0.3
6/4/2018	0.074 (J)	<0.1	<0.1			
6/5/2018						0.099 (J)
10/1/2018	<0.3	<0.1	<0.1			
10/2/2018						<0.3
3/12/2019	0.29 (J)	0.038 (J)	0.072 (J)			
3/13/2019						0.12 (J)
4/1/2019			0.029 (J)			
4/2/2019	0.1 (J)	0.071 (J)				0.097 (J)
9/23/2019	0.078 (J)	<0.1	<0.1			
9/25/2019						0.1 (J)
3/2/2020	0.076 (J)	<0.1	<0.1			
3/4/2020						0.077 (J)
3/25/2020	0.098 (J)	<0.1	<0.1			
3/27/2020						0.059 (J)
6/16/2020	0.071 (J)		<0.1			
6/17/2020						0.077 (J)
8/25/2020		<0.1	<0.1			
8/28/2020	0.08 (J)					
9/15/2020	0.082 (J)	<0.1	<0.1			
9/16/2020				0.22	0.37 (D)	0.081 (J)
11/10/2020				0.19	0.59	
12/15/2020				0.21	0.67	
1/19/2021				0.16	0.74	
2/8/2021	0.078 (J)					
2/9/2021		<0.1	0.074 (J)	0.19	0.44	
2/10/2021						0.085 (J)
3/10/2021	0.079 (J)				0.65	
3/11/2021		0.1	<0.1	0.2		
3/15/2021						0.086 (J)
8/11/2021	0.058 (J)			0.15		
8/12/2021		<0.1	<0.1			
8/13/2021					0.87	
8/16/2021						0.084 (J)
2/1/2022	0.064 (J)	<0.1	<0.1	0.19	0.96	
2/10/2022						0.083 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-7
8/2/2022	0.09 (J)	0.053 (J)	0.067 (J)	0.22	0.8	
8/11/2022						0.11
1/23/2023			0.061 (J)			
1/24/2023	0.089 (J)	0.053 (J)		0.23	1.3	
1/27/2023						0.1
8/8/2023	0.088 (J)	0.07 (J)	0.055 (J)	0.18	1.3	
8/12/2023						0.071 (J)
2/13/2024	0.071 (J)	0.17	<0.1	0.2	1.5	
2/14/2024						0.081 (J)
8/5/2024	0.11	0.12	0.077 (J)			
8/6/2024				0.21	1.3	
8/7/2024						0.074 (J)
2/12/2025	0.1		0.073 (J)	0.21	1.1	
2/14/2025		0.1				
2/16/2025						0.056 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-8	HGWC-9	HGWC-10	HGWC-11	HGWC-12	HGWC-13
5/20/2016	0.499					
5/23/2016		<0.3	0.0394 (J)	0.203 (J)	0.212 (J)	0.2587 (J)
7/12/2016	0.67	0.24 (J)	0.15 (J)	0.44	0.31	0.53
9/1/2016	0.94	0.46	0.5	0.67	0.62	0.74
10/20/2016	0.56	0.56				
10/24/2016			0.06 (J)	0.26 (J)	0.19 (J)	0.31
12/6/2016	0.76	0.31				
12/7/2016			0.44	0.55	0.73	1
1/25/2017	1.1					
1/26/2017		0.004 (J)	0.29 (J)	0.27 (J)	0.12 (J)	0.68
3/21/2017	0.46					
3/22/2017		0.28 (J)	0.34	0.66	0.44	0.76
5/23/2017	0.65	0.29 (J)				
5/24/2017			0.13 (J)	0.35	0.34	0.54
10/3/2017	0.66	0.53	0.46	0.56	0.58	0.83
4/3/2018	0.39	<0.3				
4/4/2018			<0.1	0.39	<0.3	0.65
6/5/2018			<0.1	0.24 (J)		0.47
6/6/2018	0.46	0.12 (J)			0.21 (J)	
10/2/2018	0.51	0.031 (J)	0.17 (J)			
10/3/2018				0.31	0.15 (J)	
10/5/2018						0.77
3/12/2019	0.58					
3/13/2019		0.14 (J)	0.17 (J)	0.51		0.78
3/14/2019					1.1	
4/3/2019	0.63	0.14 (J)	0.082 (J)	0.43	0.3 (J)	
4/5/2019						0.83
9/24/2019	0.49					
9/26/2019						0.64
9/27/2019		0.26 (J)	0.17 (J)	0.42	0.26 (J)	
3/3/2020	0.45		0.11 (J)	0.24 (J)	0.21 (J)	
3/4/2020		0.08 (J)				0.37
3/26/2020					0.17 (J)	
3/27/2020	0.46					
3/30/2020						0.44
3/31/2020		0.074 (J)		0.19 (J)		
4/1/2020			0.12 (J)			
6/16/2020	0.45					
9/16/2020	0.53		<0.1			
9/17/2020		0.1				
9/18/2020				0.15	0.15	
9/21/2020						0.44
2/12/2021				0.17	0.19	
2/15/2021			0.08 (J)			
2/16/2021	0.47	0.096 (J)				
2/22/2021						0.55
3/12/2021			0.054 (J)			
3/15/2021	0.51					
3/16/2021		0.098 (J)		0.21	0.2	
3/17/2021						0.65
8/17/2021		0.095 (J)	<0.1			
8/18/2021	0.41			0.21	0.15	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-8	HGWC-9	HGWC-10	HGWC-11	HGWC-12	HGWC-13
8/19/2021						0.53
2/9/2022		0.1	0.12	0.2	0.2	
2/10/2022	0.42					0.53
8/3/2022	0.44		0.13	0.22	0.21	0.55
8/4/2022		0.13				
1/26/2023		0.11		0.2	0.21	0.4
1/27/2023			0.16			
2/1/2023	0.4					
8/10/2023			0.05 (J)	0.15	0.17	
8/11/2023		0.12				
8/12/2023	0.59					0.32
2/14/2024	0.3					
2/15/2024		0.087 (J)	0.12	0.21	0.19	
2/16/2024						0.33
8/7/2024	0.37	0.084 (J)	0.075 (J)	0.11	0.17	
8/8/2024						0.38
2/13/2025				0.3 (M1)	0.24	
2/14/2025			0.086 (J)			
2/15/2025	0.24	0.071 (J)				
2/17/2025						0.4

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-5	MW-6	MW-7	MW-19	MW-20	MW-24D
3/13/2019	0.1 (J)	0.19 (J)	0.069 (J)		0.072 (J)	0.074 (J)
3/14/2019				0.35		
4/2/2019					<0.1	
4/3/2019	0.049 (J)	0.15 (J)	<0.1	0.19 (J)		
4/8/2019						0.048 (J)
9/25/2019	0.076 (J)				<0.1	
9/26/2019		0.19 (J)	0.17 (J)			0.18 (J)
9/27/2019				0.53		
3/2/2020	0.065 (J)				<0.1	
3/3/2020		0.062 (J)	<0.1			
3/4/2020				0.096 (J)		0.051 (J)
3/26/2020	0.082 (J)			0.12 (J)		
3/27/2020		<0.1			<0.1	
3/30/2020			<0.1			0.064 (J)
9/17/2020	0.094 (J)				<0.1	
9/21/2020		<0.1	<0.1	0.17		<0.1
2/11/2021					<0.1	
2/12/2021				0.16		
2/15/2021			<0.1			
2/16/2021	0.051 (J)	0.059 (J)				<0.1
3/15/2021			<0.1		<0.1	
3/16/2021	<0.1	0.06 (J)				
3/17/2021				0.18		<0.1
8/17/2021	<0.1	0.055 (J)	<0.1		<0.1	
8/18/2021				0.12		
8/19/2021						<0.1
2/8/2022			<0.1			
2/9/2022	0.056 (J)	0.059 (J)		0.076 (J)		
2/10/2022					<0.1	0.051 (J)
8/3/2022	0.094 (J)	0.085 (J)				0.075 (J)
8/4/2022			0.078 (J)	0.18	0.074 (J)	
1/26/2023	0.087 (J)	0.088 (J)	0.06 (J)	0.098 (J)	0.081 (J)	0.083 (J)
8/10/2023	0.066 (J)	0.053 (J)	<0.1	0.14	<0.1	
8/12/2023						0.08 (J)
2/14/2024		0.076 (J)	0.053 (J)		0.06 (J)	
2/15/2024	0.086 (J)			0.06 (J)		0.12
8/7/2024	0.067 (J)	0.057 (J)			<0.1	
8/8/2024			0.055 (J)	0.17		0.054 (J)
2/13/2025			0.09 (J)	0.075 (J)		
2/14/2025	0.067 (J)	<0.1				
2/15/2025					<0.1	
2/16/2025						0.11

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-25D	MW-26D	MW-27D	MW-28D	MW-29
3/12/2019				0.24 (J)	0.07 (J)
3/13/2019		0.052 (J)	0.28 (J)		
3/14/2019	2.2				
4/2/2019				0.18 (J)	0.045 (J)
4/3/2019	1.6	0.044 (J)			
4/4/2019			0.26 (J)		
9/24/2019					0.18 (J)
9/26/2019		0.19 (J)	0.42	0.22 (J)	
9/27/2019	1.5				
3/2/2020					<0.1
3/3/2020	1.4				
3/4/2020		0.052 (J)	0.25 (J)	0.26 (J)	
3/26/2020	1.6				
3/27/2020				0.26 (J)	
3/30/2020					<0.1
3/31/2020		<0.3			
4/2/2020			0.24 (J)		
9/16/2020					<0.1
9/17/2020		0.069 (J)			
9/18/2020	1.6		0.22		
9/21/2020				0.1	
2/10/2021				0.16	
2/12/2021	1.6				
2/15/2021					<0.1
2/16/2021		0.071 (J)	0.25		
3/12/2021			0.24		
3/15/2021				0.24	<0.1
3/16/2021	1.7				
3/17/2021		0.072 (J)			
8/16/2021					<0.1
8/17/2021		0.075 (J)	0.24		
8/18/2021				0.14	
8/19/2021	1.5				
2/9/2022	1.7	0.092 (J)			
2/10/2022			0.25	0.22	<0.1
8/3/2022			0.27		0.069 (J)
8/4/2022	1.5	0.12		0.19	
1/26/2023	1.6	0.11		0.22	0.068 (J)
1/27/2023			0.3		
8/10/2023	1.5				<0.1
8/11/2023		0.083 (J)		0.26	
8/12/2023			0.26		
2/14/2024				0.16	0.058 (J)
2/15/2024	1.4	0.097 (J)			
2/16/2024			0.2		
8/7/2024	1.5				
8/8/2024		0.081 (J)	0.21	0.25	<0.1
2/13/2025	1.4				
2/14/2025		0.081 (J)			
2/15/2025			0.17		
2/16/2025				0.13	<0.1

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-7
5/19/2016	<0.001	<0.001	<0.001			
5/20/2016						<0.001
7/11/2016	<0.001	<0.001				
7/12/2016			0.0001 (J)			<0.001
8/30/2016	<0.001	<0.001	<0.001			
9/1/2016						<0.001
10/19/2016	<0.001	<0.001	<0.001			
10/20/2016						<0.001
12/6/2016	<0.001	<0.001	<0.001			0.0001 (J)
1/24/2017	<0.001	<0.001	<0.001			
1/25/2017						0.0001 (J)
3/21/2017	<0.001	6E-05 (J)	0.0001 (J)			9E-05 (J)
5/22/2017	<0.001	9E-05 (J)	<0.001			
5/23/2017						8E-05 (J)
4/2/2018	<0.001	<0.001				
4/3/2018			<0.001			<0.001
3/12/2019	<0.001	<0.001	<0.001			
3/13/2019						<0.001
4/1/2019			<0.001			
4/2/2019	<0.001	<0.001				<0.001
9/23/2019	7.8E-05 (J)	9.2E-05 (J)	<0.001			
3/2/2020	4.8E-05 (J)	9.5E-05 (J)	<0.001			
3/4/2020						0.00051 (J)
3/25/2020	<0.001	0.00011 (J)	<0.001			
3/27/2020						5.4E-05 (J)
8/25/2020		8.5E-05 (J)	<0.001			
8/28/2020	7E-05 (J)					
9/15/2020	<0.001	8E-05 (J)	4.2E-05 (J)			
9/16/2020				5E-05 (J)	0.00021 (J)	0.0002 (J)
11/10/2020				6.9E-05 (J)	0.0002 (J)	
12/15/2020				8.2E-05 (J)	0.00011 (J)	
1/19/2021				4.4E-05 (J)	0.00019 (J)	
2/8/2021	5.8E-05 (J)					
2/9/2021		9.4E-05 (J)	<0.001	0.00029 (J)	0.0001 (J)	
2/10/2021						0.00056 (J)
3/10/2021	<0.001				<0.001	
3/11/2021		7.6E-05 (J)	<0.001	9.4E-05 (J)		
3/15/2021						0.0013
8/11/2021	<0.001			<0.001		
8/12/2021		<0.001	<0.001			
8/13/2021					<0.001	
8/16/2021						<0.001
2/1/2022	<0.001	<0.001	<0.001	<0.001	<0.001	
2/10/2022						<0.001
8/2/2022	<0.001	<0.001	<0.001	<0.001	<0.001	
8/11/2022						<0.001
1/23/2023			<0.001			
1/24/2023	<0.001	<0.001		<0.001	<0.001	
1/27/2023						<0.001
8/8/2023	<0.001	<0.001	<0.001	<0.001	<0.001	
8/12/2023						<0.001
2/13/2024	<0.001	0.00018 (J)	<0.001	<0.001	<0.001	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-7
2/14/2024						<0.001
8/5/2024	<0.001	<0.001	<0.001			
8/6/2024				<0.001	<0.001	
8/7/2024						<0.001
2/12/2025	<0.001		<0.001	<0.001	<0.001	
2/14/2025		<0.001				
2/16/2025						<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-8	HGWC-9	HGWC-10	HGWC-11	HGWC-12	HGWC-13
5/20/2016	<0.001					
5/23/2016		<0.001	<0.001	<0.001	<0.001	<0.001
7/12/2016	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
9/1/2016	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
10/20/2016	<0.001	<0.001				
10/24/2016			<0.001	<0.001	<0.001	<0.001
12/6/2016	<0.001	0.0002 (J)				
12/7/2016			<0.001	<0.001	<0.001	<0.001
1/25/2017	<0.001					
1/26/2017		0.0001 (J)	<0.001	<0.001	<0.001	<0.001
3/21/2017	<0.001					
3/22/2017		<0.001	<0.001	0.0003 (J)	<0.001	7E-05 (J)
5/23/2017	<0.001	0.0001 (J)				
5/24/2017			<0.001	9E-05 (J)	<0.001	<0.001
4/3/2018	<0.001	<0.001				
4/4/2018			<0.001	<0.001	<0.001	<0.001
3/12/2019	<0.001					
3/13/2019		<0.001	<0.001	<0.001		<0.001
3/14/2019					<0.001	
3/3/2020	0.00013 (J)		<0.001	0.00021 (J)	5.6E-05 (J)	
3/4/2020		8.4E-05 (J)				0.00014 (J)
3/26/2020					0.00043 (J)	
3/27/2020	<0.001					
3/30/2020						0.0001 (J)
3/31/2020		0.00014 (J)		0.0003 (J)		
4/1/2020			5E-05 (J)			
9/16/2020	0.0002 (J)		<0.001			
9/17/2020		0.00022 (J)				
9/18/2020				6E-05 (J)	9.6E-05 (J)	
9/21/2020						0.00015 (J)
2/12/2021				<0.001	6.7E-05 (J)	
2/15/2021			<0.001			
2/16/2021	8.6E-05 (J)	0.0002 (J)				
2/22/2021						0.00018 (J)
3/12/2021			<0.001			
3/15/2021	0.00011 (J)					
3/16/2021		0.00027 (J)		9.9E-05 (J)	8.9E-05 (J)	
3/17/2021						0.00015 (J)
8/17/2021		<0.001	<0.001			
8/18/2021	<0.001			<0.001	<0.001	
8/19/2021						<0.001
2/9/2022		<0.001	<0.001	<0.001	<0.001	
2/10/2022	<0.001					<0.001
8/3/2022	<0.001		<0.001	<0.001	<0.001	<0.001
8/4/2022		<0.001				
1/26/2023		<0.001		<0.001	<0.001	<0.001
1/27/2023			<0.001			
2/1/2023	<0.001					
8/10/2023			<0.001	<0.001	<0.001	
8/11/2023		<0.001				
8/12/2023	<0.001					<0.001
2/14/2024	<0.001					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-8	HGWC-9	HGWC-10	HGWC-11	HGWC-12	HGWC-13
2/15/2024		<0.001	<0.001	<0.001	<0.001	
2/16/2024						<0.001
8/7/2024	<0.001	<0.001	<0.001	<0.001	<0.001	
8/8/2024						<0.001
2/13/2025				<0.001	<0.001	
2/14/2025			<0.001			
2/15/2025	<0.001	<0.001				
2/17/2025						<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-5	MW-6	MW-7	MW-19	MW-20	MW-24D
3/13/2019	<0.001	<0.001	<0.001		<0.001	<0.001
3/14/2019				<0.001		
4/3/2019		<0.001				
3/2/2020	4.7E-05 (J)				0.00017 (J)	
3/3/2020		0.00013 (J)	6.2E-05 (J)			
3/4/2020				0.00011 (J)		0.00019 (J)
3/26/2020	<0.001			<0.001		
3/27/2020		<0.001			0.00013 (J)	
3/30/2020			<0.001			6.4E-05 (J)
9/17/2020	<0.001				<0.001	
9/21/2020		0.00026 (J)	<0.001	8.5E-05 (J)		4.2E-05 (J)
2/11/2021					3.9E-05 (J)	
2/12/2021				7.1E-05 (J)		
2/15/2021			<0.001			
2/16/2021	<0.001	8.4E-05 (J)				0.00012 (J)
3/15/2021			<0.001		0.0001 (J)	
3/16/2021	<0.001	3.6E-05 (J)				
3/17/2021				3.8E-05 (J)		4E-05 (J)
8/17/2021	<0.001	<0.001	<0.001		<0.001	
8/18/2021				<0.001		
8/19/2021						<0.001
2/8/2022			<0.001			
2/9/2022	<0.001	<0.001		<0.001		
2/10/2022					<0.001	<0.001
8/3/2022	<0.001	<0.001				<0.001
8/4/2022			<0.001	<0.001	<0.001	
1/26/2023	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
8/10/2023	<0.001	<0.001	<0.001	<0.001	<0.001	
8/12/2023						<0.001
2/14/2024		<0.001	<0.001		<0.001	
2/15/2024	<0.001			<0.001		<0.001
8/7/2024	<0.001	<0.001			<0.001	
8/8/2024			<0.001	<0.001		<0.001
2/13/2025			<0.001	<0.001		
2/14/2025	<0.001	<0.001				
2/15/2025					<0.001	
2/16/2025						<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-25D	MW-26D	MW-27D	MW-28D	MW-29
3/12/2019				<0.001	<0.001
3/13/2019		<0.001	<0.001		
3/14/2019	<0.001				
3/2/2020					9E-05 (J)
3/3/2020	<0.001				
3/4/2020		<0.001	<0.001	0.001 (J)	
3/26/2020	<0.001				
3/27/2020				6.2E-05 (J)	
3/30/2020					0.00011 (J)
3/31/2020		0.0001 (J)			
4/2/2020			0.00013 (J)		
9/16/2020					<0.001
9/17/2020		<0.001			
9/18/2020	<0.001		<0.001		
9/21/2020				0.00018 (J)	
2/10/2021				0.00044 (J)	
2/12/2021	<0.001				
2/15/2021					5.2E-05 (J)
2/16/2021		8E-05 (J)	0.00043 (J)		
3/12/2021			<0.001		
3/15/2021				0.00034 (J)	<0.001
3/16/2021	<0.001				
3/17/2021		<0.001			
8/16/2021					<0.001
8/17/2021		<0.001	<0.001		
8/18/2021				<0.001	
8/19/2021	<0.001				
2/9/2022	<0.001	<0.001			
2/10/2022			<0.001	<0.001	<0.001
8/3/2022			<0.001		<0.001
8/4/2022	<0.001	<0.001		<0.001	
1/26/2023	<0.001	<0.001		<0.001	<0.001
1/27/2023			<0.001		
8/10/2023	<0.001				<0.001
8/11/2023		<0.001		<0.001	
8/12/2023			<0.001		
2/14/2024				<0.001	<0.001
2/15/2024	<0.001	<0.001			
2/16/2024			<0.001		
8/7/2024	<0.001				
8/8/2024		<0.001	<0.001	<0.001	<0.001
2/13/2025	0.00037 (J)				
2/14/2025		<0.001			
2/15/2025			<0.001		
2/16/2025				<0.001	<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-7
5/19/2016	<0.03	<0.03	<0.03			
5/20/2016						<0.03
7/11/2016	<0.03	0.0014 (J)				
7/12/2016			0.0024 (J)			0.0021 (J)
8/30/2016	<0.03	<0.03	0.0025 (J)			
9/1/2016						0.0025 (J)
10/19/2016	<0.03	<0.03	0.003 (J)			
10/20/2016						0.0021 (J)
12/6/2016	<0.03	<0.03	0.0033 (J)			0.0026 (J)
1/24/2017	<0.03	<0.03	0.003 (J)			
1/25/2017						0.0024 (J)
3/21/2017	<0.03	0.0012 (J)	0.0034 (J)			0.0026 (J)
5/22/2017	<0.03	<0.03	0.003 (J)			
5/23/2017						0.0026 (J)
4/2/2018	<0.03	0.0015 (J)				
4/3/2018			0.003 (J)			0.0023 (J)
6/4/2018	0.001 (J)	0.0016 (J)	0.0027 (J)			
6/5/2018						0.0022 (J)
10/1/2018	0.00099 (J)	0.0013 (J)	0.0032 (J)			
10/2/2018						0.003 (J)
3/12/2019	0.001 (J)	0.0018 (J)	0.0032 (J)			
3/13/2019						0.0024 (J)
4/1/2019			0.0032 (J)			
4/2/2019	0.001 (J)	0.0018 (J)				0.002 (J)
9/23/2019	0.0011 (J)	0.0016 (J)	0.0029 (J)			
9/25/2019						0.0019 (J)
3/2/2020	0.0012 (J)	0.0017 (J)	0.0037 (J)			
3/4/2020						0.0034 (J)
3/25/2020	0.00083 (J)	0.0017 (J)	0.0035 (J)			
3/27/2020						0.002 (J)
8/25/2020		0.0015 (J)	0.0027 (J)			
8/28/2020	0.00087 (J)					
9/15/2020	0.00087 (J)	0.0015 (J)	0.0026 (J)			
9/16/2020				0.0018 (J)	0.014 (J)	0.0026 (J)
11/10/2020				0.0013 (J)	0.025 (J)	
12/15/2020				0.0019 (J)	0.028 (J)	
1/19/2021				0.0025 (J)	0.034	
2/8/2021	0.00086 (J)					
2/9/2021		0.0012 (J)	0.0032 (J)	0.0026 (J)	0.026 (J)	
2/10/2021						0.0032 (J)
3/10/2021	0.0009 (J)				0.03	
3/11/2021		0.0011 (J)	0.0035 (J)	0.0022 (J)		
3/15/2021						0.0038 (J)
8/11/2021	0.00078 (J)			0.0024 (J)		
8/12/2021		0.0012 (J)	0.0028 (J)			
8/13/2021					0.032	
8/16/2021						0.0025 (J)
2/1/2022	0.0011 (J)	0.0017 (J)	0.0037 (J)	0.0024 (J)	0.048	
2/10/2022						0.0022 (J)
8/2/2022	<0.03	0.0013 (J)	0.003 (J)	0.0019 (J)	0.041	
8/11/2022						0.0019 (J)
1/23/2023			0.003 (J)			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-7
1/24/2023	0.00092 (J)	0.0014 (J)		0.002 (J)	0.064	
1/27/2023						0.0018 (J)
8/8/2023	<0.03	0.0017 (J)	0.0031 (J)	0.0021 (J)	0.092	
8/12/2023						0.0023 (J)
2/13/2024	<0.03	0.0017 (J)	0.0034 (J)	0.0024 (J)	0.088	
2/14/2024						0.0016 (J)
8/5/2024	<0.03	0.0019 (J)	0.0034 (J)			
8/6/2024				0.0025 (J)	0.1	
8/7/2024						0.0026 (J)
2/12/2025	0.00119 (J)		0.00331 (J)	0.00266 (J)	0.101	
2/14/2025		0.00183 (J)				
2/16/2025						0.00167 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-8	HGWC-9	HGWC-10	HGWC-11	HGWC-12	HGWC-13
5/20/2016	<0.03					
5/23/2016		<0.03	<0.03	<0.03	0.0107 (J)	0.0422 (J)
7/12/2016	0.0023 (J)	0.004 (J)	<0.03	<0.03	0.0113 (J)	0.0366 (J)
9/1/2016	0.0029 (J)	0.0044 (J)	<0.03	<0.03	0.0118 (J)	0.04 (J)
10/20/2016	0.0027 (J)	0.0027 (J)				
10/24/2016			<0.03	<0.03	0.0114 (J)	0.0435 (J)
12/6/2016	0.0032 (J)	0.005 (J)				
12/7/2016			<0.03	<0.03	0.0155 (J)	0.0477 (J)
1/25/2017	0.0026 (J)					
1/26/2017		0.0042 (J)	<0.03	<0.03	0.0099 (J)	0.0342 (J)
3/21/2017	0.0029 (J)					
3/22/2017		0.0043 (J)	<0.03	<0.03	0.0098 (J)	0.0353 (J)
5/23/2017	0.0029 (J)	0.0048 (J)				
5/24/2017			<0.03	<0.03	0.0105 (J)	0.0317 (J)
4/3/2018	0.0025 (J)	0.0043 (J)				
4/4/2018			<0.03	<0.03	0.008 (J)	0.031 (J)
6/5/2018			<0.03	<0.03		0.031 (J)
6/6/2018	0.0023 (J)	0.0043 (J)			0.0095 (J)	
10/2/2018	0.0025 (J)	0.004 (J)	<0.03			
10/3/2018				<0.03	0.0083 (J)	
10/5/2018						0.027 (J)
3/12/2019	0.0025 (J)					
3/13/2019		0.004 (J)	<0.03	<0.03		0.029 (J)
3/14/2019					0.0058 (J)	
4/3/2019	0.0025 (J)	0.004 (J)	<0.03	<0.03	0.0066 (J)	
4/5/2019						0.023 (J)
9/24/2019	0.0024 (J)					
9/26/2019						0.035
9/27/2019		0.0044 (J)	<0.03	<0.03	0.011 (J)	
3/3/2020	0.0028 (J)		<0.03	<0.03	0.0063 (J)	
3/4/2020		0.004 (J)				0.041
3/26/2020					0.0063 (J)	
3/27/2020	0.0026 (J)					
3/30/2020						0.038
3/31/2020		0.0043 (J)		<0.03		
4/1/2020			<0.03			
9/16/2020	0.0033 (J)		<0.03			
9/17/2020		0.004 (J)				
9/18/2020				<0.03	0.01 (J)	
9/21/2020						0.028 (J)
2/12/2021				<0.03	0.0094 (J)	
2/15/2021			<0.03			
2/16/2021	0.0027 (J)	0.0045 (J)				
2/22/2021						0.032
3/12/2021			<0.03			
3/15/2021	0.0029 (J)					
3/16/2021		0.0046 (J)		<0.03	0.0081 (J)	
3/17/2021						0.031
8/17/2021		0.004 (J)	<0.03			
8/18/2021	0.0029 (J)			<0.03	0.0099 (J)	
8/19/2021						0.028 (J)
2/9/2022		0.0041 (J)	<0.03	<0.03	0.01 (J)	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-8	HGWC-9	HGWC-10	HGWC-11	HGWC-12	HGWC-13
2/10/2022	0.003 (J)					0.031
8/3/2022	0.0026 (J)		<0.03	<0.03	0.0068 (J)	0.029 (J)
8/4/2022		0.0036 (J)				
1/26/2023		0.0032 (J)		<0.03	0.0058 (J)	0.04
1/27/2023			<0.03			
2/1/2023	0.0015 (J)					
8/10/2023			<0.03	<0.03	0.0075 (J)	
8/11/2023		0.0035 (J)				
8/12/2023	0.0014 (J)					0.051
2/14/2024	<0.03					
2/15/2024		0.0031 (J)	<0.03	<0.03	0.008 (J)	
2/16/2024						0.052
8/7/2024	<0.03	0.003 (J)	<0.03	<0.03	0.0089 (J)	
8/8/2024						0.052
2/13/2025				<0.03	0.00909 (J)	
2/14/2025			<0.03			
2/15/2025	0.000838 (J)	0.00343 (J)				
2/17/2025						0.0325

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-5	MW-6	MW-7	MW-19	MW-20	MW-24D
3/13/2019	<0.03	<0.03	<0.03		0.0016 (J)	0.0029 (J)
3/14/2019				0.0089 (J)		
4/2/2019					0.0015 (J)	
4/3/2019	<0.03	<0.03	<0.03	0.0061 (J)		
4/8/2019						0.0027 (J)
9/25/2019	<0.03				<0.03	
9/26/2019		<0.03	<0.03			0.003 (J)
9/27/2019				0.013 (J)		
3/2/2020	<0.03				0.00082 (J)	
3/3/2020		<0.03	<0.03			
3/4/2020				0.01 (J)		0.0026 (J)
3/26/2020	<0.03			0.013 (J)		
3/27/2020		<0.03			0.0012 (J)	
3/30/2020			<0.03			0.0027 (J)
9/17/2020	<0.03				<0.03	
9/21/2020		<0.03	<0.03	0.013 (J)		0.0024 (J)
2/11/2021					0.001 (J)	
2/12/2021				0.012 (J)		
2/15/2021			<0.03			
2/16/2021	<0.03	<0.03				0.0028 (J)
3/15/2021			<0.03		0.0011 (J)	
3/16/2021	<0.03	<0.03				
3/17/2021				0.012 (J)		0.0027 (J)
8/17/2021	<0.03	<0.03	<0.03		0.00091 (J)	
8/18/2021				0.014 (J)		
8/19/2021						0.0027 (J)
2/8/2022			<0.03			
2/9/2022	<0.03	<0.03		0.0067 (J)		
2/10/2022					0.00099 (J)	0.0029 (J)
8/3/2022	<0.03	<0.03				0.0024 (J)
8/4/2022			<0.03	0.013 (J)	0.00075 (J)	
1/26/2023	<0.03	<0.03	<0.03	0.0038 (J)	<0.03	0.0025 (J)
8/10/2023	<0.03	<0.03	<0.03	0.011 (J)	<0.03	
8/12/2023						0.003 (J)
2/14/2024		<0.03	<0.03		<0.03	
2/15/2024	<0.03			<0.03		0.0031 (J)
8/7/2024	<0.03	<0.03			<0.03	
8/8/2024			<0.03	0.011 (J)		0.0029 (J)
2/13/2025			<0.03	<0.03		
2/14/2025	0.000687 (J)	0.000625 (J)				
2/15/2025					0.00094 (J)	
2/16/2025						0.00274 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-25D	MW-26D	MW-27D	MW-28D	MW-29
3/12/2019				0.011 (J)	0.0024 (J)
3/13/2019		0.0033 (J)	0.0097 (J)		
3/14/2019	0.05				
4/2/2019				0.0052 (J)	0.0021 (J)
4/3/2019	0.047 (J)	0.0034 (J)			
4/4/2019			0.0069 (J)		
9/24/2019					0.0022 (J)
9/26/2019		0.0041 (J)	0.0055 (J)	0.0055 (J)	
9/27/2019	0.047				
3/2/2020					0.0025 (J)
3/3/2020	0.05				
3/4/2020		0.03 (J)	0.0047 (J)	0.015 (J)	
3/26/2020	0.054				
3/27/2020				0.014 (J)	
3/30/2020					0.0023 (J)
3/31/2020		0.0036 (J)			
4/2/2020			0.0068 (J)		
9/16/2020					0.0021 (J)
9/17/2020		0.0032 (J)			
9/18/2020	0.046		0.0084 (J)		
9/21/2020				0.0053 (J)	
2/10/2021				0.0092 (J)	
2/12/2021	0.045				
2/15/2021					0.0024 (J)
2/16/2021		0.0038 (J)	0.0078 (J)		
3/12/2021			0.009 (J)		
3/15/2021				0.013 (J)	0.0022 (J)
3/16/2021	0.049				
3/17/2021		0.004 (J)			
8/16/2021					0.0021 (J)
8/17/2021		0.0036 (J)	0.0079 (J)		
8/18/2021				0.0086 (J)	
8/19/2021	0.046				
2/9/2022	0.048	0.0039 (J)			
2/10/2022			0.0086 (J)	0.014 (J)	0.0023 (J)
8/3/2022			0.0063 (J)		0.0018 (J)
8/4/2022	0.04	0.0033 (J)		0.0088 (J)	
1/26/2023	0.036	0.0031 (J)		0.011 (J)	0.0019 (J)
1/27/2023			0.0072 (J)		
8/10/2023	0.038				0.0019 (J)
8/11/2023		0.0029 (J)		0.016 (J)	
8/12/2023			0.0072 (J)		
2/14/2024				0.0078 (J)	0.0021 (J)
2/15/2024	0.038	0.0035 (J)			
2/16/2024			0.011 (J)		
8/7/2024	0.04				
8/8/2024		0.0037 (J)	0.011 (J)	0.017 (J)	0.0019 (J)
2/13/2025	0.0362				
2/14/2025		0.00342 (J)			
2/15/2025			0.0115 (J)		
2/16/2025				0.00738 (J)	0.00371 (J)

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-7
5/19/2016	<0.0002	<0.0002	<0.0002			
5/20/2016						<0.0002
7/11/2016	<0.0002	<0.0002				
7/12/2016			<0.0002			<0.0002
8/30/2016	4E-05 (J)	4E-05 (J)	<0.0002			
9/1/2016						<0.0002
10/19/2016	<0.0002	<0.0002	<0.0002			
10/20/2016						<0.0002
12/6/2016	<0.0002	<0.0002	<0.0002			<0.0002
1/24/2017	<0.0002	<0.0002	<0.0002			
1/25/2017						<0.0002
3/21/2017	<0.0002	<0.0002	<0.0002			<0.0002
5/22/2017	<0.0002	<0.0002	<0.0002			
5/23/2017						<0.0002
4/2/2018	<0.0002	<0.0002				
4/3/2018			<0.0002			<0.0002
3/12/2019	<0.0002	<0.0002	<0.0002			
3/13/2019						<0.0002
3/2/2020	<0.0002	<0.0002	<0.0002			
3/4/2020						<0.0002
8/25/2020		<0.0002	<0.0002			
8/28/2020	<0.0002					
9/16/2020				<0.0002	<0.0002	
11/10/2020				<0.0002	<0.0002	
12/15/2020				<0.0002	<0.0002	
1/19/2021				<0.0002	<0.0002	
2/8/2021	<0.0002					
2/9/2021		<0.0002	<0.0002	<0.0002	<0.0002	
2/10/2021						<0.0002
8/11/2021	<0.0002			<0.0002		
8/12/2021		<0.0002	<0.0002			
8/13/2021					<0.0002	
2/1/2022	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
2/10/2022						<0.0002
8/2/2022	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
8/11/2022						<0.0002
1/23/2023			<0.0002			
1/24/2023	<0.0002	<0.0002		<0.0002	<0.0002	
1/27/2023						<0.0002
8/8/2023	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
8/12/2023						<0.0002
2/13/2024	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
2/14/2024						<0.0002
8/5/2024	<0.0002	<0.0002	<0.0002			
8/6/2024				<0.0002	<0.0002	
8/7/2024						<0.0002
2/12/2025	<0.0002		<0.0002	<0.0002	<0.0002	
2/14/2025		<0.0002				
2/16/2025						<0.0002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-8	HGWC-9	HGWC-10	HGWC-11	HGWC-12	HGWC-13
5/20/2016	<0.0002					
5/23/2016		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
7/12/2016	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
9/1/2016	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
10/20/2016	<0.0002	<0.0002				
10/24/2016			<0.0002	<0.0002	<0.0002	<0.0002
12/6/2016	<0.0002	<0.0002				
12/7/2016			<0.0002	<0.0002	<0.0002	<0.0002
1/25/2017	<0.0002					
1/26/2017		4E-05 (J)	5E-05 (J)	5E-05 (J)	<0.0002	4E-05 (J)
3/21/2017	<0.0002					
3/22/2017		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
5/23/2017	<0.0002	<0.0002				
5/24/2017			<0.0002	<0.0002	<0.0002	5E-05 (J)
4/3/2018	<0.0002	<0.0002				
4/4/2018			<0.0002	<0.0002	<0.0002	<0.0002
3/12/2019	<0.0002					
3/13/2019		<0.0002	<0.0002	<0.0002		<0.0002
3/14/2019					<0.0002	
9/24/2019	<0.0002					
9/27/2019			<0.0002			
3/3/2020	<0.0002		<0.0002	<0.0002	<0.0002	
3/4/2020		<0.0002				<0.0002
2/12/2021				<0.0002	<0.0002	
2/15/2021			<0.0002			
2/16/2021	<0.0002	<0.0002				
2/22/2021						<0.0002
2/9/2022		<0.0002	<0.0002	<0.0002	<0.0002	
2/10/2022	<0.0002					<0.0002
8/3/2022	<0.0002		<0.0002	<0.0002	<0.0002	<0.0002
8/4/2022		<0.0002				
1/26/2023		<0.0002		<0.0002	<0.0002	<0.0002
1/27/2023			<0.0002			
2/1/2023	<0.0002					
8/10/2023			<0.0002	<0.0002	<0.0002	
8/11/2023		<0.0002				
8/12/2023	<0.0002					<0.0002
2/14/2024	<0.0002					
2/15/2024		<0.0002	<0.0002	<0.0002	<0.0002	
2/16/2024						<0.0002
8/7/2024	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
8/8/2024						<0.0002
2/13/2025				<0.0002	<0.0002	
2/14/2025			<0.0002			
2/15/2025	<0.0002	<0.0002				
2/17/2025						<0.0002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-5	MW-6	MW-7	MW-19	MW-20	MW-24D
3/13/2019	<0.0002	<0.0002	<0.0002		<0.0002	<0.0002
3/14/2019				<0.0002		
9/27/2019				<0.0002		
3/2/2020	<0.0002				<0.0002	
3/3/2020		<0.0002	<0.0002			
3/4/2020				<0.0002		<0.0002
2/11/2021					<0.0002	
2/12/2021				<0.0002		
2/15/2021			<0.0002			
2/16/2021	<0.0002	<0.0002				<0.0002
2/8/2022			<0.0002			
2/9/2022	<0.0002	<0.0002		<0.0002		
2/10/2022					<0.0002	<0.0002
8/3/2022	<0.0002	<0.0002				<0.0002
8/4/2022			<0.0002	<0.0002	<0.0002	
1/26/2023	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
8/10/2023	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
8/12/2023						<0.0002
2/14/2024		<0.0002	<0.0002		<0.0002	
2/15/2024	<0.0002			<0.0002		<0.0002
8/7/2024	<0.0002	<0.0002			<0.0002	
8/8/2024			<0.0002	<0.0002		<0.0002
2/13/2025			<0.0002	<0.0002		
2/14/2025	<0.0002	<0.0002				
2/15/2025					<0.0002	
2/16/2025						<0.0002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-25D	MW-26D	MW-27D	MW-28D	MW-29
3/12/2019				<0.0002	<0.0002
3/13/2019		<0.0002	<0.0002		
3/14/2019	<0.0002				
3/2/2020					<0.0002
3/3/2020	<0.0002				
3/4/2020		<0.0002	<0.0002	<0.0002	
2/10/2021				<0.0002	
2/12/2021	<0.0002				
2/15/2021					<0.0002
2/16/2021		<0.0002	<0.0002		
2/9/2022	<0.0002	<0.0002			
2/10/2022			<0.0002	<0.0002	<0.0002
8/3/2022			<0.0002		<0.0002
8/4/2022	<0.0002	<0.0002		<0.0002	
1/26/2023	<0.0002	<0.0002		<0.0002	<0.0002
1/27/2023			<0.0002		
8/10/2023	0.00013 (J)				0.00017 (J)
8/11/2023		<0.0002		<0.0002	
8/12/2023			<0.0002		
2/14/2024				<0.0002	<0.0002
2/15/2024	<0.0002	<0.0002			
2/16/2024			<0.0002		
8/7/2024	<0.0002				
8/8/2024		<0.0002	<0.0002	<0.0002	<0.0002
2/13/2025	<0.0002				
2/14/2025		<0.0002			
2/15/2025			<0.0002		
2/16/2025				<0.0002	<0.0002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-7
5/19/2016	<0.01	<0.01	<0.01			
5/20/2016						0.028
7/11/2016	<0.01	<0.01				
7/12/2016			<0.01			0.0273
8/30/2016	<0.01	<0.01	<0.01			
9/1/2016						0.0274
10/19/2016	<0.01	<0.01	<0.01			
10/20/2016						0.036
12/6/2016	<0.01	<0.01	<0.01			0.0365
1/24/2017	<0.01	<0.01	<0.01			
1/25/2017						0.0317
3/21/2017	<0.01	<0.01	<0.01			0.0346
5/22/2017	<0.01	<0.01	<0.01			
5/23/2017						0.0336
4/2/2018	<0.01	<0.01				
4/3/2018			<0.01			0.032
6/4/2018	<0.01	<0.01	<0.01			
6/5/2018						0.036
10/1/2018	<0.01	<0.01	<0.01			
10/2/2018						0.039
3/12/2019	<0.01	<0.01	<0.01			
3/13/2019						0.04
4/1/2019			<0.01			
4/2/2019	<0.01	<0.01				0.041
9/23/2019	<0.01	<0.01	<0.01			
9/25/2019						0.047
3/2/2020	<0.01	<0.01	<0.01			
3/4/2020						0.045
3/25/2020	<0.01	<0.01	<0.01			
3/27/2020						0.044
6/16/2020	<0.01		<0.01			
6/17/2020						0.048
8/25/2020		<0.01	<0.01			
8/28/2020	<0.01					
9/15/2020	<0.01	<0.01	<0.01			
9/16/2020				0.0044 (J)	0.0019 (J)	0.046
11/10/2020				0.0072 (J)	0.0018 (J)	
12/15/2020				0.0044 (J)	0.0019 (J)	
1/19/2021				0.0038 (J)	0.0035 (J)	
2/8/2021	<0.01					
2/9/2021		<0.01	<0.01	0.0045 (J)	0.0038 (J)	
2/10/2021						0.051
3/10/2021	<0.01				0.0019 (J)	
3/11/2021		<0.01	<0.01	0.0064 (J)		
3/15/2021						0.047
8/11/2021	<0.01			0.0034 (J)		
8/12/2021		<0.01	<0.01			
8/13/2021					0.0051 (J)	
8/16/2021						0.045
2/1/2022	<0.01	<0.01	<0.01	0.0036 (J)	0.0055 (J)	
2/10/2022						0.045
8/2/2022	<0.01	<0.01	<0.01	0.0042 (J)	0.002 (J)	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-7
8/11/2022						0.044
1/23/2023			<0.01			
1/24/2023	<0.01	<0.01		0.0027 (J)	0.0026 (J)	
1/27/2023						0.039
8/8/2023	<0.01	<0.01	<0.01	0.0019 (J)	0.0013 (J)	
8/12/2023						0.033
2/13/2024	<0.01	<0.01	<0.01	0.0015 (J)	0.0018 (J)	
2/14/2024						0.028
8/5/2024	<0.01	<0.01	<0.01			
8/6/2024				0.001 (J)	0.00079 (J)	
8/7/2024						0.03
2/12/2025	<0.01		<0.01	<0.01	<0.01	
2/14/2025		<0.01				
2/16/2025						0.019

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-8	HGWC-9	HGWC-10	HGWC-11	HGWC-12	HGWC-13
5/20/2016	0.446					
5/23/2016		0.0187	<0.01	0.0164	0.0413 (J)	0.027
7/12/2016	0.455	0.0229	0.0013 (J)	0.0251	0.0484	0.0316
9/1/2016	0.481	0.0239	<0.01	0.0259	0.0474	0.0336
10/20/2016	0.472	0.477				
10/24/2016			<0.01	0.0293	0.047	0.0352
12/6/2016	0.52	0.0236				
12/7/2016			<0.01	0.0209	0.0432	0.0383
1/25/2017	0.478					
1/26/2017		0.0234	<0.01	0.0277	0.0484	0.041
3/21/2017	0.547					
3/22/2017		0.0219	0.0013 (J)	0.011	0.0494	0.0426
5/23/2017	0.482	0.0242				
5/24/2017			0.0014 (J)	0.0373	0.047	0.04
4/3/2018	0.44	0.025				
4/4/2018			<0.01	0.013	0.052	0.027
6/5/2018			<0.01	0.029		0.027
6/6/2018	0.49	0.027			0.054	
10/2/2018	0.47	0.028	<0.01			
10/3/2018				0.02	0.054	
10/5/2018						0.033
3/12/2019	0.5					
3/13/2019		0.028	<0.01	0.012		0.033
3/14/2019					0.046	
4/3/2019	0.5	0.03	0.0021 (J)	0.01	0.049	
4/5/2019						0.03
9/24/2019	0.54					
9/26/2019						0.026
9/27/2019		0.033	0.0014 (J)	0.016	0.052	
3/3/2020	0.44		<0.01	0.011	0.045	
3/4/2020		0.031				0.03
3/26/2020					0.045	
3/27/2020	0.42					
3/30/2020						0.029
3/31/2020		0.031		0.0074 (J)		
4/1/2020			<0.01			
6/16/2020	0.45					
9/16/2020	0.43		0.0014 (J)			
9/17/2020		0.03				
9/18/2020				0.032	0.046	
9/21/2020						0.032
2/12/2021				0.023	0.048	
2/15/2021			<0.01			
2/16/2021	0.46	0.035				
2/22/2021						0.036
3/12/2021			0.0007 (J)			
3/15/2021	0.41					
3/16/2021		0.035		0.015	0.044	
3/17/2021						0.035
8/17/2021		0.035	0.0012 (J)			
8/18/2021	0.48			0.038	0.045	
8/19/2021						0.032

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-8	HGWC-9	HGWC-10	HGWC-11	HGWC-12	HGWC-13
2/9/2022		0.034	<0.01	0.03	0.042	
2/10/2022	0.34					0.033
8/3/2022	0.29		0.00079 (J)	0.027	0.047	0.035
8/4/2022		0.033				
1/26/2023		0.021		0.022	0.048	0.023
1/27/2023			<0.01			
2/1/2023	0.29					
8/10/2023			0.0014 (J)	0.014	0.05	
8/11/2023		0.03				
8/12/2023	0.34					0.016
2/14/2024	0.18					
2/15/2024		0.01	<0.01	0.029	0.046	
2/16/2024						0.013
8/7/2024	0.28	0.015	0.0012 (J)	0.01 (J)	0.044	
8/8/2024						0.011
2/13/2025				0.041	0.044	
2/14/2025			<0.01			
2/15/2025	0.17	0.013				
2/17/2025						0.015

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-5	MW-6	MW-7	MW-19	MW-20	MW-24D
3/13/2019	<0.01	0.0021 (J)	<0.01		<0.01	<0.01
3/14/2019				0.057		
4/2/2019					<0.01	
4/3/2019	<0.01	0.0021 (J)	<0.01	0.04		
4/8/2019						0.00027 (J)
9/25/2019	<0.01				<0.01	
9/26/2019		0.0026 (J)	0.0033 (J)			<0.01
9/27/2019				0.063		
3/2/2020	<0.01				<0.01	
3/3/2020		0.0022 (J)	<0.01			
3/4/2020				0.032		<0.01
3/26/2020	<0.01			0.033		
3/27/2020		0.0026 (J)			<0.01	
3/30/2020			<0.01			<0.01
9/17/2020	<0.01				<0.01	
9/21/2020		0.0025 (J)	0.0015 (J)	0.064		0.00099 (J)
2/11/2021					<0.01	
2/12/2021				0.046		
2/15/2021			0.0015 (J)			
2/16/2021	<0.01	0.0025 (J)				0.00096 (J)
3/15/2021			0.0015 (J)		<0.01	
3/16/2021	<0.01	0.0023 (J)				
3/17/2021				0.043		0.001 (J)
8/17/2021	<0.01	0.0027 (J)	0.003 (J)		<0.01	
8/18/2021				0.032		
8/19/2021						0.00087 (J)
2/8/2022			0.0012 (J)			
2/9/2022	<0.01	0.0026 (J)		0.011		
2/10/2022					<0.01	0.0008 (J)
8/3/2022	<0.01	0.0028 (J)				0.00095 (J)
8/4/2022			0.0014 (J)	0.039	<0.01	
1/26/2023	<0.01	0.0029 (J)	<0.01	0.012	<0.01	0.0012 (J)
8/10/2023	<0.01	0.0026 (J)	0.0022 (J)	0.033	<0.01	
8/12/2023						0.0019 (J)
2/14/2024		0.0025 (J)	<0.01		<0.01	
2/15/2024	<0.01			<0.01		0.0085 (J)
8/7/2024	<0.01	0.0031 (J)			<0.01	
8/8/2024			0.0021 (J)	0.046		0.0016 (J)
2/13/2025			0.0025 (J)	<0.01		
2/14/2025	<0.01	0.0029 (J)				
2/15/2025					<0.01	
2/16/2025						0.0067 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-25D	MW-26D	MW-27D	MW-28D	MW-29
3/12/2019				0.013	0.0038 (J)
3/13/2019		<0.01	<0.01		
3/14/2019	0.0022 (J)				
4/2/2019				0.028	0.0028 (J)
4/3/2019	<0.01	0.0083 (J)			
4/4/2019			0.0018 (J)		
9/24/2019					0.0021 (J)
9/26/2019		0.017	0.0042 (J)	0.017	
9/27/2019	<0.01				
11/25/2019		0.02			
3/2/2020					0.0025 (J)
3/3/2020	<0.01				
3/4/2020		0.0074 (J)	0.0058 (J)	0.009 (J)	
3/26/2020	<0.01				
3/27/2020				0.0068 (J)	
3/30/2020					0.0029 (J)
3/31/2020		0.0093 (J)			
4/2/2020			0.003 (J)		
9/16/2020					0.0021 (J)
9/17/2020		0.014			
9/18/2020	0.00094 (J)		0.0018 (J)		
9/21/2020				0.018	
2/10/2021				0.02	
2/12/2021	<0.01				
2/15/2021					0.0029 (J)
2/16/2021		0.022	0.0019 (J)		
3/12/2021			0.0008 (J)		
3/15/2021				0.013	0.0031 (J)
3/16/2021	<0.01				
3/17/2021		0.023			
8/16/2021					0.0027 (J)
8/17/2021		0.024	0.0016 (J)		
8/18/2021				0.022	
8/19/2021	<0.01				
2/9/2022	<0.01	0.028			
2/10/2022			0.0017 (J)	0.0031 (J)	0.0036 (J)
8/3/2022			0.002 (J)		0.0032 (J)
8/4/2022	<0.01	0.028		0.011	
1/26/2023	<0.01	0.028		0.0025 (J)	0.0029 (J)
1/27/2023			0.0014 (J)		
8/10/2023	<0.01				0.003 (J)
8/11/2023		0.014		0.0011 (J)	
8/12/2023			0.0019 (J)		
2/14/2024				0.0053 (J)	0.002 (J)
2/15/2024	<0.01	0.025			
2/16/2024			0.0052 (J)		
8/7/2024	<0.01				
8/8/2024		0.023	0.0052 (J)	0.0014 (J)	0.0038 (J)
2/13/2025	<0.01				
2/14/2025		0.022			
2/15/2025			0.022		
2/16/2025				0.0031 (J)	<0.01

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: pH, Field (SU) Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-7
5/19/2016	7.27	5.81	7.45			
5/20/2016						7.14
7/11/2016	7.06	5.68				
7/12/2016			7.32			7.13
8/30/2016	7.28	5.63	7.43			
9/1/2016						7.29
10/19/2016	7.02	5.46	7.03			
10/20/2016						7.1
12/6/2016	7.09	5.38	7.08			7.15
1/24/2017	7.2	5.37	7.39			
1/25/2017						7.11
3/21/2017	7.01	4.9	6.83			7.12
5/22/2017	7.11	5.2	7.02			
5/23/2017						7.08
10/3/2017	7.21	5.3	7.47			7.21
4/2/2018	7.1	5.4				
4/3/2018			7.38			7.14
6/4/2018	7.06	5.27	7.38			
6/5/2018						7.13
10/1/2018	7.09	5.31	7.13			
10/2/2018						7.12
3/12/2019	7.03	5.42	7.29			
3/13/2019						7.27
4/1/2019			7.16			
4/2/2019	6.86	5.41				7.27
9/23/2019	7.02	5.33	7.3			
9/25/2019						7.11
9/30/2019	7	5.35	7.37			
3/2/2020	7.1	5.43	7.12			
3/4/2020						7.17
3/25/2020	6.95	5.36	7.4			
3/27/2020						7.05
6/16/2020	6.97		7.31			
6/17/2020						7.2
8/25/2020		5.15	7.14			
8/28/2020	7.02					
9/15/2020	7.15	5.22	7.29			
9/16/2020				7.52	7.83	7.3
11/10/2020				7.27	7.84	
12/15/2020				7.39	7.87	
1/19/2021				7.39	7.86	
2/8/2021	7.11					
2/9/2021		5.42	7.23	7.44	7.84	
2/10/2021						7.29
3/10/2021	6.95				7.92	
3/11/2021		5.8	7.33	7.46		
3/15/2021						7.19
8/11/2021	6.98			7.4		
8/12/2021		5.05	7.31			
8/13/2021					7.77	
8/16/2021						7.12
2/1/2022	7.19	5.24	7.45	7.52	8.25	

Time Series

Constituent: pH, Field (SU) Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-7
2/10/2022						7.22
8/2/2022	7.03	4.57	7.02	7.15	7.9	
8/11/2022						7.07
1/23/2023			7.32			
1/24/2023	6.76	5.22		7.56	8.22	
1/27/2023						7.25
8/8/2023	7.05	5.01	7.42	7.39	8.2	
8/12/2023						7.36
2/13/2024	7.06	5.49	7.35	7.47	8.1	
2/14/2024						7.3
8/5/2024	7.29	4.91	7.27			
8/6/2024				7.46	8.36	
8/7/2024						7.58
2/12/2025	7.08		7.37	7.5	8.49	
2/14/2025		5.75	7.45			
2/16/2025						7.41

Time Series

Constituent: pH, Field (SU) Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-8	HGWC-9	HGWC-10	HGWC-11	HGWC-12	HGWC-13
5/20/2016	6.99					
5/23/2016		7.23	6.83	6.22	7.15	7.14
7/12/2016	6.88	6.87	6.58	6.04	6.87	7.04
9/1/2016	6.73	7.15	6.54	6.26	7.2	7.24
10/20/2016	6.9	7.05				
10/24/2016			6.59	6.46	7.1	6.9
12/6/2016	6.98	7.15				
12/7/2016			6.56	6.29	6.92	6.91
1/25/2017	7.04					
1/26/2017		6.99	6.83	6.46	7.05	7.08
3/21/2017	6.87					
3/22/2017		7.03	6.66	5.81	7.08	7.13
5/23/2017	6.87	7.05				
5/24/2017			6.67	6.51	7.11	7.15
10/3/2017	6.72	7.07	6.54	6.25	7.01	7.32
4/3/2018	6.87	6.99				
4/4/2018			6.61	5.86	7.12	7.27
6/5/2018			6.65	6.27		7.2
6/6/2018	6.9	7.02			7.12	
10/2/2018	6.9	7.05	6.55			
10/3/2018				5.97	7.08	
10/5/2018						7.24
3/12/2019	6.91					
3/13/2019		7.06	6.7	5.92		7.24
3/14/2019					7.09	
4/3/2019	6.85	6.88	6.55	5.69	6.96	
4/5/2019						7.24
9/24/2019	6.95					
9/26/2019						6.94
9/27/2019		7.01	6.64	5.75	7.07	
3/3/2020	7.06		6.76	5.95	6.95	
3/4/2020		6.97				7.16
3/26/2020					6.99	
3/27/2020	6.95					
3/30/2020						6.91
3/31/2020		7.07		5.7		
4/1/2020			6.84			
6/16/2020	6.97					
9/16/2020	6.92		6.66			
9/17/2020		6.99				
9/18/2020				6.42	7.16	
9/21/2020						7.38
2/12/2021				7.27	6.23	
2/15/2021			6.83			
2/16/2021	7.16	7.26				
2/22/2021						7.27
3/12/2021			6.76			
3/15/2021	7.09					
3/16/2021		7.1		5.95	7.15	
3/17/2021						7.33
8/17/2021		7.1	6.75			
8/18/2021	7.02			6.1	6.89	

Time Series

Constituent: pH, Field (SU) Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-8	HGWC-9	HGWC-10	HGWC-11	HGWC-12	HGWC-13
8/19/2021						7.38
2/9/2022		7.3	7	6.55	7.23	
2/10/2022	6.99					7.54
8/3/2022	6.84		6.73	6.23	7.13	7.09
8/4/2022		7.03				
1/26/2023		7.07		6.23	7.1	6.9
1/27/2023			6.89			
2/1/2023	6.6					
8/10/2023			6.81	5.9	7.08	
8/11/2023		7.09				
8/12/2023	6.84					6.89
2/14/2024	6.66					
2/15/2024		6.82	6.93	6.36	7.02	
2/16/2024						6.9
8/7/2024	6.71	7.03	6.92	5.79	7.09	
8/8/2024						6.95
2/13/2025				6.6	7.04	
2/14/2025			6.77			
2/15/2025	6.54	7.03				
2/17/2025						7.11

Time Series

Constituent: pH, Field (SU) Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-5	MW-6	MW-7	MW-19	MW-20	MW-24D
6/8/2016	6.21					
3/13/2019	6.16	6.86	6.37		6.75	7.58
3/14/2019				6.48		
4/2/2019					6.7	
4/3/2019	5.96	6.77	6.19	6.14		
4/8/2019						7.47
9/25/2019	6.37				6.75	
9/26/2019		6.76	6.5			7.5
9/27/2019				6.34		
3/2/2020	6.12				6.98	
3/3/2020		6.78	6.1			
3/4/2020				6.24		7.47
3/26/2020	6.14			6.28		
3/27/2020		6.82			6.75	
3/30/2020			6.06			7.49
9/17/2020	6.48				6.78	
9/21/2020		6.88	6.5	6.41		7.65
2/11/2021					6.93	
2/12/2021				6.36		
2/15/2021			6.77			
2/16/2021	5.95	7				7.69
3/15/2021			6.66		6.97	
3/16/2021	5.78	6.96				
3/17/2021				6.34		7.66
8/17/2021	5.99	6.86	6.88		7.05	
8/18/2021				6.28		
8/19/2021						7.61
2/8/2022			6.73			
2/9/2022	6.13	7.01		6.28		
2/10/2022					7.19	7.82
8/3/2022	5.96	6.41				7.59
8/4/2022			6.47	6.32	6.96	
1/26/2023	6.07	6.9	6.23	6.13	6.95	7.61
8/10/2023	6.29	6.85	6.85	6.37	6.86	
8/12/2023						7.61
2/14/2024		7.05	6.57		6.95	
2/15/2024	6.17			6.11		7.85
8/7/2024	6.28	6.9			6.89	
8/8/2024			6.93	6.47		7.63
2/13/2025			6.96	6.01		
2/14/2025	6.92	6.83				
2/15/2025					7.17	
2/16/2025						7.99

Time Series

Constituent: pH, Field (SU) Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-25D	MW-26D	MW-27D	MW-28D	MW-29
3/12/2019				7.46	7.2
3/13/2019		7.4	7.78		
3/14/2019	7.67				
4/2/2019				7.4	6.91
4/3/2019	7.56	7.25			
4/4/2019			7.63		
9/24/2019					6.86
9/26/2019		7.16	7.46	7.4	
9/27/2019	7.57				
11/25/2019		7.03			
3/2/2020					7.13
3/3/2020	7.56				
3/4/2020		11.12	8.33	7.55	
3/26/2020	7.57				
3/27/2020				7.42	
3/30/2020					7.07
3/31/2020		7.2			
4/2/2020			8.11		
9/16/2020					6.88
9/17/2020		7.08			
9/18/2020	7.64		7.51		
9/21/2020				7.46	
2/10/2021				7.54	
2/12/2021	7.77				
2/15/2021					7.09
2/16/2021		7.27	7.96		
3/12/2021			7.88		
3/15/2021				7.61	7.05
3/16/2021	7.76				
3/17/2021		7.14			
8/16/2021					7.08
8/17/2021		7.14	7.75		
8/18/2021				7.16	
8/19/2021	7.69				
2/9/2022	7.82	7.32			
2/10/2022			7.96	7.59	7.27
8/3/2022			7.4		6.87
8/4/2022	7.66	7.08		7.38	
1/26/2023	7.74	7.14		7.67	7.22
1/27/2023			7.8		
8/10/2023	7.73				7.06
8/11/2023		7.2		7.5	
8/12/2023			7.8		
10/31/2023				7.57	
2/14/2024				7.5	7.06
2/15/2024	7.7	7.23			
2/16/2024			9.12		
8/7/2024	7.67				
8/8/2024		7.31	8.8	7.52	7.09
2/13/2025	7.65				
2/14/2025		6.53			
2/15/2025			9.79		

Time Series

Constituent: pH, Field (SU) Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-25D	MW-26D	MW-27D	MW-28D	MW-29
2/16/2025				7.57	7.24

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-7
5/19/2016	<0.005	<0.005	<0.005			
5/20/2016						<0.005
7/11/2016	<0.005	<0.005				
7/12/2016			<0.005			<0.005
8/30/2016	<0.005	<0.005	<0.005			
9/1/2016						<0.005
10/19/2016	<0.005	<0.005	<0.005			
10/20/2016						<0.005
12/6/2016	<0.005	<0.005	<0.005			<0.005
1/24/2017	<0.005	<0.005	<0.005			
1/25/2017						<0.005
3/21/2017	<0.005	<0.005	<0.005			<0.005
5/22/2017	<0.005	<0.005	<0.005			
5/23/2017						<0.005
4/2/2018	<0.005	<0.005				
4/3/2018			<0.005			<0.005
6/4/2018	<0.005	<0.005	<0.005			
6/5/2018						<0.005
10/1/2018	<0.005	<0.005	<0.005			
10/2/2018						<0.005
3/12/2019	<0.005	<0.005	<0.005			
3/13/2019						<0.005
4/1/2019			<0.005			
4/2/2019	<0.005	<0.005				<0.005
9/23/2019	<0.005	<0.005	<0.005			
9/25/2019						<0.005
3/2/2020	<0.005	<0.005	<0.005			
3/4/2020						<0.005
3/25/2020	<0.005	<0.005	<0.005			
3/27/2020						<0.005
8/25/2020		<0.005	<0.005			
8/28/2020	<0.005					
9/15/2020	<0.005	<0.005	<0.005			
9/16/2020				<0.005	<0.005	<0.005
11/10/2020				<0.005	<0.005	
12/15/2020				<0.005	<0.005	
1/19/2021				<0.005	<0.005	
2/8/2021	<0.005					
2/9/2021		<0.005	<0.005	<0.005	<0.005	
2/10/2021						<0.005
3/10/2021	0.0047 (J)				<0.005	
3/11/2021		<0.005	<0.005	<0.005		
3/15/2021						<0.005
8/11/2021	<0.005			<0.005		
8/12/2021		<0.005	<0.005			
8/13/2021					<0.005	
8/16/2021						<0.005
2/1/2022	<0.005	<0.005	<0.005	<0.005	<0.005	
2/10/2022						<0.005
8/2/2022	<0.005	0.0014 (J)	<0.005	<0.005	<0.005	
8/11/2022						<0.005
1/23/2023			<0.005			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-7
1/24/2023	<0.005	<0.005		<0.005	<0.005	
1/27/2023						<0.005
8/8/2023	<0.005	0.0019 (J)	<0.005	<0.005	<0.005	
8/12/2023						<0.005
2/13/2024	<0.005	0.002 (J)	<0.005	<0.005	<0.005	
2/14/2024						<0.005
8/5/2024	<0.005	0.0013 (J)	<0.005			
8/6/2024				<0.005	<0.005	
8/7/2024						<0.005
2/12/2025	<0.005		<0.005	<0.005	<0.005	
2/14/2025		0.0043 (J)				
2/16/2025						<0.005

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-8	HGWC-9	HGWC-10	HGWC-11	HGWC-12	HGWC-13
5/20/2016	<0.05					
5/23/2016		<0.005	<0.005	0.0106	<0.005	<0.005
7/12/2016	<0.05	<0.005	<0.005	0.0057 (J)	<0.005	<0.005
9/1/2016	<0.05	<0.005	<0.005	0.0057 (J)	<0.005	<0.005
10/20/2016	<0.05	<0.005				
10/24/2016			<0.005	0.0021 (J)	<0.005	<0.005
12/6/2016	0.0024 (J)	0.0037 (J)				
12/7/2016			<0.005	0.0015 (J)	0.0011 (J)	<0.005
1/25/2017	<0.05					
1/26/2017		<0.005	0.0041 (J)	0.0062 (J)	<0.005	<0.005
3/21/2017	<0.05					
3/22/2017		<0.005	<0.005	0.0263	<0.005	<0.005
5/23/2017	<0.05	<0.005				
5/24/2017			<0.005	0.0038 (J)	<0.005	<0.005
4/3/2018	<0.05	<0.005				
4/4/2018			<0.005	0.021	<0.005	<0.005
6/5/2018			<0.005	0.0062 (J)		<0.005
6/6/2018	<0.05	<0.005			<0.005	
10/2/2018	<0.05	<0.005	0.0023 (J)			
10/3/2018				0.009 (J)	<0.005	
10/5/2018						<0.005
3/12/2019	<0.05					
3/13/2019		<0.005	0.0015 (J)	0.023		<0.005
3/14/2019					<0.005	
4/3/2019	<0.05	<0.005	<0.005	0.016	<0.005	
4/5/2019						0.00018 (J)
9/24/2019	<0.05					
9/26/2019						<0.005
9/27/2019		<0.005	<0.005	0.013	<0.005	
3/3/2020	<0.05		<0.005	0.016	<0.005	
3/4/2020		<0.005				<0.005
3/26/2020					<0.005	
3/27/2020	<0.05					
3/30/2020						<0.005
3/31/2020		<0.005		0.019		
4/1/2020			0.002 (J)			
9/16/2020	<0.05		<0.005			
9/17/2020		<0.005				
9/18/2020				0.0042 (J)	<0.005	
9/21/2020						0.0016 (J)
2/12/2021				0.0079 (J)	<0.005	
2/15/2021			0.0028 (J)			
2/16/2021	<0.05	<0.005				
2/22/2021						<0.005
3/12/2021			<0.005			
3/15/2021	<0.05					
3/16/2021		<0.005		0.015	<0.005	
3/17/2021						<0.005
8/17/2021		<0.005	<0.005			
8/18/2021	<0.05			0.0033 (J)	<0.005	
8/19/2021						<0.005
2/9/2022		<0.005	0.0031 (J)	0.0035 (J)	<0.005	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-8	HGWC-9	HGWC-10	HGWC-11	HGWC-12	HGWC-13
2/10/2022	<0.05					<0.005
8/3/2022	<0.05		0.0017 (J)	0.0057	<0.005	<0.005
8/4/2022		<0.005				
1/26/2023		<0.005		0.01	<0.005	<0.005
1/27/2023			0.0035 (J)			
2/1/2023	<0.05					
8/10/2023			<0.005	0.0089	<0.005	
8/11/2023		<0.005				
8/12/2023	<0.05					<0.005
2/14/2024	<0.05					
2/15/2024		<0.005	0.0038 (J)	0.0063	<0.005	
2/16/2024						<0.005
8/7/2024	<0.05	<0.005	<0.005	0.0084	<0.005	
8/8/2024						<0.005
2/13/2025				<0.05	<0.005	
2/14/2025			0.0024 (J)			
2/15/2025	<0.05	<0.005				
2/17/2025						<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-5	MW-6	MW-7	MW-19	MW-20	MW-24D
3/13/2019	0.0033 (J)	<0.005	0.0016 (J)		<0.005	<0.005
3/14/2019				<0.05		
4/2/2019					<0.005	
4/3/2019	0.0027 (J)	<0.005	<0.005	0.007 (J)		
4/8/2019						<0.005
9/25/2019	0.0021 (J)				<0.005	
9/26/2019		<0.005	0.0014 (J)			<0.005
9/27/2019				0.0013 (J)		
3/2/2020	0.0041 (J)				<0.005	
3/3/2020		<0.005	<0.005			
3/4/2020				0.0044 (J)		<0.005
3/26/2020	0.0039 (J)			0.0053 (J)		
3/27/2020		<0.005			<0.005	
3/30/2020			0.0014 (J)			<0.005
9/17/2020	0.0028 (J)				<0.005	
9/21/2020		<0.005	0.0026 (J)	0.0033 (J)		<0.005
2/11/2021					<0.005	
2/12/2021				0.0021 (J)		
2/15/2021			<0.005			
2/16/2021	0.0035 (J)	<0.005				<0.005
3/15/2021			0.0021 (J)		<0.005	
3/16/2021	0.0026 (J)	<0.005				
3/17/2021				<0.05		<0.005
8/17/2021	0.0017 (J)	<0.005	<0.005		<0.005	
8/18/2021				0.0026 (J)		
8/19/2021						<0.005
2/8/2022			0.0015 (J)			
2/9/2022	0.0027 (J)	<0.005		0.0036 (J)		
2/10/2022					<0.005	<0.005
8/3/2022	0.0032 (J)	<0.005				<0.005
8/4/2022			<0.005	0.0022 (J)	<0.005	
1/26/2023	0.0045 (J)	<0.005	<0.005	0.0056	<0.005	<0.005
8/10/2023	0.002 (J)	<0.005	<0.005	0.0038 (J)	<0.005	
8/12/2023						<0.005
2/14/2024		0.0013 (J)	<0.005		<0.005	
2/15/2024	0.0043 (J)			0.0082		<0.005
8/7/2024	0.003 (J)	<0.005			<0.005	
8/8/2024			0.0015 (J)	0.0034 (J)		<0.005
2/13/2025			0.0019 (J)	<0.05		
2/14/2025	0.0034 (J)	0.0035 (J)				
2/15/2025					<0.005	
2/16/2025						<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-25D	MW-26D	MW-27D	MW-28D	MW-29
3/12/2019				<0.005	<0.005
3/13/2019		<0.005	<0.005		
3/14/2019	<0.005				
4/2/2019				<0.005	<0.005
4/3/2019	<0.005	<0.005			
4/4/2019			0.00012 (J)		
9/24/2019					<0.005
9/26/2019		<0.005	<0.005	<0.005	
9/27/2019	<0.005				
3/2/2020					<0.005
3/3/2020	<0.005				
3/4/2020		<0.005	<0.005	<0.005	
3/26/2020	<0.005				
3/27/2020				<0.005	
3/30/2020					<0.005
3/31/2020		<0.005			
4/2/2020			<0.005		
9/16/2020					<0.005
9/17/2020		<0.005			
9/18/2020	<0.005		<0.005		
9/21/2020				<0.005	
2/10/2021				<0.005	
2/12/2021	<0.005				
2/15/2021					<0.005
2/16/2021		<0.005	<0.005		
3/12/2021			<0.005		
3/15/2021				<0.005	<0.005
3/16/2021	<0.005				
3/17/2021		<0.005			
8/16/2021					<0.005
8/17/2021		<0.005	<0.005		
8/18/2021				<0.005	
8/19/2021	<0.005				
2/9/2022	<0.005	<0.005			
2/10/2022			<0.005	<0.005	<0.005
8/3/2022			<0.005		<0.005
8/4/2022	<0.005	<0.005		<0.005	
1/26/2023	<0.005	<0.005		<0.005	<0.005
1/27/2023			<0.005		
8/10/2023	<0.005				<0.005
8/11/2023		<0.005		<0.005	
8/12/2023			<0.005		
2/14/2024				<0.005	<0.005
2/15/2024	<0.005	<0.005			
2/16/2024			<0.005		
8/7/2024	<0.005				
8/8/2024		<0.005	<0.005	<0.005	<0.005
2/13/2025	<0.005				
2/14/2025		<0.005			
2/15/2025			<0.005		
2/16/2025				<0.005	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-7
5/19/2016	66.9	48.6	42.3			
5/20/2016						96
7/11/2016	41	45				
7/12/2016			44			100
8/30/2016	36	42	40			
9/1/2016						100
10/19/2016	46	44	43			
10/20/2016						110
12/6/2016	59	44	43			110
1/24/2017	46	46	48			
1/25/2017						110
3/21/2017	63	46	45			110
5/22/2017	77	48	46			
5/23/2017						110
10/3/2017	42	47	48			120
6/4/2018	71.8	47.8	46.6			
6/5/2018						117
10/1/2018	49.1	48.1	48.6			
10/2/2018						120
4/1/2019			50.4			
4/2/2019	84.3	48.7				127
9/23/2019	70.2	47.2	43.9			
9/25/2019						109
3/25/2020	85.9	46.3	50.5			
3/27/2020						109
6/16/2020	88.2		49.5			
6/17/2020						102
9/15/2020	47.3	51.5	44.7			
9/16/2020				43	24.95 (D)	109
11/10/2020				39	6.3	
12/15/2020				38.8	6.7	
1/19/2021				37.3	7.4	
3/10/2021	49.6				<1	
3/11/2021		52.9	50.4	38.6		
3/15/2021						107
8/11/2021	48.9			30.5		
8/12/2021		47.4	38.6			
8/13/2021					56.1	
8/16/2021						98.1
2/1/2022	43.7	67.1	46	37.5	56.3	
2/10/2022						97.5
8/2/2022	58.1	86.9	43.5	37	13.2	
8/11/2022						121
1/23/2023			39.5			
1/24/2023	48.3	79.7		34.7	10.1	
1/27/2023						119
8/8/2023	67.7	89.9	35	25.6	1.3	
8/12/2023						84.2
2/13/2024	50.4	93.9	35.5	28.9	2	
2/14/2024						102
8/5/2024	49.4	87.2	31.1			
8/6/2024				25.5	0.86 (J)	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-7
8/7/2024						86.5
2/12/2025	43.8		28	25.2	0.51 (J)	
2/14/2025		94.5 (M1)				
2/16/2025						98.5 (M1)

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-8	HGWC-9	HGWC-10	HGWC-11	HGWC-12	HGWC-13
5/20/2016	219					
5/23/2016		207	175	260	288	215
7/12/2016	230	230	190	390	320	210
9/1/2016	230	230	190	240	300	190
10/20/2016	240	240				
10/24/2016			190	370	270	180
12/6/2016	250	240				
12/7/2016			200	260	280	120
1/25/2017	260					
1/26/2017		270	90	230	260	83
3/21/2017	240					
3/22/2017		240	170	330	220	100
5/23/2017	270	240				
5/24/2017			190	230	210	110
10/3/2017	230	240	200	230	190	67
6/5/2018			205	204		187
6/6/2018	190	214			162	
10/2/2018	193	218	178			
10/3/2018				233	191	
10/5/2018						78.3
4/3/2019	194	214	159	298	176	
4/5/2019						105
9/24/2019	133					
9/26/2019						444
9/27/2019		214	181	<10	198	
3/26/2020					182	
3/27/2020	173					
3/30/2020						393
3/31/2020		185		283		
4/1/2020			59			
6/16/2020	157					
9/16/2020	194		169			
9/17/2020		209				
9/18/2020				272	266	
9/21/2020						359
3/12/2021			120			
3/15/2021	272					
3/16/2021		211		291	248	
3/17/2021						384
8/17/2021		207	156			
8/18/2021	245			237	226	
8/19/2021						339
2/9/2022		224	49.2	276	252	
2/10/2022	224					371
8/3/2022	241		119	254	236	451
8/4/2022		243				
1/26/2023		217		209	228	495
1/27/2023			37.3			
2/1/2023	179					
8/10/2023			128	190	209	
8/11/2023		197				
8/12/2023	170					347

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-8	HGWC-9	HGWC-10	HGWC-11	HGWC-12	HGWC-13
2/14/2024	137					
2/15/2024		199	51.2	208	240	
2/16/2024						285
8/7/2024	124	187	111	206	220	
8/8/2024						239
2/13/2025				155 (M1)	198	
2/14/2025			39.2			
2/15/2025	104	169				
2/17/2025						167 (M1)

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-5	MW-6	MW-7	MW-19	MW-20	MW-24D
4/2/2019					122	
4/3/2019	218	228	75.3	105		
4/8/2019						97.3
9/25/2019	134				112	
9/26/2019		225	129			91
9/27/2019				170		
3/26/2020	176			310		
3/27/2020		204			114	
3/30/2020			46.2			84.9
9/17/2020	153				110	
9/21/2020		221	114	305		114
3/15/2021			92.1		109	
3/16/2021	162	189				
3/17/2021				260		137
8/17/2021	154	194	105		98.6	
8/18/2021				219		
8/19/2021						130
2/8/2022			80.4			
2/9/2022	123	197		221		
2/10/2022					95.9	127
8/3/2022	135	190				135
8/4/2022			76	412	110	
1/26/2023	137	203	26	214	109	152
8/10/2023	137	174	67.3	210	100	
8/12/2023						146
2/14/2024		189	24.5		104	
2/15/2024	110			161		115
8/7/2024	135	163			91.1	
8/8/2024			61.5	170		134
2/13/2025			74	141		
2/14/2025	91.8	177				
2/15/2025					100	
2/16/2025						96.2

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-25D	MW-26D	MW-27D	MW-28D	MW-29
4/2/2019				67.7	151
4/3/2019	53	131			
4/4/2019			11.8		
9/24/2019					154
9/26/2019		189	15.6	96.2	
9/27/2019	48				
3/26/2020	32.3				
3/27/2020				36	
3/30/2020					130
3/31/2020		129			
4/2/2020			13.3		
9/16/2020					143
9/17/2020		174			
9/18/2020	27.4		7.5		
9/21/2020				84.2	
3/12/2021			7.4		
3/15/2021				50.1	148
3/16/2021	9.4				
3/17/2021		212			
8/16/2021					136
8/17/2021		194	8.2		
8/18/2021				82.1	
8/19/2021	4.1				
2/9/2022	1.7	224			
2/10/2022			13.2	32.5	141
8/3/2022			9.5		140
8/4/2022	0.97 (J)	239		80.5	
1/26/2023	0.59 (J)	240		40.8	161
1/27/2023			9.1		
8/10/2023	0.62 (J)				134
8/11/2023		159		15.4	
8/12/2023			7.6		
2/14/2024				61.6	146
2/15/2024	<1	219			
2/16/2024			6.7		
8/7/2024	0.79 (J)				
8/8/2024		187	6.6	14.3	140
2/13/2025	<1				
2/14/2025		160			
2/15/2025			6.5		
2/16/2025				53.6 (R1M1)	122

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: TDS (mg/L) Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-7
5/19/2016	421	143	267			
5/20/2016						427
7/11/2016	363	125				
7/12/2016			249			410
8/30/2016	330	168	254			
9/1/2016						484
10/19/2016	380	176	357			
10/20/2016						393
12/6/2016	377	145	285			492
1/24/2017	342	129	300			
1/25/2017						461
3/21/2017	340	103	288			415
5/22/2017	338	92	263			
5/23/2017						450
10/3/2017	343	127	300			464
6/4/2018	415	140	266			
6/5/2018						459
10/1/2018	354	135	291			
10/2/2018						426
4/1/2019			284			
4/2/2019	452	133				428
9/23/2019	442	129	268			
9/25/2019						503
3/25/2020	496	138	284			
3/27/2020						413
6/16/2020	632		448			
6/17/2020						423
9/15/2020	265	124	258			
9/16/2020				272	270	392
11/10/2020				307	287	
12/15/2020				289	295	
1/19/2021				270	278	
3/10/2021	348				289	
3/11/2021		169	267	279		
3/15/2021						370
8/11/2021	366			277		
8/12/2021		118	265			
8/13/2021					436	
8/16/2021						407
2/1/2022	270	156	350	156	444	
2/10/2022						414
8/2/2022	400	196	287	278	311	
8/11/2022						445
1/23/2023			293			
1/24/2023	369	164		271	363	
1/27/2023						473
8/8/2023	457	189	285	274	361	
8/12/2023						378
2/13/2024	402	214	284	291	379	
2/14/2024						440
8/5/2024	444	217	304			
8/6/2024				283	380	

Time Series

Constituent: TDS (mg/L) Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-7
8/7/2024						417
2/12/2025	374		267	273	363	
2/14/2025		242				
2/16/2025						408

Time Series

Constituent: TDS (mg/L) Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-8	HGWC-9	HGWC-10	HGWC-11	HGWC-12	HGWC-13
5/20/2016	711					
5/23/2016		984	629	564	1060	683
7/12/2016	704	887	661	627	909	563
9/1/2016	763	956	769	656	1480	702
10/20/2016	644	642				
10/24/2016			643	836	868	647
12/6/2016	733	899				
12/7/2016			697	748	811	465
1/25/2017	744					
1/26/2017		869	368	571	846	411
3/21/2017	818					
3/22/2017		936	683	597	804	427
5/23/2017	765	939				
5/24/2017			696	566	803	377
10/3/2017	812	1040	746	443	608	268
6/5/2018			679	489		528
6/6/2018	611	810			535	
10/2/2018	597	693	572			
10/3/2018				449	607	
10/5/2018						322
4/3/2019	543	673	525	483	462	
4/5/2019						331
9/24/2019	471.5 (D)					
9/26/2019						1010
9/27/2019		730	625 (D)	528	653	
3/26/2020					533	
3/27/2020	541					
3/30/2020						895
3/31/2020		1010		565		
4/1/2020			290			
6/16/2020	573					
9/16/2020	552		490			
9/17/2020		680				
9/18/2020				626	704	
9/21/2020						732
3/12/2021			490			
3/15/2021	614					
3/16/2021		672		558	614	
3/17/2021						716
8/17/2021		704	496			
8/18/2021	620			566	600	
8/19/2021						726
2/9/2022		756	250	544	678	
2/10/2022	578					814
8/3/2022	648		433	572	650	958
8/4/2022		760				
1/26/2023		745		429	624	962
1/27/2023			188			
2/1/2023	528					
8/10/2023			504	438	683	
8/11/2023		757				
8/12/2023	564					803

Time Series

Constituent: TDS (mg/L) Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-8	HGWC-9	HGWC-10	HGWC-11	HGWC-12	HGWC-13
2/14/2024	407					
2/15/2024		663	229	491	660	
2/16/2024						666
8/7/2024	469	731	501	437	642	
8/8/2024						544
2/13/2025				478	590	
2/14/2025			208			
2/15/2025	340	628				
2/17/2025						522

Time Series

Constituent: TDS (mg/L) Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-5	MW-6	MW-7	MW-19	MW-20	MW-24D
4/2/2019					435	
4/3/2019	396	437	213	310		
4/8/2019						323
9/25/2019	460				461	
9/26/2019		735	383			360
9/27/2019				431 (D)		
3/26/2020	385			626		
3/27/2020		676			429	
3/30/2020			142			280
9/17/2020	486				460	
9/21/2020		656	326	608		391
3/15/2021			293		406	
3/16/2021	333	600				
3/17/2021				543		420
8/17/2021	339	656	344		437	
8/18/2021				464		
8/19/2021						420
2/8/2022			290			
2/9/2022	314	652		503		
2/10/2022					459	412
8/3/2022	391	666				415
8/4/2022			246	762	431	
1/26/2023	363	646	89	490	482	412
8/10/2023	423	626	305	524	429	
8/12/2023						449
2/14/2024		633	113		459	
2/15/2024	328			402		343
8/7/2024	487	606			462	
8/8/2024			288	472		428
2/13/2025			302	396		
2/14/2025	345	634				
2/15/2025					472	
2/16/2025						301

Time Series

Constituent: TDS (mg/L) Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-25D	MW-26D	MW-27D	MW-28D	MW-29
4/2/2019				350	548
4/3/2019	15 (J)	493			
4/4/2019			203		
9/24/2019					603
9/26/2019		643	265	418	
9/27/2019	409				
3/26/2020	385				
3/27/2020				287	
3/30/2020					552
3/31/2020		623			
4/2/2020			224		
9/16/2020					547
9/17/2020		732			
9/18/2020	382		211		
9/21/2020				393	
3/12/2021			215		
3/15/2021				293	555
3/16/2021	347				
3/17/2021		738			
8/16/2021					512
8/17/2021		746	239		
8/18/2021				396	
8/19/2021	373				
2/9/2022	364	734			
2/10/2022			242	299	508
8/3/2022			230		538
8/4/2022	302	788		378	
1/26/2023	346	741		349	632
1/27/2023			255		
8/10/2023	325				564
8/11/2023		706		296	
8/12/2023			238		
2/14/2024				356	612
2/15/2024	334	666			
2/16/2024			348		
8/7/2024	323				
8/8/2024		689	217	331	596
2/13/2025	324				
2/14/2025		612			
2/15/2025			128		
2/16/2025				326	506

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-7
5/19/2016	<0.001	<0.001	<0.001			
5/20/2016						<0.001
7/11/2016	<0.001	<0.001				
7/12/2016			<0.001			<0.001
8/30/2016	<0.001	<0.001	<0.001			
9/1/2016						<0.001
10/19/2016	<0.001	<0.001	<0.001			
10/20/2016						<0.001
12/6/2016	<0.001	<0.001	<0.001			<0.001
1/24/2017	<0.001	<0.001	<0.001			
1/25/2017						<0.001
3/21/2017	<0.001	3E-05 (J)	<0.001			<0.001
5/22/2017	<0.001	<0.001	<0.001			
5/23/2017						<0.001
4/2/2018	<0.001	<0.001				
4/3/2018			<0.001			<0.001
6/4/2018	<0.001	<0.001	<0.001			
6/5/2018						<0.001
10/1/2018	<0.001	<0.001	<0.001			
10/2/2018						<0.001
3/12/2019	<0.001	<0.001	<0.001			
3/13/2019						<0.001
4/1/2019			<0.001			
4/2/2019	<0.001	<0.001				<0.001
9/23/2019	<0.001	<0.001	<0.001			
9/25/2019						<0.001
3/2/2020	<0.001	<0.001	<0.001			
3/4/2020						<0.001
3/25/2020	<0.001	<0.001	<0.001			
3/27/2020						<0.001
8/25/2020		<0.001	<0.001			
8/28/2020	<0.001					
9/15/2020	<0.001	<0.001	<0.001			
9/16/2020				<0.001	<0.001	<0.001
11/10/2020				<0.001	<0.001	
12/15/2020				<0.001	<0.001	
1/19/2021				<0.001	<0.001	
2/8/2021	<0.001					
2/9/2021		<0.001	<0.001	<0.001	<0.001	
2/10/2021						<0.001
3/10/2021	<0.001				<0.001	
3/11/2021		<0.001	<0.001	<0.001		
3/15/2021						<0.001
8/11/2021	<0.001			<0.001		
8/12/2021		<0.001	<0.001			
8/13/2021					<0.001	
8/16/2021						<0.001
2/1/2022	<0.001	<0.001	<0.001	<0.001	<0.001	
2/10/2022						<0.001
8/2/2022	<0.001	<0.001	<0.001	<0.001	<0.001	
8/11/2022						<0.001
1/23/2023			<0.001			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-7
1/24/2023	<0.001	<0.001		<0.001	<0.001	
1/27/2023						<0.001
8/8/2023	<0.001	<0.001	<0.001	<0.001	<0.001	
8/12/2023						<0.001
2/13/2024	<0.001	<0.001	<0.001	<0.001	<0.001	
2/14/2024						<0.001
8/5/2024	<0.001	<0.001	<0.001			
8/6/2024				<0.001	<0.001	
8/7/2024						<0.001
2/12/2025	<0.001		<0.001	<0.001	<0.001	
2/14/2025		<0.001				
2/16/2025						<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-8	HGWC-9	HGWC-10	HGWC-11	HGWC-12	HGWC-13
5/20/2016	<0.001					
5/23/2016		<0.001	<0.001	<0.001	<0.001	0.000378 (J)
7/12/2016	7E-05 (J)	<0.001	<0.001	8E-05 (J)	0.0002 (J)	0.0004 (J)
9/1/2016	<0.001	<0.001	<0.001	<0.001	<0.001	0.0004 (J)
10/20/2016	<0.001	<0.001				
10/24/2016			<0.001	<0.001	<0.001	0.0005 (J)
12/6/2016	<0.001	<0.001				
12/7/2016			<0.001	<0.001	<0.001	0.0004 (J)
1/25/2017	<0.001					
1/26/2017		<0.001	<0.001	<0.001	<0.001	0.0004 (J)
3/21/2017	9E-05 (J)					
3/22/2017		<0.001	<0.001	<0.001	0.0001 (J)	0.0004 (J)
5/23/2017	8E-05 (J)	<0.001				
5/24/2017			<0.001	8E-05 (J)	9E-05 (J)	0.0003 (J)
4/3/2018	<0.001	<0.001				
4/4/2018			<0.001	<0.001	<0.001	0.00032 (J)
6/5/2018			<0.001	<0.001		0.00035 (J)
6/6/2018	<0.001	<0.001			<0.001	
10/2/2018	<0.001	<0.001	<0.001			
10/3/2018				<0.001	<0.001	
10/5/2018						0.00025 (J)
3/12/2019	<0.001					
3/13/2019		<0.001	<0.001	<0.001		0.00039 (J)
3/14/2019					<0.001	
4/3/2019	<0.001	<0.001	<0.001	<0.001	<0.001	
4/5/2019						0.00034 (J)
9/24/2019	0.00011 (J)					
9/26/2019						0.00039 (J)
9/27/2019		<0.001	<0.001	<0.001	8.8E-05 (J)	
3/3/2020	6.1E-05 (J)		<0.001	<0.001	6.6E-05 (J)	
3/4/2020		<0.001				0.00056 (J)
3/26/2020					8E-05 (J)	
3/27/2020	7.7E-05 (J)					
3/30/2020						0.00048 (J)
3/31/2020		<0.001		<0.001		
4/1/2020			<0.001			
9/16/2020	<0.001		<0.001			
9/17/2020		<0.001				
9/18/2020				<0.001	<0.001	
9/21/2020						0.00036 (J)
2/12/2021				<0.001	<0.001	
2/15/2021			<0.001			
2/16/2021	<0.001	<0.001				
2/22/2021						0.0003 (J)
3/12/2021			<0.001			
3/15/2021	<0.001					
3/16/2021		<0.001		<0.001	<0.001	
3/17/2021						0.00037 (J)
8/17/2021		<0.001	<0.001			
8/18/2021	<0.001			<0.001	<0.001	
8/19/2021						0.0002 (J)
2/9/2022		<0.001	<0.001	<0.001	<0.001	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-8	HGWC-9	HGWC-10	HGWC-11	HGWC-12	HGWC-13
2/10/2022	<0.001					<0.001
8/3/2022	0.00018 (J)		<0.001	<0.001	<0.001	<0.001
8/4/2022		<0.001				
1/26/2023		<0.001		<0.001	<0.001	0.00031 (J)
1/27/2023			<0.001			
2/1/2023	<0.001					
8/10/2023			<0.001	<0.001	<0.001	
8/11/2023		<0.001				
8/12/2023	<0.001					0.00028 (J)
2/14/2024	<0.001					
2/15/2024		<0.001	<0.001	<0.001	<0.001	
2/16/2024						<0.001
8/7/2024	<0.001	<0.001	<0.001	<0.001	<0.001	
8/8/2024						<0.001
2/13/2025				<0.001	<0.001	
2/14/2025			<0.001			
2/15/2025	<0.001	<0.001				
2/17/2025						0.00025 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-5	MW-6	MW-7	MW-19	MW-20	MW-24D
3/13/2019	<0.001	<0.001	<0.001		<0.001	<0.001
3/14/2019				<0.001		
4/2/2019					<0.001	
4/3/2019	<0.001	<0.001	<0.001	<0.001		
4/8/2019						<0.001
9/25/2019	<0.001				<0.001	
9/26/2019		<0.001	<0.001			<0.001
9/27/2019				0.00027 (J)		
3/2/2020	<0.001				<0.001	
3/3/2020		8.2E-05 (J)	<0.001			
3/4/2020				0.00026 (J)		<0.001
3/26/2020	<0.001			0.00026 (J)		
3/27/2020		<0.001			<0.001	
3/30/2020			<0.001			<0.001
9/17/2020	<0.001				<0.001	
9/21/2020		<0.001	<0.001	0.0003 (J)		<0.001
2/11/2021					<0.001	
2/12/2021				0.00019 (J)		
2/15/2021			<0.001			
2/16/2021	<0.001	<0.001				<0.001
3/15/2021			<0.001		<0.001	
3/16/2021	<0.001	<0.001				
3/17/2021				0.00026 (J)		<0.001
8/17/2021	<0.001	<0.001	<0.001		<0.001	
8/18/2021				0.00023 (J)		
8/19/2021						<0.001
2/8/2022			<0.001			
2/9/2022	<0.001	<0.001		<0.001		
2/10/2022					<0.001	<0.001
8/3/2022	<0.001	<0.001				<0.001
8/4/2022			<0.001	0.00026 (J)	<0.001	
1/26/2023	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
8/10/2023	<0.001	<0.001	<0.001	<0.001	<0.001	
8/12/2023						<0.001
2/14/2024		<0.001	<0.001		<0.001	
2/15/2024	<0.001			<0.001		<0.001
8/7/2024	<0.001	<0.001			<0.001	
8/8/2024			<0.001	0.00043 (J)		<0.001
2/13/2025			<0.001	<0.001		
2/14/2025	<0.001	<0.001				
2/15/2025					<0.001	
2/16/2025						<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot

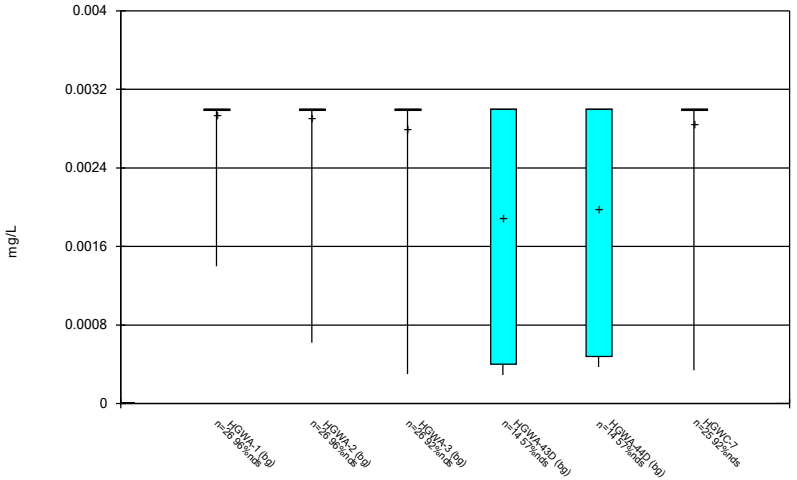
Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-25D	MW-26D	MW-27D	MW-28D	MW-29
3/12/2019				<0.001	<0.001
3/13/2019		<0.001	<0.001		
3/14/2019	<0.001				
4/2/2019				<0.001	<0.001
4/3/2019	<0.001	<0.001			
4/4/2019			<0.001		
9/24/2019					6.4E-05 (J)
9/26/2019		<0.001	<0.001	<0.001	
9/27/2019	<0.001				
3/2/2020					<0.001
3/3/2020	<0.001				
3/4/2020		<0.001	<0.001	9.2E-05 (J)	
3/26/2020	<0.001				
3/27/2020				<0.001	
3/30/2020					<0.001
3/31/2020		<0.001			
4/2/2020			<0.001		
9/16/2020					<0.001
9/17/2020		<0.001			
9/18/2020	<0.001		<0.001		
9/21/2020				<0.001	
2/10/2021				<0.001	
2/12/2021	<0.001				
2/15/2021					<0.001
2/16/2021		<0.001	<0.001		
3/12/2021			<0.001		
3/15/2021				<0.001	<0.001
3/16/2021	<0.001				
3/17/2021		<0.001			
8/16/2021					<0.001
8/17/2021		<0.001	<0.001		
8/18/2021				<0.001	
8/19/2021	<0.001				
2/9/2022	<0.001	<0.001			
2/10/2022			<0.001	<0.001	<0.001
8/3/2022			<0.001		<0.001
8/4/2022	<0.001	<0.001		<0.001	
1/26/2023	<0.001	<0.001		<0.001	<0.001
1/27/2023			<0.001		
8/10/2023	<0.001				<0.001
8/11/2023		<0.001		<0.001	
8/12/2023			<0.001		
2/14/2024				<0.001	<0.001
2/15/2024	<0.001	<0.001			
2/16/2024			<0.001		
8/7/2024	<0.001				
8/8/2024		<0.001	<0.001	<0.001	<0.001
2/13/2025	<0.001				
2/14/2025		<0.001			
2/15/2025			<0.001		
2/16/2025				<0.001	<0.001

ND substitution: RL or RL/2 if <15% NDs.

FIGURE B.

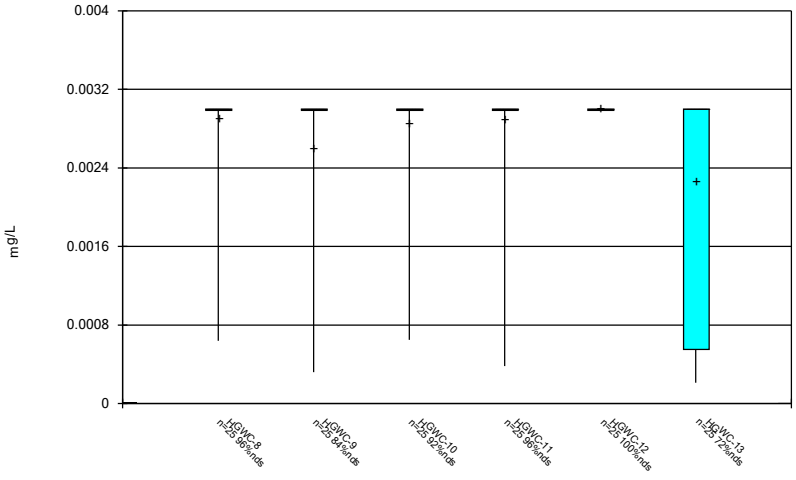
Box & Whiskers Plot



Constituent: Antimony Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

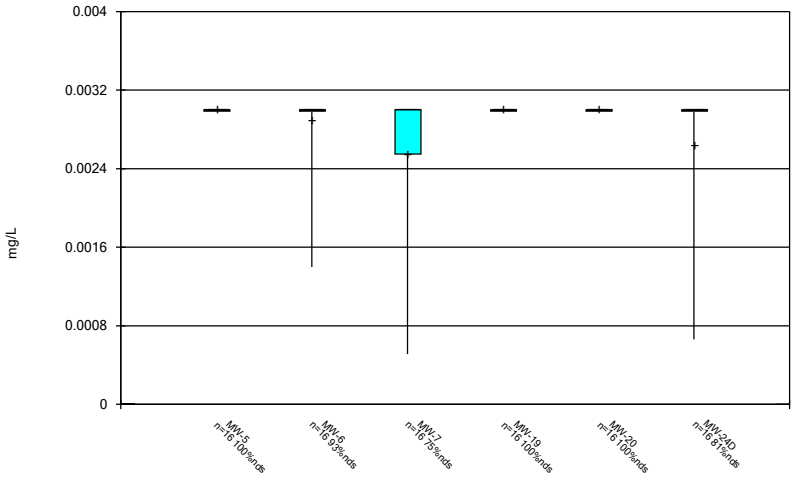
Box & Whiskers Plot



Constituent: Antimony Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

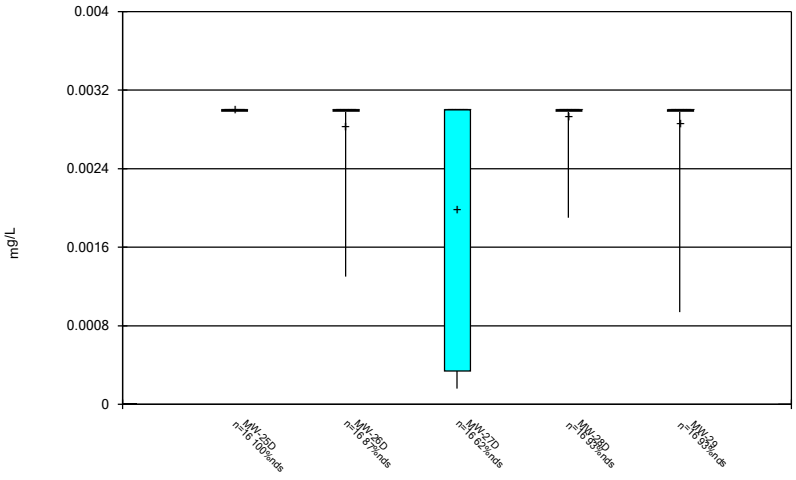
Box & Whiskers Plot



Constituent: Antimony Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



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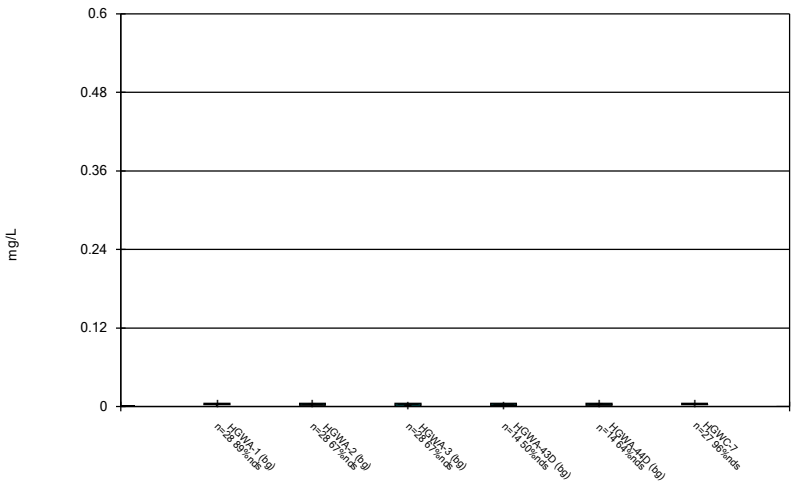
Plant Hammond Client: Southern Company Data: Hammond AP-1

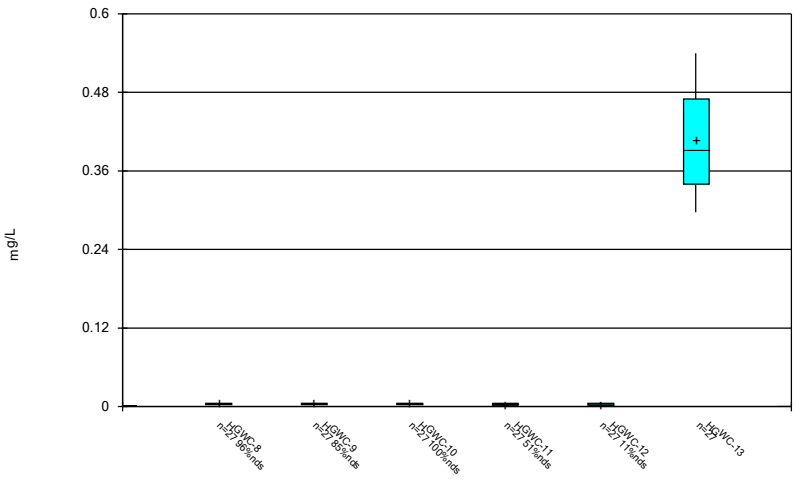
Box & Whiskers Plot



Constituent: Arsenic Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



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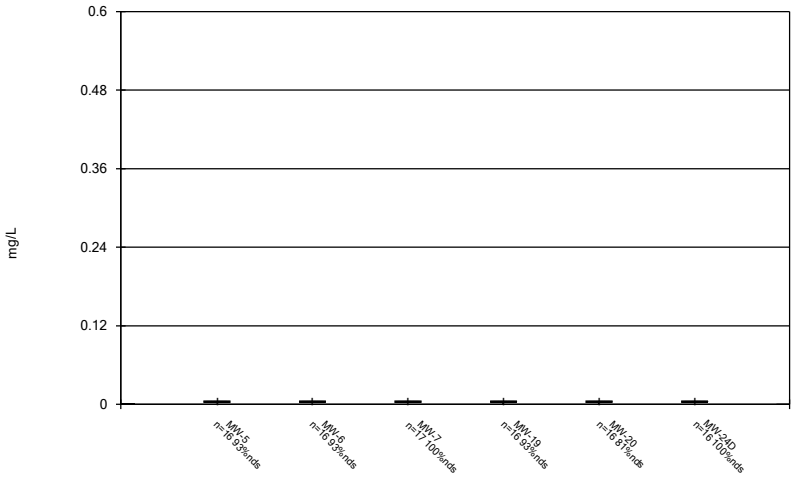
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



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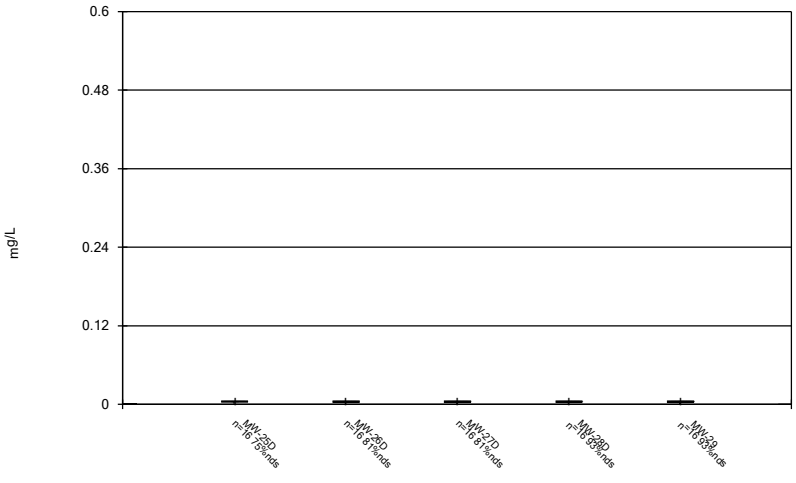
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



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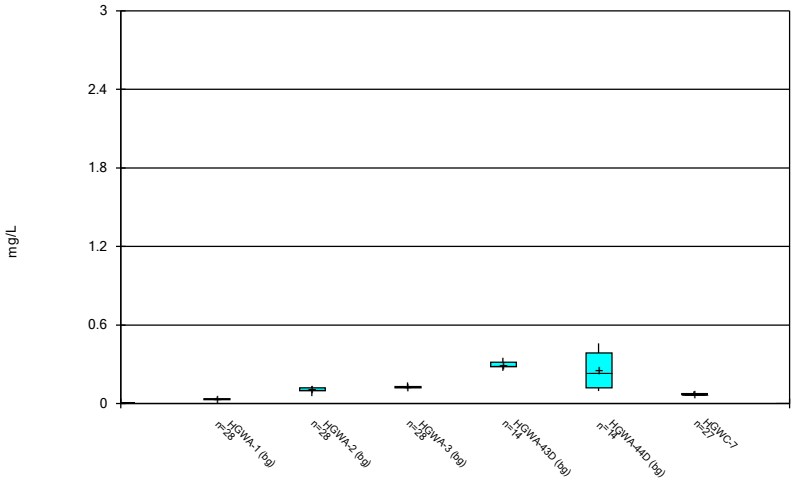
Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



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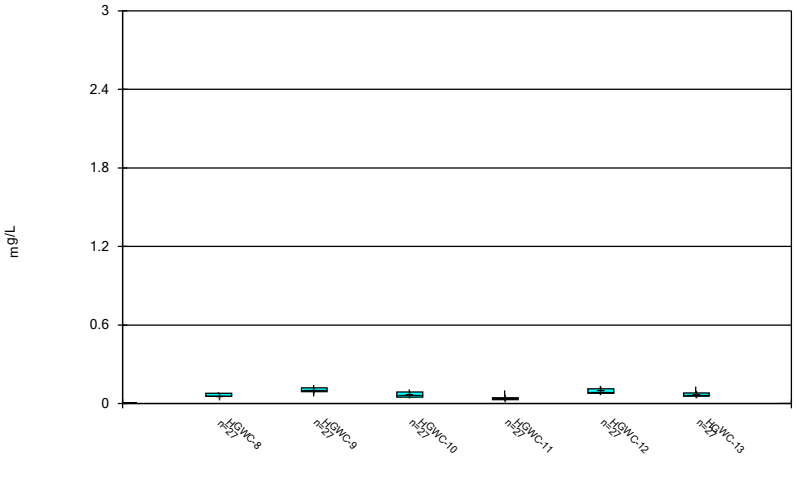
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

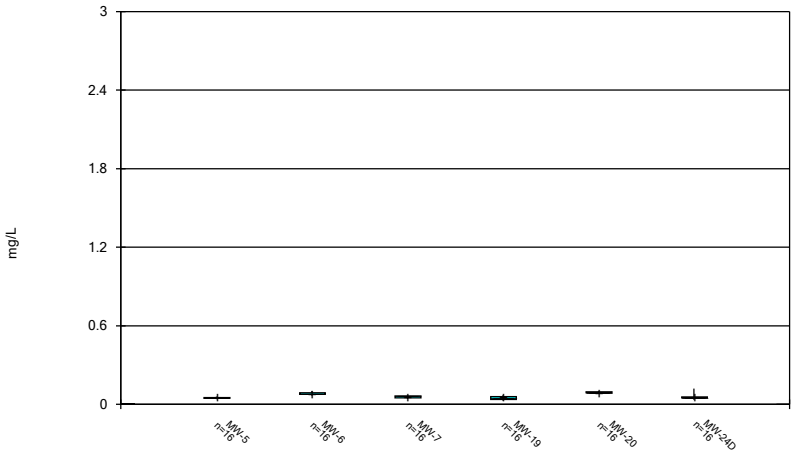
Box & Whiskers Plot



Constituent: Barium Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

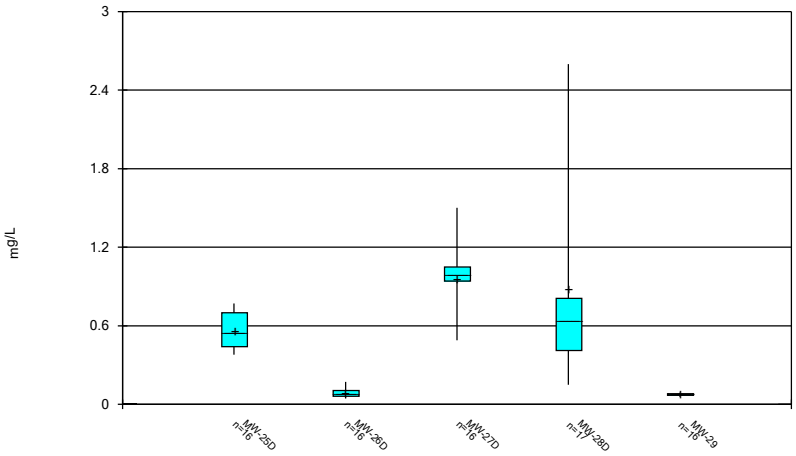
Box & Whiskers Plot



Constituent: Barium Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



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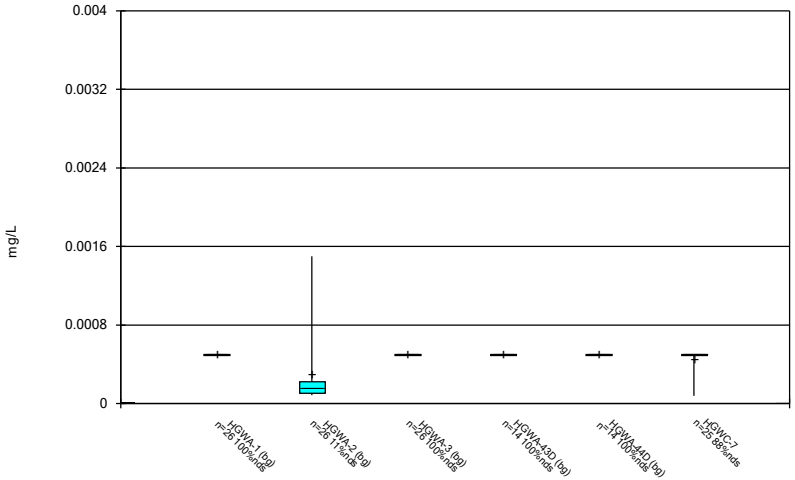
Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



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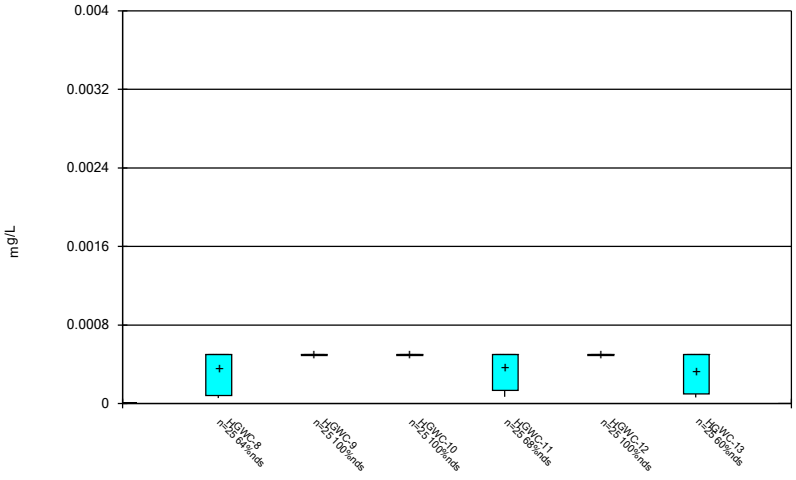
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



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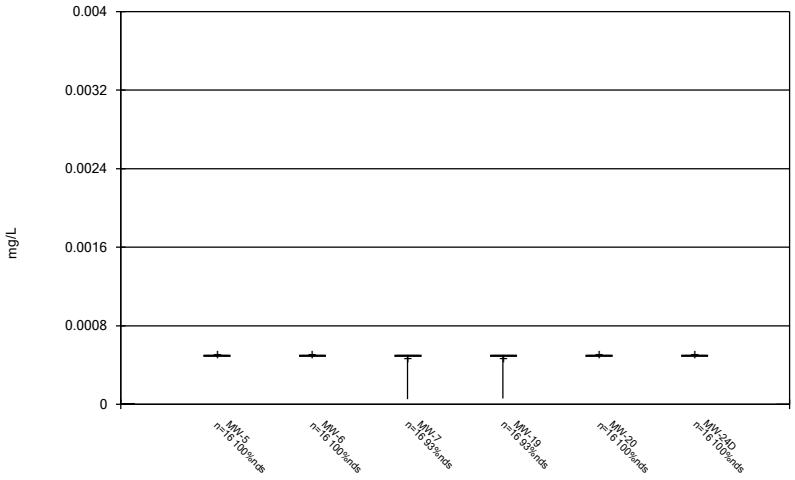
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



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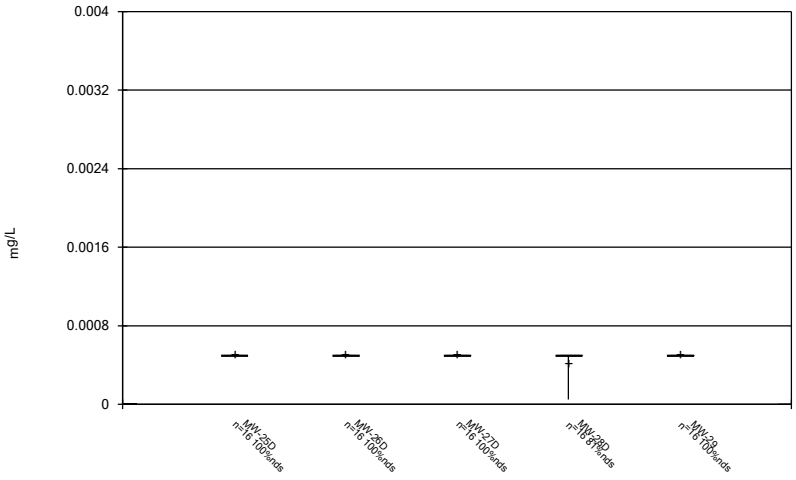
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



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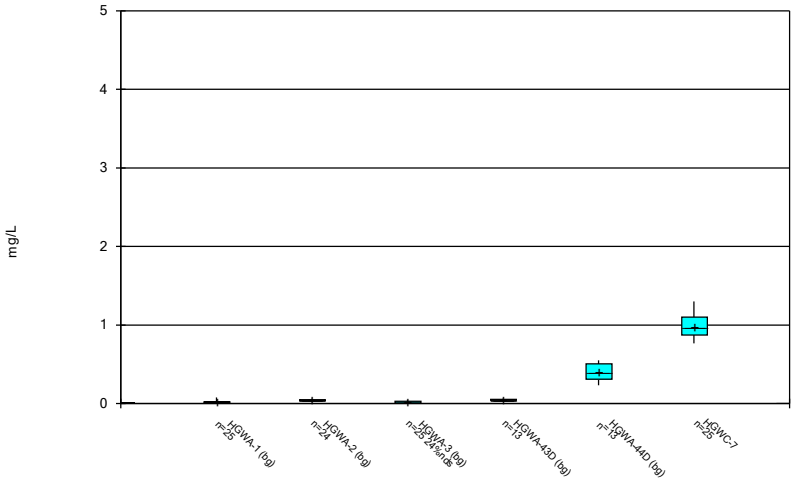
Plant Hammond Client: Southern Company Data: Hammond AP-1

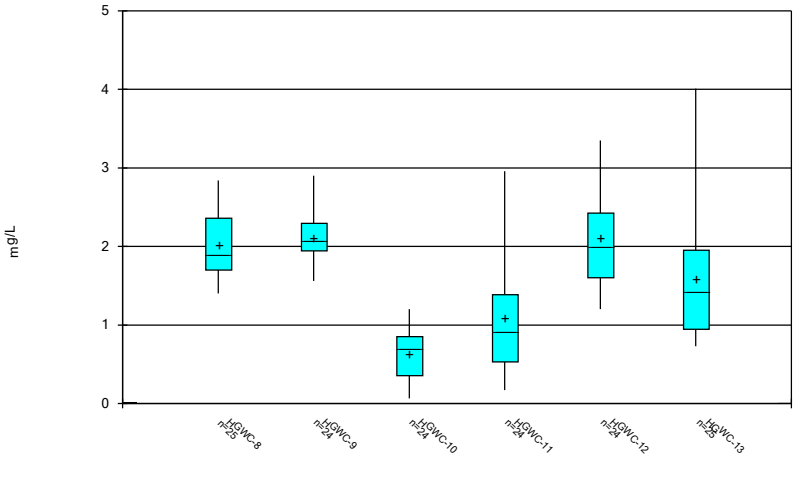
Box & Whiskers Plot



Constituent: Boron Analysis Run 4/22/2025 4:47 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



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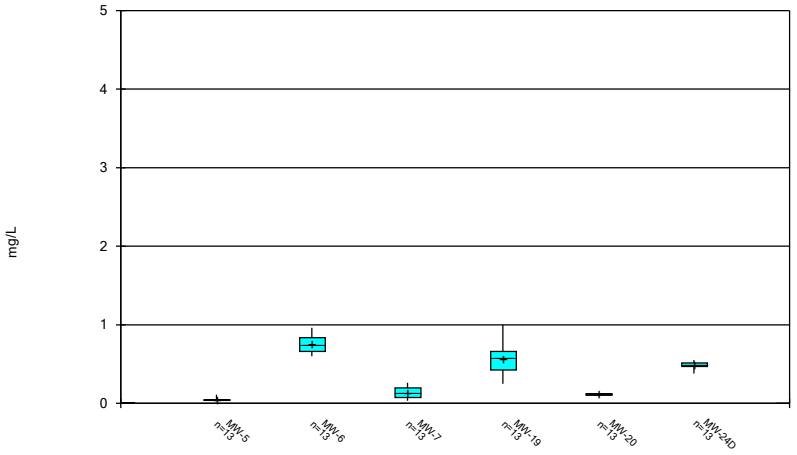
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

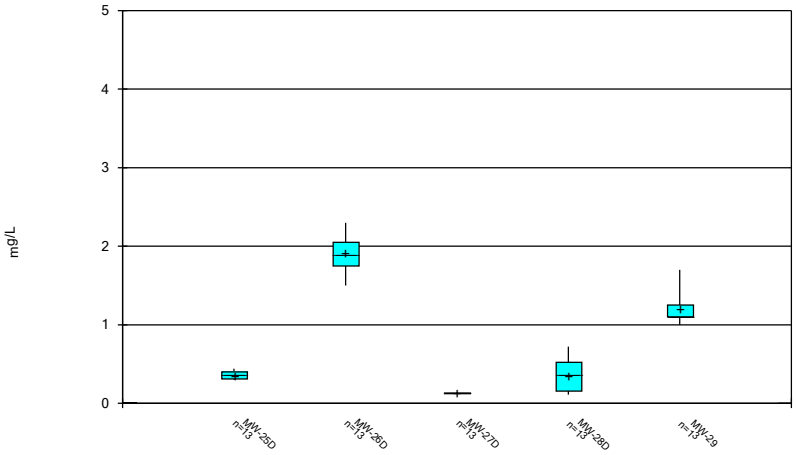
Box & Whiskers Plot



Constituent: Boron Analysis Run 4/22/2025 4:48 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



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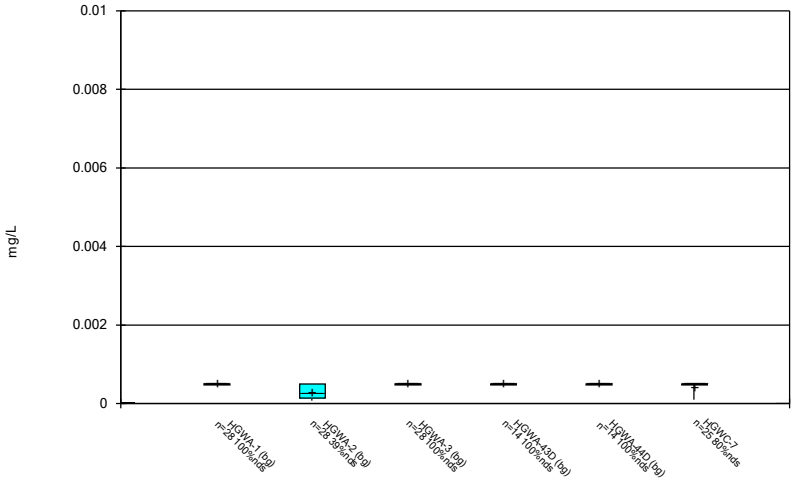
Plant Hammond Client: Southern Company Data: Hammond AP-1

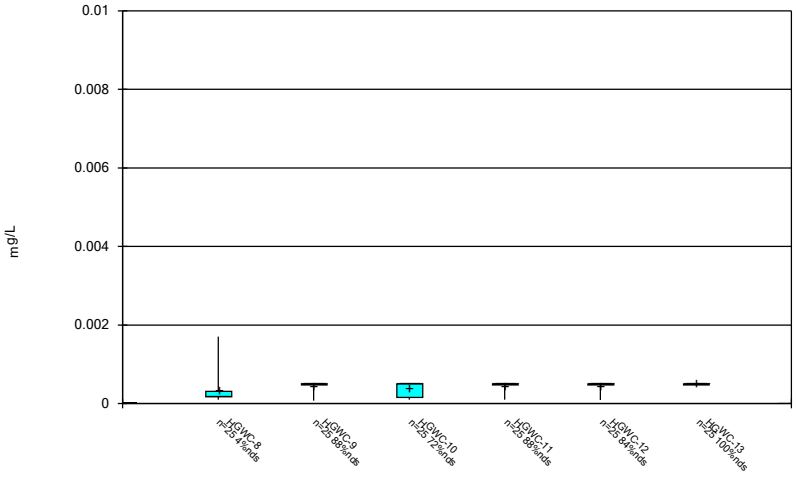
Box & Whiskers Plot



Constituent: Cadmium Analysis Run 4/22/2025 4:48 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



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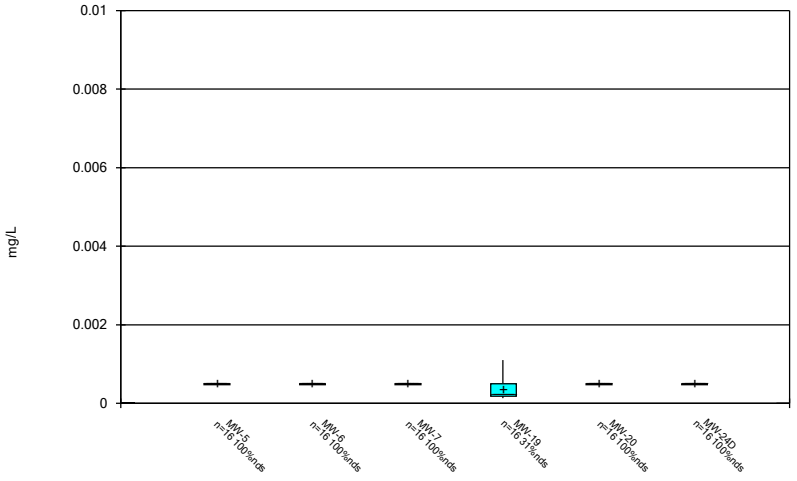
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



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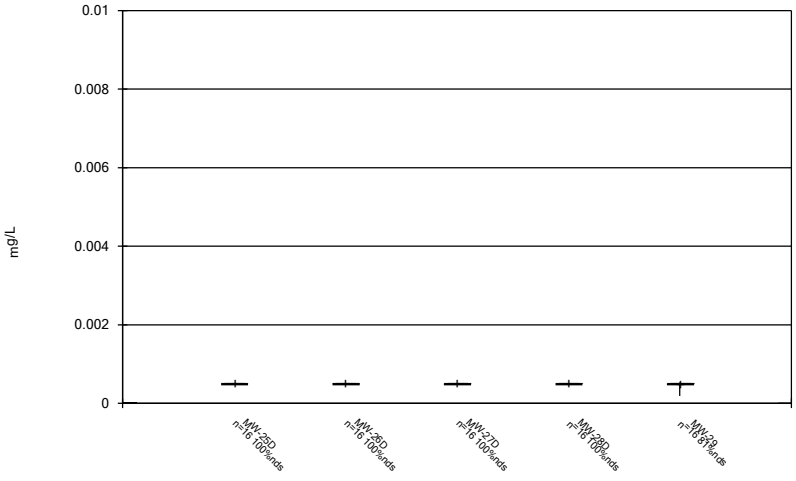
Plant Hammond Client: Southern Company Data: Hammond AP-1

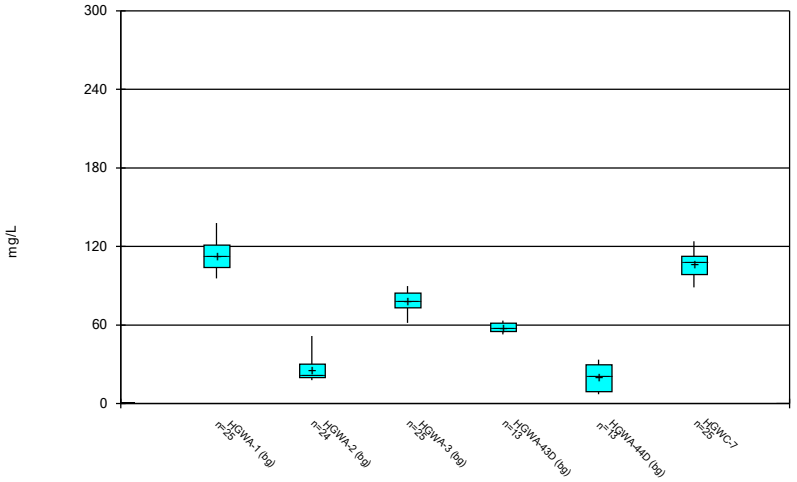
Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Cadmium Analysis Run 4/22/2025 4:48 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

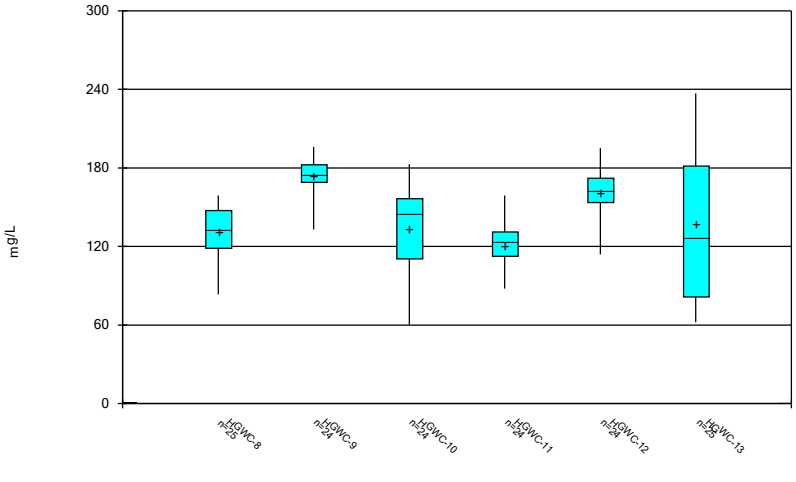
Box & Whiskers Plot



Constituent: Calcium Analysis Run 4/22/2025 4:48 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



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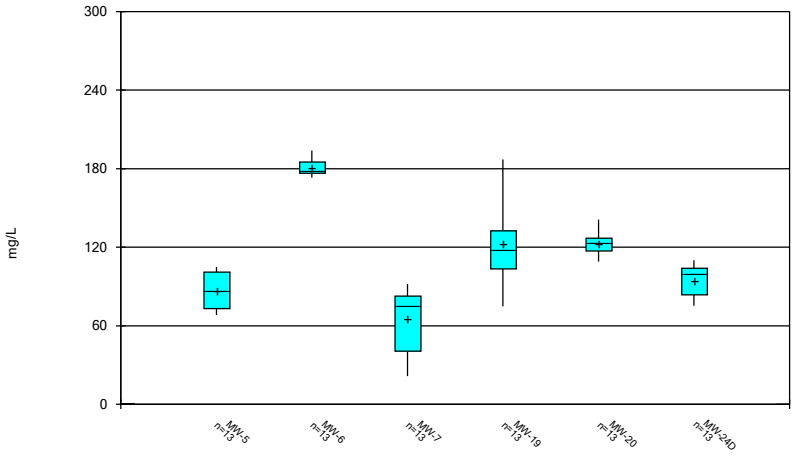
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

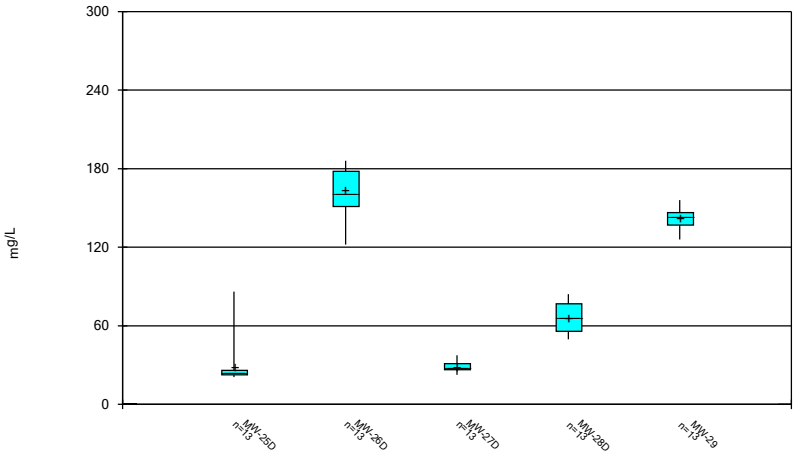
Box & Whiskers Plot



Constituent: Calcium Analysis Run 4/22/2025 4:48 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

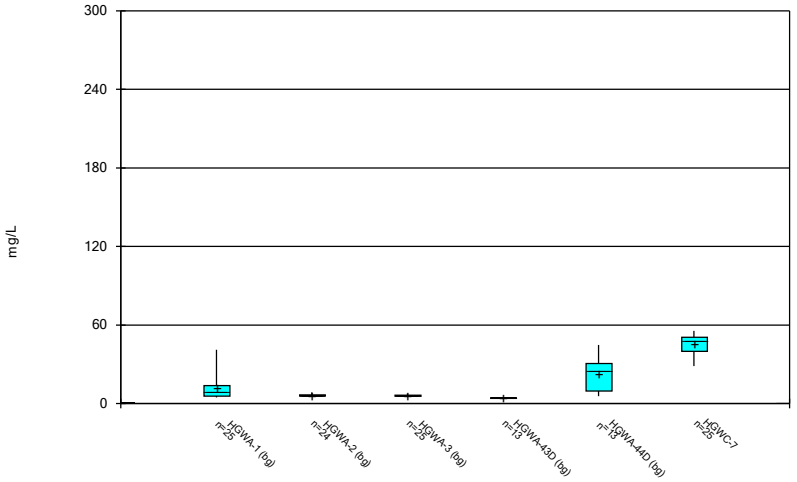
Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Calcium Analysis Run 4/22/2025 4:48 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

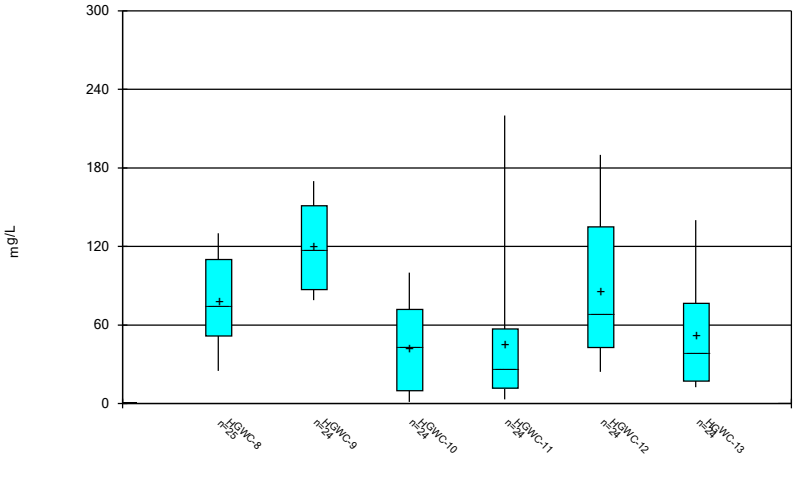
Box & Whiskers Plot



Constituent: Chloride Analysis Run 4/22/2025 4:48 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



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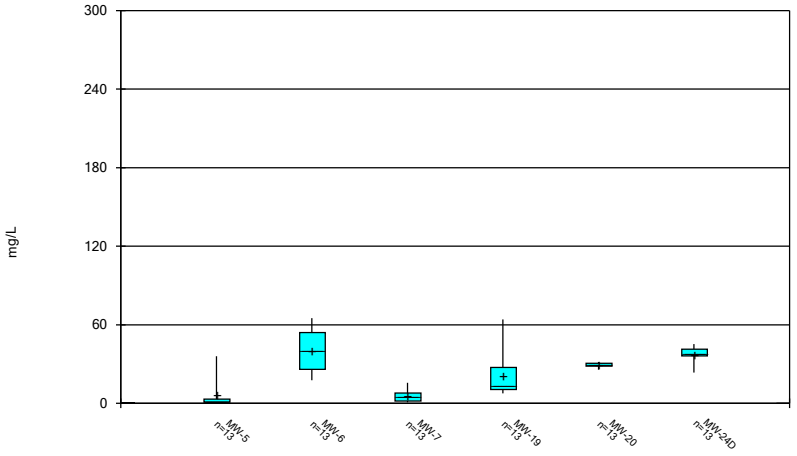
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

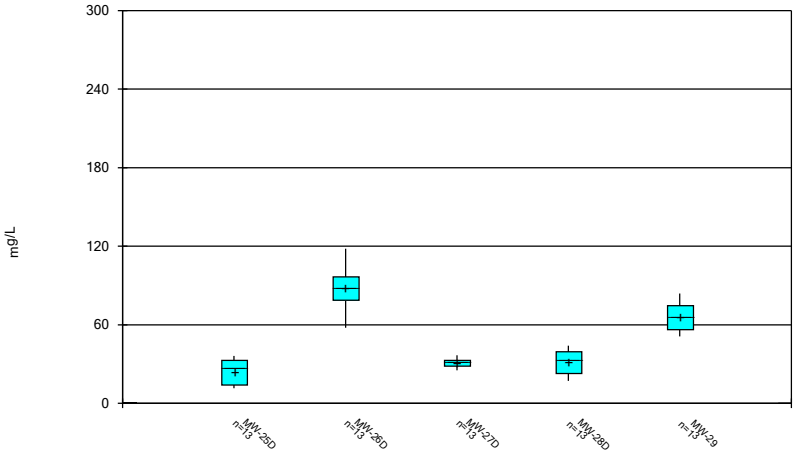
Box & Whiskers Plot



Constituent: Chloride Analysis Run 4/22/2025 4:48 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



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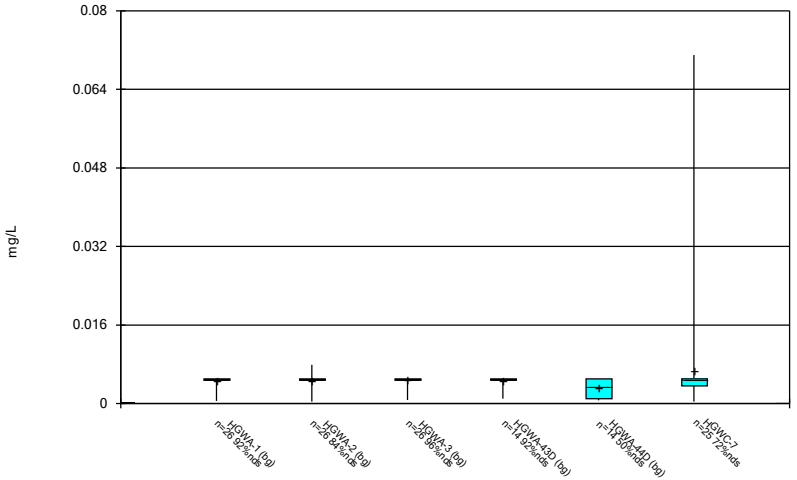
Plant Hammond Client: Southern Company Data: Hammond AP-1

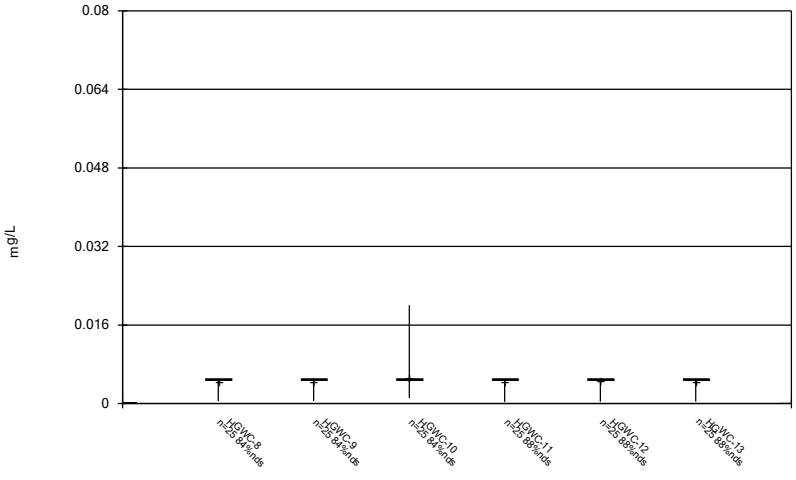
Box & Whiskers Plot



Constituent: Chromium Analysis Run 4/22/2025 4:48 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

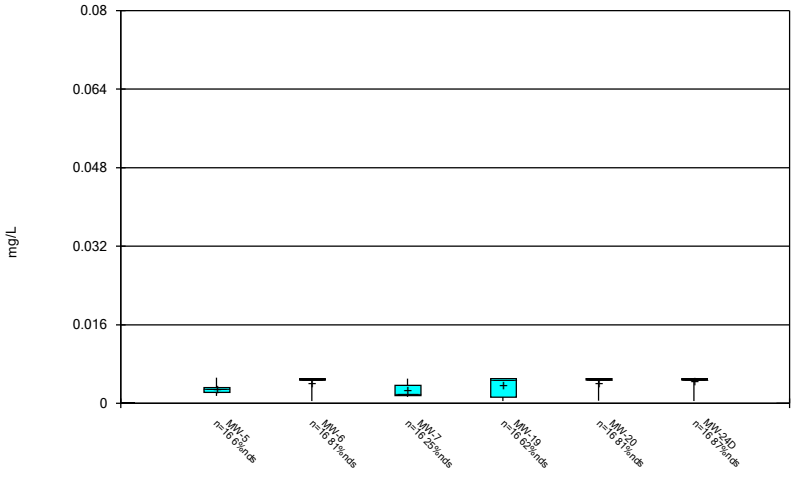
Box & Whiskers Plot



Constituent: Chromium Analysis Run 4/22/2025 4:48 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

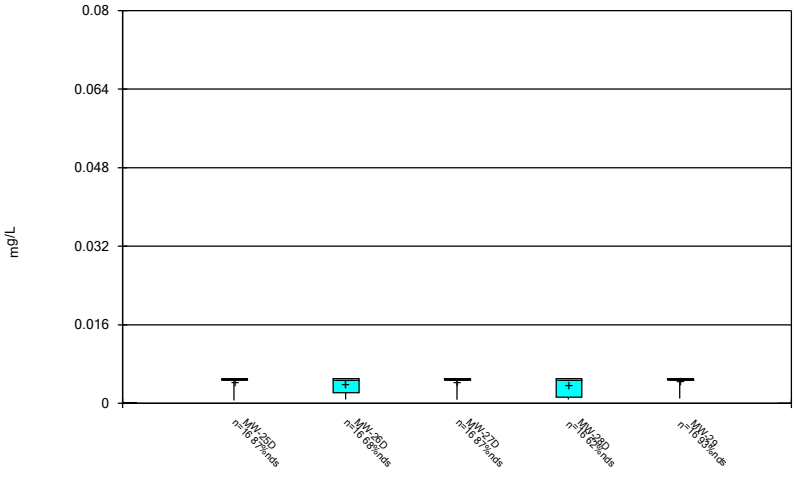
Box & Whiskers Plot



Constituent: Chromium Analysis Run 4/22/2025 4:48 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

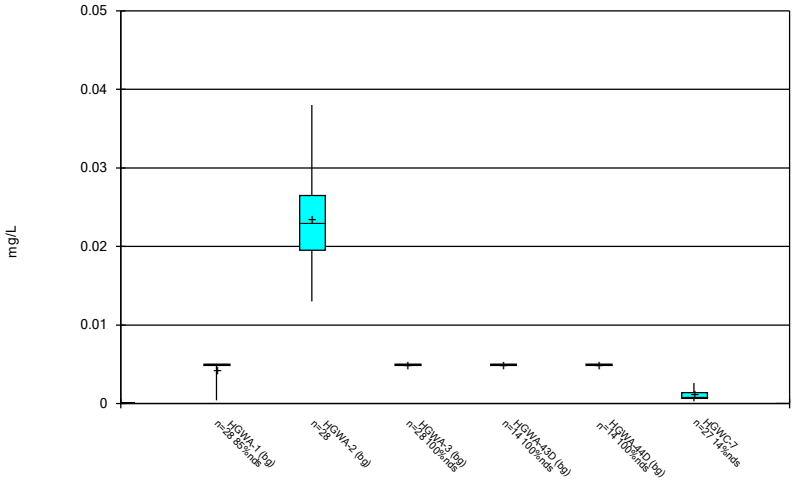
Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Chromium Analysis Run 4/22/2025 4:48 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

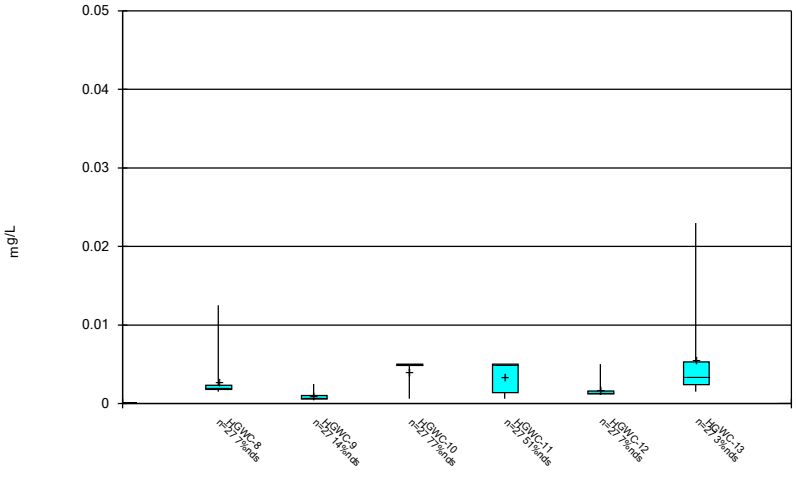
Box & Whiskers Plot



Constituent: Cobalt Analysis Run 4/22/2025 4:48 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



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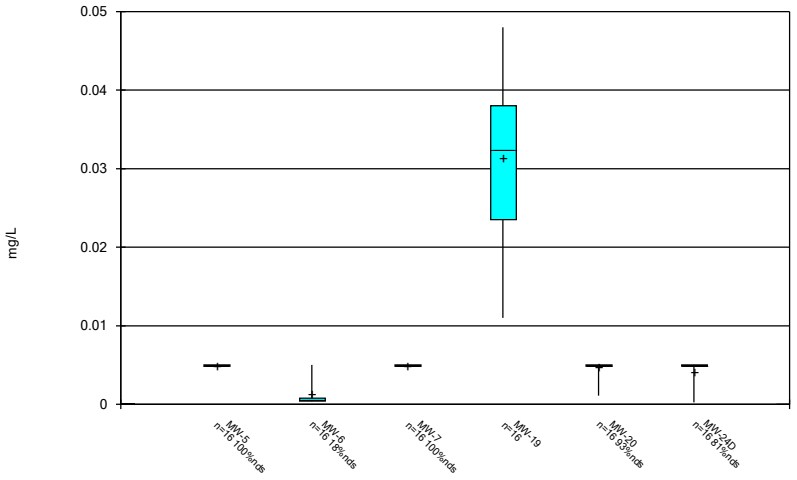
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



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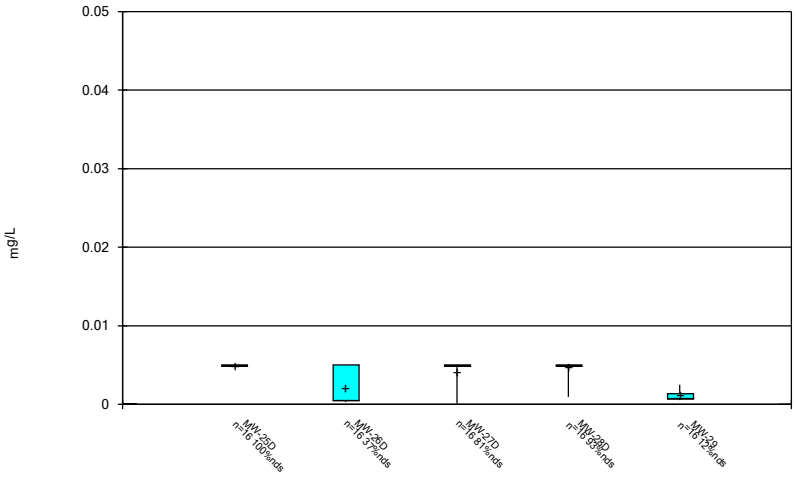
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



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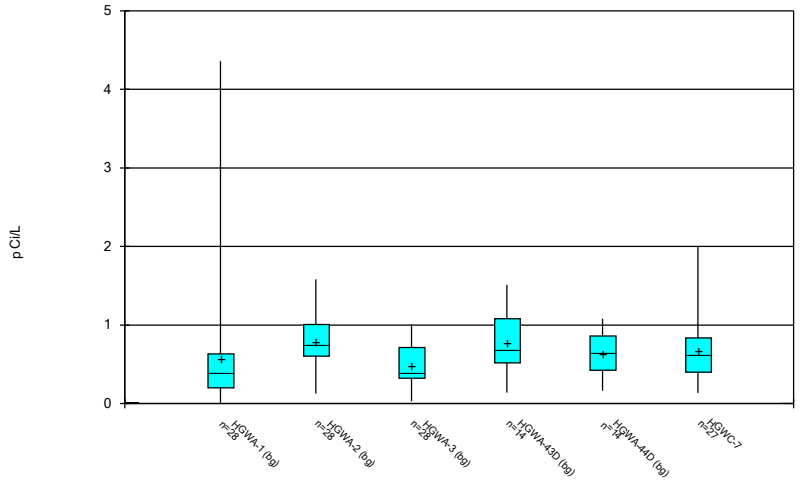
Plant Hammond Client: Southern Company Data: Hammond AP-1

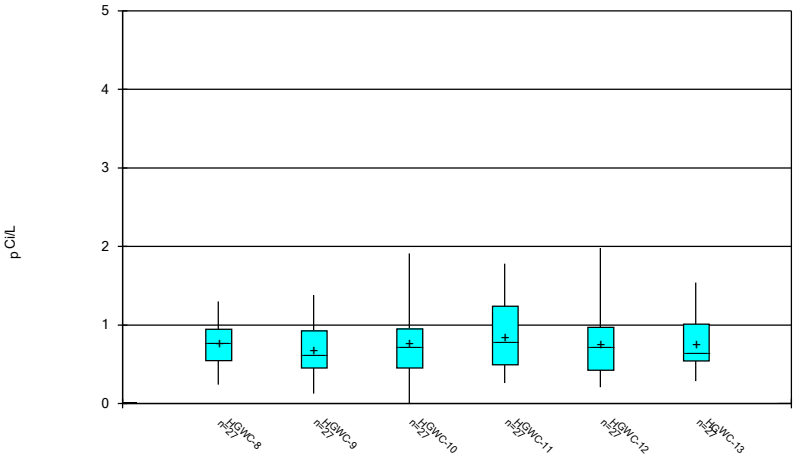
Box & Whiskers Plot



Constituent: Combined Radium 226 + 228 Analysis Run 4/22/2025 4:48 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



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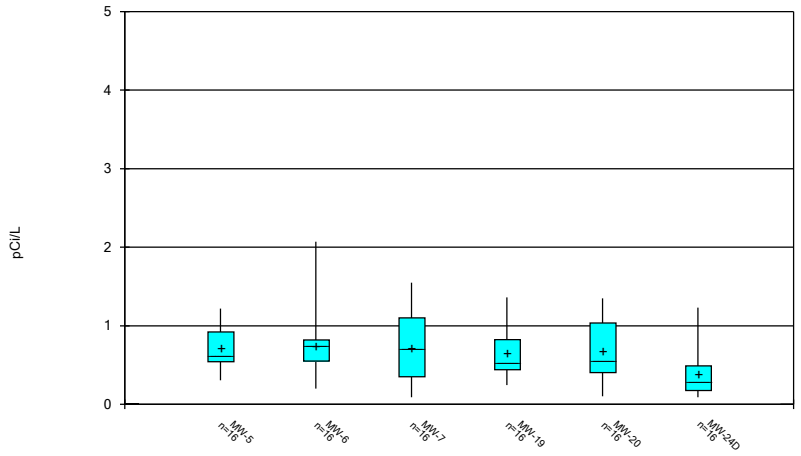
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



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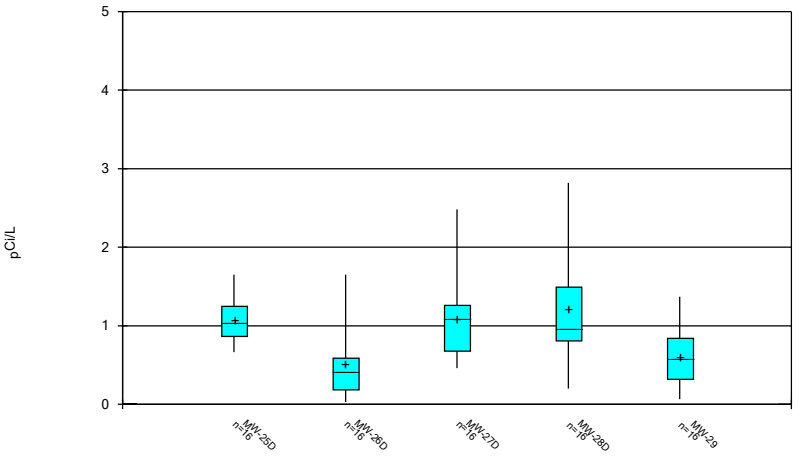
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



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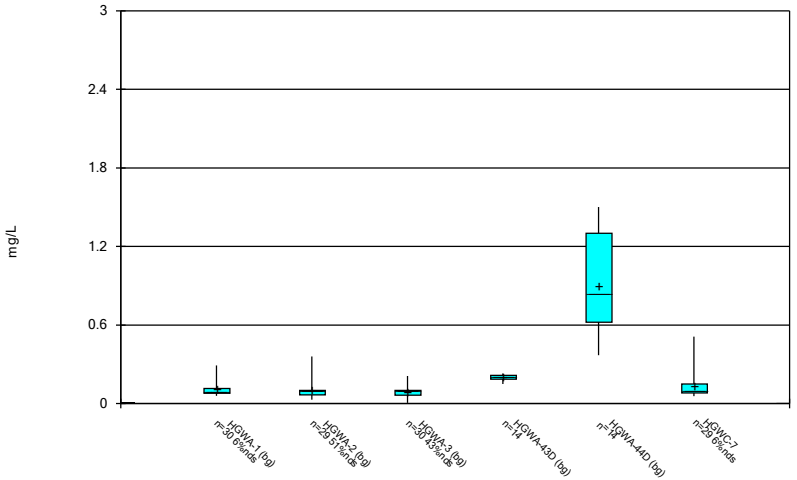
Plant Hammond Client: Southern Company Data: Hammond AP-1

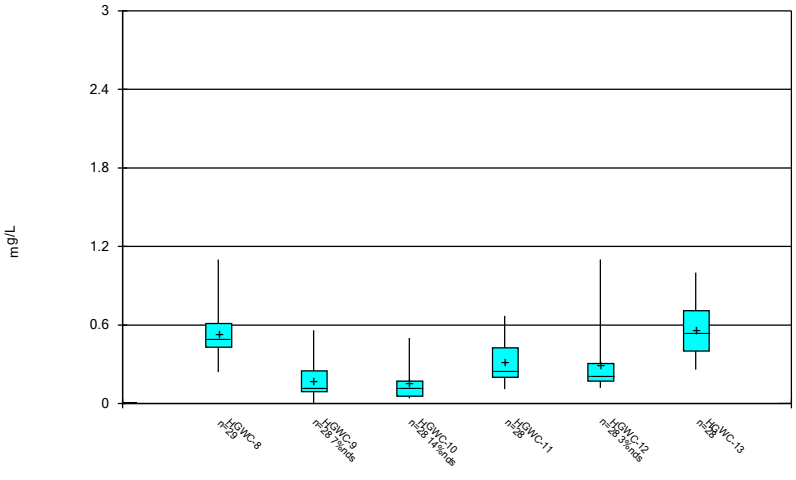
Box & Whiskers Plot



Constituent: Fluoride Analysis Run 4/22/2025 4:48 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



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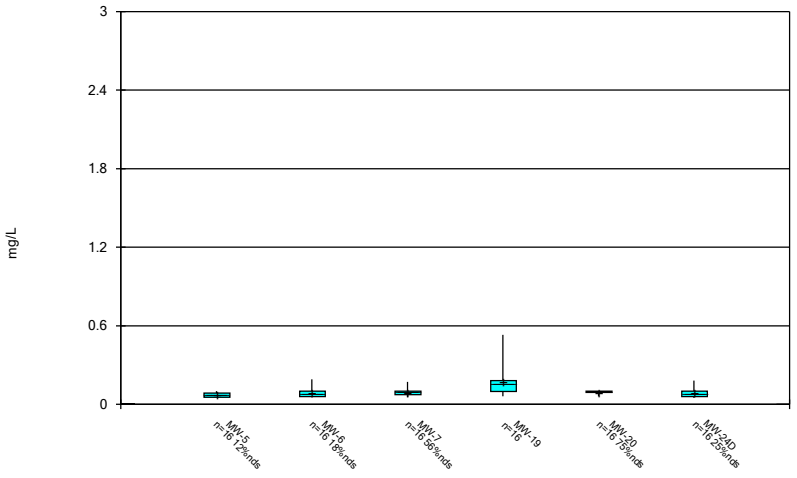
Box & Whiskers Plot



Constituent: Fluoride Analysis Run 4/22/2025 4:48 PM View: Time Series & Box Plot
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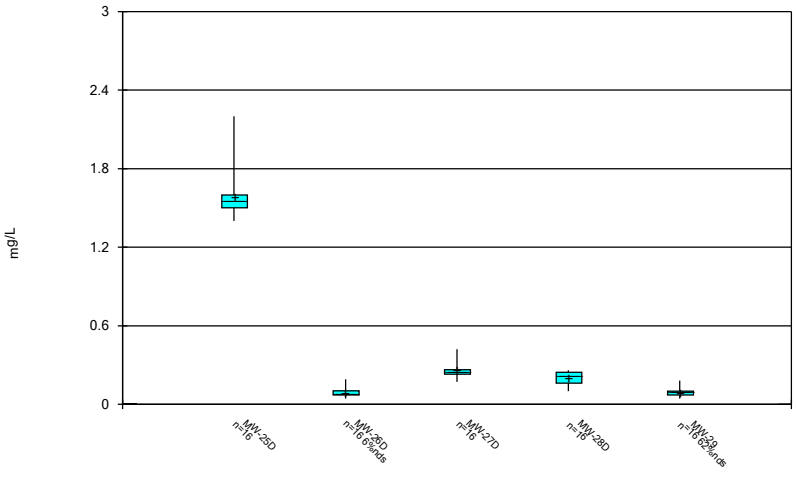
Box & Whiskers Plot



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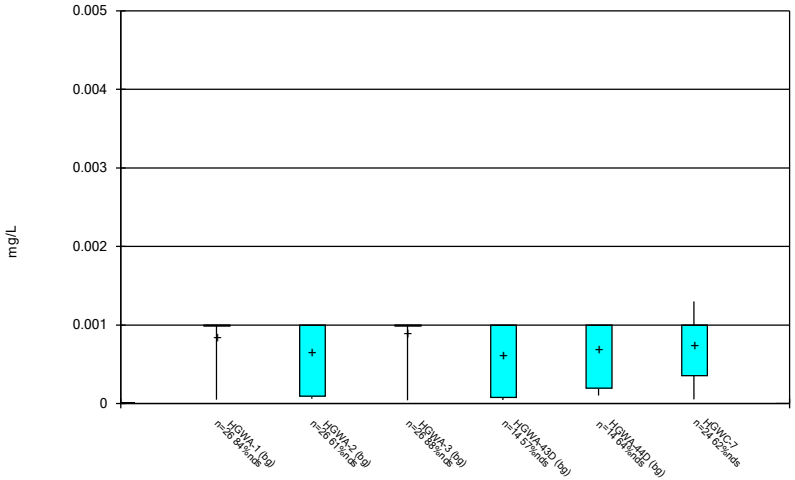
Plant Hammond Client: Southern Company Data: Hammond AP-1

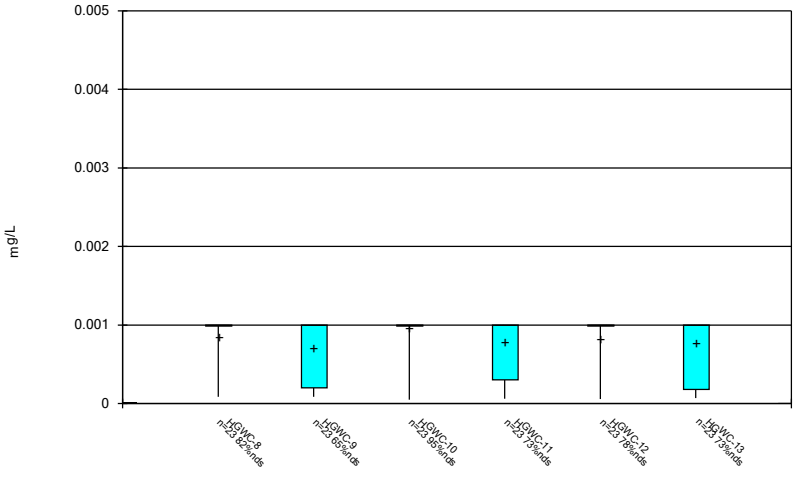
Box & Whiskers Plot



Constituent: Lead Analysis Run 4/22/2025 4:48 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



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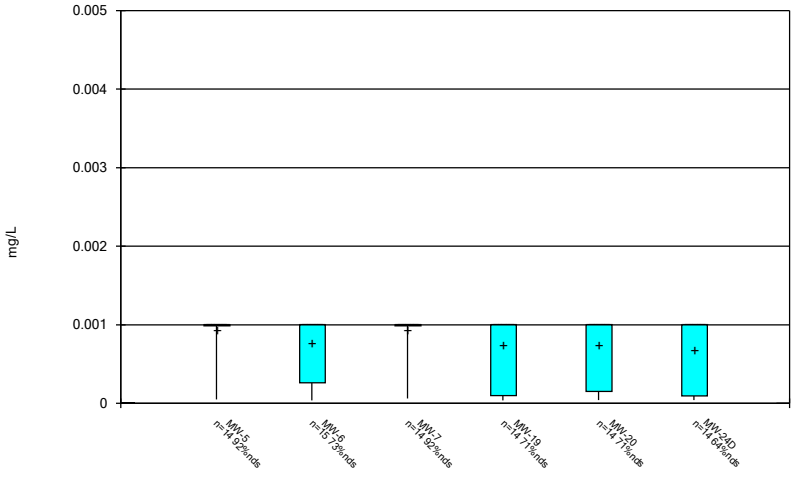
Box & Whiskers Plot



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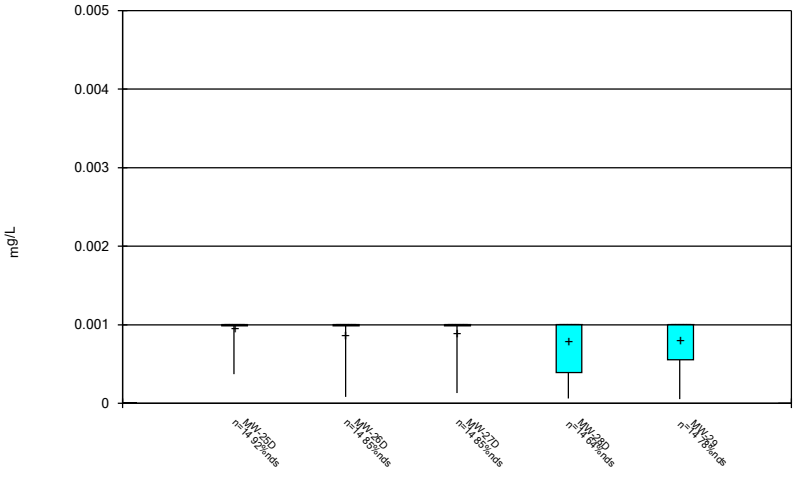
Box & Whiskers Plot



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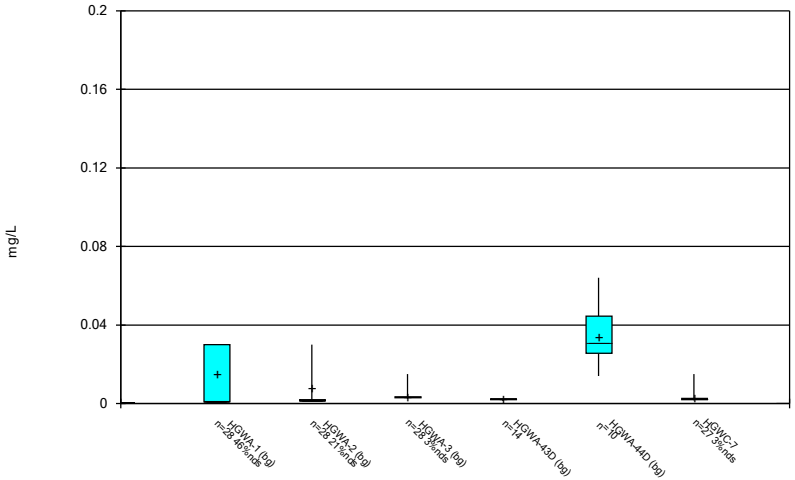
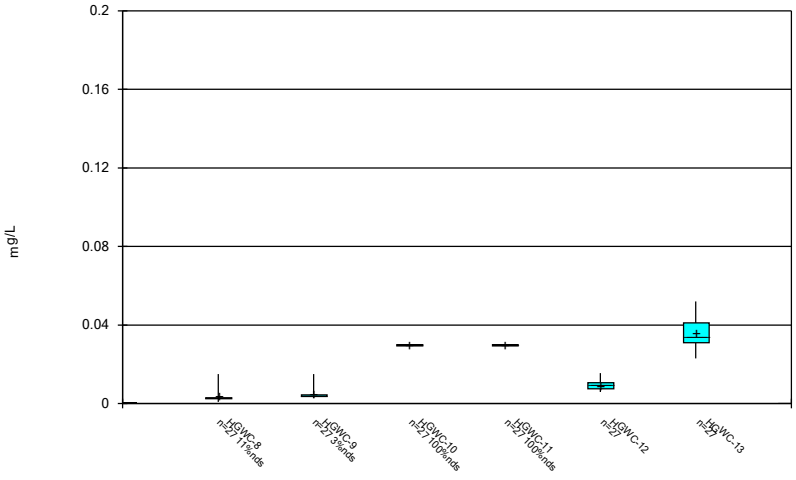
Box & Whiskers Plot



Constituent: Lithium Analysis Run 4/22/2025 4:48 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



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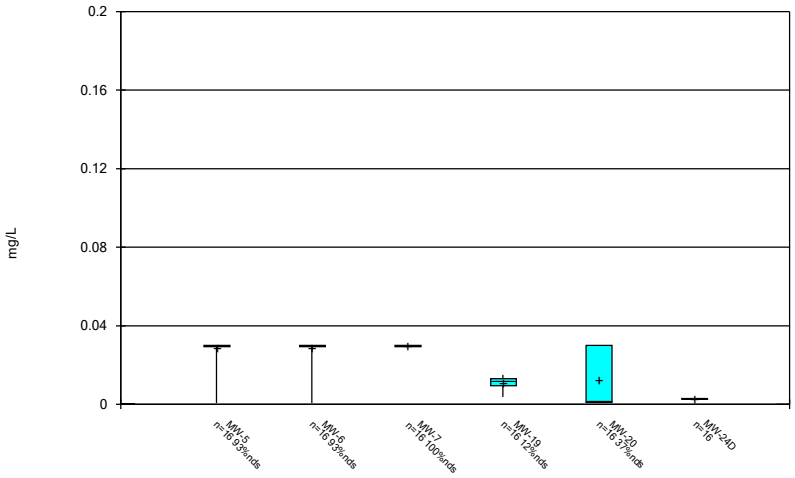
Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



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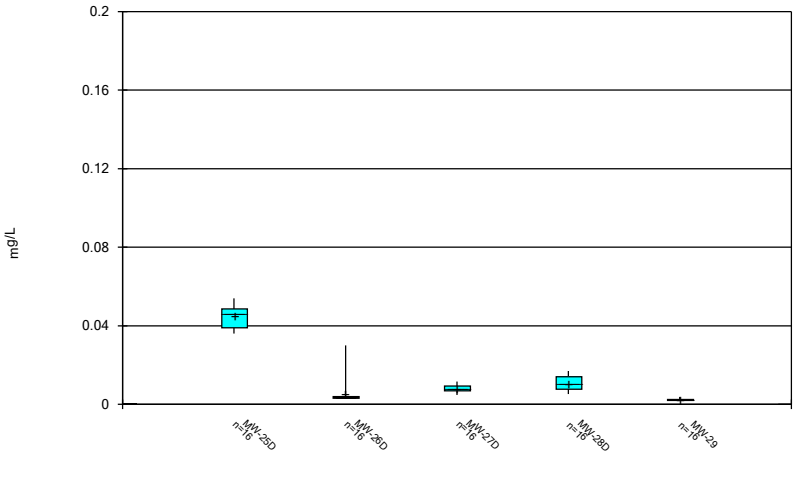
Box & Whiskers Plot



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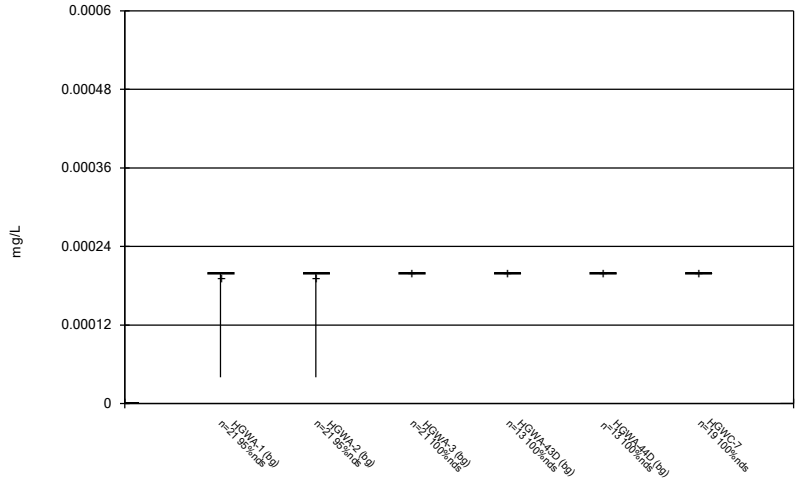
Plant Hammond Client: Southern Company Data: Hammond AP-1

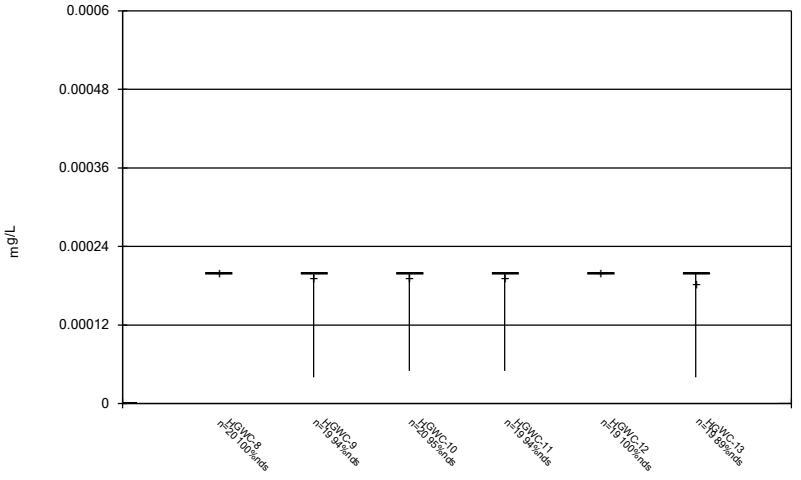
Box & Whiskers Plot



Constituent: Mercury Analysis Run 4/22/2025 4:48 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

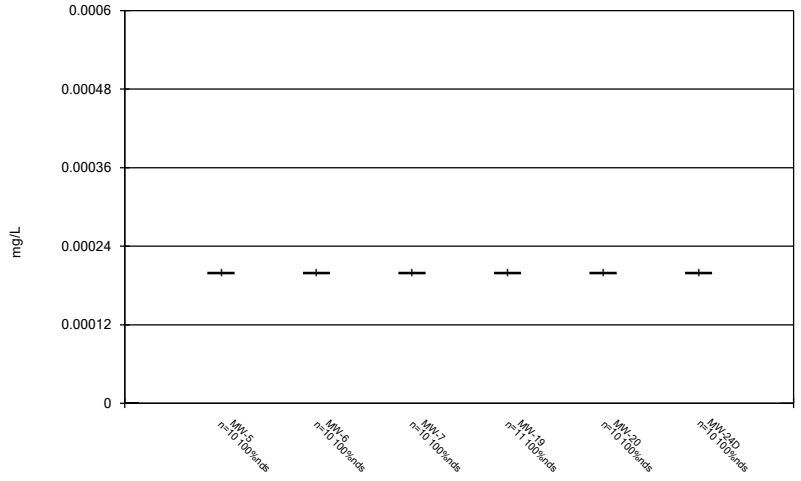
Box & Whiskers Plot



Constituent: Mercury Analysis Run 4/22/2025 4:48 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



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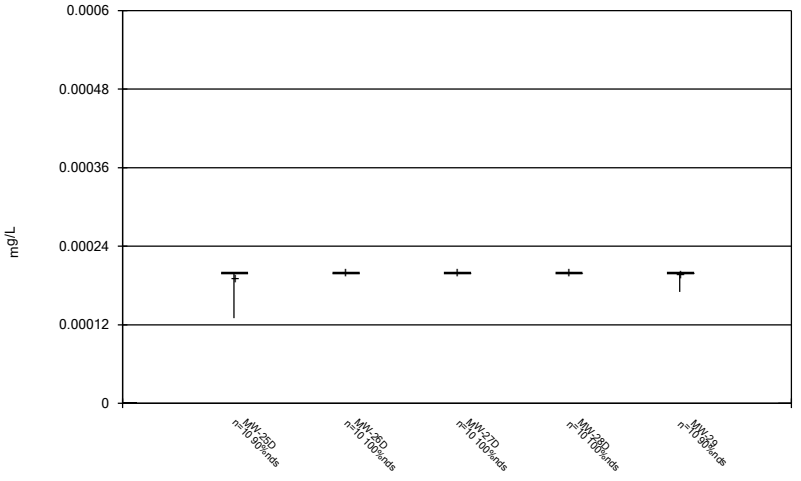
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



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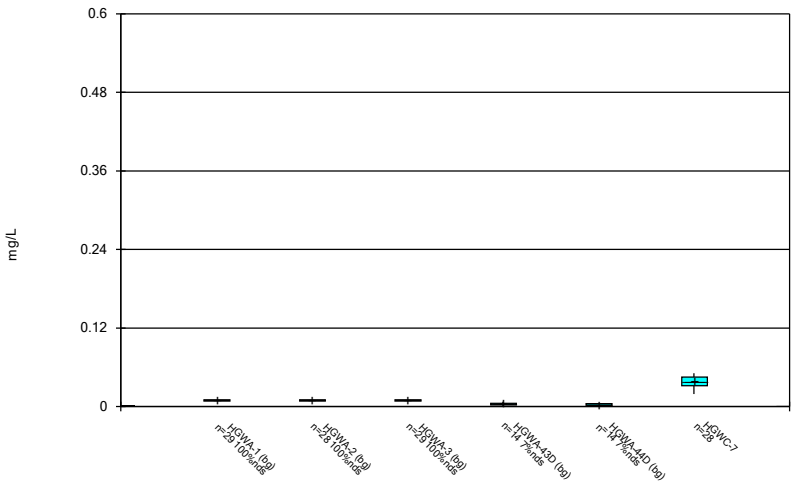
Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



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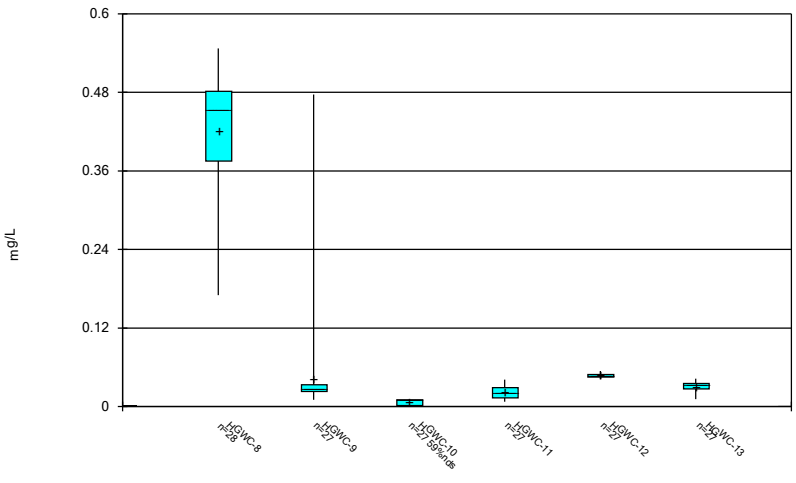
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Molybdenum Analysis Run 4/22/2025 4:48 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

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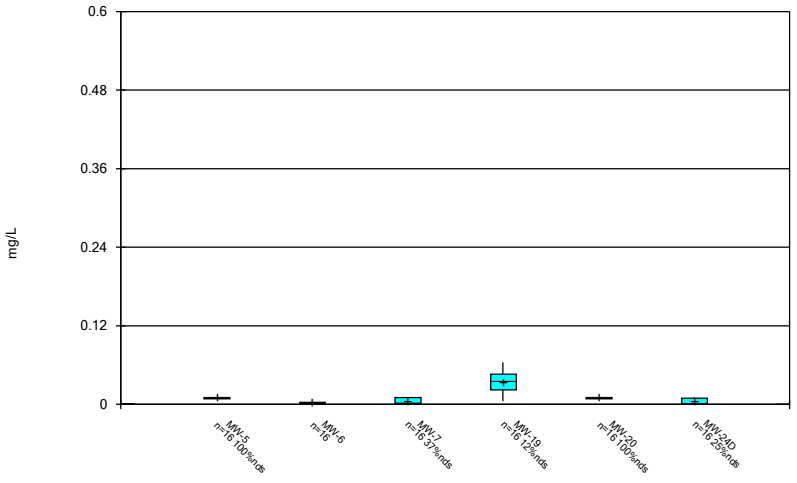
Box & Whiskers Plot



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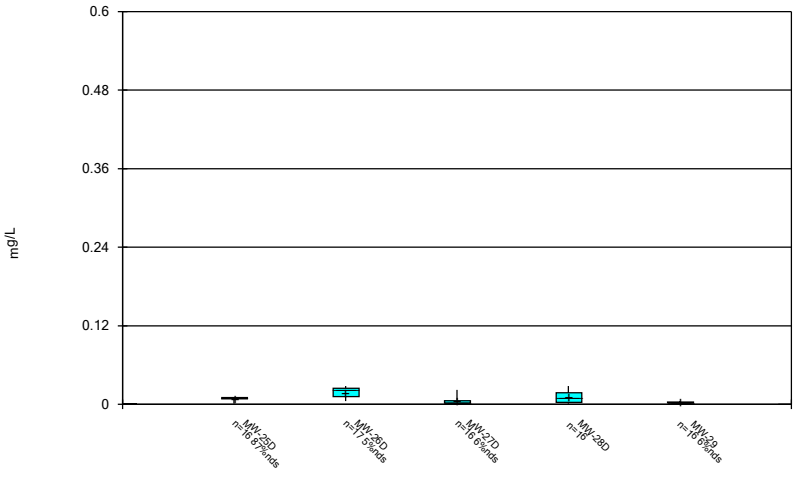
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



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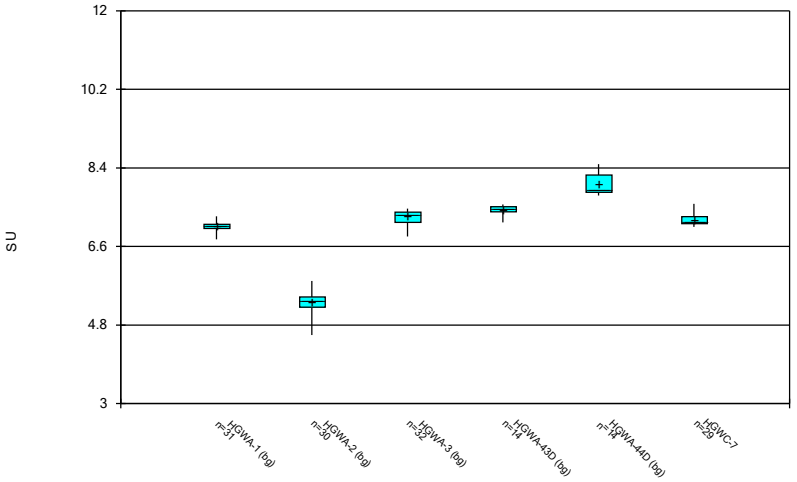
Plant Hammond Client: Southern Company Data: Hammond AP-1

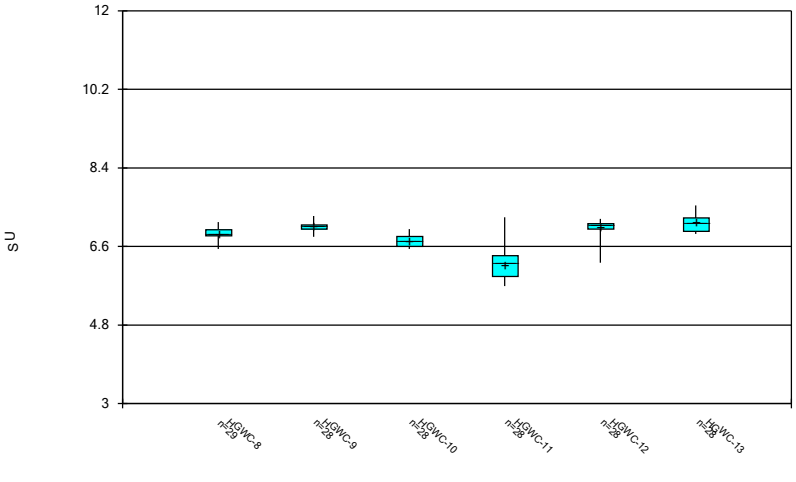
Box & Whiskers Plot



Constituent: pH, Field Analysis Run 4/22/2025 4:48 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



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Plant Hammond Client: Southern Company Data: Hammond AP-1

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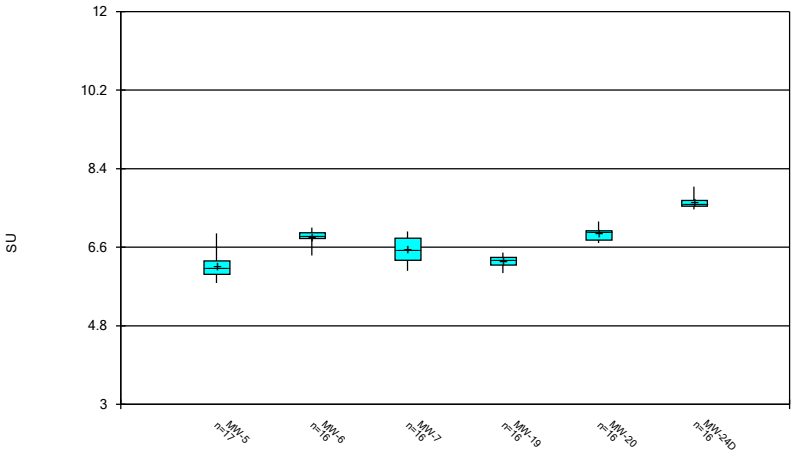

Constituent: pH, Field Analysis Run 4/22/2025 4:48 PM View: Time Series & Box Plot
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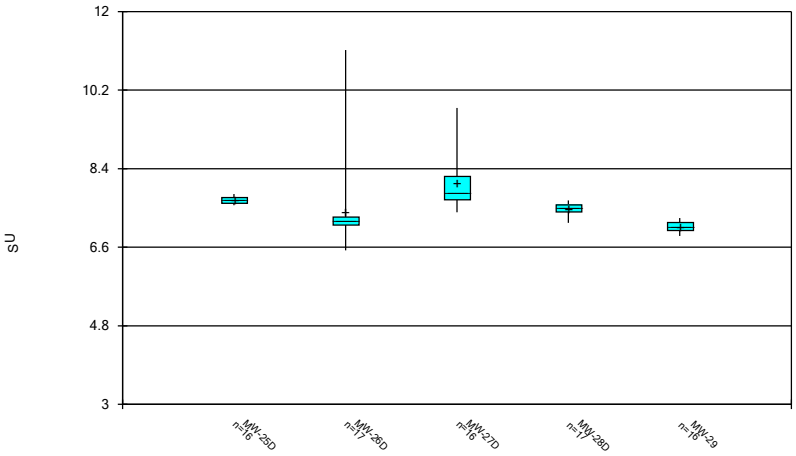
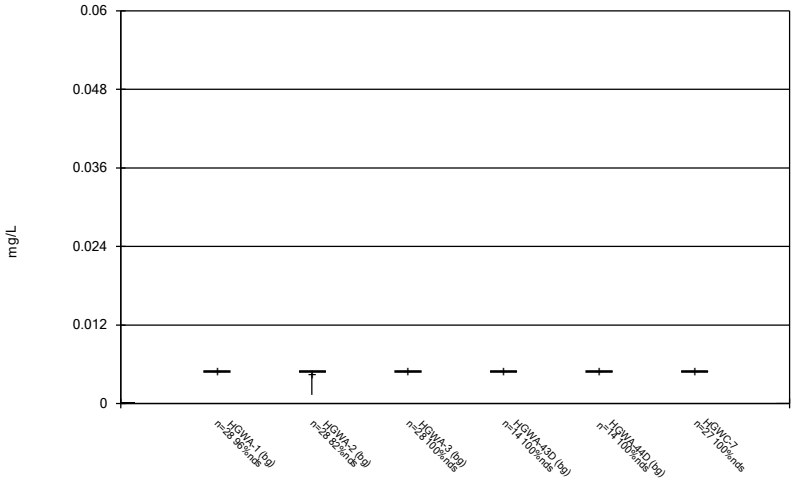
Box & Whiskers Plot



Constituent: pH, Field Analysis Run 4/22/2025 4:48 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



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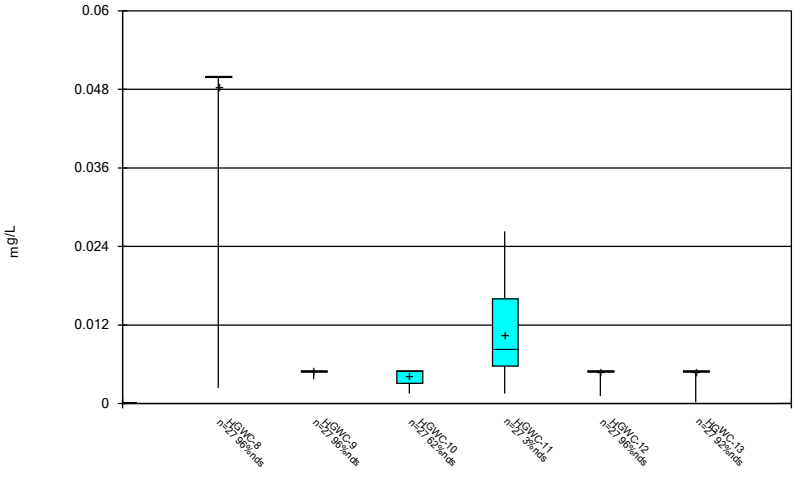
Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



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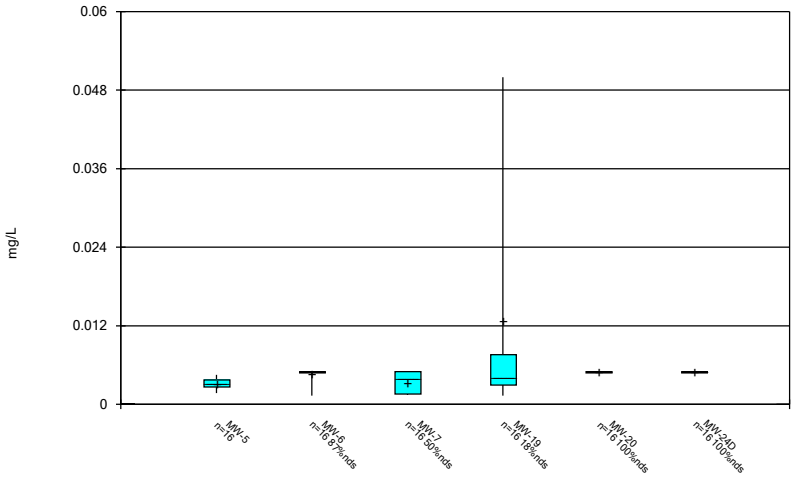

Constituent: Selenium Analysis Run 4/22/2025 4:48 PM View: Time Series & Box Plot
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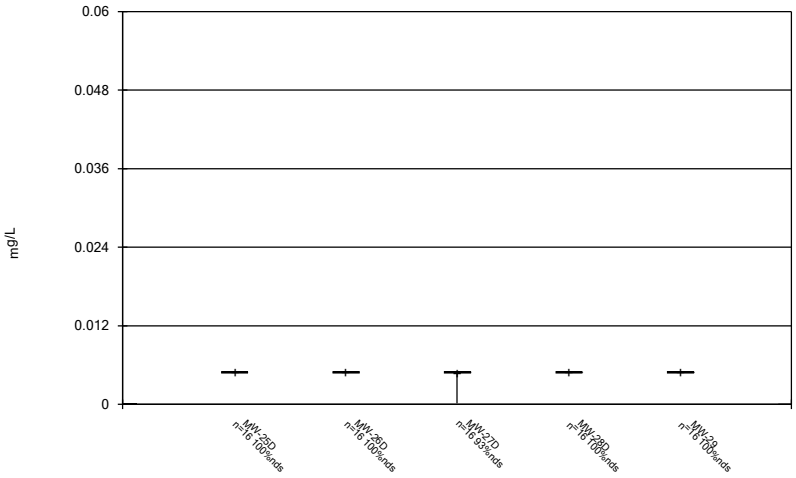
Box & Whiskers Plot



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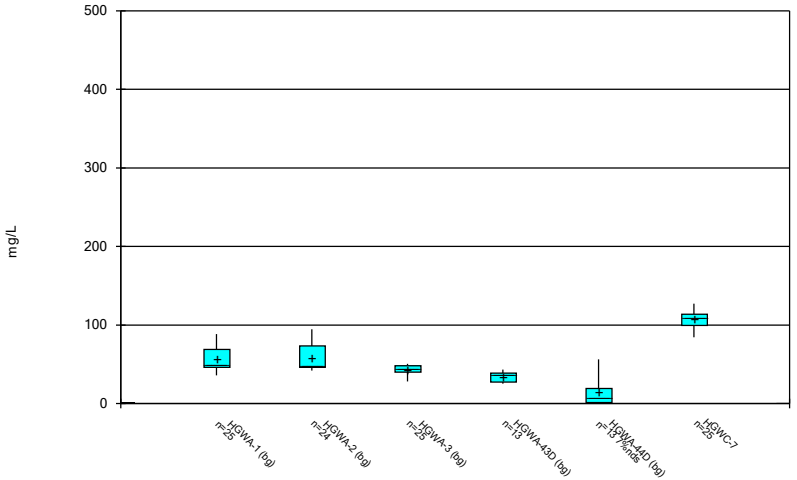
Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



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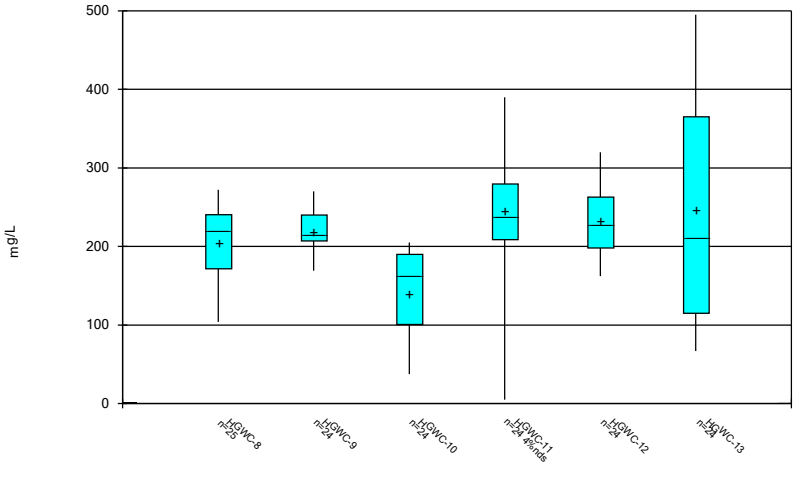
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



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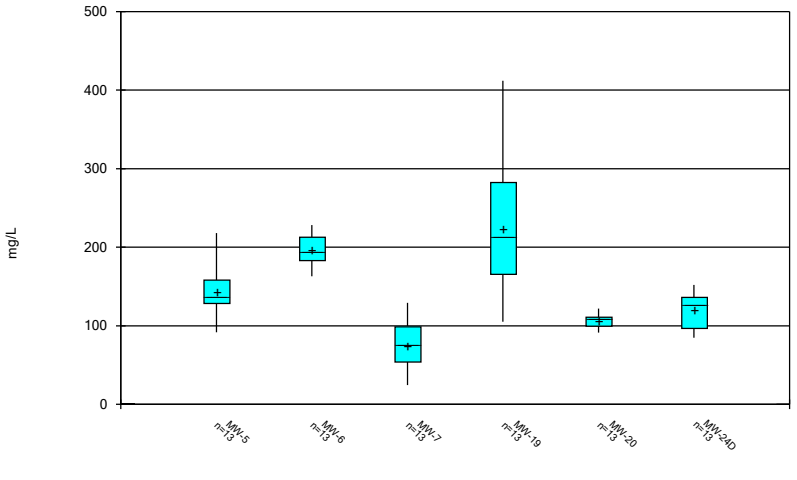
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

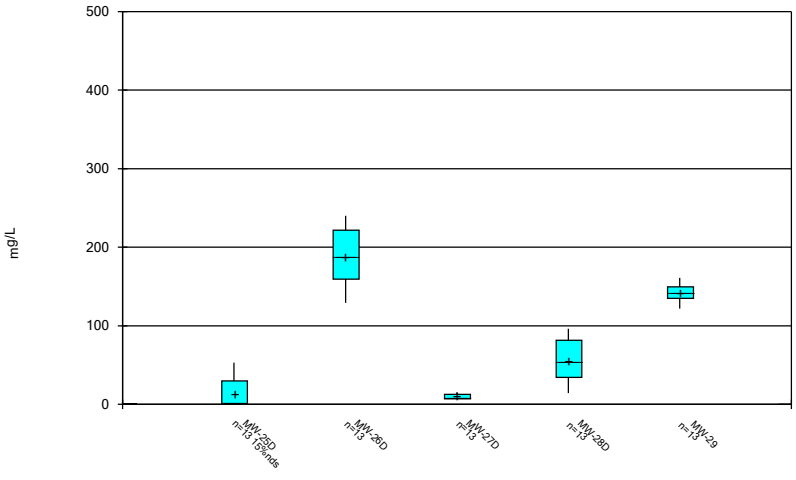
Box & Whiskers Plot



Constituent: Sulfate Analysis Run 4/22/2025 4:48 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



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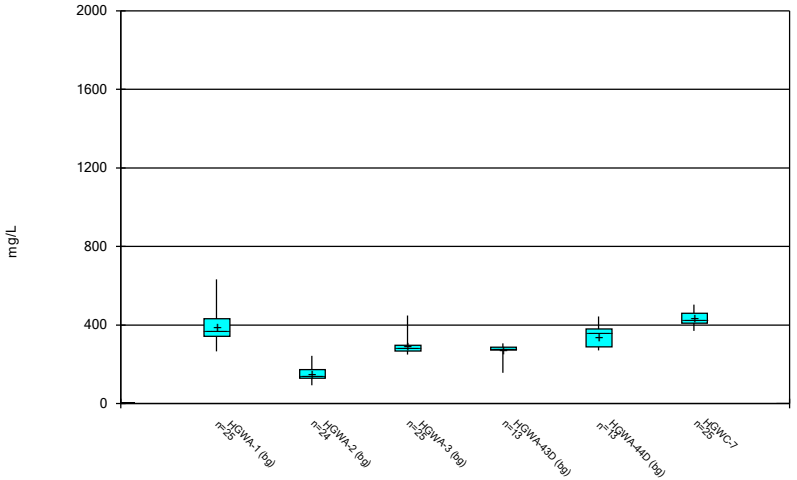
Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



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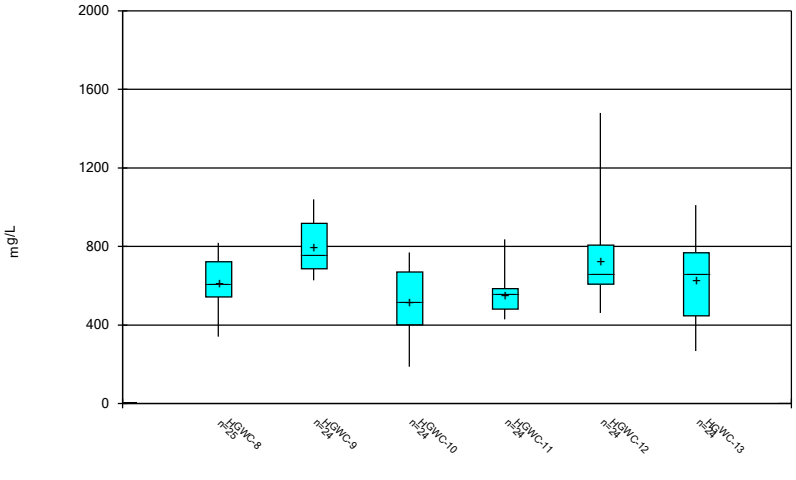
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



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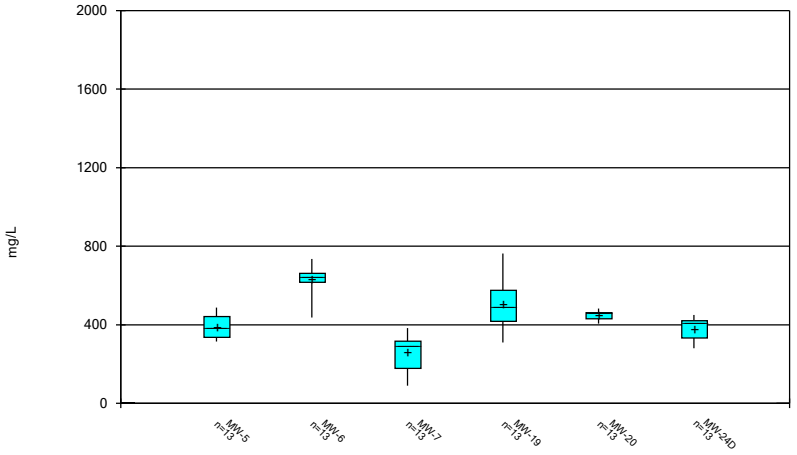
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



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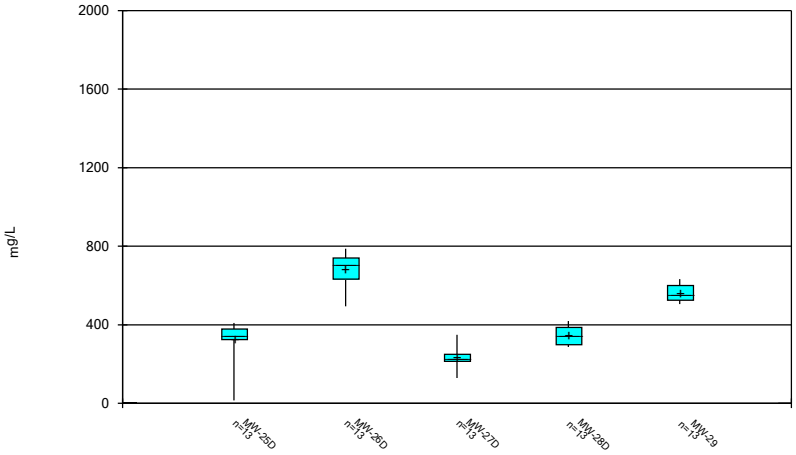
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



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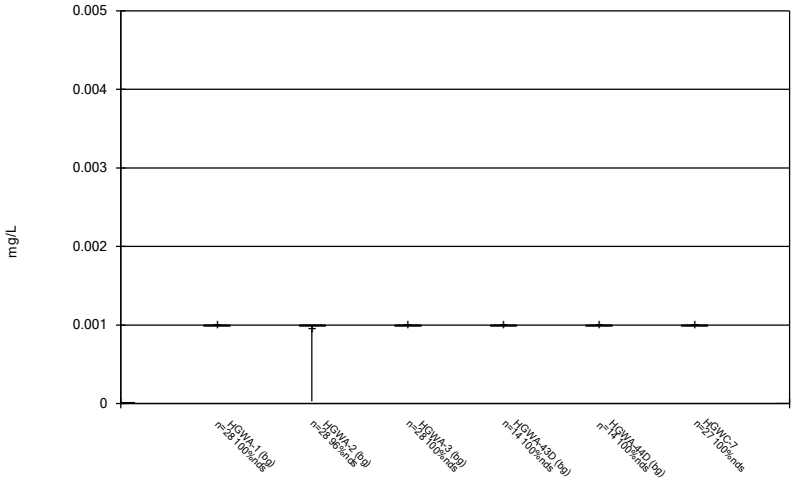
Plant Hammond Client: Southern Company Data: Hammond AP-1

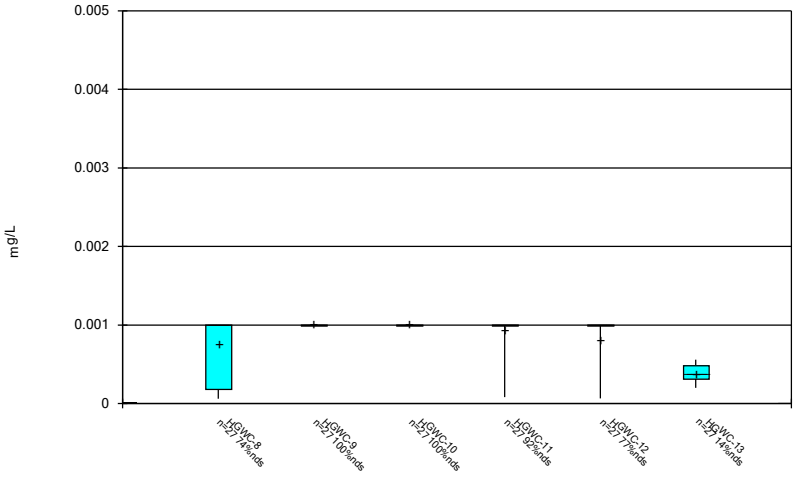
Box & Whiskers Plot



Constituent: Thallium Analysis Run 4/22/2025 4:48 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



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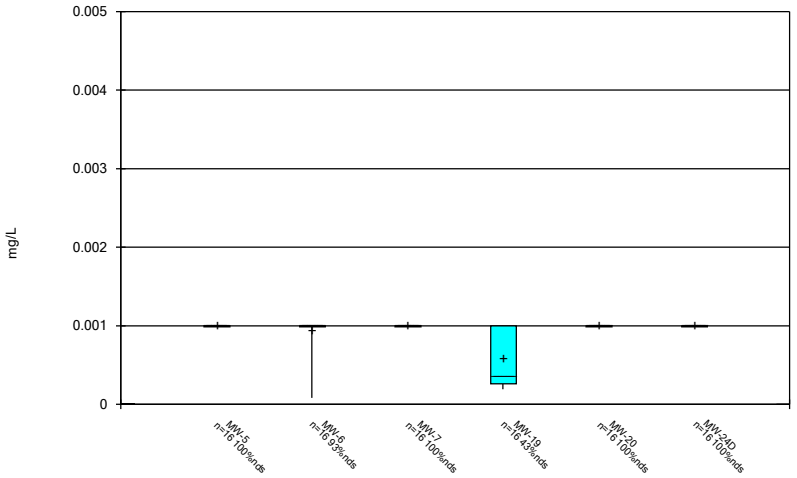
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



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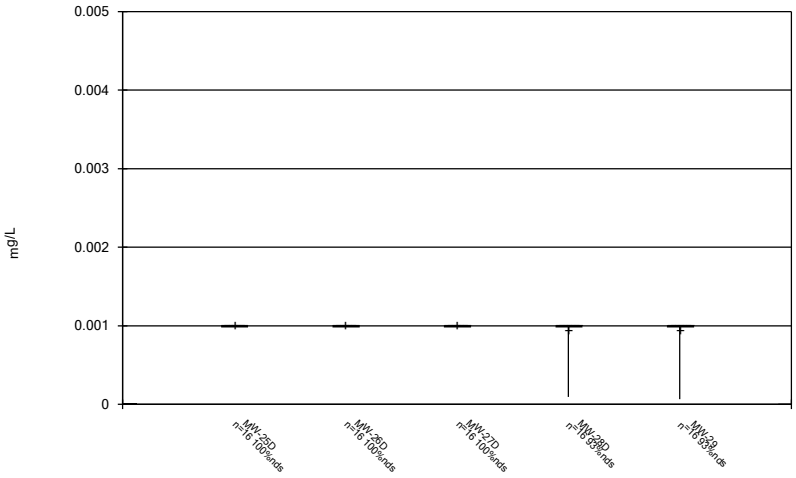
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Thallium Analysis Run 4/22/2025 4:48 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

FIGURE C.

Outlier Summary

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 4/22/2025, 4:51 PM

No values were flagged as outliers.

FIGURE D.

Appendix III Interwell Prediction Limits - Significant Results

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 4/22/2025, 4:56 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	HGWC-7	0.55	n/a	2/16/2025	0.9	Yes	100	6	n/a	n/a	0.0001929	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-8	0.55	n/a	2/15/2025	1.4	Yes	100	6	n/a	n/a	0.0001929	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-9	0.55	n/a	2/15/2025	2	Yes	100	6	n/a	n/a	0.0001929	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-11	0.55	n/a	2/13/2025	0.92	Yes	100	6	n/a	n/a	0.0001929	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-12	0.55	n/a	2/13/2025	1.4	Yes	100	6	n/a	n/a	0.0001929	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-13	0.55	n/a	2/17/2025	1	Yes	100	6	n/a	n/a	0.0001929	NP Inter (normality) 1 of 2
Calcium (mg/L)	HGWC-9	138	n/a	2/15/2025	171	Yes	100	0	n/a	n/a	0.0001929	NP Inter (normality) 1 of 2
Calcium (mg/L)	HGWC-12	138	n/a	2/13/2025	160	Yes	100	0	n/a	n/a	0.0001929	NP Inter (normality) 1 of 2
Chloride (mg/L)	HGWC-9	44.8	n/a	2/15/2025	81.2	Yes	100	0	n/a	n/a	0.0001929	NP Inter (normality) 1 of 2
Sulfate (mg/L)	HGWC-7	94.5	n/a	2/16/2025	98.5	Yes	100	1	n/a	n/a	0.0001929	NP Inter (normality) 1 of 2
Sulfate (mg/L)	HGWC-8	94.5	n/a	2/15/2025	104	Yes	100	1	n/a	n/a	0.0001929	NP Inter (normality) 1 of 2
Sulfate (mg/L)	HGWC-9	94.5	n/a	2/15/2025	169	Yes	100	1	n/a	n/a	0.0001929	NP Inter (normality) 1 of 2
Sulfate (mg/L)	HGWC-11	94.5	n/a	2/13/2025	155	Yes	100	1	n/a	n/a	0.0001929	NP Inter (normality) 1 of 2
Sulfate (mg/L)	HGWC-12	94.5	n/a	2/13/2025	198	Yes	100	1	n/a	n/a	0.0001929	NP Inter (normality) 1 of 2
Sulfate (mg/L)	HGWC-13	94.5	n/a	2/17/2025	167	Yes	100	1	n/a	n/a	0.0001929	NP Inter (normality) 1 of 2

Appendix III Interwell Prediction Limits - All Results

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 4/22/2025, 4:56 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	**HGWC-7**	**0.55**	**n/a**	**2/16/2025**	**0.9**	**Yes**	**100**	**6**	**n/a**	**n/a**	**0.0001929**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**HGWC-8**	**0.55**	**n/a**	**2/15/2025**	**1.4**	**Yes**	**100**	**6**	**n/a**	**n/a**	**0.0001929**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**HGWC-9**	**0.55**	**n/a**	**2/15/2025**	**2**	**Yes**	**100**	**6**	**n/a**	**n/a**	**0.0001929**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	HGWC-10	0.55	n/a	2/14/2025	0.1	No	100	6	n/a	n/a	0.0001929	NP Inter (normality) 1 of 2
Boron (mg/L)	**HGWC-11**	**0.55**	**n/a**	**2/13/2025**	**0.92**	**Yes**	**100**	**6**	**n/a**	**n/a**	**0.0001929**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**HGWC-12**	**0.55**	**n/a**	**2/13/2025**	**1.4**	**Yes**	**100**	**6**	**n/a**	**n/a**	**0.0001929**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**HGWC-13**	**0.55**	**n/a**	**2/17/2025**	**1**	**Yes**	**100**	**6**	**n/a**	**n/a**	**0.0001929**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	HGWC-7	138	n/a	2/16/2025	114	No	100	0	n/a	n/a	0.0001929	NP Inter (normality) 1 of 2
Calcium (mg/L)	HGWC-8	138	n/a	2/15/2025	83.3	No	100	0	n/a	n/a	0.0001929	NP Inter (normality) 1 of 2
Calcium (mg/L)	**HGWC-9**	**138**	**n/a**	**2/15/2025**	**171**	**Yes**	**100**	**0**	**n/a**	**n/a**	**0.0001929**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	HGWC-10	138	n/a	2/14/2025	61	No	100	0	n/a	n/a	0.0001929	NP Inter (normality) 1 of 2
Calcium (mg/L)	HGWC-11	138	n/a	2/13/2025	133	No	100	0	n/a	n/a	0.0001929	NP Inter (normality) 1 of 2
Calcium (mg/L)	**HGWC-12**	**138**	**n/a**	**2/13/2025**	**160**	**Yes**	**100**	**0**	**n/a**	**n/a**	**0.0001929**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	HGWC-13	138	n/a	2/17/2025	115	No	100	0	n/a	n/a	0.0001929	NP Inter (normality) 1 of 2
Chloride (mg/L)	HGWC-7	44.8	n/a	2/16/2025	30.7	No	100	0	n/a	n/a	0.0001929	NP Inter (normality) 1 of 2
Chloride (mg/L)	HGWC-8	44.8	n/a	2/15/2025	25	No	100	0	n/a	n/a	0.0001929	NP Inter (normality) 1 of 2
Chloride (mg/L)	**HGWC-9**	**44.8**	**n/a**	**2/15/2025**	**81.2**	**Yes**	**100**	**0**	**n/a**	**n/a**	**0.0001929**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	HGWC-10	44.8	n/a	2/14/2025	2.1	No	100	0	n/a	n/a	0.0001929	NP Inter (normality) 1 of 2
Chloride (mg/L)	HGWC-11	44.8	n/a	2/13/2025	11.7	No	100	0	n/a	n/a	0.0001929	NP Inter (normality) 1 of 2
Chloride (mg/L)	HGWC-12	44.8	n/a	2/13/2025	24.3	No	100	0	n/a	n/a	0.0001929	NP Inter (normality) 1 of 2
Chloride (mg/L)	HGWC-13	44.8	n/a	2/17/2025	13.5	No	100	0	n/a	n/a	0.0001929	NP Inter (normality) 1 of 2
Fluoride (mg/L)	HGWC-7	1.5	n/a	2/16/2025	0.056J	No	117	25.64	n/a	n/a	0.0001436	NP Inter (normality) 1 of 2
Fluoride (mg/L)	HGWC-8	1.5	n/a	2/15/2025	0.24	No	117	25.64	n/a	n/a	0.0001436	NP Inter (normality) 1 of 2
Fluoride (mg/L)	HGWC-9	1.5	n/a	2/15/2025	0.071J	No	117	25.64	n/a	n/a	0.0001436	NP Inter (normality) 1 of 2
Fluoride (mg/L)	HGWC-10	1.5	n/a	2/14/2025	0.086J	No	117	25.64	n/a	n/a	0.0001436	NP Inter (normality) 1 of 2
Fluoride (mg/L)	HGWC-11	1.5	n/a	2/13/2025	0.3	No	117	25.64	n/a	n/a	0.0001436	NP Inter (normality) 1 of 2
Fluoride (mg/L)	HGWC-12	1.5	n/a	2/13/2025	0.24	No	117	25.64	n/a	n/a	0.0001436	NP Inter (normality) 1 of 2
Fluoride (mg/L)	HGWC-13	1.5	n/a	2/17/2025	0.4	No	117	25.64	n/a	n/a	0.0001436	NP Inter (normality) 1 of 2
pH, Field (SU)	HGWC-7	8.49	4.57	2/16/2025	7.41	No	121	0	n/a	n/a	0.0002663	NP Inter (normality) 1 of 2
pH, Field (SU)	HGWC-8	8.49	4.57	2/15/2025	6.54	No	121	0	n/a	n/a	0.0002663	NP Inter (normality) 1 of 2
pH, Field (SU)	HGWC-9	8.49	4.57	2/15/2025	7.03	No	121	0	n/a	n/a	0.0002663	NP Inter (normality) 1 of 2
pH, Field (SU)	HGWC-10	8.49	4.57	2/14/2025	6.77	No	121	0	n/a	n/a	0.0002663	NP Inter (normality) 1 of 2
pH, Field (SU)	HGWC-11	8.49	4.57	2/13/2025	6.6	No	121	0	n/a	n/a	0.0002663	NP Inter (normality) 1 of 2
pH, Field (SU)	HGWC-12	8.49	4.57	2/13/2025	7.04	No	121	0	n/a	n/a	0.0002663	NP Inter (normality) 1 of 2
pH, Field (SU)	HGWC-13	8.49	4.57	2/17/2025	7.11	No	121	0	n/a	n/a	0.0002663	NP Inter (normality) 1 of 2
Sulfate (mg/L)	**HGWC-7**	**94.5**	**n/a**	**2/16/2025**	**98.5**	**Yes**	**100**	**1**	**n/a**	**n/a**	**0.0001929**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**HGWC-8**	**94.5**	**n/a**	**2/15/2025**	**104**	**Yes**	**100**	**1**	**n/a**	**n/a**	**0.0001929**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**HGWC-9**	**94.5**	**n/a**	**2/15/2025**	**169**	**Yes**	**100**	**1**	**n/a**	**n/a**	**0.0001929**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	HGWC-10	94.5	n/a	2/14/2025	39.2	No	100	1	n/a	n/a	0.0001929	NP Inter (normality) 1 of 2
Sulfate (mg/L)	**HGWC-11**	**94.5**	**n/a**	**2/13/2025**	**155**	**Yes**	**100**	**1**	**n/a**	**n/a**	**0.0001929**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**HGWC-12**	**94.5**	**n/a**	**2/13/2025**	**198**	**Yes**	**100**	**1**	**n/a**	**n/a**	**0.0001929**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**HGWC-13**	**94.5**	**n/a**	**2/17/2025**	**167**	**Yes**	**100**	**1**	**n/a**	**n/a**	**0.0001929**	**NP Inter (normality) 1 of 2**
TDS (mg/L)	HGWC-7	632	n/a	2/16/2025	408	No	100	0	n/a	n/a	0.0001929	NP Inter (normality) 1 of 2
TDS (mg/L)	HGWC-8	632	n/a	2/15/2025	340	No	100	0	n/a	n/a	0.0001929	NP Inter (normality) 1 of 2
TDS (mg/L)	HGWC-9	632	n/a	2/15/2025	628	No	100	0	n/a	n/a	0.0001929	NP Inter (normality) 1 of 2
TDS (mg/L)	HGWC-10	632	n/a	2/14/2025	208	No	100	0	n/a	n/a	0.0001929	NP Inter (normality) 1 of 2
TDS (mg/L)	HGWC-11	632	n/a	2/13/2025	478	No	100	0	n/a	n/a	0.0001929	NP Inter (normality) 1 of 2
TDS (mg/L)	HGWC-12	632	n/a	2/13/2025	590	No	100	0	n/a	n/a	0.0001929	NP Inter (normality) 1 of 2
TDS (mg/L)	HGWC-13	632	n/a	2/17/2025	522	No	100	0	n/a	n/a	0.0001929	NP Inter (normality) 1 of 2

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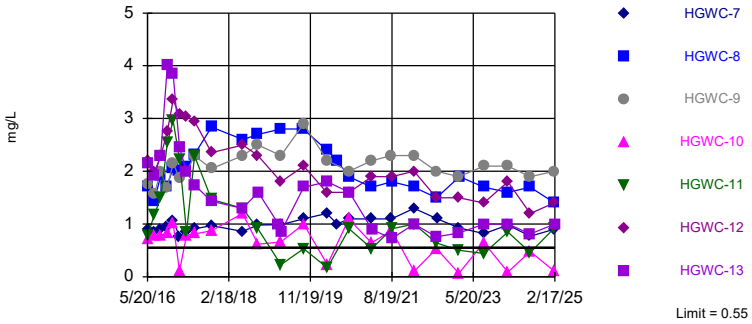
Exceeds Limit: HGWC-7, HGWC-8, HGWC-9, HGWC-11, HGWC-12, HGWC-13

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 100 background values. 6% NDs. Annual per-constituent alpha = 0.002698. Individual comparison alpha = 0.0001929 (1 of 2). Comparing 7 points to limit.

Constituent: Boron Analysis Run 4/22/2025 4:54 PM View: Appendix III Interwell PL

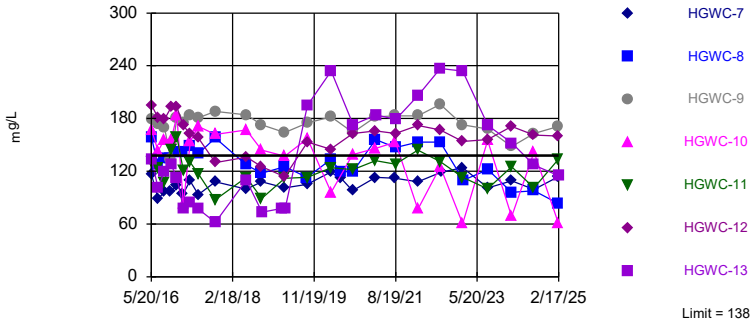
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

Exceeds Limit: HGWC-9, HGWC-12

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 100 background values. Annual per-constituent alpha = 0.002698. Individual comparison alpha = 0.0001929 (1 of 2). Comparing 7 points to limit.

Constituent: Calcium Analysis Run 4/22/2025 4:55 PM View: Appendix III Interwell PL

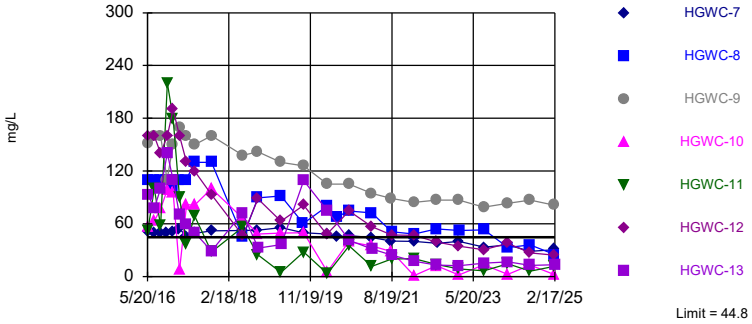
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

Exceeds Limit: HGWC-9

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 100 background values. Annual per-constituent alpha = 0.002698. Individual comparison alpha = 0.0001929 (1 of 2). Comparing 7 points to limit.

Constituent: Chloride Analysis Run 4/22/2025 4:55 PM View: Appendix III Interwell PL

Plant Hammond Client: Southern Company Data: Hammond AP-1

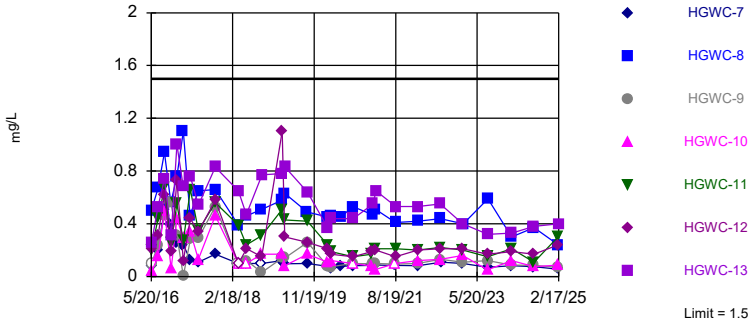
Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 117 background values. 25.64% NDs. Annual per-constituent alpha = 0.002009. Individual comparison alpha = 0.0001436 (1 of 2). Comparing 7 points to limit.

Constituent: Fluoride Analysis Run 4/22/2025 4:55 PM View: Appendix III Interwell PL

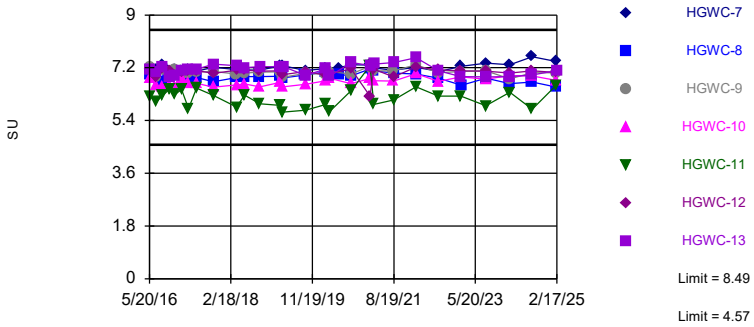
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

Within Limits

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 121 background values. Annual per-constituent alpha = 0.003725. Individual comparison alpha = 0.0002663 (1 of 2). Comparing 7 points to limit.

Constituent: pH, Field Analysis Run 4/22/2025 4:55 PM View: Appendix III Interwell PL

Plant Hammond Client: Southern Company Data: Hammond AP-1

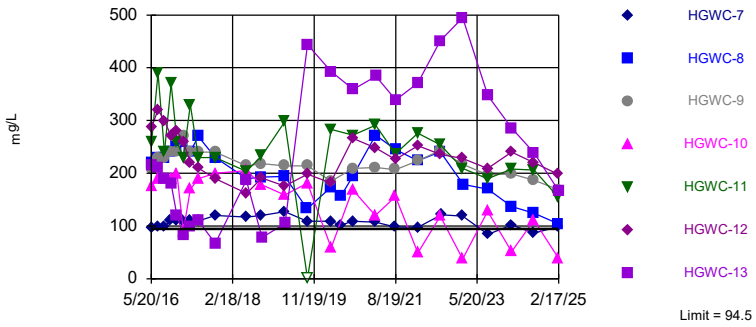
Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Exceeds Limit: HGWC-7, HGWC-8, HGWC-9, HGWC-11, HGWC-12, HGWC-13

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 100 background values. 1% NDs. Annual per-constituent alpha = 0.002698. Individual comparison alpha = 0.0001929 (1 of 2). Comparing 7 points to limit.

Constituent: Sulfate Analysis Run 4/22/2025 4:55 PM View: Appendix III Interwell PL

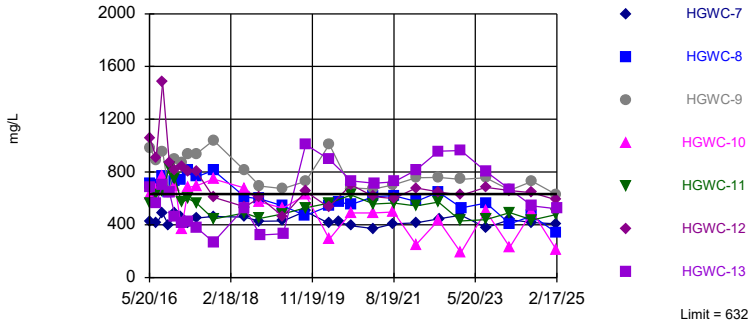
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 100 background values. Annual per-constituent alpha = 0.002698. Individual comparison alpha = 0.0001929 (1 of 2). Comparing 7 points to limit.

Constituent: TDS Analysis Run 4/22/2025 4:55 PM View: Appendix III Interwell PL

Plant Hammond Client: Southern Company Data: Hammond AP-1

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 4/22/2025 4:56 PM View: Appendix III Interwell PL

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-3 (bg)	HGWA-2 (bg)	HGWC-7	HGWC-8	HGWC-10	HGWC-13	HGWC-9	HGWC-12
5/19/2016	0.0214 (J)	<0.04	0.0321 (J)						
5/20/2016				0.885	1.71				
5/23/2016						0.72	2.15	1.76	2.2
7/11/2016	0.0142 (J)		0.0337 (J)						
7/12/2016		0.0074 (J)		0.857	1.43	0.778	1.91	1.56	1.98
8/30/2016	0.0074 (J)	<0.04	0.0173 (J)						
9/1/2016				0.904	1.91	0.786	2.3	2	2.28
10/19/2016	0.0224 (J)	0.0085 (J)	0.0341 (J)						
10/20/2016				0.936	1.72			1.68	
10/24/2016						0.831	4.01		2.75
12/6/2016	0.0211 (J)	0.0085 (J)	0.0326 (J)	1.06	2.06			2.15	
12/7/2016						1.01	3.85		3.35
1/24/2017	0.0165 (J)	0.01 (J)	0.0365 (J)						
1/25/2017				0.764	2.01				
1/26/2017						0.108	2.45	1.87	3.07
3/21/2017	0.0187 (J)	0.0079 (J)	0.0349 (J)	0.857	2.08				
3/22/2017						0.788	1.99	1.99	3.04
5/22/2017	0.0782	0.0131 (J)	0.0475						
5/23/2017				0.91	2.32			2.29	
5/24/2017						0.814	1.74		2.95
10/3/2017	0.0198 (J)	0.0097 (J)	0.0386 (J)	0.967	2.84	0.871	1.43	2.05	2.35
6/4/2018	0.02 (J)	0.017 (J)	0.036 (J)						
6/5/2018				0.86		1.2	1.3		
6/6/2018					2.6			2.3	2.5
10/1/2018	0.013 (J)	0.0061 (J)	0.035 (J)						
10/2/2018				0.98	2.7	0.62		2.5	
10/3/2018									2.3
10/5/2018							1.6		
3/13/2019							1		
4/1/2019		0.0066 (J)							
4/2/2019	0.016 (J)		0.034 (J)	0.99					
4/3/2019					2.8	0.66		2.3	1.8
4/5/2019							0.86 (J)		
9/23/2019	0.021 (J)	0.0081 (J)	0.04 (J)						
9/24/2019					2.8				
9/25/2019				1.1					
9/26/2019							1.7		
9/27/2019						1		2.9	2.1
3/25/2020	0.025 (J)	0.0096 (J)	0.039 (J)						
3/26/2020									1.6
3/27/2020				1.2	2.4				
3/30/2020							1.8		
3/31/2020								2.2	
4/1/2020						0.23			
6/16/2020	0.021 (J)	0.01 (J)			2.2				
6/17/2020				1					
9/15/2020	0.017 (J)	0.0071 (J)	0.044 (J)						
9/16/2020				1.1	1.9	1.1			
9/17/2020								2	
9/18/2020									1.6
9/21/2020							1.6		
11/10/2020									

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 4/22/2025 4:56 PM View: Appendix III Interwell PL

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-3 (bg)	HGWA-2 (bg)	HGWC-7	HGWC-8	HGWC-10	HGWC-13	HGWC-9	HGWC-12
12/15/2020									
1/19/2021									
3/10/2021	0.015 (J)								
3/11/2021		0.015 (J)	0.056						
3/12/2021						0.64			
3/15/2021				1.1	1.7				
3/16/2021								2.2	1.9
3/17/2021							0.89		
8/11/2021	0.02 (J)								
8/12/2021		<0.04	0.044						
8/13/2021									
8/16/2021				1.1					
8/17/2021						0.88		2.3	
8/18/2021					1.8				1.9
8/19/2021							0.73		
2/1/2022	0.016 (J)	0.011 (J)	0.056						
2/9/2022						0.1		2.3	2
2/10/2022				1.3	1.7		1		
8/2/2022	0.012 (J)	<0.04	0.047						
8/3/2022					1.5	0.53	0.76		1.5
8/4/2022								2	
8/11/2022				1.1					
1/23/2023		0.012 (J)							
1/24/2023	0.015 (J)		0.046						
1/26/2023							0.83	1.9	1.5
1/27/2023				0.93		0.065			
2/1/2023					1.9				
8/8/2023	0.023 (J)	0.011 (J)	0.06						
8/10/2023						0.65			1.4
8/11/2023								2.1	
8/12/2023				0.82	1.7		1		
2/13/2024	0.02 (J)	<0.04	0.051						
2/14/2024				0.98	1.6				
2/15/2024						0.089		2.1	1.8
2/16/2024							1		
8/5/2024	0.02 (J)	<0.04	0.057						
8/6/2024									
8/7/2024				0.77	1.7	0.48		1.9	1.2
8/8/2024							0.81		
2/12/2025	0.021 (J)	0.011 (J)							
2/13/2025									1.4
2/14/2025			0.053			0.1			
2/15/2025					1.4 (M1)			2	
2/16/2025				0.9					
2/17/2025							1		

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 4/22/2025 4:56 PM View: Appendix III Interwell PL

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-11	HGWA-43D (bg)	HGWA-44D (bg)
5/19/2016			
5/20/2016			
5/23/2016	0.787		
7/11/2016			
7/12/2016	1.17		
8/30/2016			
9/1/2016	1.49		
10/19/2016			
10/20/2016			
10/24/2016	2.54		
12/6/2016			
12/7/2016	2.96		
1/24/2017			
1/25/2017			
1/26/2017	2.23		
3/21/2017			
3/22/2017	0.84		
5/22/2017			
5/23/2017			
5/24/2017	2.29		
10/3/2017	1.47		
6/4/2018			
6/5/2018	1.3		
6/6/2018			
10/1/2018			
10/2/2018			
10/3/2018	0.91		
10/5/2018			
3/13/2019			
4/1/2019			
4/2/2019			
4/3/2019	0.23		
4/5/2019			
9/23/2019			
9/24/2019			
9/25/2019			
9/26/2019			
9/27/2019	0.53		
3/25/2020			
3/26/2020			
3/27/2020			
3/30/2020			
3/31/2020	0.17		
4/1/2020			
6/16/2020			
6/17/2020			
9/15/2020			
9/16/2020		0.061 (J)	0.23
9/17/2020			
9/18/2020	0.91		
9/21/2020			
11/10/2020		0.057 (J)	0.29

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 4/22/2025 4:56 PM View: Appendix III Interwell PL

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-11	HGWA-43D (bg)	HGWA-44D (bg)
12/15/2020		0.052 (J)	0.31
1/19/2021		0.049 (J)	0.4
3/10/2021			0.39
3/11/2021		0.06	
3/12/2021			
3/15/2021			
3/16/2021	0.53		
3/17/2021			
8/11/2021		0.042	
8/12/2021			
8/13/2021			0.31
8/16/2021			
8/17/2021			
8/18/2021	0.91		
8/19/2021			
2/1/2022		0.05	0.44
2/9/2022	1		
2/10/2022			
8/2/2022		0.043	0.31
8/3/2022	0.64		
8/4/2022			
8/11/2022			
1/23/2023			
1/24/2023		0.037 (J)	0.44
1/26/2023	0.5		
1/27/2023			
2/1/2023			
8/8/2023		0.038 (J)	0.55
8/10/2023	0.44		
8/11/2023			
8/12/2023			
2/13/2024		0.037 (J)	0.49
2/14/2024			
2/15/2024	0.85		
2/16/2024			
8/5/2024			
8/6/2024		0.043	0.52
8/7/2024	0.46		
8/8/2024			
2/12/2025		0.04 (J)	0.54
2/13/2025	0.92		
2/14/2025			
2/15/2025			
2/16/2025			
2/17/2025			

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/22/2025 4:56 PM View: Appendix III Interwell PL

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-3 (bg)	HGWA-2 (bg)	HGWC-7	HGWC-8	HGWC-10	HGWC-13	HGWC-9	HGWC-12
5/19/2016	138	76.2	22.9						
5/20/2016				117	159				
5/23/2016						167	133	179	195
7/11/2016	97.2		22.3						
7/12/2016		61.5		88.8	127	143	101	174	181
8/30/2016	97.5	65.1	26.4						
9/1/2016				96.3	135	156	120	170	179
10/19/2016	99.2	73.2	21.7						
10/20/2016				96.9	134			133	
10/24/2016						156	127		193
12/6/2016	105	74.9	18.2	104	142			181	
12/7/2016						183	113		193
1/24/2017	95.7	69.6	18.5						
1/25/2017				94.5	142				
1/26/2017						82.6	77.9	175	172
3/21/2017	106	75.7	18.6	109	148				
3/22/2017						154	85.1	183	162
5/22/2017	107	71.5	17.8						
5/23/2017				93.3	140			181	
5/24/2017						171	77.1		158
10/3/2017	102	76.3	20.2	108	158	162	62	188	130
6/4/2018	124	73.4	19.1						
6/5/2018				99.8		167	110		
6/6/2018					127			184	136
10/1/2018	108	80.9	20.5 (J)						
10/2/2018				108	118	144		173	
10/3/2018									125
10/5/2018							73.6		
3/13/2019							77.7		
4/1/2019		80.5							
4/2/2019	132		22.5 (J)	101					
4/3/2019					125	137		164	114
4/5/2019							77.1		
9/23/2019	118	71	19.5						
9/24/2019					113				
9/25/2019				105					
9/26/2019							195		
9/27/2019						157		175	153
3/25/2020	127	89.8	23						
3/26/2020									145
3/27/2020				119	133				
3/30/2020							234		
3/31/2020								182	
4/1/2020						96.2			
6/16/2020	130	85.1			120				
6/17/2020				112					
9/15/2020	103	73.1	21.1						
9/16/2020				98	119	139			
9/17/2020								164	
9/18/2020									163
9/21/2020							173		
11/10/2020									

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/22/2025 4:56 PM View: Appendix III Interwell PL

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-3 (bg)	HGWA-2 (bg)	HGWC-7	HGWC-8	HGWC-10	HGWC-13	HGWC-9	HGWC-12
12/15/2020									
1/19/2021									
3/10/2021	111								
3/11/2021		83.8	43.8						
3/12/2021						146			
3/15/2021				113	156				
3/16/2021								182	166
3/17/2021							184		
8/11/2021	113								
8/12/2021		84	21.9						
8/13/2021									
8/16/2021				112					
8/17/2021						153		183	
8/18/2021					147				163
8/19/2021							179		
2/1/2022	106	85.1	27.2						
2/9/2022						76.8		183	172
2/10/2022				108	153		206		
8/2/2022	117	84.6	31.2						
8/3/2022					153	125	237		167
8/4/2022								196	
8/11/2022				119					
1/23/2023		85							
1/24/2023	117		29.4						
1/26/2023							234	173	154
1/27/2023				124		60.4			
2/1/2023					110				
8/8/2023	118	78.3	30.7						
8/10/2023						155			156
8/11/2023								168	
8/12/2023				101	122		172		
2/13/2024	116	83.6	38.8						
2/14/2024				109	96.2				
2/15/2024						68.4		148	171
2/16/2024							152		
8/5/2024	113	83.3	34.7						
8/6/2024									
8/7/2024				99.2	97.7	142		163	161
8/8/2024							127		
2/12/2025	125	86.6							
2/13/2025									160
2/14/2025			51.5			61			
2/15/2025					83.3 (M1)			171	
2/16/2025				114					
2/17/2025							115		

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/22/2025 4:56 PM View: Appendix III Interwell PL

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-11	HGWA-43D (bg)	HGWA-44D (bg)
5/19/2016			
5/20/2016			
5/23/2016	131		
7/11/2016			
7/12/2016	124		
8/30/2016			
9/1/2016	107		
10/19/2016			
10/20/2016			
10/24/2016	145		
12/6/2016			
12/7/2016	159		
1/24/2017			
1/25/2017			
1/26/2017	121		
3/21/2017			
3/22/2017	130		
5/22/2017			
5/23/2017			
5/24/2017	117		
10/3/2017	87.7		
6/4/2018			
6/5/2018	113		
6/6/2018			
10/1/2018			
10/2/2018			
10/3/2018	89		
10/5/2018			
3/13/2019			
4/1/2019			
4/2/2019			
4/3/2019	112		
4/5/2019			
9/23/2019			
9/24/2019			
9/25/2019			
9/26/2019			
9/27/2019	113		
3/25/2020			
3/26/2020			
3/27/2020			
3/30/2020			
3/31/2020	124		
4/1/2020			
6/16/2020			
6/17/2020			
9/15/2020			
9/16/2020		56	30
9/17/2020			
9/18/2020	122		
9/21/2020			
11/10/2020		63.3	33.6

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/22/2025 4:56 PM View: Appendix III Interwell PL

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-11	HGWA-43D (bg)	HGWA-44D (bg)
12/15/2020		62.6	28.7
1/19/2021		60.1	33
3/10/2021			12.1 (D)
3/11/2021		59.6	
3/12/2021			
3/15/2021			
3/16/2021	132		
3/17/2021			
8/11/2021		61	
8/12/2021			
8/13/2021			28.9
8/16/2021			
8/17/2021			
8/18/2021	128		
8/19/2021			
2/1/2022		55.9	24.8
2/9/2022	144		
2/10/2022			
8/2/2022		54.1	20.9
8/3/2022	131		
8/4/2022			
8/11/2022			
1/23/2023			
1/24/2023		56.6	13.2
1/26/2023	113		
1/27/2023			
2/1/2023			
8/8/2023		52.8	8.1
8/10/2023	100		
8/11/2023			
8/12/2023			
2/13/2024		53.3	9.9
2/14/2024			
2/15/2024	125		
2/16/2024			
8/5/2024			
8/6/2024		57.2	7.1
8/7/2024	101		
8/8/2024			
2/12/2025		61.8	7.2
2/13/2025	133		
2/14/2025			
2/15/2025			
2/16/2025			
2/17/2025			

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/22/2025 4:56 PM View: Appendix III Interwell PL

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWC-7	HGWC-8	HGWC-9	HGWC-10	HGWC-11	HGWC-12
5/19/2016	9.94	6.14	5.93						
5/20/2016				50.4	109				
5/23/2016						152	56.1	51.9	160
7/11/2016	6.3	5.9							
7/12/2016			6.2	50	110	160	63	100	160
8/30/2016	6	6.2	6.4						
9/1/2016				50	110	160	77	58	140
10/19/2016	5.8	6.1	6.5						
10/20/2016				49	110	110			
10/24/2016							99	220	160
12/6/2016	5.4	6	7.2	51	100	150			
12/7/2016							96	180	190
1/24/2017	5.2	6.1	6.4						
1/25/2017				54	110				
1/26/2017						170	7	90	160
3/21/2017	4.6	5.9	7.5	46	110				
3/22/2017						160	82	37	130
5/22/2017	4.6	5.9	6.5						
5/23/2017				49	130	150			
5/24/2017							81	69	120
10/3/2017	5.6	6.3	6.5	52	130	160	100	28	93
6/4/2018	13.1	6.1	6.3						
6/5/2018				52.3			66.6	56.1	
6/6/2018					44.8	138			46.4
10/1/2018	6.6	6.4	6.4						
10/2/2018				52.6	89.4	142	48.3		
10/3/2018								24.8	88.4
10/5/2018									
4/1/2019			6.5						
4/2/2019	20.3	5.8		55.5					
4/3/2019					91.6	130	49.3	4.6	62.8
4/5/2019									
9/23/2019	17.7	5.1	5.9						
9/24/2019					60.2				
9/25/2019				49.8					
9/26/2019									
9/27/2019						126	49.9	27.9	81
3/25/2020	20.4	5.2	6.1						
3/26/2020									48
3/27/2020				48.3	79.8				
3/30/2020									
3/31/2020						105		3.2	
4/1/2020							5.4		
6/16/2020	41.1		5.8		67.9				
6/17/2020				45.2					
9/15/2020	13.4	5	6						
9/16/2020				46.4	74.6		39.7		
9/17/2020						105			
9/18/2020								34.9	74.6
9/21/2020									
11/10/2020									
12/15/2020									

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/22/2025 4:56 PM View: Appendix III Interwell PL

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWC-7	HGWC-8	HGWC-9	HGWC-10	HGWC-11	HGWC-12
1/19/2021									
3/10/2021	7.4								
3/11/2021		5.1	5.9						
3/12/2021							35		
3/15/2021				44.5	72.4				
3/16/2021						94.7		11.5	56.8
3/17/2021									
8/11/2021	9.6								
8/12/2021		5.2	4.8						
8/13/2021									
8/16/2021				40.3					
8/17/2021						88.6	28.3		
8/18/2021					50.9			19.9	47.3
8/19/2021									
2/1/2022	7.5	7	5.7						
2/9/2022						84.4	1.2	20.4	46.8
2/10/2022				39.8	48.2				
8/2/2022	14.1	7.8	5.9						
8/3/2022					54.1		12.3	13.8	39.2
8/4/2022						86.8			
8/11/2022				37.7					
1/23/2023			5.6						
1/24/2023	9	7.1							
1/26/2023						86.9		8.8	34.6
1/27/2023				40			1.6		
2/1/2023					52.4				
8/8/2023	26	6.6	5.3						
8/10/2023							13.4	6.5	30.6
8/11/2023						78.9			
8/12/2023				33.3	53.1				
2/13/2024	10	6.3	5.3						
2/14/2024				35.8	32.9				
2/15/2024						83.2	2.6	14.5	37.7
2/16/2024									
8/5/2024	8.7	7.9	5.2						
8/6/2024									
8/7/2024				28.6	36.1	87.1	12.9	6.3	26.7
8/8/2024									
2/12/2025	4.8		5						
2/13/2025								11.7	24.3
2/14/2025		8.5					2.1		
2/15/2025					25	81.2			
2/16/2025				30.7					
2/17/2025									

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/22/2025 4:56 PM View: Appendix III Interwell PL

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-13	HGWA-43D (bg)	HGWA-44D (bg)
5/19/2016			
5/20/2016			
5/23/2016	93.2		
7/11/2016			
7/12/2016	78		
8/30/2016			
9/1/2016	100		
10/19/2016			
10/20/2016			
10/24/2016	140		
12/6/2016			
12/7/2016	110		
1/24/2017			
1/25/2017			
1/26/2017	70		
3/21/2017			
3/22/2017	59		
5/22/2017			
5/23/2017			
5/24/2017	50		
10/3/2017	29		
6/4/2018			
6/5/2018	72.3		
6/6/2018			
10/1/2018			
10/2/2018			
10/3/2018			
10/5/2018	32.3		
4/1/2019			
4/2/2019			
4/3/2019			
4/5/2019	36.4		
9/23/2019			
9/24/2019			
9/25/2019			
9/26/2019	109		
9/27/2019			
3/25/2020			
3/26/2020			
3/27/2020			
3/30/2020	75.1		
3/31/2020			
4/1/2020			
6/16/2020			
6/17/2020			
9/15/2020			
9/16/2020		4.1	5.65 (D)
9/17/2020			
9/18/2020			
9/21/2020	41.2		
11/10/2020		4.4	7.8
12/15/2020		4.7	9.4

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/22/2025 4:56 PM View: Appendix III Interwell PL

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-13	HGWA-43D (bg)	HGWA-44D (bg)
1/19/2021		4.1	9.5
3/10/2021			12.3
3/11/2021		4.5	
3/12/2021			
3/15/2021			
3/16/2021			
3/17/2021	31.4		
8/11/2021		3.5	
8/12/2021			
8/13/2021			39.9
8/16/2021			
8/17/2021			
8/18/2021			
8/19/2021	24.4		
2/1/2022		4.1	44.8
2/9/2022			
2/10/2022	17.4		
8/2/2022		4.3	19.8
8/3/2022	13		
8/4/2022			
8/11/2022			
1/23/2023			
1/24/2023		4.3	24.9
1/26/2023	12.5		
1/27/2023			
2/1/2023			
8/8/2023		3.5	27
8/10/2023			
8/11/2023			
8/12/2023	15.3		
2/13/2024		3.9	27.7
2/14/2024			
2/15/2024			
2/16/2024	16.7		
8/5/2024			
8/6/2024		4	30.2
8/7/2024			
8/8/2024	12.8		
2/12/2025		3.8	30.7
2/13/2025			
2/14/2025			
2/15/2025			
2/16/2025			
2/17/2025	13.5		

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 4/22/2025 4:56 PM View: Appendix III Interwell PL

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-3 (bg)	HGWA-2 (bg)	HGWC-8	HGWC-7	HGWC-9	HGWC-13	HGWC-12	HGWC-11
5/19/2016	0.105 (J)	0.0513 (J)	0.0303 (J)						
5/20/2016				0.499	0.0828 (J)				
5/23/2016						<0.1	0.2587 (J)	0.212 (J)	0.203 (J)
7/11/2016	0.16 (J)		0.05 (J)						
7/12/2016		0.12 (J)		0.67	0.2 (J)	0.24 (J)	0.53	0.31	0.44
8/30/2016	0.09 (J)	0.09 (J)	0.06 (J)						
9/1/2016				0.94	0.51	0.46	0.74	0.62	0.67
10/19/2016	0.1 (J)	0.1 (J)	0.04 (J)						
10/20/2016				0.56	0.4	0.56			
10/24/2016							0.31	0.19 (J)	0.26 (J)
12/6/2016	0.11 (J)	0.21 (J)	0.36	0.76	0.26 (J)	0.31			
12/7/2016							1	0.73	0.55
1/24/2017	0.09 (J)	0.06 (J)	<0.1						
1/25/2017				1.1	0.24 (J)				
1/26/2017						0.004 (J)	0.68	0.12 (J)	0.27 (J)
3/21/2017	0.13 (J)	0.005 (J)	<0.1	0.46	0.13 (J)				
3/22/2017						0.28 (J)	0.76	0.44	0.66
5/22/2017	0.12 (J)	0.05 (J)	<0.1						
5/23/2017				0.65	0.11 (J)	0.29 (J)			
5/24/2017							0.54	0.34	0.35
10/3/2017	0.13 (J)	0.13 (J)	<0.1	0.66	0.17 (J)	0.53	0.83	0.58	0.56
4/2/2018	<0.1		<0.1						
4/3/2018		<0.1		0.39	<0.1	<0.1			
4/4/2018							0.65	<0.1	0.39
6/4/2018	0.074 (J)	<0.1	<0.1						
6/5/2018					0.099 (J)		0.47		0.24 (J)
6/6/2018				0.46		0.12 (J)		0.21 (J)	
10/1/2018	<0.1	<0.1	<0.1						
10/2/2018				0.51	<0.1	0.031 (J)			
10/3/2018								0.15 (J)	0.31
10/5/2018							0.77		
3/12/2019	0.29 (J)	0.072 (J)	0.038 (J)	0.58					
3/13/2019					0.12 (J)	0.14 (J)	0.78		0.51
3/14/2019								1.1	
4/1/2019		0.029 (J)							
4/2/2019	0.1 (J)		0.071 (J)		0.097 (J)				
4/3/2019				0.63		0.14 (J)		0.3 (J)	0.43
4/5/2019							0.83		
9/23/2019	0.078 (J)	<0.1	<0.1						
9/24/2019				0.49					
9/25/2019					0.1 (J)				
9/26/2019							0.64		
9/27/2019						0.26 (J)		0.26 (J)	0.42
3/2/2020	0.076 (J)	<0.1	<0.1						
3/3/2020				0.45				0.21 (J)	0.24 (J)
3/4/2020					0.077 (J)	0.08 (J)	0.37		
3/25/2020	0.098 (J)	<0.1	<0.1						
3/26/2020								0.17 (J)	
3/27/2020				0.46	0.059 (J)				
3/30/2020							0.44		
3/31/2020						0.074 (J)			0.19 (J)
4/1/2020									

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 4/22/2025 4:56 PM View: Appendix III Interwell PL

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-3 (bg)	HGWA-2 (bg)	HGWC-8	HGWC-7	HGWC-9	HGWC-13	HGWC-12	HGWC-11
6/16/2020	0.071 (J)	<0.1		0.45					
6/17/2020					0.077 (J)				
8/25/2020		<0.1	<0.1						
8/28/2020	0.08 (J)								
9/15/2020	0.082 (J)	<0.1	<0.1						
9/16/2020				0.53	0.081 (J)				
9/17/2020						0.1			
9/18/2020								0.15	0.15
9/21/2020							0.44		
11/10/2020									
12/15/2020									
1/19/2021									
2/8/2021	0.078 (J)								
2/9/2021		0.074 (J)	<0.1						
2/10/2021					0.085 (J)				
2/12/2021								0.19	0.17
2/15/2021									
2/16/2021				0.47		0.096 (J)			
2/22/2021							0.55		
3/10/2021	0.079 (J)								
3/11/2021		<0.1	0.1						
3/12/2021									
3/15/2021				0.51	0.086 (J)				
3/16/2021						0.098 (J)		0.2	0.21
3/17/2021							0.65		
8/11/2021	0.058 (J)								
8/12/2021		<0.1	<0.1						
8/13/2021									
8/16/2021					0.084 (J)				
8/17/2021						0.095 (J)			
8/18/2021				0.41				0.15	0.21
8/19/2021							0.53		
2/1/2022	0.064 (J)	<0.1	<0.1						
2/9/2022						0.1		0.2	0.2
2/10/2022				0.42	0.083 (J)		0.53		
8/2/2022	0.09 (J)	0.067 (J)	0.053 (J)						
8/3/2022				0.44			0.55	0.21	0.22
8/4/2022						0.13			
8/11/2022					0.11				
1/23/2023		0.061 (J)							
1/24/2023	0.089 (J)		0.053 (J)						
1/26/2023						0.11	0.4	0.21	0.2
1/27/2023					0.1				
2/1/2023				0.4					
8/8/2023	0.088 (J)	0.055 (J)	0.07 (J)						
8/10/2023								0.17	0.15
8/11/2023						0.12			
8/12/2023				0.59	0.071 (J)		0.32		
2/13/2024	0.071 (J)	<0.1	0.17						
2/14/2024				0.3	0.081 (J)				
2/15/2024						0.087 (J)		0.19	0.21
2/16/2024							0.33		

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 4/22/2025 4:56 PM View: Appendix III Interwell PL

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-3 (bg)	HGWA-2 (bg)	HGWC-8	HGWC-7	HGWC-9	HGWC-13	HGWC-12	HGWC-11
8/5/2024	0.11	0.077 (J)	0.12						
8/6/2024									
8/7/2024				0.37	0.074 (J)	0.084 (J)		0.17	0.11
8/8/2024							0.38		
2/12/2025	0.1	0.073 (J)							
2/13/2025								0.24	0.3 (M1)
2/14/2025			0.1						
2/15/2025				0.24		0.071 (J)			
2/16/2025					0.056 (J)				
2/17/2025							0.4		

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 4/22/2025 4:56 PM View: Appendix III Interwell PL

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-10	HGWA-44D (bg)	HGWA-43D (bg)
5/19/2016			
5/20/2016			
5/23/2016	0.0394 (J)		
7/11/2016			
7/12/2016	0.15 (J)		
8/30/2016			
9/1/2016	0.5		
10/19/2016			
10/20/2016			
10/24/2016	0.06 (J)		
12/6/2016			
12/7/2016	0.44		
1/24/2017			
1/25/2017			
1/26/2017	0.29 (J)		
3/21/2017			
3/22/2017	0.34		
5/22/2017			
5/23/2017			
5/24/2017	0.13 (J)		
10/3/2017	0.46		
4/2/2018			
4/3/2018			
4/4/2018	<0.1		
6/4/2018			
6/5/2018	<0.1		
6/6/2018			
10/1/2018			
10/2/2018	0.17 (J)		
10/3/2018			
10/5/2018			
3/12/2019			
3/13/2019	0.17 (J)		
3/14/2019			
4/1/2019			
4/2/2019			
4/3/2019	0.082 (J)		
4/5/2019			
9/23/2019			
9/24/2019			
9/25/2019			
9/26/2019			
9/27/2019	0.17 (J)		
3/2/2020			
3/3/2020	0.11 (J)		
3/4/2020			
3/25/2020			
3/26/2020			
3/27/2020			
3/30/2020			
3/31/2020			
4/1/2020	0.12 (J)		

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 4/22/2025 4:56 PM View: Appendix III Interwell PL

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-10	HGWA-44D (bg)	HGWA-43D (bg)
6/16/2020			
6/17/2020			
8/25/2020			
8/28/2020			
9/15/2020			
9/16/2020	<0.1	0.37 (D)	0.22
9/17/2020			
9/18/2020			
9/21/2020			
11/10/2020		0.59	0.19
12/15/2020		0.67	0.21
1/19/2021		0.74	0.16
2/8/2021			
2/9/2021		0.44	0.19
2/10/2021			
2/12/2021			
2/15/2021	0.08 (J)		
2/16/2021			
2/22/2021			
3/10/2021		0.65	
3/11/2021			0.2
3/12/2021	0.054 (J)		
3/15/2021			
3/16/2021			
3/17/2021			
8/11/2021			0.15
8/12/2021			
8/13/2021		0.87	
8/16/2021			
8/17/2021	<0.1		
8/18/2021			
8/19/2021			
2/1/2022		0.96	0.19
2/9/2022	0.12		
2/10/2022			
8/2/2022		0.8	0.22
8/3/2022	0.13		
8/4/2022			
8/11/2022			
1/23/2023			
1/24/2023		1.3	0.23
1/26/2023			
1/27/2023	0.16		
2/1/2023			
8/8/2023		1.3	0.18
8/10/2023	0.05 (J)		
8/11/2023			
8/12/2023			
2/13/2024		1.5	0.2
2/14/2024			
2/15/2024	0.12		
2/16/2024			

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 4/22/2025 4:56 PM View: Appendix III Interwell PL

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-10	HGWA-44D (bg)	HGWA-43D (bg)
8/5/2024			
8/6/2024		1.3	0.21
8/7/2024	0.075 (J)		
8/8/2024			
2/12/2025		1.1	0.21
2/13/2025			
2/14/2025	0.086 (J)		
2/15/2025			
2/16/2025			
2/17/2025			

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 4/22/2025 4:56 PM View: Appendix III Interwell PL

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-3 (bg)	HGWA-2 (bg)	HGWC-8	HGWC-7	HGWC-11	HGWC-10	HGWC-9	HGWC-13
5/19/2016	7.27	7.45	5.81						
5/20/2016				6.99	7.14				
5/23/2016						6.22	6.83	7.23	7.14
7/11/2016	7.06		5.68						
7/12/2016		7.32		6.88	7.13	6.04	6.58	6.87	7.04
8/30/2016	7.28	7.43	5.63						
9/1/2016				6.73	7.29	6.26	6.54	7.15	7.24
10/19/2016	7.02	7.03	5.46						
10/20/2016				6.9	7.1			7.05	
10/24/2016						6.46	6.59		6.9
12/6/2016	7.09	7.08	5.38	6.98	7.15			7.15	
12/7/2016						6.29	6.56		6.91
1/24/2017	7.2	7.39	5.37						
1/25/2017				7.04	7.11				
1/26/2017						6.46	6.83	6.99	7.08
3/21/2017	7.01	6.83	4.9	6.87	7.12				
3/22/2017						5.81	6.66	7.03	7.13
5/22/2017	7.11	7.02	5.2						
5/23/2017				6.87	7.08			7.05	
5/24/2017						6.51	6.67		7.15
10/3/2017	7.21	7.47	5.3	6.72	7.21	6.25	6.54	7.07	7.32
4/2/2018	7.1		5.4						
4/3/2018		7.38		6.87	7.14			6.99	
4/4/2018						5.86	6.61		7.27
6/4/2018	7.06	7.38	5.27						
6/5/2018					7.13	6.27	6.65		7.2
6/6/2018				6.9				7.02	
10/1/2018	7.09	7.13	5.31						
10/2/2018				6.9	7.12		6.55	7.05	
10/3/2018						5.97			
10/5/2018									7.24
3/12/2019	7.03	7.29	5.42	6.91					
3/13/2019					7.27	5.92	6.7	7.06	7.24
3/14/2019									
4/1/2019		7.16							
4/2/2019	6.86		5.41		7.27				
4/3/2019				6.85		5.69	6.55	6.88	
4/5/2019									7.24
9/23/2019	7.02	7.3	5.33						
9/24/2019				6.95					
9/25/2019					7.11				
9/26/2019									6.94
9/27/2019						5.75	6.64	7.01	
9/30/2019	7	7.37	5.35						
3/2/2020	7.1	7.12	5.43						
3/3/2020				7.06		5.95	6.76		
3/4/2020					7.17			6.97	7.16
3/25/2020	6.95	7.4	5.36						
3/26/2020									
3/27/2020				6.95	7.05				
3/30/2020									6.91
3/31/2020						5.7		7.07	

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 4/22/2025 4:56 PM View: Appendix III Interwell PL

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-3 (bg)	HGWA-2 (bg)	HGWC-8	HGWC-7	HGWC-11	HGWC-10	HGWC-9	HGWC-13
4/1/2020							6.84		
6/16/2020	6.97	7.31		6.97					
6/17/2020					7.2				
8/25/2020		7.14	5.15						
8/28/2020	7.02								
9/15/2020	7.15	7.29	5.22						
9/16/2020				6.92	7.3		6.66		
9/17/2020								6.99	
9/18/2020						6.42			
9/21/2020									7.38
11/10/2020									
12/15/2020									
1/19/2021									
2/8/2021	7.11								
2/9/2021		7.23	5.42						
2/10/2021					7.29				
2/12/2021						7.27			
2/15/2021							6.83		
2/16/2021				7.16				7.26	
2/22/2021									7.27
3/10/2021	6.95								
3/11/2021		7.33	5.8						
3/12/2021							6.76		
3/15/2021				7.09	7.19				
3/16/2021						5.95		7.1	
3/17/2021									7.33
8/11/2021	6.98								
8/12/2021		7.31	5.05						
8/13/2021									
8/16/2021					7.12				
8/17/2021							6.75	7.1	
8/18/2021				7.02		6.1			
8/19/2021									7.38
2/1/2022	7.19	7.45	5.24						
2/9/2022						6.55	7	7.3	
2/10/2022				6.99	7.22				7.54
8/2/2022	7.03	7.02	4.57						
8/3/2022				6.84		6.23	6.73		7.09
8/4/2022								7.03	
8/11/2022					7.07				
1/23/2023		7.32							
1/24/2023	6.76		5.22						
1/26/2023						6.23		7.07	6.9
1/27/2023					7.25		6.89		
2/1/2023				6.6					
8/8/2023	7.05	7.42	5.01						
8/10/2023						5.9	6.81		
8/11/2023								7.09	
8/12/2023				6.84	7.36				6.89
2/13/2024	7.06	7.35	5.49						
2/14/2024				6.66	7.3				
2/15/2024						6.36	6.93	6.82	

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 4/22/2025 4:56 PM View: Appendix III Interwell PL

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-3 (bg)	HGWA-2 (bg)	HGWC-8	HGWC-7	HGWC-11	HGWC-10	HGWC-9	HGWC-13
2/16/2024									6.9
8/5/2024	7.29	7.27	4.91						
8/6/2024									
8/7/2024				6.71	7.58	5.79	6.92	7.03	
8/8/2024									6.95
2/12/2025	7.08	7.37							
2/13/2025						6.6			
2/14/2025		7.45	5.75				6.77		
2/15/2025				6.54				7.03	
2/16/2025					7.41				
2/17/2025									7.11

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 4/22/2025 4:56 PM View: Appendix III Interwell PL

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-12	HGWA-44D (bg)	HGWA-43D (bg)
5/19/2016			
5/20/2016			
5/23/2016	7.15		
7/11/2016			
7/12/2016	6.87		
8/30/2016			
9/1/2016	7.2		
10/19/2016			
10/20/2016			
10/24/2016	7.1		
12/6/2016			
12/7/2016	6.92		
1/24/2017			
1/25/2017			
1/26/2017	7.05		
3/21/2017			
3/22/2017	7.08		
5/22/2017			
5/23/2017			
5/24/2017	7.11		
10/3/2017	7.01		
4/2/2018			
4/3/2018			
4/4/2018	7.12		
6/4/2018			
6/5/2018			
6/6/2018	7.12		
10/1/2018			
10/2/2018			
10/3/2018	7.08		
10/5/2018			
3/12/2019			
3/13/2019			
3/14/2019	7.09		
4/1/2019			
4/2/2019			
4/3/2019	6.96		
4/5/2019			
9/23/2019			
9/24/2019			
9/25/2019			
9/26/2019			
9/27/2019	7.07		
9/30/2019			
3/2/2020			
3/3/2020	6.95		
3/4/2020			
3/25/2020			
3/26/2020	6.99		
3/27/2020			
3/30/2020			
3/31/2020			

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 4/22/2025 4:56 PM View: Appendix III Interwell PL

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-12	HGWA-44D (bg)	HGWA-43D (bg)
4/1/2020			
6/16/2020			
6/17/2020			
8/25/2020			
8/28/2020			
9/15/2020			
9/16/2020		7.83	7.52
9/17/2020			
9/18/2020	7.16		
9/21/2020			
11/10/2020		7.84	7.27
12/15/2020		7.87	7.39
1/19/2021		7.86	7.39
2/8/2021			
2/9/2021		7.84	7.44
2/10/2021			
2/12/2021	6.23		
2/15/2021			
2/16/2021			
2/22/2021			
3/10/2021		7.92	
3/11/2021			7.46
3/12/2021			
3/15/2021			
3/16/2021	7.15		
3/17/2021			
8/11/2021			7.4
8/12/2021			
8/13/2021		7.77	
8/16/2021			
8/17/2021			
8/18/2021	6.89		
8/19/2021			
2/1/2022		8.25	7.52
2/9/2022	7.23		
2/10/2022			
8/2/2022		7.9	7.15
8/3/2022	7.13		
8/4/2022			
8/11/2022			
1/23/2023			
1/24/2023		8.22	7.56
1/26/2023	7.1		
1/27/2023			
2/1/2023			
8/8/2023		8.2	7.39
8/10/2023	7.08		
8/11/2023			
8/12/2023			
2/13/2024		8.1	7.47
2/14/2024			
2/15/2024	7.02		

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 4/22/2025 4:56 PM View: Appendix III Interwell PL

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-12	HGWA-44D (bg)	HGWA-43D (bg)
2/16/2024			
8/5/2024			
8/6/2024		8.36	7.46
8/7/2024	7.09		
8/8/2024			
2/12/2025		8.49	7.5
2/13/2025	7.04		
2/14/2025			
2/15/2025			
2/16/2025			
2/17/2025			

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/22/2025 4:56 PM View: Appendix III Interwell PL

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWC-7	HGWC-8	HGWC-9	HGWC-10	HGWC-11	HGWC-12
5/19/2016	66.9	48.6	42.3						
5/20/2016				96	219				
5/23/2016						207	175	260	288
7/11/2016	41	45							
7/12/2016			44	100	230	230	190	390	320
8/30/2016	36	42	40						
9/1/2016				100	230	230	190	240	300
10/19/2016	46	44	43						
10/20/2016				110	240	240			
10/24/2016							190	370	270
12/6/2016	59	44	43	110	250	240			
12/7/2016							200	260	280
1/24/2017	46	46	48						
1/25/2017				110	260				
1/26/2017						270	90	230	260
3/21/2017	63	46	45	110	240				
3/22/2017						240	170	330	220
5/22/2017	77	48	46						
5/23/2017				110	270	240			
5/24/2017							190	230	210
10/3/2017	42	47	48	120	230	240	200	230	190
6/4/2018	71.8	47.8	46.6						
6/5/2018				117			205	204	
6/6/2018					190	214			162
10/1/2018	49.1	48.1	48.6						
10/2/2018				120	193	218	178		
10/3/2018								233	191
10/5/2018									
4/1/2019			50.4						
4/2/2019	84.3	48.7		127					
4/3/2019					194	214	159	298	176
4/5/2019									
9/23/2019	70.2	47.2	43.9						
9/24/2019					133				
9/25/2019				109					
9/26/2019									
9/27/2019						214	181	<1	198
3/25/2020	85.9	46.3	50.5						
3/26/2020									182
3/27/2020				109	173				
3/30/2020									
3/31/2020						185		283	
4/1/2020							59		
6/16/2020	88.2		49.5		157				
6/17/2020				102					
9/15/2020	47.3	51.5	44.7						
9/16/2020				109	194		169		
9/17/2020						209			
9/18/2020								272	266
9/21/2020									
11/10/2020									
12/15/2020									

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/22/2025 4:56 PM View: Appendix III Interwell PL

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWC-7	HGWC-8	HGWC-9	HGWC-10	HGWC-11	HGWC-12
1/19/2021									
3/10/2021	49.6								
3/11/2021		52.9	50.4						
3/12/2021							120		
3/15/2021				107	272				
3/16/2021						211		291	248
3/17/2021									
8/11/2021	48.9								
8/12/2021		47.4	38.6						
8/13/2021									
8/16/2021				98.1					
8/17/2021						207	156		
8/18/2021					245			237	226
8/19/2021									
2/1/2022	43.7	67.1	46						
2/9/2022						224	49.2	276	252
2/10/2022				97.5	224				
8/2/2022	58.1	86.9	43.5						
8/3/2022					241		119	254	236
8/4/2022						243			
8/11/2022				121					
1/23/2023			39.5						
1/24/2023	48.3	79.7							
1/26/2023						217		209	228
1/27/2023				119			37.3		
2/1/2023					179				
8/8/2023	67.7	89.9	35						
8/10/2023							128	190	209
8/11/2023						197			
8/12/2023				84.2	170				
2/13/2024	50.4	93.9	35.5						
2/14/2024				102	137				
2/15/2024						199	51.2	208	240
2/16/2024									
8/5/2024	49.4	87.2	31.1						
8/6/2024									
8/7/2024				86.5	124	187	111	206	220
8/8/2024									
2/12/2025	43.8		28						
2/13/2025								155 (M1)	198
2/14/2025		94.5 (M1)					39.2		
2/15/2025					104	169			
2/16/2025				98.5 (M1)					
2/17/2025									

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/22/2025 4:56 PM View: Appendix III Interwell PL

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-13	HGWA-43D (bg)	HGWA-44D (bg)
5/19/2016			
5/20/2016			
5/23/2016	215		
7/11/2016			
7/12/2016	210		
8/30/2016			
9/1/2016	190		
10/19/2016			
10/20/2016			
10/24/2016	180		
12/6/2016			
12/7/2016	120		
1/24/2017			
1/25/2017			
1/26/2017	83		
3/21/2017			
3/22/2017	100		
5/22/2017			
5/23/2017			
5/24/2017	110		
10/3/2017	67		
6/4/2018			
6/5/2018	187		
6/6/2018			
10/1/2018			
10/2/2018			
10/3/2018			
10/5/2018	78.3		
4/1/2019			
4/2/2019			
4/3/2019			
4/5/2019	105		
9/23/2019			
9/24/2019			
9/25/2019			
9/26/2019	444		
9/27/2019			
3/25/2020			
3/26/2020			
3/27/2020			
3/30/2020	393		
3/31/2020			
4/1/2020			
6/16/2020			
6/17/2020			
9/15/2020			
9/16/2020		43	24.95 (D)
9/17/2020			
9/18/2020			
9/21/2020	359		
11/10/2020		39	6.3
12/15/2020		38.8	6.7

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/22/2025 4:56 PM View: Appendix III Interwell PL

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-13	HGWA-43D (bg)	HGWA-44D (bg)
1/19/2021		37.3	7.4
3/10/2021			<1
3/11/2021		38.6	
3/12/2021			
3/15/2021			
3/16/2021			
3/17/2021	384		
8/11/2021		30.5	
8/12/2021			
8/13/2021			56.1
8/16/2021			
8/17/2021			
8/18/2021			
8/19/2021	339		
2/1/2022		37.5	56.3
2/9/2022			
2/10/2022	371		
8/2/2022		37	13.2
8/3/2022	451		
8/4/2022			
8/11/2022			
1/23/2023			
1/24/2023		34.7	10.1
1/26/2023	495		
1/27/2023			
2/1/2023			
8/8/2023		25.6	1.3
8/10/2023			
8/11/2023			
8/12/2023	347		
2/13/2024		28.9	2
2/14/2024			
2/15/2024			
2/16/2024	285		
8/5/2024			
8/6/2024		25.5	0.86 (J)
8/7/2024			
8/8/2024	239		
2/12/2025		25.2	0.51 (J)
2/13/2025			
2/14/2025			
2/15/2025			
2/16/2025			
2/17/2025	167 (M1)		

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 4/22/2025 4:56 PM View: Appendix III Interwell PL

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWC-7	HGWC-8	HGWC-9	HGWC-10	HGWC-11	HGWC-12
5/19/2016	421	143	267						
5/20/2016				427	711				
5/23/2016						984	629	564	1060
7/11/2016	363	125							
7/12/2016			249	410	704	887	661	627	909
8/30/2016	330	168	254						
9/1/2016				484	763	956	769	656	1480
10/19/2016	380	176	357						
10/20/2016				393	644	642			
10/24/2016							643	836	868
12/6/2016	377	145	285	492	733	899			
12/7/2016							697	748	811
1/24/2017	342	129	300						
1/25/2017				461	744				
1/26/2017						869	368	571	846
3/21/2017	340	103	288	415	818				
3/22/2017						936	683	597	804
5/22/2017	338	92	263						
5/23/2017				450	765	939			
5/24/2017							696	566	803
10/3/2017	343	127	300	464	812	1040	746	443	608
6/4/2018	415	140	266						
6/5/2018				459			679	489	
6/6/2018					611	810			535
10/1/2018	354	135	291						
10/2/2018				426	597	693	572		
10/3/2018								449	607
10/5/2018									
4/1/2019			284						
4/2/2019	452	133		428					
4/3/2019					543	673	525	483	462
4/5/2019									
9/23/2019	442	129	268						
9/24/2019					471.5 (D)				
9/25/2019				503					
9/26/2019									
9/27/2019						730	625 (D)	528	653
3/25/2020	496	138	284						
3/26/2020									533
3/27/2020				413	541				
3/30/2020									
3/31/2020						1010		565	
4/1/2020							290		
6/16/2020	632		448		573				
6/17/2020				423					
9/15/2020	265	124	258						
9/16/2020				392	552		490		
9/17/2020						680			
9/18/2020								626	704
9/21/2020									
11/10/2020									
12/15/2020									

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 4/22/2025 4:56 PM View: Appendix III Interwell PL

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWC-7	HGWC-8	HGWC-9	HGWC-10	HGWC-11	HGWC-12
1/19/2021									
3/10/2021	348								
3/11/2021		169	267						
3/12/2021							490		
3/15/2021				370	614				
3/16/2021						672		558	614
3/17/2021									
8/11/2021	366								
8/12/2021		118	265						
8/13/2021									
8/16/2021				407					
8/17/2021						704	496		
8/18/2021					620			566	600
8/19/2021									
2/1/2022	270	156	350						
2/9/2022						756	250	544	678
2/10/2022				414	578				
8/2/2022	400	196	287						
8/3/2022					648		433	572	650
8/4/2022						760			
8/11/2022				445					
1/23/2023			293						
1/24/2023	369	164							
1/26/2023						745		429	624
1/27/2023				473			188		
2/1/2023					528				
8/8/2023	457	189	285						
8/10/2023							504	438	683
8/11/2023						757			
8/12/2023				378	564				
2/13/2024	402	214	284						
2/14/2024				440	407				
2/15/2024						663	229	491	660
2/16/2024									
8/5/2024	444	217	304						
8/6/2024									
8/7/2024				417	469	731	501	437	642
8/8/2024									
2/12/2025	374		267						
2/13/2025								478	590
2/14/2025		242					208		
2/15/2025					340	628			
2/16/2025				408					
2/17/2025									

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 4/22/2025 4:56 PM View: Appendix III Interwell PL

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-13	HGWA-43D (bg)	HGWA-44D (bg)
5/19/2016			
5/20/2016			
5/23/2016	683		
7/11/2016			
7/12/2016	563		
8/30/2016			
9/1/2016	702		
10/19/2016			
10/20/2016			
10/24/2016	647		
12/6/2016			
12/7/2016	465		
1/24/2017			
1/25/2017			
1/26/2017	411		
3/21/2017			
3/22/2017	427		
5/22/2017			
5/23/2017			
5/24/2017	377		
10/3/2017	268		
6/4/2018			
6/5/2018	528		
6/6/2018			
10/1/2018			
10/2/2018			
10/3/2018			
10/5/2018	322		
4/1/2019			
4/2/2019			
4/3/2019			
4/5/2019	331		
9/23/2019			
9/24/2019			
9/25/2019			
9/26/2019	1010		
9/27/2019			
3/25/2020			
3/26/2020			
3/27/2020			
3/30/2020	895		
3/31/2020			
4/1/2020			
6/16/2020			
6/17/2020			
9/15/2020			
9/16/2020		272	270
9/17/2020			
9/18/2020			
9/21/2020	732		
11/10/2020		307	287
12/15/2020		289	295

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 4/22/2025 4:56 PM View: Appendix III Interwell PL

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-13	HGWA-43D (bg)	HGWA-44D (bg)
1/19/2021		270	278
3/10/2021			289
3/11/2021		279	
3/12/2021			
3/15/2021			
3/16/2021			
3/17/2021	716		
8/11/2021		277	
8/12/2021			
8/13/2021			436
8/16/2021			
8/17/2021			
8/18/2021			
8/19/2021	726		
2/1/2022		156	444
2/9/2022			
2/10/2022	814		
8/2/2022		278	311
8/3/2022	958		
8/4/2022			
8/11/2022			
1/23/2023			
1/24/2023		271	363
1/26/2023	962		
1/27/2023			
2/1/2023			
8/8/2023		274	361
8/10/2023			
8/11/2023			
8/12/2023	803		
2/13/2024		291	379
2/14/2024			
2/15/2024			
2/16/2024	666		
8/5/2024			
8/6/2024		283	380
8/7/2024			
8/8/2024	544		
2/12/2025		273	363
2/13/2025			
2/14/2025			
2/15/2025			
2/16/2025			
2/17/2025	522		

FIGURE E.

Appendix III Trend Tests - Significant Results

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 4/22/2025, 5:02 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	**HGWA-2 (bg)**	**0.002553**	**192**	**105**	**Yes**	**24**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**HGWA-43D (bg)**	**-0.00484**	**-48**	**-43**	**Yes**	**13**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**HGWA-44D (bg)**	**0.06008**	**56**	**43**	**Yes**	**13**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**HGWC-12**	**-0.1623**	**-169**	**-105**	**Yes**	**24**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**HGWC-13**	**-0.1816**	**-179**	**-111**	**Yes**	**25**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**HGWA-2 (bg)**	**1.743**	**142**	**105**	**Yes**	**24**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**HGWA-3 (bg)**	**1.808**	**153**	**111**	**Yes**	**25**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**HGWA-44D (bg)**	**-6.278**	**-58**	**-43**	**Yes**	**13**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**HGWA-3 (bg)**	**-0.1661**	**-183**	**-111**	**Yes**	**25**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**HGWA-44D (bg)**	**6.04**	**54**	**43**	**Yes**	**13**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**HGWC-9**	**-10.74**	**-206**	**-105**	**Yes**	**24**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**HGWA-2 (bg)**	**4.631**	**200**	**105**	**Yes**	**24**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**HGWA-43D (bg)**	**-3.467**	**-66**	**-43**	**Yes**	**13**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**HGWC-9**	**-4.647**	**-119**	**-105**	**Yes**	**24**	**0**	**n/a**	**n/a**	**0.01**	**NP**

Appendix III Trend Tests - All Results

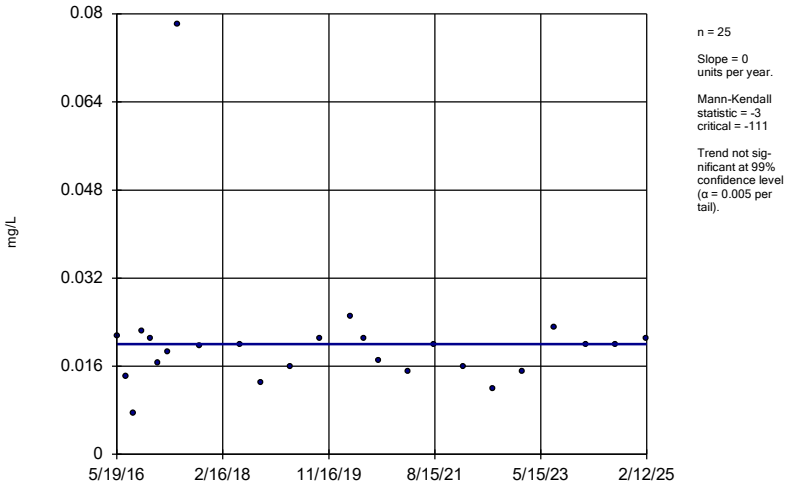
Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 4/22/2025, 5:02 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	HGWA-1 (bg)	0	-3	-111	No	25	0	n/a	n/a	0.01	NP
Boron (mg/L)	**HGWA-2 (bg)**	**0.002553**	**192**	**105**	**Yes**	**24**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	HGWA-3 (bg)	0.0004291	70	111	No	25	24	n/a	n/a	0.01	NP
Boron (mg/L)	**HGWA-43D (bg)**	**-0.00484**	**-48**	**-43**	**Yes**	**13**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**HGWA-44D (bg)**	**0.06008**	**56**	**43**	**Yes**	**13**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	HGWC-7	0.01365	66	111	No	25	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWC-8	-0.04194	-74	-111	No	25	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWC-9	0.0155	45	105	No	24	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWC-11	-0.1137	-104	-105	No	24	0	n/a	n/a	0.01	NP
Boron (mg/L)	**HGWC-12**	**-0.1623**	**-169**	**-105**	**Yes**	**24**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**HGWC-13**	**-0.1816**	**-179**	**-111**	**Yes**	**25**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	HGWA-1 (bg)	2.026	100	111	No	25	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**HGWA-2 (bg)**	**1.743**	**142**	**105**	**Yes**	**24**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**HGWA-3 (bg)**	**1.808**	**153**	**111**	**Yes**	**25**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	HGWA-43D (bg)	-1.38	-24	-43	No	13	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**HGWA-44D (bg)**	**-6.278**	**-58**	**-43**	**Yes**	**13**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	HGWC-9	-0.2798	-18	-105	No	24	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWC-12	-2.431	-63	-105	No	24	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWA-1 (bg)	0.4664	67	111	No	25	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWA-2 (bg)	0.1024	59	105	No	24	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**HGWA-3 (bg)**	**-0.1661**	**-183**	**-111**	**Yes**	**25**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	HGWA-43D (bg)	-0.1034	-29	-43	No	13	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**HGWA-44D (bg)**	**6.04**	**54**	**43**	**Yes**	**13**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**HGWC-9**	**-10.74**	**-206**	**-105**	**Yes**	**24**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	HGWA-1 (bg)	0.3291	19	111	No	25	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**HGWA-2 (bg)**	**4.631**	**200**	**105**	**Yes**	**24**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	HGWA-3 (bg)	-0.7966	-54	-111	No	25	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**HGWA-43D (bg)**	**-3.467**	**-66**	**-43**	**Yes**	**13**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	HGWA-44D (bg)	-1.791	-24	-43	No	13	7.692	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWC-7	-0.3647	-48	-111	No	25	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWC-8	-11.28	-111	-111	No	25	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**HGWC-9**	**-4.647**	**-119**	**-105**	**Yes**	**24**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	HGWC-11	-10.76	-104	-105	No	24	4.167	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWC-12	-8.029	-82	-105	No	24	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWC-13	22.76	64	105	No	24	0	n/a	n/a	0.01	NP

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

HGWA-1 (bg)



n = 25

Slope = 0 units per year.

Mann-Kendall statistic = -3 critical = -111

Trend not significant at 99% confidence level (α = 0.005 per tail).

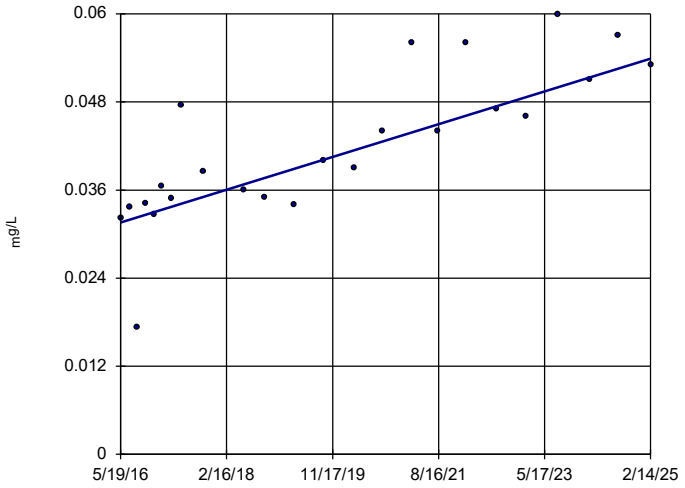
Constituent: Boron Analysis Run 4/22/2025 5:01 PM View: Appendix III Trend Test

Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

HGWA-2 (bg)



n = 24

Slope = 0.002553 units per year.

Mann-Kendall statistic = 192 critical = 105

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/22/2025 5:01 PM View: Appendix III Trend Test

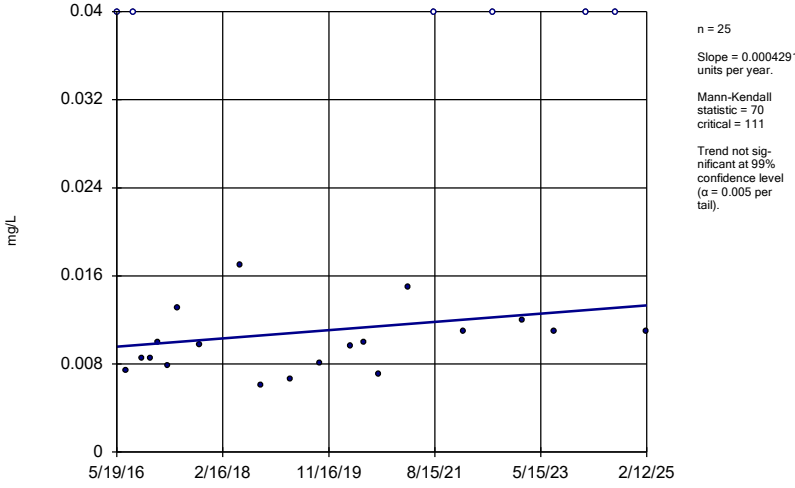
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

HGWA-3 (bg)



n = 25

Slope = 0.0004291 units per year.

Mann-Kendall statistic = 70 critical = 111

Trend not significant at 99% confidence level (α = 0.005 per tail).

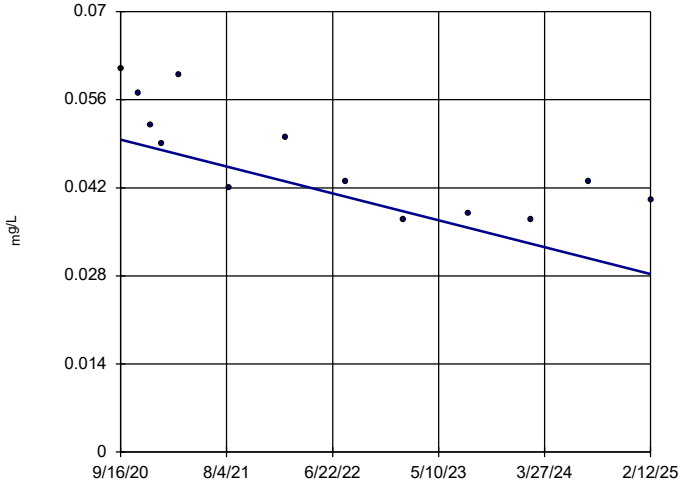
Constituent: Boron Analysis Run 4/22/2025 5:01 PM View: Appendix III Trend Test

Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

HGWA-43D (bg)



n = 13

Slope = -0.00484 units per year.

Mann-Kendall statistic = -48 critical = -43

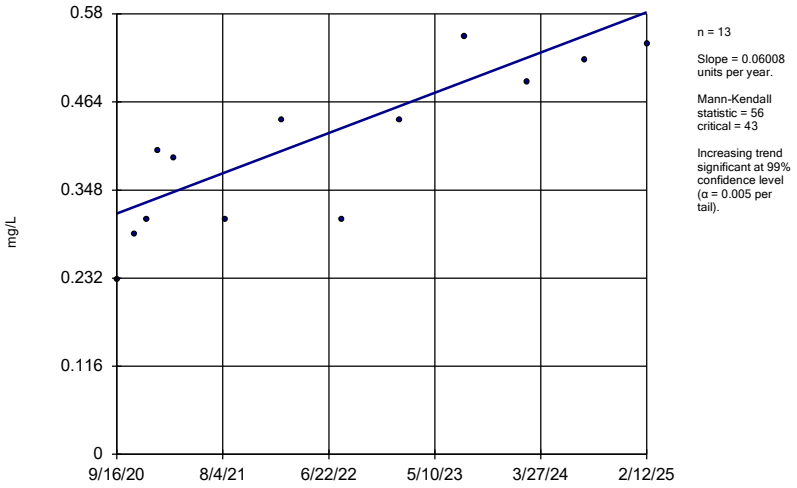
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/22/2025 5:01 PM View: Appendix III Trend Test

Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

HGWA-44D (bg)



n = 13

Slope = 0.06008 units per year.

Mann-Kendall statistic = 56
critical = 43

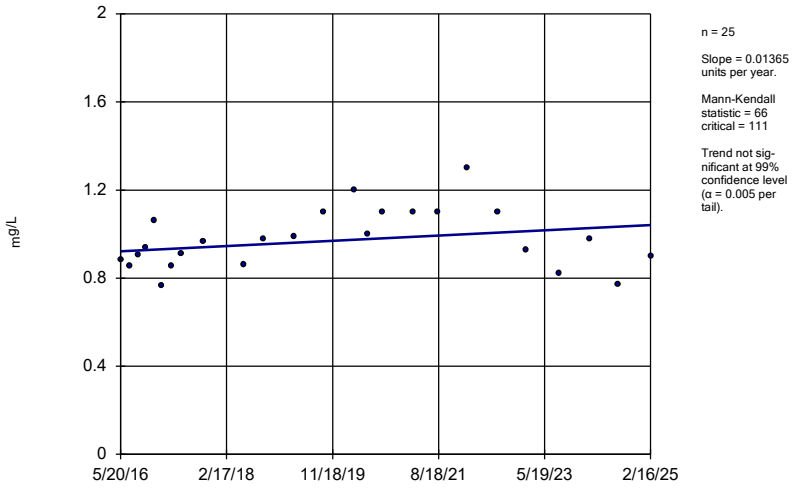
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/22/2025 5:01 PM View: Appendix III Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

HGWC-7



n = 25

Slope = 0.01365 units per year.

Mann-Kendall statistic = 66
critical = 111

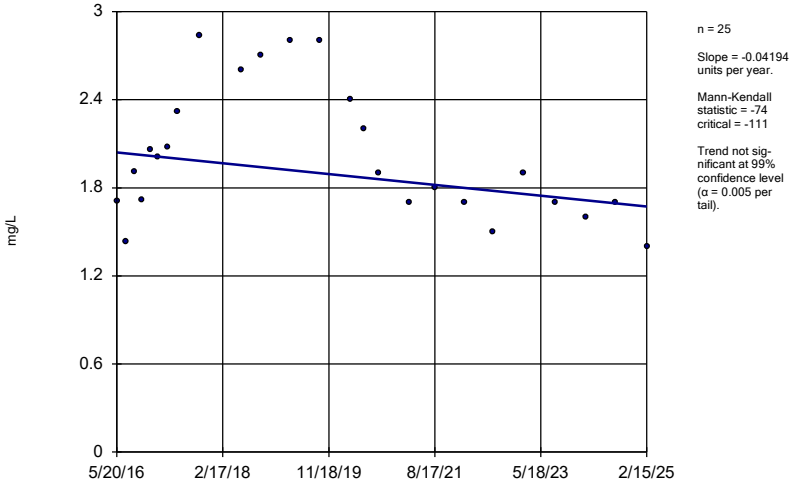
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/22/2025 5:01 PM View: Appendix III Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

HGWC-8



n = 25

Slope = -0.04194 units per year.

Mann-Kendall statistic = -74
critical = -111

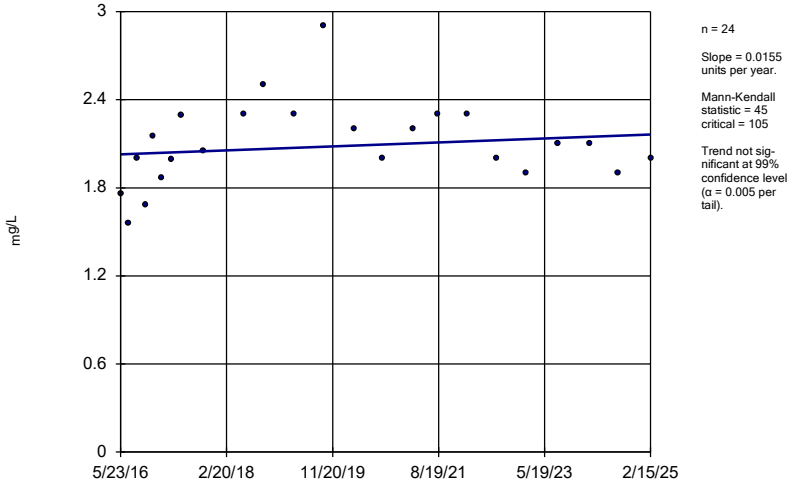
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/22/2025 5:01 PM View: Appendix III Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

HGWC-9



n = 24

Slope = 0.0155 units per year.

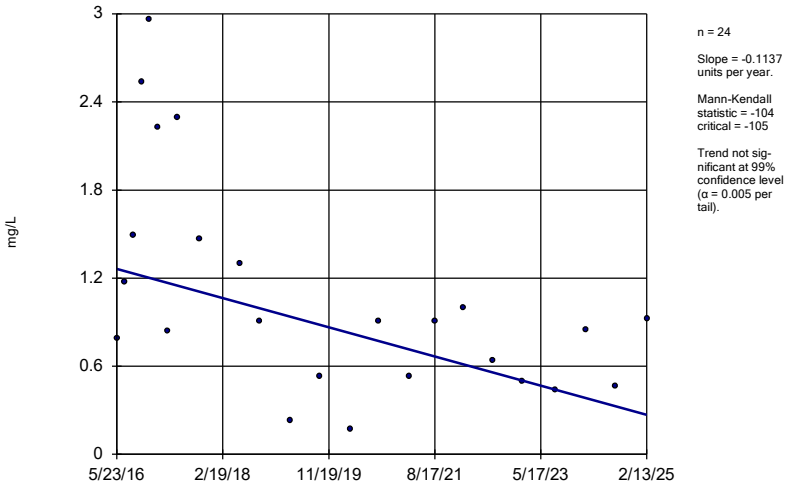
Mann-Kendall statistic = 45
critical = 105

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/22/2025 5:01 PM View: Appendix III Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

HGWC-11



n = 24

Slope = -0.1137 units per year.

Mann-Kendall statistic = -104 critical = -105

Trend not significant at 99% confidence level (α = 0.005 per tail).

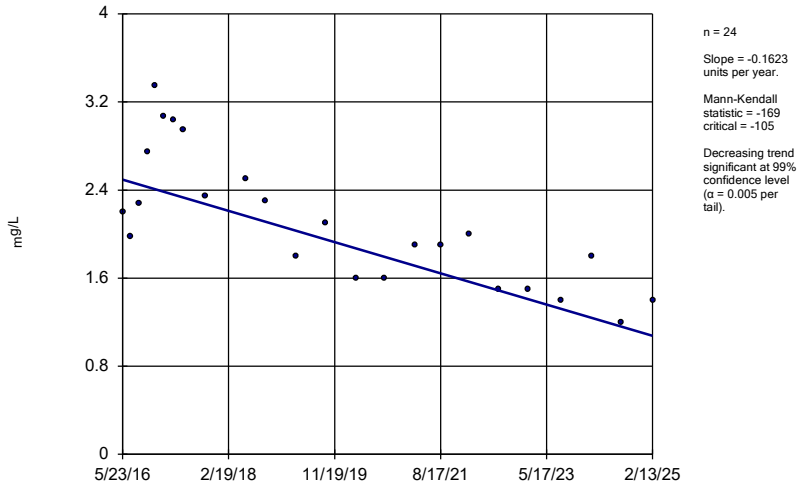
Constituent: Boron Analysis Run 4/22/2025 5:01 PM View: Appendix III Trend Test

Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

HGWC-12



n = 24

Slope = -0.1623 units per year.

Mann-Kendall statistic = -169 critical = -105

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

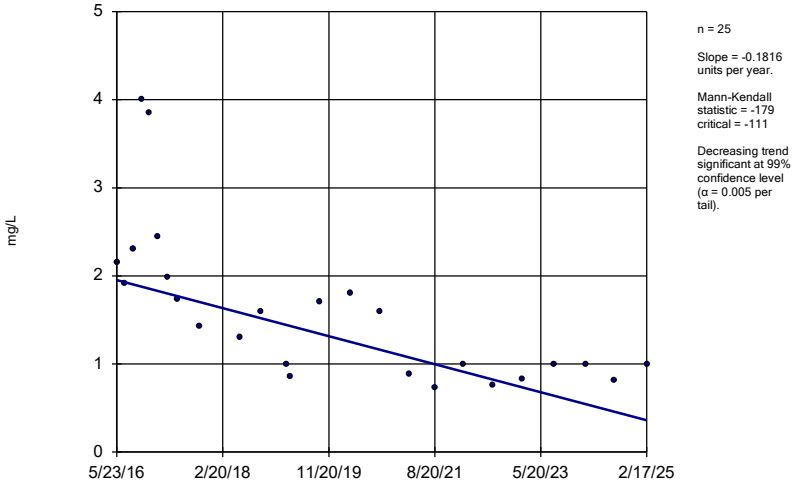
Constituent: Boron Analysis Run 4/22/2025 5:01 PM View: Appendix III Trend Test

Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

HGWC-13



n = 25

Slope = -0.1816 units per year.

Mann-Kendall statistic = -179 critical = -111

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

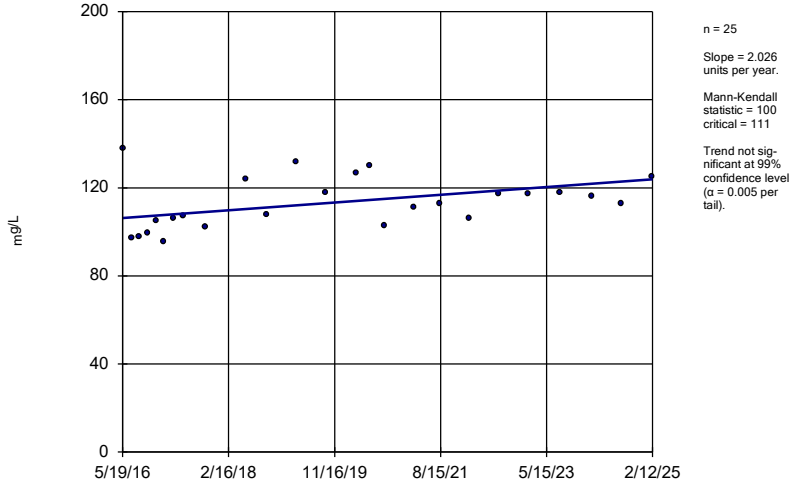
Constituent: Boron Analysis Run 4/22/2025 5:01 PM View: Appendix III Trend Test

Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

HGWA-1 (bg)



n = 25

Slope = 2.026 units per year.

Mann-Kendall statistic = 100 critical = 111

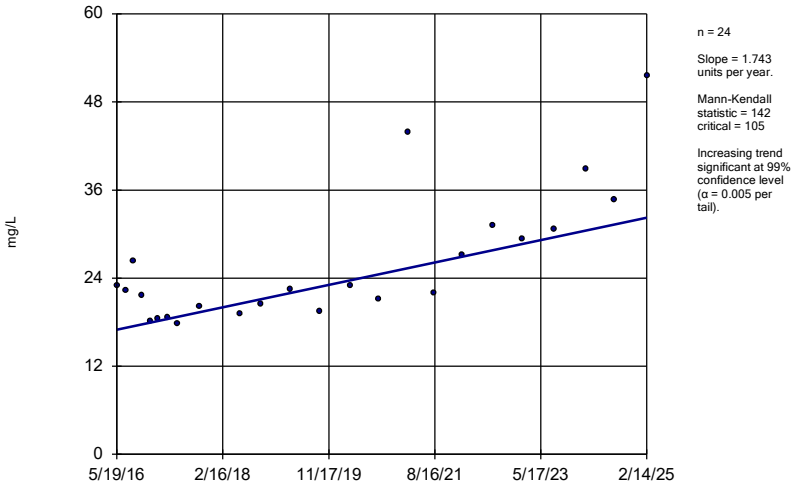
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 4/22/2025 5:01 PM View: Appendix III Trend Test

Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

HGWA-2 (bg)



n = 24

Slope = 1.743 units per year.

Mann-Kendall statistic = 142 critical = 105

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

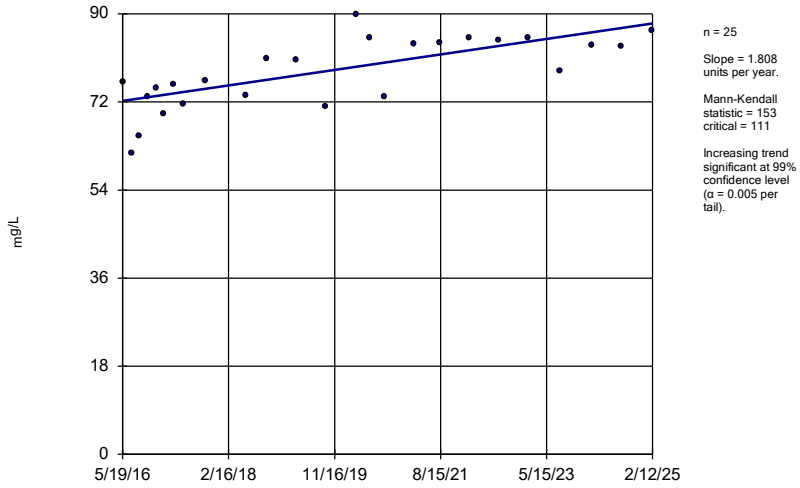
Constituent: Calcium Analysis Run 4/22/2025 5:01 PM View: Appendix III Trend Test

Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

HGWA-3 (bg)



n = 25

Slope = 1.808 units per year.

Mann-Kendall statistic = 153 critical = 111

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

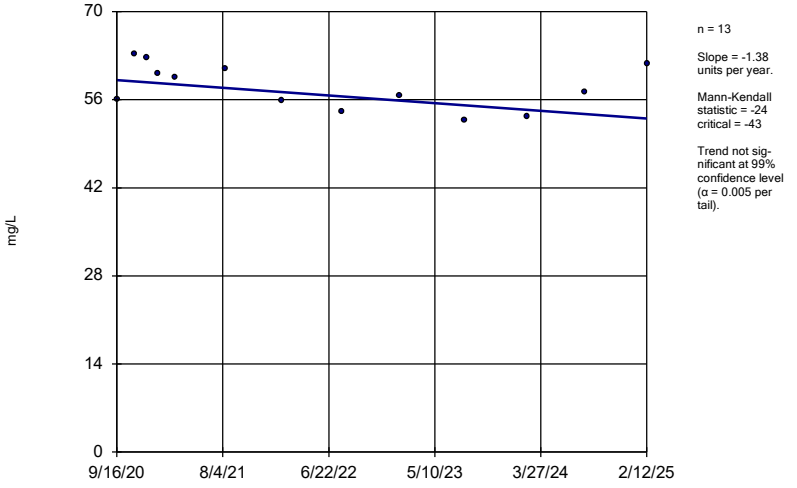
Constituent: Calcium Analysis Run 4/22/2025 5:01 PM View: Appendix III Trend Test

Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

HGWA-43D (bg)



n = 13

Slope = -1.38 units per year.

Mann-Kendall statistic = -24 critical = -43

Trend not significant at 99% confidence level (α = 0.005 per tail).

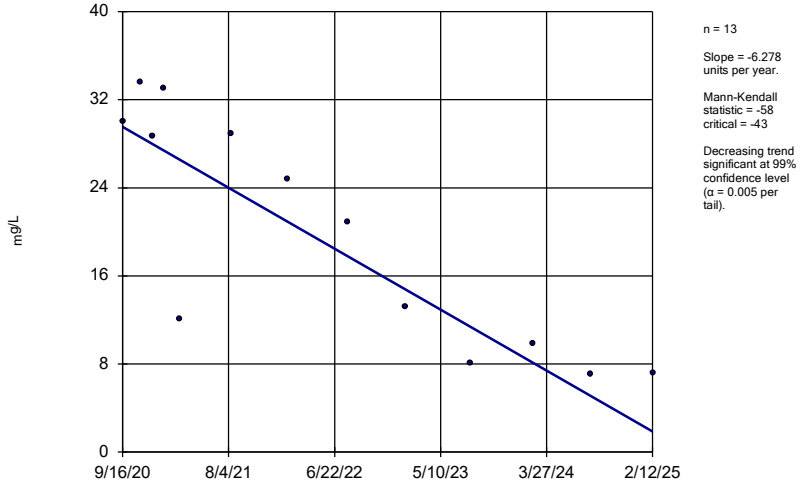
Constituent: Calcium Analysis Run 4/22/2025 5:01 PM View: Appendix III Trend Test

Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

HGWA-44D (bg)



n = 13

Slope = -6.278 units per year.

Mann-Kendall statistic = -58 critical = -43

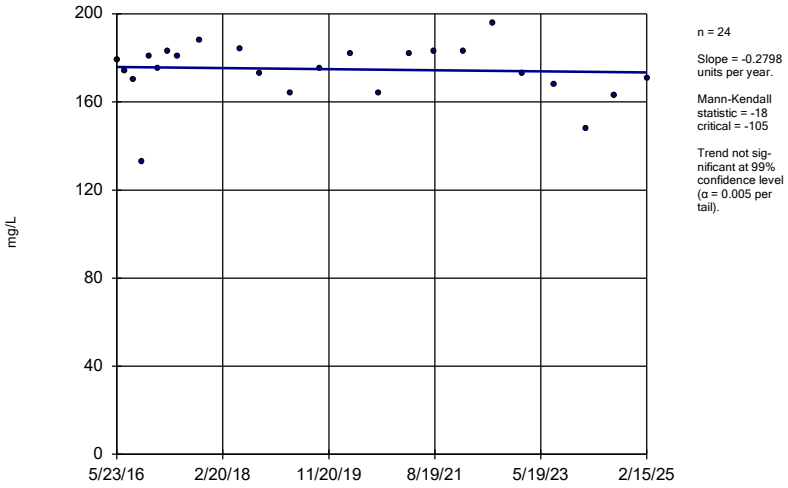
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 4/22/2025 5:01 PM View: Appendix III Trend Test

Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

HGWC-9



n = 24

Slope = -0.2798 units per year.

Mann-Kendall statistic = -18
critical = -105

Trend not significant at 99% confidence level (α = 0.005 per tail).

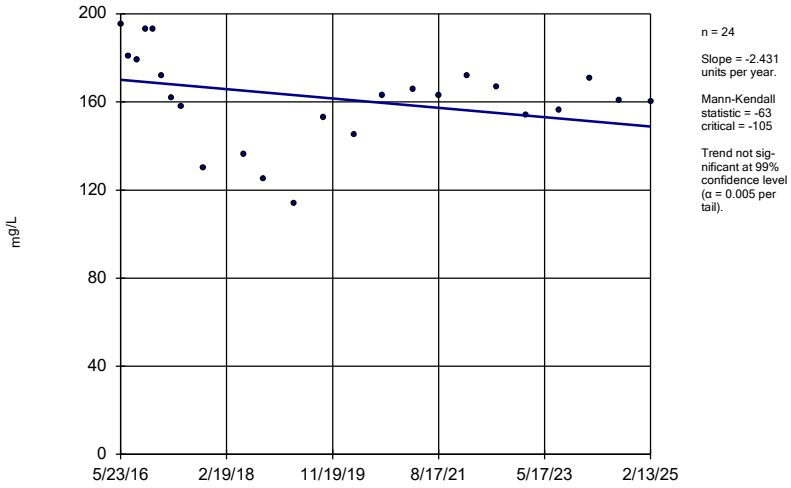
Constituent: Calcium Analysis Run 4/22/2025 5:01 PM View: Appendix III Trend Test

Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

HGWC-12



n = 24

Slope = -2.431 units per year.

Mann-Kendall statistic = -63
critical = -105

Trend not significant at 99% confidence level (α = 0.005 per tail).

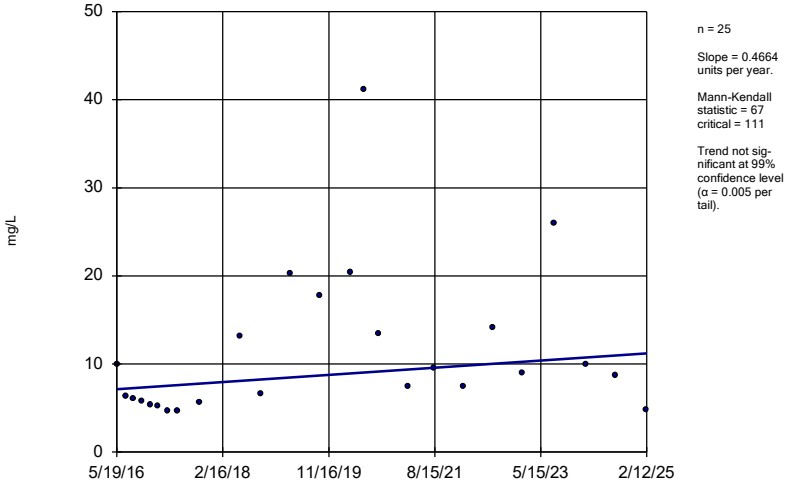
Constituent: Calcium Analysis Run 4/22/2025 5:01 PM View: Appendix III Trend Test

Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

HGWA-1 (bg)



n = 25

Slope = 0.4664 units per year.

Mann-Kendall statistic = 67
critical = 111

Trend not significant at 99% confidence level (α = 0.005 per tail).

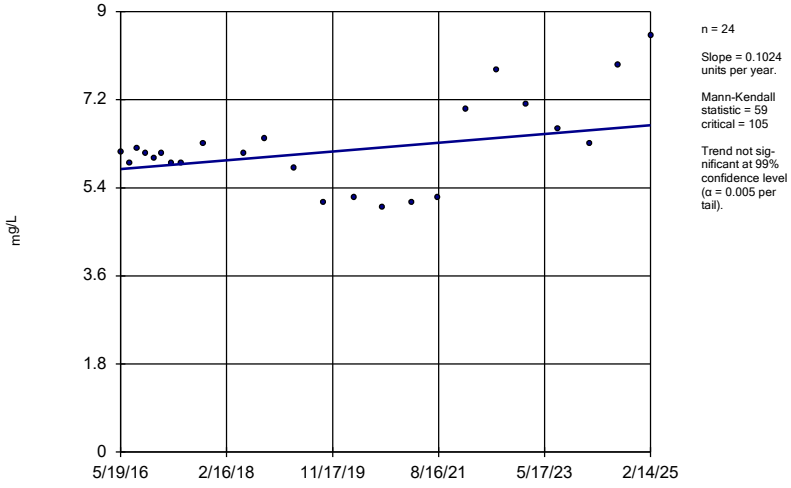
Constituent: Chloride Analysis Run 4/22/2025 5:01 PM View: Appendix III Trend Test

Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

HGWA-2 (bg)



n = 24

Slope = 0.1024 units per year.

Mann-Kendall statistic = 59
critical = 105

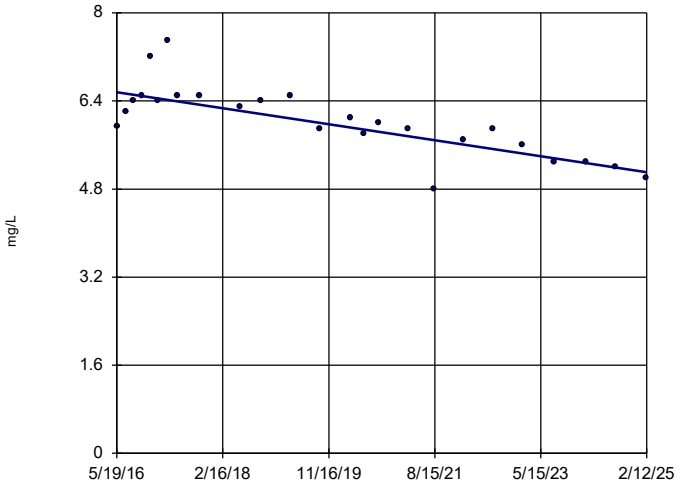
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 4/22/2025 5:01 PM View: Appendix III Trend Test

Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

HGWA-3 (bg)



n = 25

Slope = -0.1661 units per year.

Mann-Kendall statistic = -183 critical = -111

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

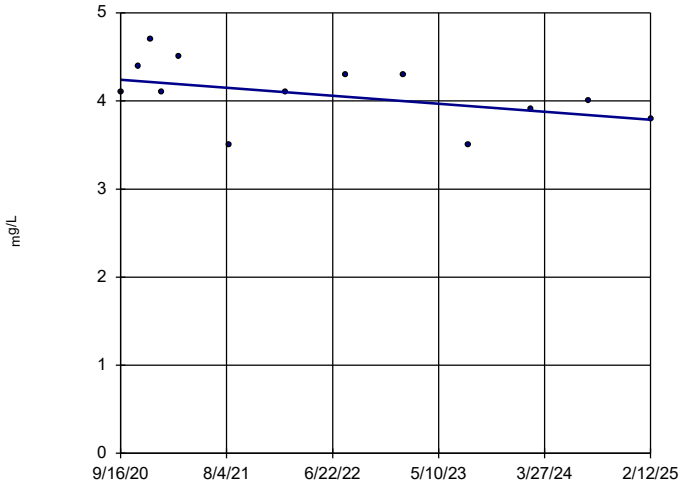
Constituent: Chloride Analysis Run 4/22/2025 5:01 PM View: Appendix III Trend Test

Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

HGWA-43D (bg)



n = 13

Slope = -0.1034 units per year.

Mann-Kendall statistic = -29 critical = -43

Trend not significant at 99% confidence level (α = 0.005 per tail).

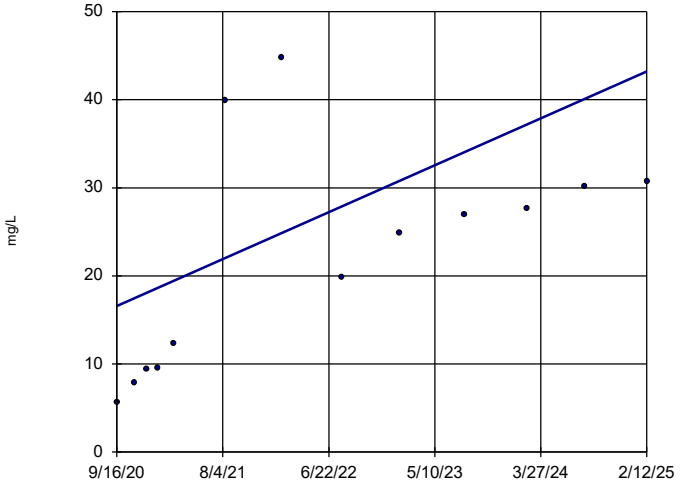
Constituent: Chloride Analysis Run 4/22/2025 5:01 PM View: Appendix III Trend Test

Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

HGWA-44D (bg)



n = 13

Slope = 6.04 units per year.

Mann-Kendall statistic = 54 critical = 43

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

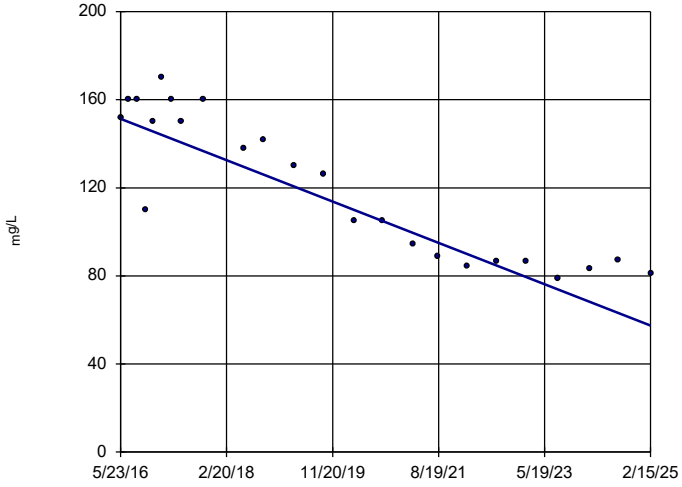
Constituent: Chloride Analysis Run 4/22/2025 5:01 PM View: Appendix III Trend Test

Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

HGWC-9



n = 24

Slope = -10.74 units per year.

Mann-Kendall statistic = -206 critical = -105

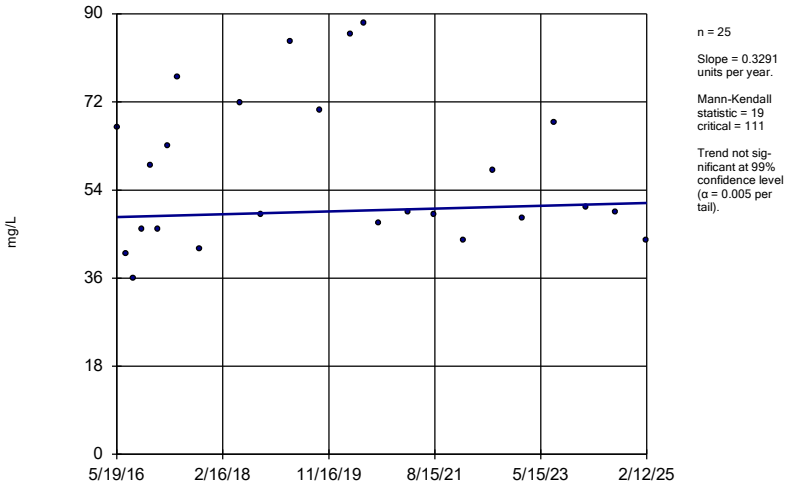
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 4/22/2025 5:01 PM View: Appendix III Trend Test

Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

HGWA-1 (bg)



n = 25

Slope = 0.3291 units per year.

Mann-Kendall statistic = 19 critical = 111

Trend not significant at 99% confidence level (α = 0.005 per tail).

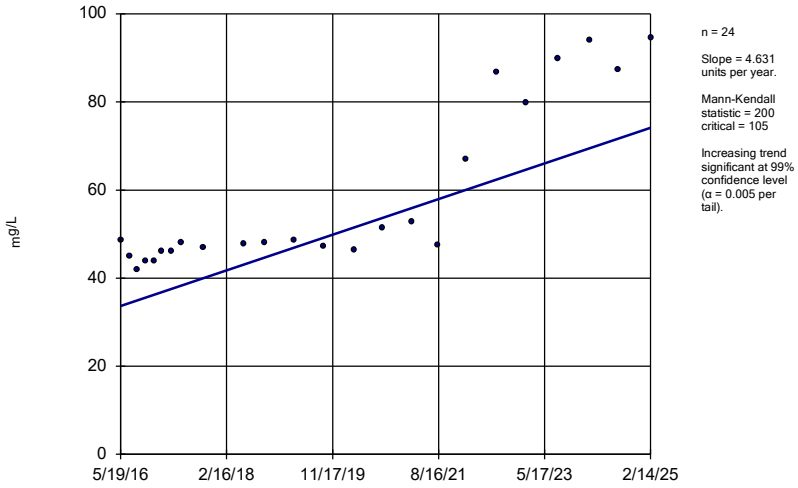
Constituent: Sulfate Analysis Run 4/22/2025 5:01 PM View: Appendix III Trend Test

Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

HGWA-2 (bg)



n = 24

Slope = 4.631 units per year.

Mann-Kendall statistic = 200 critical = 105

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

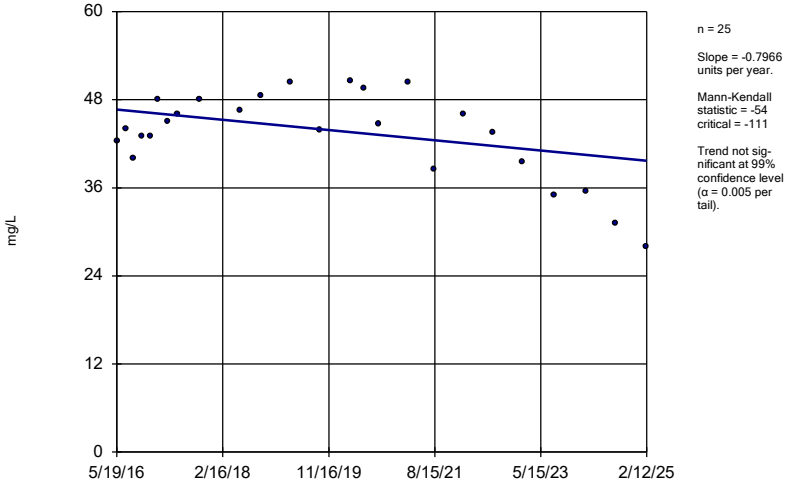
Constituent: Sulfate Analysis Run 4/22/2025 5:01 PM View: Appendix III Trend Test

Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

HGWA-3 (bg)



n = 25

Slope = -0.7966 units per year.

Mann-Kendall statistic = -54 critical = -111

Trend not significant at 99% confidence level (α = 0.005 per tail).

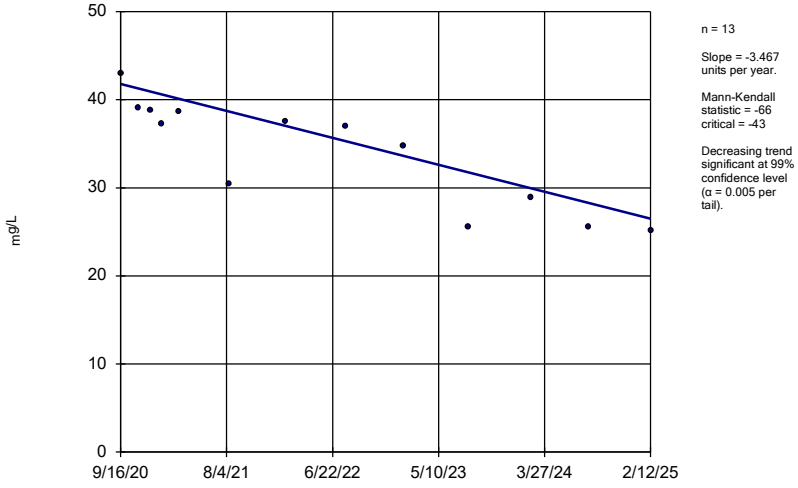
Constituent: Sulfate Analysis Run 4/22/2025 5:01 PM View: Appendix III Trend Test

Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

HGWA-43D (bg)



n = 13

Slope = -3.467 units per year.

Mann-Kendall statistic = -66 critical = -43

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

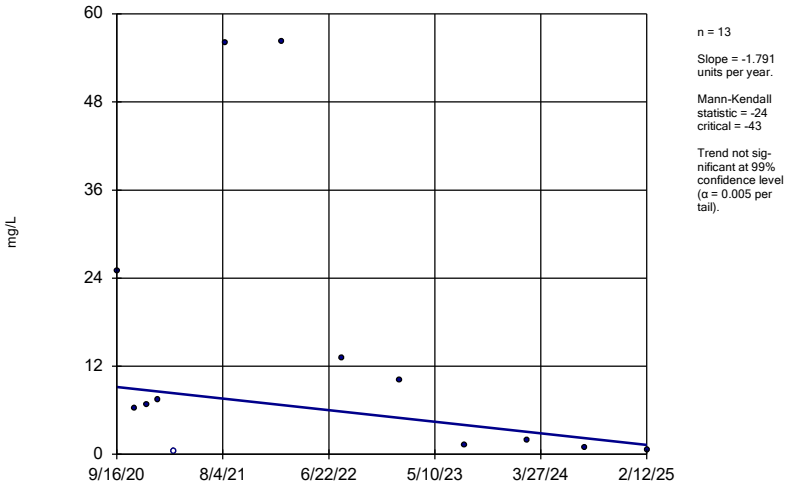
Constituent: Sulfate Analysis Run 4/22/2025 5:01 PM View: Appendix III Trend Test

Plant Hammond Client: Southern Company Data: Hammond AP-1

Hollow symbols indicate censored values.

Sen's Slope Estimator

HGWA-44D (bg)



n = 13

Slope = -1.791 units per year.

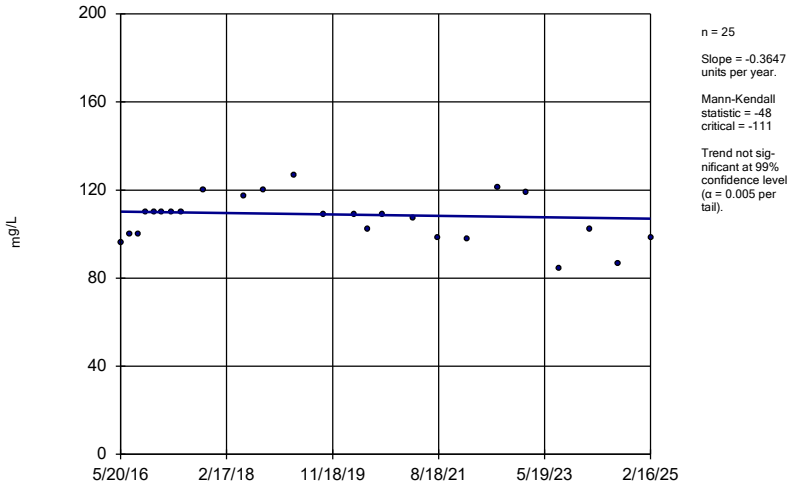
Mann-Kendall statistic = -24
critical = -43

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 4/22/2025 5:01 PM View: Appendix III Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

HGWC-7



n = 25

Slope = -0.3647 units per year.

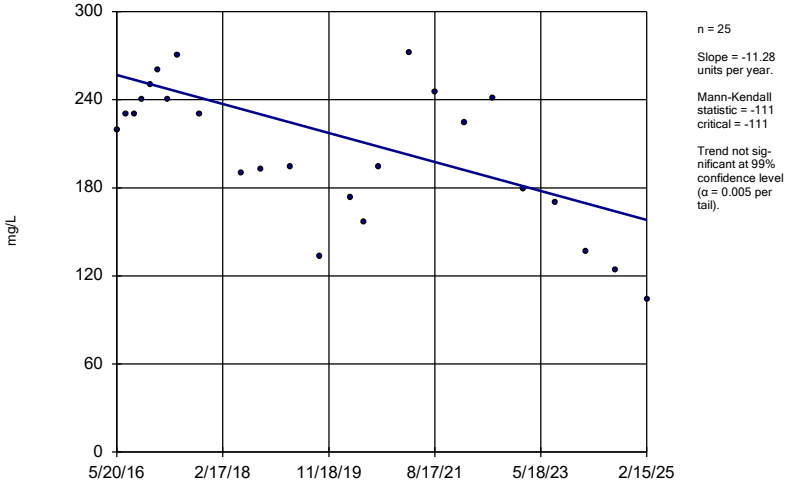
Mann-Kendall statistic = -48
critical = -111

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 4/22/2025 5:01 PM View: Appendix III Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

HGWC-8



n = 25

Slope = -11.28 units per year.

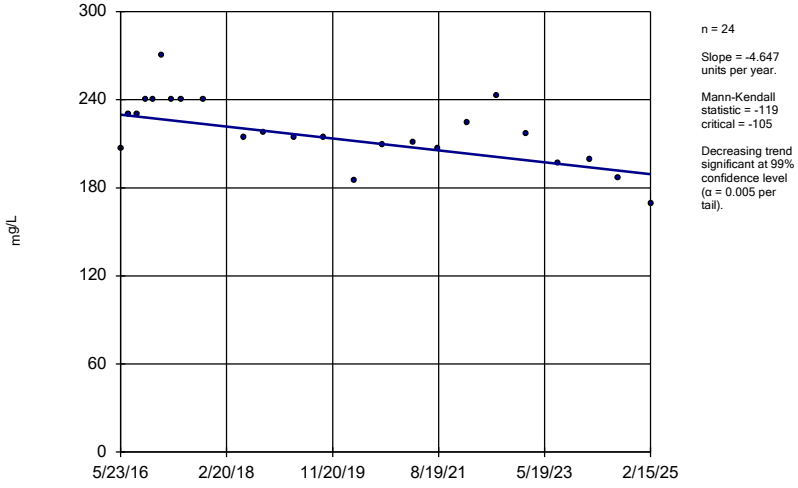
Mann-Kendall statistic = -111
critical = -111

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 4/22/2025 5:01 PM View: Appendix III Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

HGWC-9



n = 24

Slope = -4.647 units per year.

Mann-Kendall statistic = -119
critical = -105

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

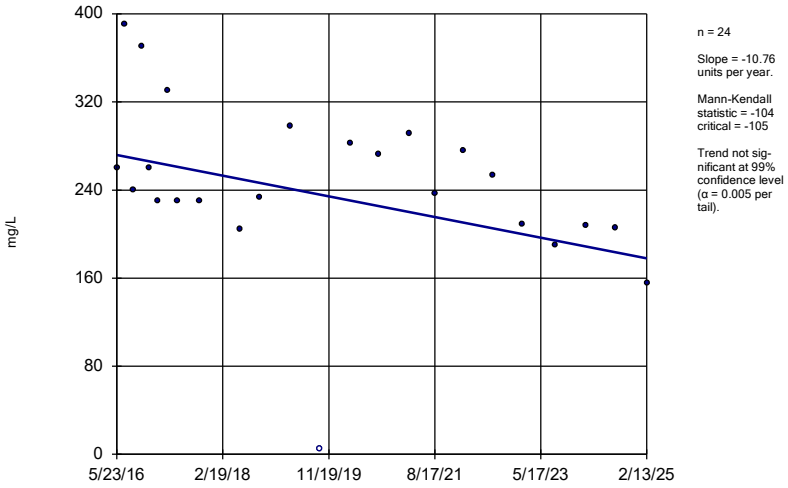
Constituent: Sulfate Analysis Run 4/22/2025 5:01 PM View: Appendix III Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

HGWC-11



n = 24

Slope = -10.76 units per year.

Mann-Kendall statistic = -104 critical = -105

Trend not significant at 99% confidence level (α = 0.005 per tail).

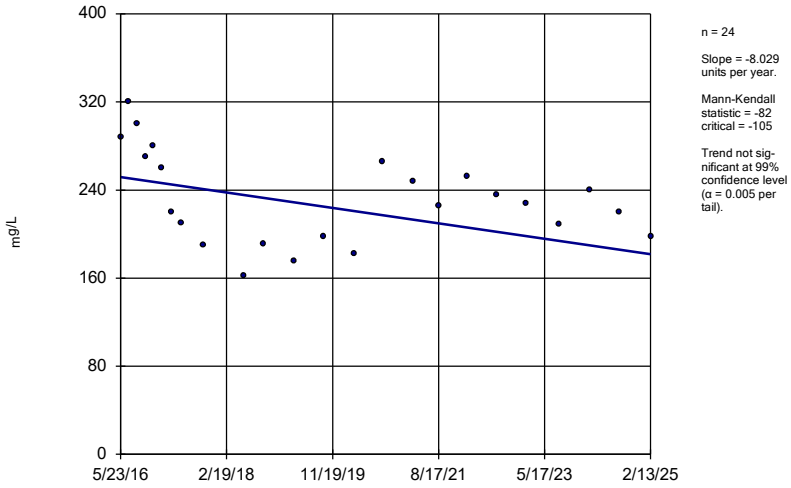
Constituent: Sulfate Analysis Run 4/22/2025 5:01 PM View: Appendix III Trend Test

Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

HGWC-12



n = 24

Slope = -8.029 units per year.

Mann-Kendall statistic = -82 critical = -105

Trend not significant at 99% confidence level (α = 0.005 per tail).

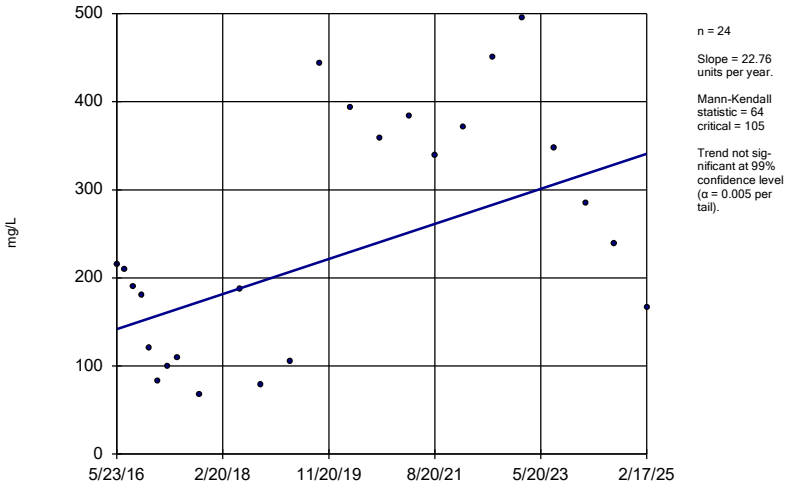
Constituent: Sulfate Analysis Run 4/22/2025 5:01 PM View: Appendix III Trend Test

Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

HGWC-13



n = 24

Slope = 22.76 units per year.

Mann-Kendall statistic = 64 critical = 105

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 4/22/2025 5:01 PM View: Appendix III Trend Test

Plant Hammond Client: Southern Company Data: Hammond AP-1

FIGURE F.

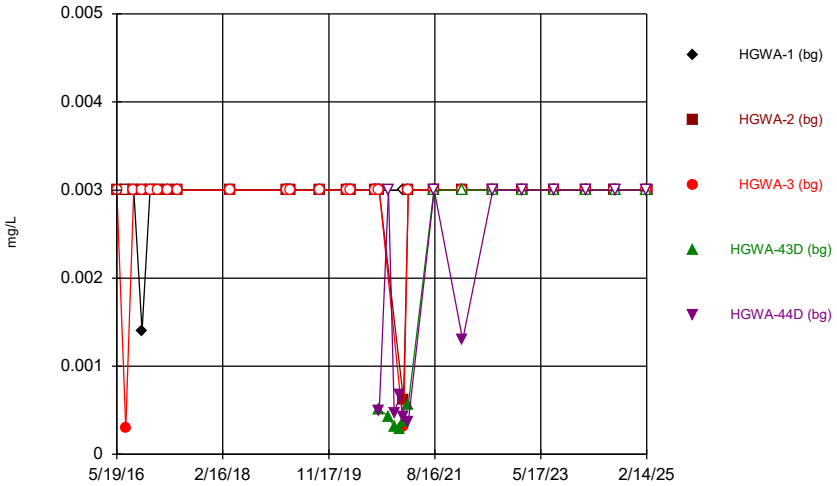
Upper Tolerance Limits - Summary Table

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 4/24/2025, 3:01 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	n/a	0.003	n/a	n/a	n/a	n/a	106	84.91	n/a	n/a	0.004352	NP Inter(NDs)
Arsenic (mg/L)	n/a	0.005	n/a	n/a	n/a	n/a	112	70.54	n/a	n/a	0.003199	NP Inter(NDs)
Barium (mg/L)	n/a	0.46	n/a	n/a	n/a	n/a	112	0	n/a	n/a	0.003199	NP Inter(normality)
Beryllium (mg/L)	n/a	0.0005	n/a	n/a	n/a	n/a	106	78.3	n/a	n/a	0.004352	NP Inter(NDs)
Cadmium (mg/L)	n/a	0.0005	n/a	n/a	n/a	n/a	112	84.82	n/a	n/a	0.003199	NP Inter(NDs)
Chromium (mg/L)	n/a	0.0079	n/a	n/a	n/a	n/a	106	85.85	n/a	n/a	0.004352	NP Inter(NDs)
Cobalt (mg/L)	n/a	0.038	n/a	n/a	n/a	n/a	112	71.43	n/a	n/a	0.003199	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	n/a	1.592	n/a	n/a	n/a	n/a	112	0	None	sqrt(x)	0.05	Inter
Fluoride (mg/L)	n/a	1.5	n/a	n/a	n/a	n/a	117	25.64	n/a	n/a	0.002475	NP Inter(normality)
Lead (mg/L)	n/a	0.001	n/a	n/a	n/a	n/a	106	73.58	n/a	n/a	0.004352	NP Inter(NDs)
Lithium (mg/L)	n/a	0.064	n/a	n/a	n/a	n/a	108	18.52	n/a	n/a	0.003928	NP Inter(normality)
Mercury (mg/L)	n/a	0.0002	n/a	n/a	n/a	n/a	89	97.75	n/a	n/a	0.01041	NP Inter(NDs)
Molybdenum (mg/L)	n/a	0.01	n/a	n/a	n/a	n/a	114	77.19	n/a	n/a	0.002887	NP Inter(NDs)
Selenium (mg/L)	n/a	0.005	n/a	n/a	n/a	n/a	112	94.64	n/a	n/a	0.003199	NP Inter(NDs)
Thallium (mg/L)	n/a	0.001	n/a	n/a	n/a	n/a	112	99.11	n/a	n/a	0.003199	NP Inter(NDs)

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

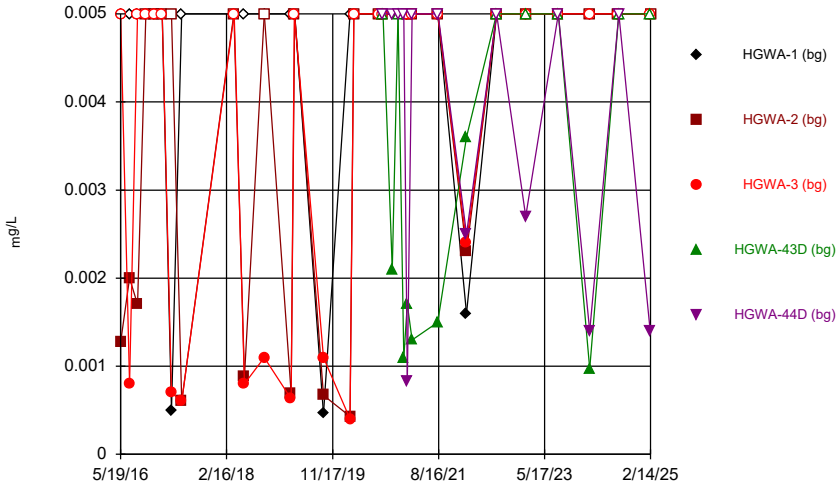
Time Series



Constituent: Antimony Analysis Run 4/24/2025 3:01 PM View: UTL
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

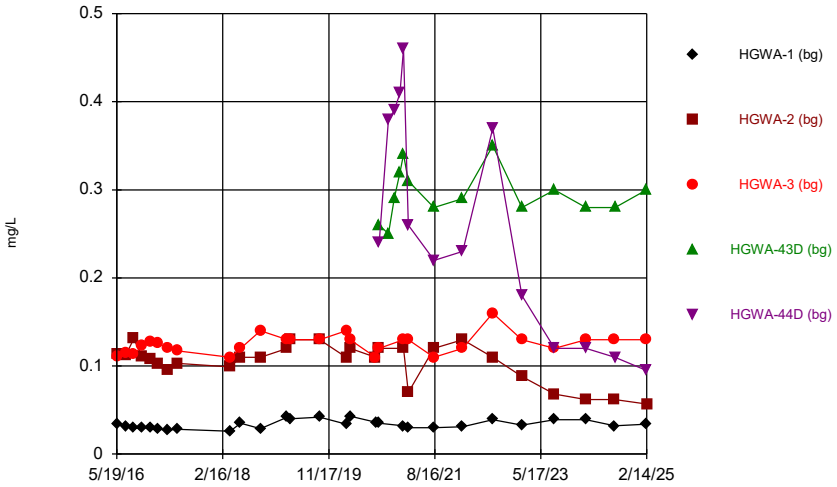
Time Series



Constituent: Arsenic Analysis Run 4/24/2025 3:01 PM View: UTL
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

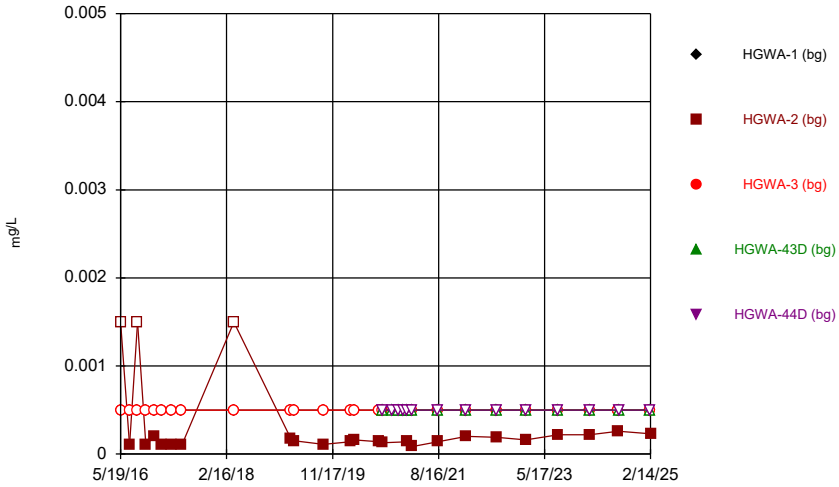
Time Series



Constituent: Barium Analysis Run 4/24/2025 3:01 PM View: UTL
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

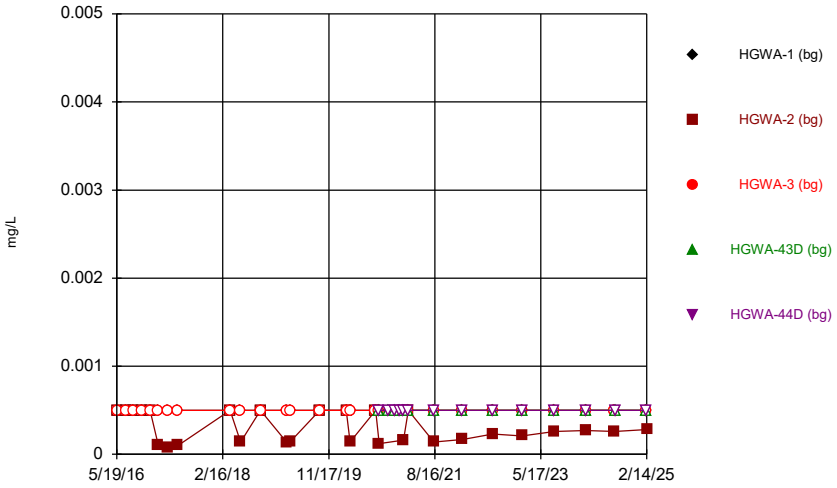
Time Series



Constituent: Beryllium Analysis Run 4/24/2025 3:01 PM View: UTL
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

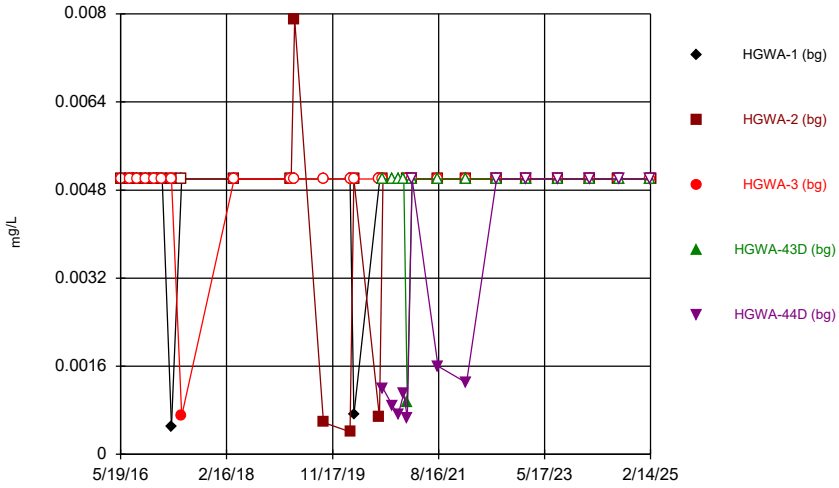
Time Series



Constituent: Cadmium Analysis Run 4/24/2025 3:01 PM View: UTL
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

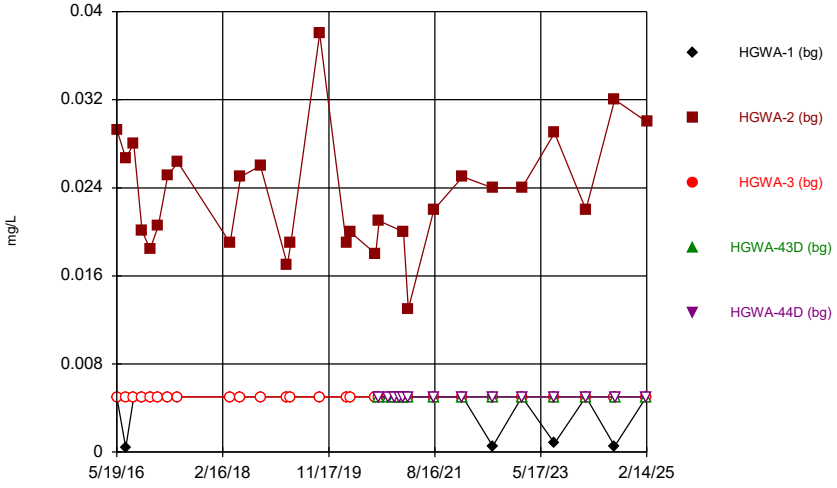
Time Series



Constituent: Chromium Analysis Run 4/24/2025 3:01 PM View: UTL
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

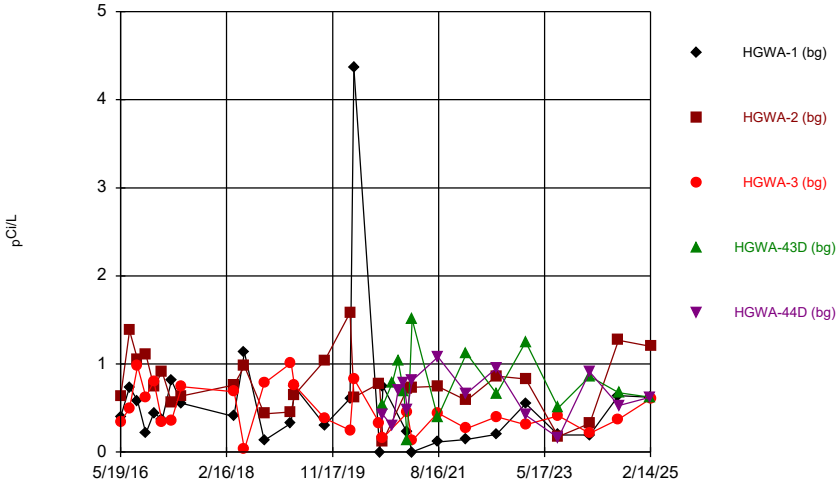
Time Series



Constituent: Cobalt Analysis Run 4/24/2025 3:01 PM View: UTL
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

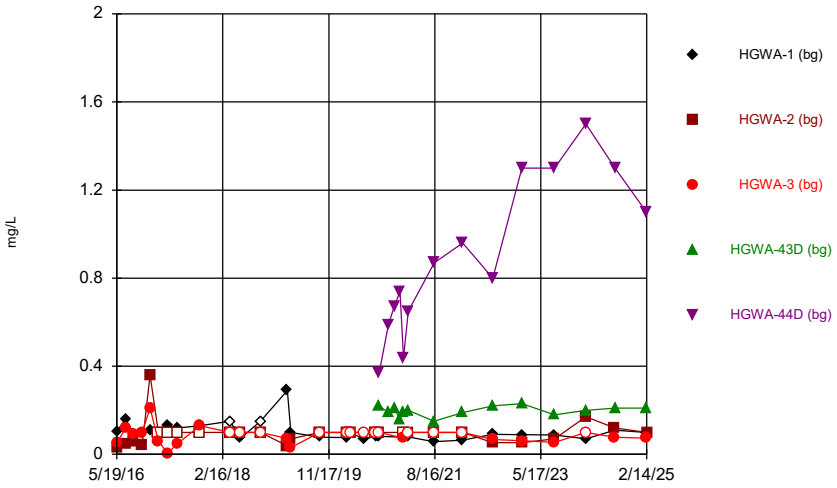
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 4/24/2025 3:01 PM View: UTL
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

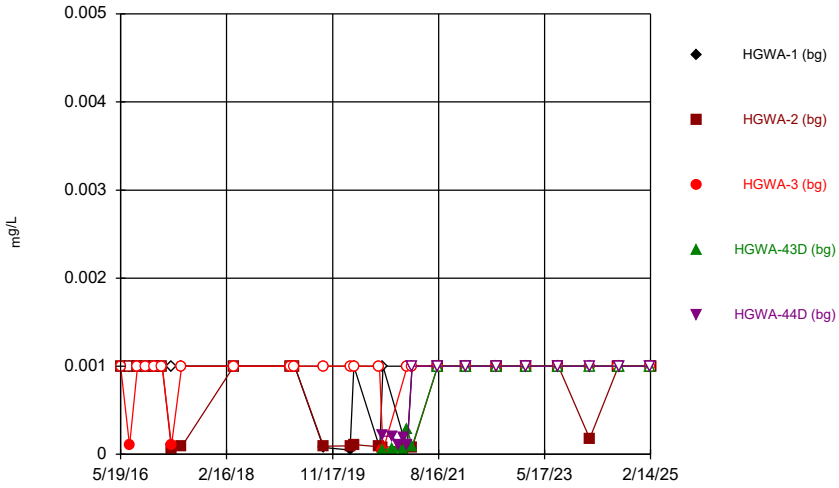
Time Series



Constituent: Fluoride Analysis Run 4/24/2025 3:01 PM View: UTL
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

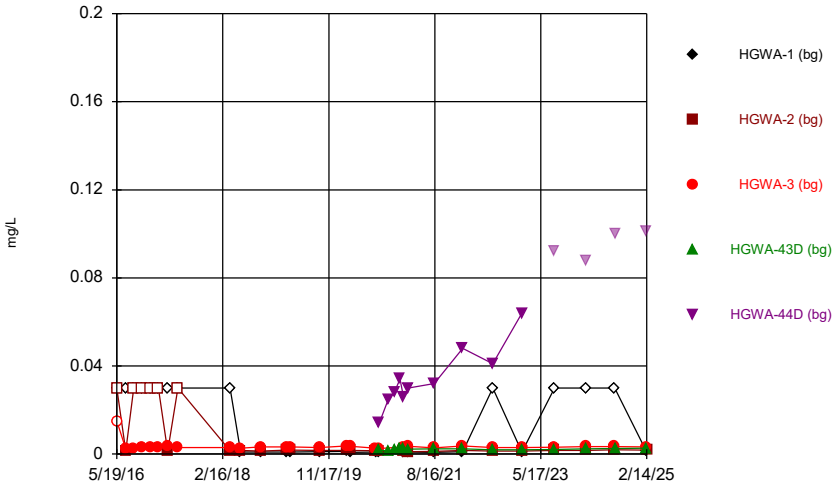
Time Series



Constituent: Lead Analysis Run 4/24/2025 3:01 PM View: UTL
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

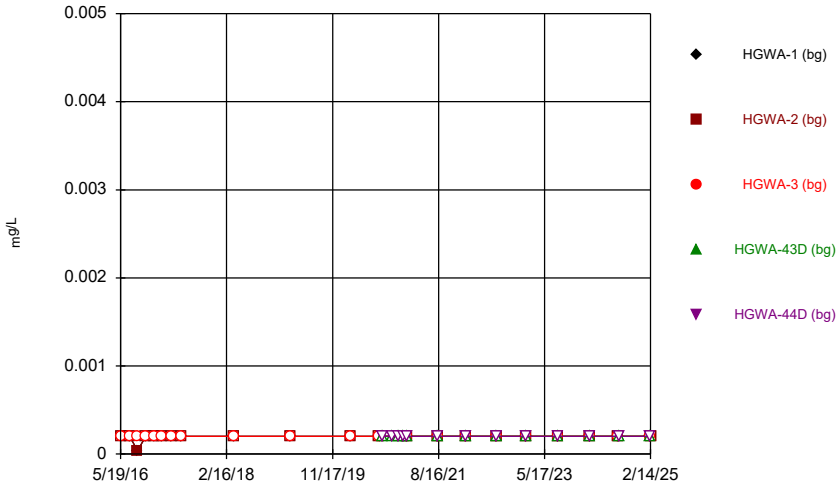
Time Series



Constituent: Lithium Analysis Run 4/24/2025 3:01 PM View: UTL
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

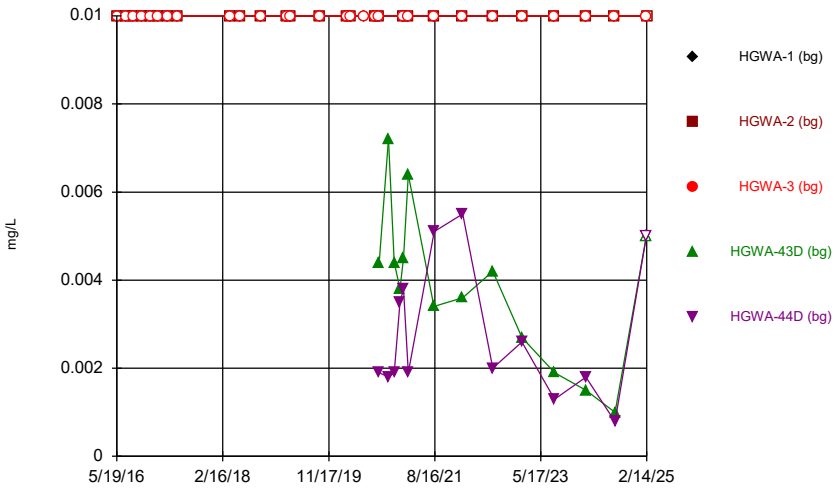
Time Series



Constituent: Mercury Analysis Run 4/24/2025 3:01 PM View: UTL
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Molybdenum Analysis Run 4/24/2025 3:01 PM View: UTL
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

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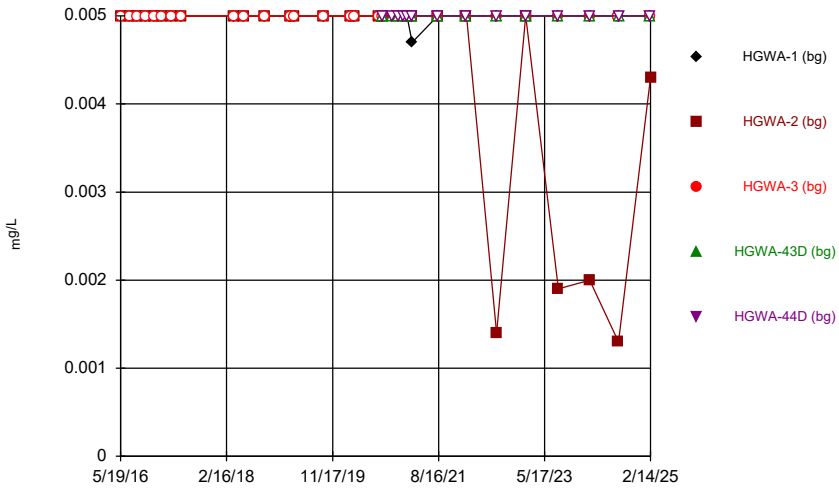
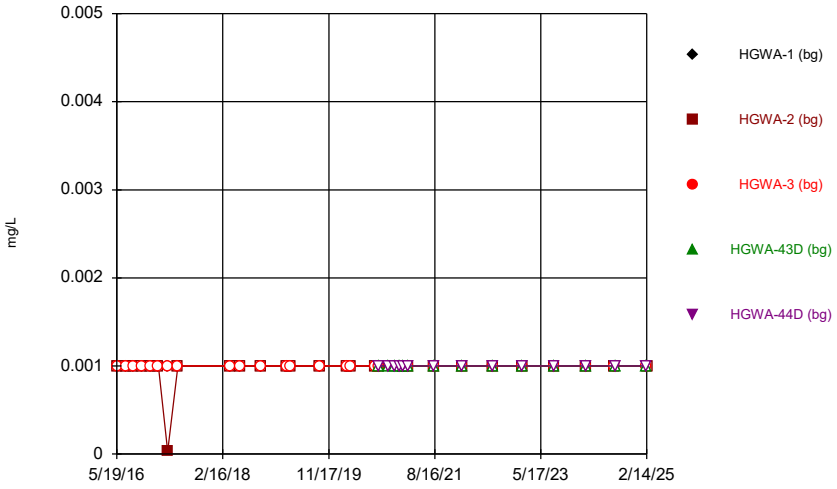


Constituent: Selenium Analysis Run 4/24/2025 3:01 PM View: UTL
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

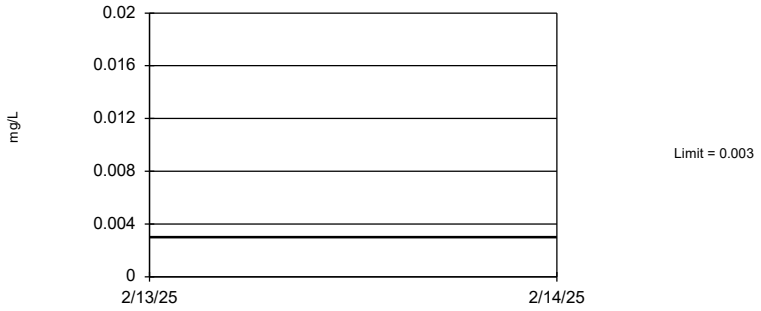
Time Series



Constituent: Thallium Analysis Run 4/24/2025 3:01 PM View: UTL
Plant Hammond Client: Southern Company Data: Hammond AP-1

Tolerance Limit

Interwell Non-parametric

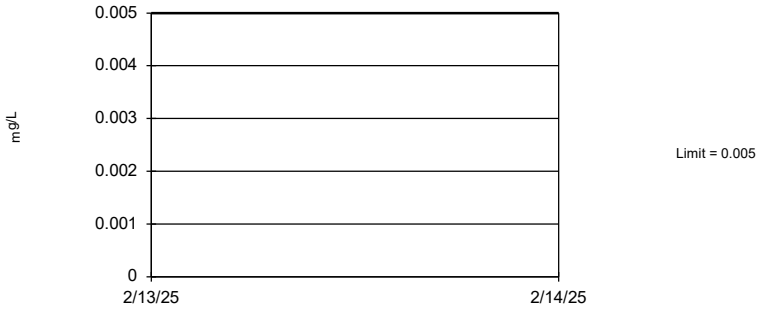


Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 106 background values. 84.91% NDs. 95.9% coverage at alpha=0.01; 97.07% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.004352.

Constituent: Antimony Analysis Run 4/24/2025 3:00 PM View: UTL
Plant Hammond Client: Southern Company Data: Hammond AP-1

Tolerance Limit

Interwell Non-parametric

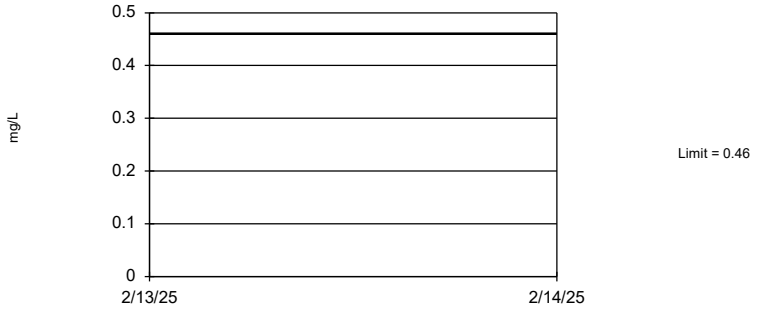


Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 112 background values. 70.54% NDs. 95.9% coverage at alpha=0.01; 97.46% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.003199.

Constituent: Arsenic Analysis Run 4/24/2025 3:00 PM View: UTL
Plant Hammond Client: Southern Company Data: Hammond AP-1

Tolerance Limit

Interwell Non-parametric

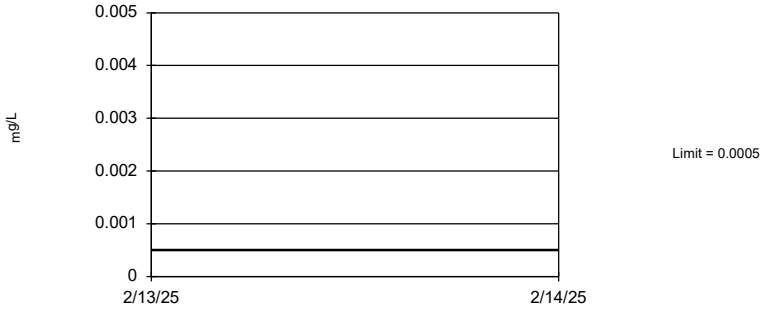


Non-parametric test used in lieu of parametric tolerance limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 112 background values. 95.9% coverage at alpha=0.01; 97.46% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.003199.

Constituent: Barium Analysis Run 4/24/2025 3:00 PM View: UTL
Plant Hammond Client: Southern Company Data: Hammond AP-1

Tolerance Limit

Interwell Non-parametric

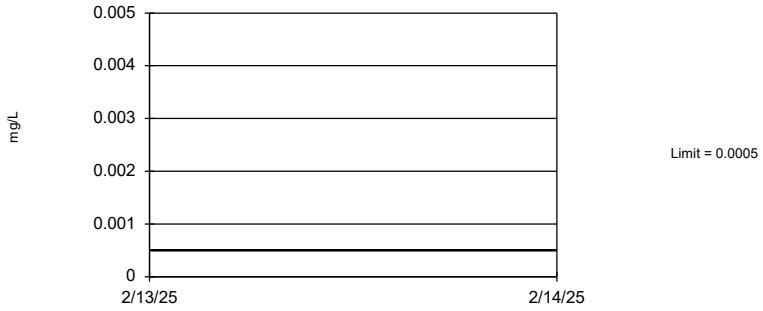


Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 106 background values. 78.3% NDs. 95.9% coverage at alpha=0.01; 97.07% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.004352.

Constituent: Beryllium Analysis Run 4/24/2025 3:00 PM View: UTL
Plant Hammond Client: Southern Company Data: Hammond AP-1

Tolerance Limit

Interwell Non-parametric



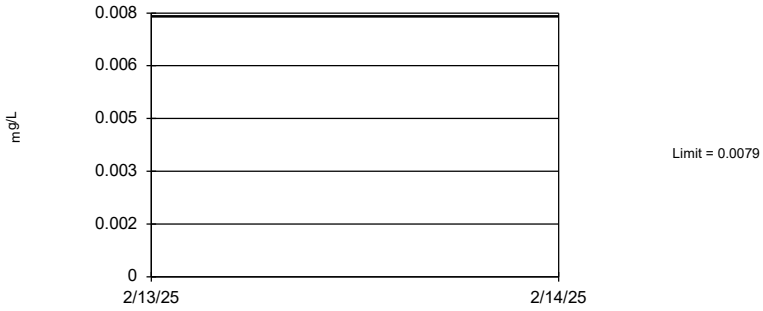
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 112 background values. 84.82% NDs. 95.9% coverage at alpha=0.01; 97.46% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.003199.

Constituent: Cadmium Analysis Run 4/24/2025 3:00 PM View: UTL
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



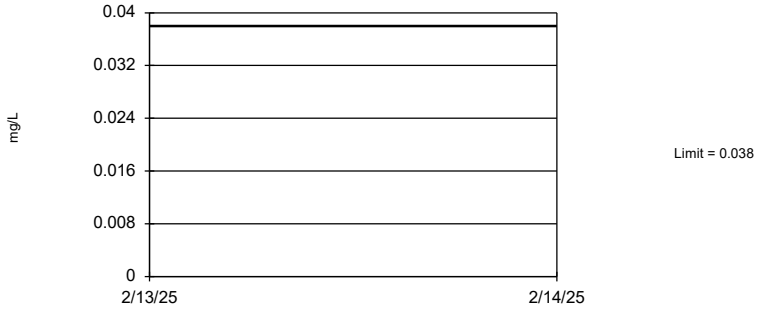
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 106 background values. 85.85% NDs. 95.9% coverage at alpha=0.01; 97.07% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.004352.

Constituent: Chromium Analysis Run 4/24/2025 3:00 PM View: UTL
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 112 background values. 71.43% NDs. 95.9% coverage at alpha=0.01; 97.46% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.003199.

Constituent: Cobalt Analysis Run 4/24/2025 3:00 PM View: UTL
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

Tolerance Limit

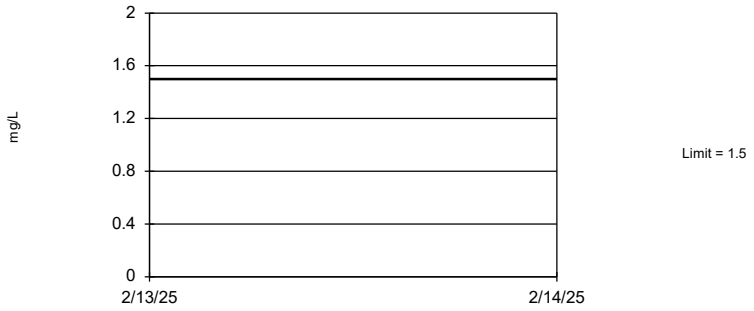
Interwell Parametric

95% coverage. Background Data Summary (based on square root transformation): Mean=0.7484, Std. Dev.=0.2691, n=112. Normality test: Chi Squared @alpha = 0.01, calculated = 10.5, critical = 14.07. Report alpha = 0.05.

Constituent: Combined Radium 226 + 228 Analysis Run 4/24/2025 3:00 PM View: UTL
Plant Hammond Client: Southern Company Data: Hammond AP-1

Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 117 background values. 25.64% NDs. 96.29% coverage at alpha=0.01; 97.46% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.002475.

Constituent: Fluoride Analysis Run 4/24/2025 3:00 PM View: UTL

Plant Hammond Client: Southern Company Data: Hammond AP-1

Tolerance Limit

Interwell Non-parametric

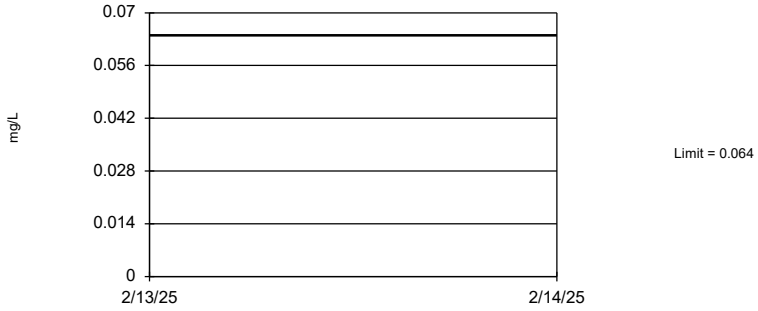
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 106 background values. 73.58% NDs. 95.9% coverage at alpha=0.01; 97.07% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.004352.

Constituent: Lead Analysis Run 4/24/2025 3:00 PM View: UTL

Plant Hammond Client: Southern Company Data: Hammond AP-1

Tolerance Limit

Interwell Non-parametric



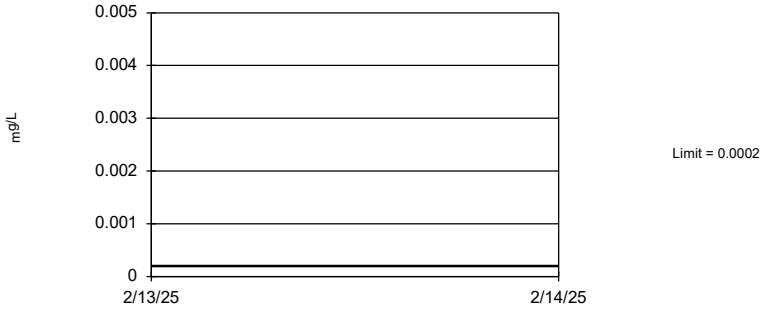
Non-parametric test used in lieu of parametric tolerance limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 108 background values. 18.52% NDs. 95.9% coverage at alpha=0.01; 97.07% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.003928.

Constituent: Lithium Analysis Run 4/24/2025 3:00 PM View: UTL

Plant Hammond Client: Southern Company Data: Hammond AP-1

Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 89 background values. 97.75% NDs. 95.12% coverage at alpha=0.01; 96.68% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.01041.

Constituent: Mercury Analysis Run 4/24/2025 3:00 PM View: UTL

Plant Hammond Client: Southern Company Data: Hammond AP-1

Tolerance Limit

Interwell Non-parametric

Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 114 background values. 77.19% NDs. 95.9% coverage at alpha=0.01; 97.46% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.002887.

Constituent: Molybdenum Analysis Run 4/24/2025 3:00 PM View: UTL
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric

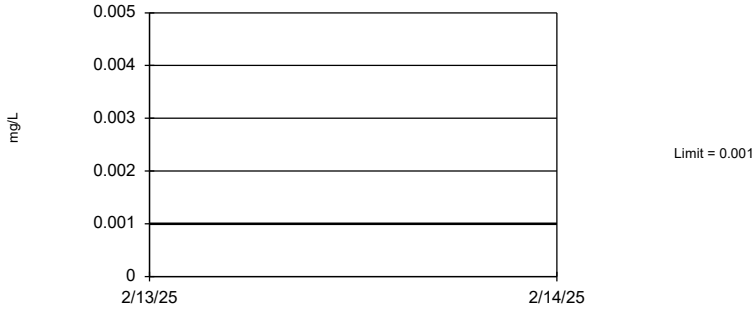
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 112 background values. 94.64% NDs. 95.9% coverage at alpha=0.01; 97.46% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.003199.

Constituent: Selenium Analysis Run 4/24/2025 3:00 PM View: UTL
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 112 background values. 99.11% NDs. 95.9% coverage at alpha=0.01; 97.46% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.003199.

Constituent: Thallium Analysis Run 4/24/2025 3:00 PM View: UTL
Plant Hammond Client: Southern Company Data: Hammond AP-1

FIGURE G.

PLANT HAMMOND AP-1 GWPS				
Constituent Name	**MCL**	**CCR-Rule Specified**	**Background Limit**	**GWPS**
Antimony, Total (mg/L)	0.006		0.003	0.006
Arsenic, Total (mg/L)	0.01		0.005	0.01
Barium, Total (mg/L)	2		0.46	2
Beryllium, Total (mg/L)	0.004		0.0005	0.004
Cadmium, Total (mg/L)	0.005		0.0005	0.005
Chromium, Total (mg/L)	0.1		0.0079	0.1
Cobalt, Total (mg/L)	n/a	0.006	0.038	0.038
Combined Radium, Total (pCi/L)	5		1.59	5
Fluoride, Total (mg/L)	4		1.5	4
Lead, Total (mg/L)	n/a	0.015	0.001	0.015
Lithium, Total (mg/L)	n/a	0.04	0.064	0.064
Mercury, Total (mg/L)	0.002		0.0002	0.002
Molybdenum, Total (mg/L)	n/a	0.1	0.01	0.1
Selenium, Total (mg/L)	0.05		0.005	0.05
Thallium, Total (mg/L)	0.002		0.001	0.002

**Grey cell indidcates background is higher than MCL or CCR-Rule*

**MCL = Maximum Contaminant Level*

**CCR = Coal Combustion Residuals*

**GWPS = Groundwater Protection Statard*

FIGURE H.

Confidence Interval Summary Table - Significant Results

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 4/22/2025, 5:23 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	**HGWC-13**	**0.4435**	**0.3736**	**0.01**	**Yes**	**27**	**0.4085**	**0.07328**	**0**	**None**	**No**	**0.01**	**Param.**
Molybdenum (mg/L)	**HGWC-8**	**0.4707**	**0.3911**	**0.1**	**Yes**	**28**	**0.4215**	**0.09993**	**0**	**None**	**x^2**	**0.01**	**Param.**

Confidence Interval Summary Table - All Results

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 4/22/2025, 5:23 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	HGWC-7	0.003	0.0017	0.006	No	25	0.002842	0.0005823	92	None	No	0.01	NP (NDs)
Antimony (mg/L)	HGWC-8	0.003	0.00064	0.006	No	25	0.002906	0.000472	96	None	No	0.01	NP (NDs)
Antimony (mg/L)	HGWC-9	0.003	0.00092	0.006	No	25	0.002604	0.0009319	84	None	No	0.01	NP (NDs)
Antimony (mg/L)	HGWC-10	0.003	0.0018	0.006	No	25	0.002858	0.0005187	92	None	No	0.01	NP (NDs)
Antimony (mg/L)	HGWC-11	0.003	0.00038	0.006	No	25	0.002895	0.000524	96	None	No	0.01	NP (NDs)
Antimony (mg/L)	HGWC-13	0.003	0.00061	0.006	No	25	0.002269	0.001198	72	None	No	0.01	NP (NDs)
Antimony (mg/L)	MW-6	0.003	0.0014	0.006	No	16	0.0029	0.0004	93.75	None	No	0.01	NP (NDs)
Antimony (mg/L)	MW-7	0.003	0.0013	0.006	No	16	0.002548	0.0008646	75	None	No	0.01	NP (NDs)
Antimony (mg/L)	MW-24D	0.003	0.0017	0.006	No	16	0.002639	0.0008024	81.25	None	No	0.01	NP (NDs)
Antimony (mg/L)	MW-26D	0.003	0.002	0.006	No	16	0.002831	0.0004785	87.5	None	No	0.01	NP (NDs)
Antimony (mg/L)	MW-27D	0.003	0.00031	0.006	No	16	0.001989	0.001349	62.5	None	No	0.01	NP (NDs)
Antimony (mg/L)	MW-28D	0.003	0.0019	0.006	No	16	0.002931	0.000275	93.75	None	No	0.01	NP (NDs)
Antimony (mg/L)	MW-29	0.003	0.00094	0.006	No	16	0.002871	0.000515	93.75	None	No	0.01	NP (NDs)
Arsenic (mg/L)	HGWC-7	0.005	0.0019	0.01	No	27	0.004885	0.0005966	96.3	None	No	0.01	NP (NDs)
Arsenic (mg/L)	HGWC-8	0.005	0.002	0.01	No	27	0.004889	0.0005774	96.3	None	No	0.01	NP (NDs)
Arsenic (mg/L)	HGWC-9	0.005	0.0021	0.01	No	27	0.004408	0.001469	85.19	None	No	0.01	NP (NDs)
Arsenic (mg/L)	HGWC-11	0.005	0.0018	0.01	No	27	0.003639	0.001706	51.85	None	No	0.01	NP (NDs)
Arsenic (mg/L)	HGWC-12	0.004281	0.003105	0.01	No	27	0.003693	0.001233	11.11	None	No	0.01	Param.
Arsenic (mg/L)	**HGWC-13**	**0.4435**	**0.3736**	**0.01**	**Yes**	**27**	**0.4085**	**0.07328**	**0**	**None**	**No**	**0.01**	**Param.**
Arsenic (mg/L)	MW-5	0.005	0.0013	0.01	No	16	0.004769	0.000925	93.75	None	No	0.01	NP (NDs)
Arsenic (mg/L)	MW-6	0.005	0.0034	0.01	No	16	0.0049	0.0004	93.75	None	No	0.01	NP (NDs)
Arsenic (mg/L)	MW-19	0.005	0.00045	0.01	No	16	0.004716	0.001137	93.75	None	No	0.01	NP (NDs)
Arsenic (mg/L)	MW-20	0.005	0.0023	0.01	No	16	0.004289	0.001571	81.25	None	No	0.01	NP (NDs)
Arsenic (mg/L)	MW-25D	0.005	0.0011	0.01	No	16	0.004047	0.001719	75	None	No	0.01	NP (NDs)
Arsenic (mg/L)	MW-26D	0.005	0.0017	0.01	No	16	0.004256	0.001613	81.25	None	No	0.01	NP (NDs)
Arsenic (mg/L)	MW-27D	0.005	0.001	0.01	No	16	0.004181	0.001768	81.25	None	No	0.01	NP (NDs)
Arsenic (mg/L)	MW-28D	0.005	0.0011	0.01	No	16	0.004756	0.000975	93.75	None	No	0.01	NP (NDs)
Arsenic (mg/L)	MW-29	0.005	0.00037	0.01	No	16	0.004711	0.001157	93.75	None	No	0.01	NP (NDs)
Barium (mg/L)	HGWC-7	0.07521	0.06819	2	No	27	0.0717	0.007357	0	None	No	0.01	Param.
Barium (mg/L)	HGWC-8	0.07107	0.0596	2	No	27	0.06533	0.01203	0	None	No	0.01	Param.
Barium (mg/L)	HGWC-9	0.1139	0.09115	2	No	27	0.1025	0.02387	0	None	No	0.01	Param.
Barium (mg/L)	HGWC-10	0.07971	0.05964	2	No	27	0.06968	0.02103	0	None	No	0.01	Param.
Barium (mg/L)	HGWC-11	0.04724	0.03267	2	No	27	0.04149	0.01789	0	None	x^(1/3)	0.01	Param.
Barium (mg/L)	HGWC-12	0.1038	0.08321	2	No	27	0.09444	0.02234	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	HGWC-13	0.08388	0.06431	2	No	27	0.0741	0.02052	0	None	No	0.01	Param.
Barium (mg/L)	MW-5	0.05141	0.04496	2	No	16	0.04819	0.004956	0	None	No	0.01	Param.
Barium (mg/L)	MW-6	0.08746	0.07516	2	No	16	0.08131	0.00945	0	None	No	0.01	Param.
Barium (mg/L)	MW-7	0.06131	0.05032	2	No	16	0.05581	0.008448	0	None	No	0.01	Param.
Barium (mg/L)	MW-19	0.05692	0.03983	2	No	16	0.04838	0.01314	0	None	No	0.01	Param.
Barium (mg/L)	MW-20	0.09517	0.08783	2	No	16	0.0915	0.005633	0	None	No	0.01	Param.
Barium (mg/L)	MW-24D	0.062	0.043	2	No	16	0.05625	0.01988	0	None	No	0.01	NP (normality)
Barium (mg/L)	MW-25D	0.6539	0.4699	2	No	16	0.5619	0.1414	0	None	No	0.01	Param.
Barium (mg/L)	MW-26D	0.108	0.06512	2	No	16	0.08656	0.03295	0	None	No	0.01	Param.
Barium (mg/L)	MW-27D	1.116	0.8115	2	No	16	0.9638	0.234	0	None	No	0.01	Param.
Barium (mg/L)	MW-28D	1.061	0.3831	2	No	17	0.8735	0.776	0	None	ln(x)	0.01	Param.
Barium (mg/L)	MW-29	0.08105	0.06958	2	No	16	0.07531	0.008815	0	None	No	0.01	Param.
Beryllium (mg/L)	HGWC-7	0.0005	0.00019	0.004	No	25	0.0004539	0.0001287	88	None	No	0.01	NP (NDs)
Beryllium (mg/L)	HGWC-8	0.0005	0.000087	0.004	No	25	0.0003505	0.0002044	64	None	No	0.01	NP (NDs)
Beryllium (mg/L)	HGWC-11	0.0005	0.00015	0.004	No	25	0.0003746	0.0001875	68	None	No	0.01	NP (NDs)
Beryllium (mg/L)	HGWC-13	0.0005	0.000099	0.004	No	25	0.0003373	0.0002036	60	None	No	0.01	NP (NDs)
Beryllium (mg/L)	MW-7	0.0005	0.000051	0.004	No	16	0.0004719	0.0001123	93.75	None	No	0.01	NP (NDs)
Beryllium (mg/L)	MW-19	0.0005	0.000058	0.004	No	16	0.0004724	0.0001105	93.75	None	No	0.01	NP (NDs)
Beryllium (mg/L)	MW-28D	0.0005	0.00014	0.004	No	16	0.0004214	0.0001701	81.25	None	No	0.01	NP (NDs)
Cadmium (mg/L)	HGWC-7	0.0005	0.0002	0.005	No	25	0.0004356	0.0001327	80	None	No	0.01	NP (NDs)
Cadmium (mg/L)	HGWC-8	0.0003	0.00017	0.005	No	25	0.000338	0.0003796	4	None	No	0.01	NP (normality)
Cadmium (mg/L)	HGWC-9	0.0005	0.0002	0.005	No	25	0.0004548	0.0001265	88	None	No	0.01	NP (NDs)
Cadmium (mg/L)	HGWC-10	0.0005	0.0002	0.005	No	25	0.0003926	0.0001768	72	None	No	0.01	NP (NDs)
Cadmium (mg/L)	HGWC-11	0.0005	0.0001	0.005	No	25	0.0004518	0.0001331	88	None	No	0.01	NP (NDs)
Cadmium (mg/L)	HGWC-12	0.0005	0.0003	0.005	No	25	0.0004496	0.000122	84	None	No	0.01	NP (NDs)
Cadmium (mg/L)	MW-19	0.0002874	0.0001543	0.005	No	16	0.0003475	0.0002489	31.25	Kaplan-Meier	ln(x)	0.01	Param.
Cadmium (mg/L)	MW-29	0.00053	0.00039	0.005	No	16	0.0004756	0.00008148	81.25	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	HGWC-7	0.005	0.0021	0.1	No	25	0.006746	0.01349	72	None	No	0.01	NP (NDs)
Chromium (mg/L)	HGWC-8	0.005	0.0015	0.1	No	25	0.004341	0.001549	84	None	No	0.01	NP (NDs)
Chromium (mg/L)	HGWC-9	0.005	0.0013	0.1	No	25	0.004344	0.00154	84	None	No	0.01	NP (NDs)
Chromium (mg/L)	HGWC-10	0.005	0.0014	0.1	No	25	0.005148	0.003336	84	None	No	0.01	NP (NDs)
Chromium (mg/L)	HGWC-11	0.005	0.0012	0.1	No	25	0.004484	0.001431	88	None	No	0.01	NP (NDs)
Chromium (mg/L)	HGWC-12	0.005	0.0025	0.1	No	25	0.004552	0.001277	88	None	No	0.01	NP (NDs)
Chromium (mg/L)	HGWC-13	0.005	0.00059	0.1	No	25	0.004462	0.001487	88	None	No	0.01	NP (NDs)

Confidence Interval Summary Table - All Results

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 4/22/2025, 5:23 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Chromium (mg/L)	MW-5	0.003572	0.002278	0.1	No	16	0.002925	0.000995	6.25	None	No	0.01	Param.
Chromium (mg/L)	MW-6	0.005	0.0014	0.1	No	16	0.004214	0.0017	81.25	None	No	0.01	NP (NDs)
Chromium (mg/L)	MW-7	0.005	0.0015	0.1	No	16	0.002537	0.001489	25	None	No	0.01	NP (normality)
Chromium (mg/L)	MW-19	0.005	0.00066	0.1	No	16	0.003526	0.002001	62.5	None	No	0.01	NP (NDs)
Chromium (mg/L)	MW-20	0.005	0.00071	0.1	No	16	0.004181	0.001761	81.25	None	No	0.01	NP (NDs)
Chromium (mg/L)	MW-24D	0.005	0.0017	0.1	No	16	0.004507	0.001366	87.5	None	No	0.01	NP (NDs)
Chromium (mg/L)	MW-25D	0.005	0.0012	0.1	No	16	0.004488	0.001403	87.5	None	No	0.01	NP (NDs)
Chromium (mg/L)	MW-26D	0.005	0.0015	0.1	No	16	0.003879	0.001769	68.75	None	No	0.01	NP (NDs)
Chromium (mg/L)	MW-27D	0.005	0.00082	0.1	No	16	0.00447	0.001448	87.5	None	No	0.01	NP (NDs)
Chromium (mg/L)	MW-28D	0.005	0.00085	0.1	No	16	0.003602	0.001911	62.5	None	No	0.01	NP (NDs)
Chromium (mg/L)	MW-29	0.005	0.001	0.1	No	16	0.00475	0.001	93.75	None	No	0.01	NP (NDs)
Cobalt (mg/L)	HGWC-7	0.001252	0.0007034	0.038	No	27	0.001128	0.0007438	14.81	None	ln(x)	0.01	Param.
Cobalt (mg/L)	HGWC-8	0.0021	0.0018	0.038	No	27	0.002747	0.002824	7.407	None	No	0.01	NP (normality)
Cobalt (mg/L)	HGWC-9	0.001	0.00056	0.038	No	27	0.0009607	0.0007185	14.81	None	No	0.01	NP (normality)
Cobalt (mg/L)	HGWC-10	0.005	0.0012	0.038	No	27	0.004059	0.001797	77.78	None	No	0.01	NP (NDs)
Cobalt (mg/L)	HGWC-11	0.005	0.0014	0.038	No	27	0.003362	0.00183	51.85	None	No	0.01	NP (NDs)
Cobalt (mg/L)	HGWC-12	0.0016	0.0012	0.038	No	27	0.001633	0.001004	7.407	None	No	0.01	NP (normality)
Cobalt (mg/L)	HGWC-13	0.0053	0.0024	0.038	No	27	0.005534	0.005433	3.704	None	No	0.01	NP (normality)
Cobalt (mg/L)	MW-6	0.00094	0.00041	0.038	No	16	0.001338	0.001822	18.75	None	No	0.01	NP (normality)
Cobalt (mg/L)	MW-19	0.03819	0.02456	0.038	No	16	0.03138	0.01047	0	None	No	0.01	Param.
Cobalt (mg/L)	MW-20	0.005	0.0011	0.038	No	16	0.004756	0.000975	93.75	None	No	0.01	NP (NDs)
Cobalt (mg/L)	MW-24D	0.005	0.0011	0.038	No	16	0.004182	0.001766	81.25	None	No	0.01	NP (NDs)
Cobalt (mg/L)	MW-26D	0.005	0.00045	0.038	No	16	0.002178	0.002258	37.5	None	No	0.01	NP (normality)
Cobalt (mg/L)	MW-27D	0.005	0.00045	0.038	No	16	0.004121	0.00189	81.25	None	No	0.01	NP (NDs)
Cobalt (mg/L)	MW-28D	0.005	0.00093	0.038	No	16	0.004746	0.001017	93.75	None	No	0.01	NP (NDs)
Cobalt (mg/L)	MW-29	0.001442	0.0007252	0.038	No	16	0.001121	0.0006196	12.5	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	HGWC-7	0.8053	0.4295	5	No	27	0.6647	0.4531	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	HGWC-8	0.9026	0.6327	5	No	27	0.7677	0.2829	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	HGWC-9	0.844	0.5253	5	No	27	0.6847	0.3341	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	HGWC-10	0.9873	0.5678	5	No	27	0.7776	0.4397	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	HGWC-11	1.065	0.6394	5	No	27	0.852	0.4458	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	HGWC-12	0.9576	0.5557	5	No	27	0.7567	0.4213	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	HGWC-13	0.9326	0.594	5	No	27	0.7633	0.3549	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-5	0.871	0.5405	5	No	16	0.7058	0.2539	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-6	0.9167	0.492	5	No	16	0.7473	0.3989	0	None	ln(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-7	1.004	0.4257	5	No	16	0.7148	0.4443	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-19	0.8461	0.4376	5	No	16	0.6418	0.3139	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-20	0.9273	0.4357	5	No	16	0.6815	0.3778	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-24D	0.5223	0.1925	5	No	16	0.3819	0.3035	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-25D	1.243	0.8891	5	No	16	1.066	0.2723	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-26D	0.7146	0.1948	5	No	16	0.5042	0.4463	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-27D	1.363	0.7646	5	No	16	1.09	0.5032	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-28D	1.683	0.7239	5	No	16	1.203	0.737	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-29	0.8424	0.3627	5	No	16	0.6025	0.3687	0	None	No	0.01	Param.
Fluoride (mg/L)	HGWC-7	0.15	0.081	4	No	29	0.136	0.1027	6.897	None	No	0.01	NP (normality)
Fluoride (mg/L)	HGWC-8	0.5967	0.4454	4	No	29	0.531	0.1775	0	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	HGWC-9	0.2141	0.09955	4	No	28	0.1754	0.1429	7.143	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	HGWC-10	0.1638	0.08216	4	No	28	0.1538	0.131	14.29	None	ln(x)	0.01	Param.
Fluoride (mg/L)	HGWC-11	0.3702	0.2329	4	No	28	0.3151	0.1582	0	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	HGWC-12	0.3	0.17	4	No	28	0.2919	0.2194	3.571	None	No	0.01	NP (normality)
Fluoride (mg/L)	HGWC-13	0.6483	0.4716	4	No	28	0.56	0.1891	0	None	No	0.01	Param.
Fluoride (mg/L)	MW-5	0.08265	0.05985	4	No	16	0.07125	0.01753	12.5	None	No	0.01	Param.
Fluoride (mg/L)	MW-6	0.15	0.057	4	No	16	0.09275	0.04567	18.75	None	No	0.01	NP (normality)
Fluoride (mg/L)	MW-7	0.17	0.06	4	No	16	0.09219	0.02745	56.25	None	No	0.01	NP (NDs)
Fluoride (mg/L)	MW-19	0.2184	0.09994	4	No	16	0.1697	0.1181	0	None	x^(1/3)	0.01	Param.
Fluoride (mg/L)	MW-20	0.1	0.074	4	No	16	0.09294	0.01322	75	None	No	0.01	NP (NDs)
Fluoride (mg/L)	MW-24D	0.09527	0.05679	4	No	16	0.08688	0.03372	25	Kaplan-Meier	sqrt(x)	0.01	Param.
Fluoride (mg/L)	MW-25D	1.7	1.4	4	No	16	1.581	0.1905	0	None	No	0.01	NP (normality)
Fluoride (mg/L)	MW-26D	0.1107	0.06555	4	No	16	0.08994	0.03788	6.25	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	MW-27D	0.2847	0.2192	4	No	16	0.2538	0.05439	0	None	x^(1/3)	0.01	Param.
Fluoride (mg/L)	MW-28D	0.2354	0.1683	4	No	16	0.2019	0.05154	0	None	No	0.01	Param.
Fluoride (mg/L)	MW-29	0.18	0.068	4	No	16	0.09313	0.0298	62.5	None	No	0.01	NP (NDs)
Lead (mg/L)	HGWC-7	0.001	0.0002	0.015	No	24	0.0007498	0.0004091	62.5	None	No	0.01	NP (NDs)
Lead (mg/L)	HGWC-8	0.001	0.0002	0.015	No	23	0.000849	0.0003371	82.61	None	No	0.01	NP (NDs)
Lead (mg/L)	HGWC-9	0.001	0.0002	0.015	No	23	0.0007093	0.0004088	65.22	None	No	0.01	NP (NDs)
Lead (mg/L)	HGWC-10	0.001	0.00005	0.015	No	23	0.0009587	0.0001981	95.65	None	No	0.01	NP (NDs)
Lead (mg/L)	HGWC-11	0.001	0.0003	0.015	No	23	0.0007852	0.0003733	73.91	None	No	0.01	NP (NDs)
Lead (mg/L)	HGWC-12	0.001	0.00043	0.015	No	23	0.0008147	0.0003658	78.26	None	No	0.01	NP (NDs)

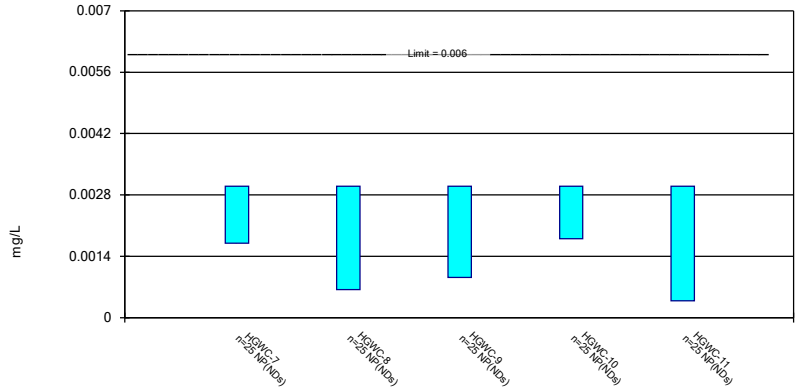
Confidence Interval Summary Table - All Results

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 4/22/2025, 5:23 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lead (mg/L)	HGWC-13	0.001	0.00018	0.015	No	23	0.0007735	0.0003903	73.91	None	No	0.01	NP (NDs)
Lead (mg/L)	MW-5	0.001	0.000047	0.015	No	14	0.0009319	0.0002547	92.86	None	No	0.01	NP (NDs)
Lead (mg/L)	MW-6	0.001	0.00013	0.015	No	15	0.0007673	0.0004019	73.33	None	No	0.01	NP (NDs)
Lead (mg/L)	MW-7	0.001	0.000062	0.015	No	14	0.000933	0.0002507	92.86	None	No	0.01	NP (NDs)
Lead (mg/L)	MW-19	0.001	0.000085	0.015	No	14	0.000736	0.0004334	71.43	None	No	0.01	NP (NDs)
Lead (mg/L)	MW-20	0.001	0.00013	0.015	No	14	0.0007456	0.0004182	71.43	None	No	0.01	NP (NDs)
Lead (mg/L)	MW-24D	0.001	0.000064	0.015	No	14	0.0006754	0.0004533	64.29	None	No	0.01	NP (NDs)
Lead (mg/L)	MW-25D	0.001	0.00037	0.015	No	14	0.000955	0.0001684	92.86	None	No	0.01	NP (NDs)
Lead (mg/L)	MW-26D	0.001	0.0001	0.015	No	14	0.00087	0.0003305	85.71	None	No	0.01	NP (NDs)
Lead (mg/L)	MW-27D	0.001	0.00043	0.015	No	14	0.0008971	0.000268	85.71	None	No	0.01	NP (NDs)
Lead (mg/L)	MW-28D	0.001	0.00034	0.015	No	14	0.0007873	0.0003582	64.29	None	No	0.01	NP (NDs)
Lead (mg/L)	MW-29	0.001	0.00011	0.015	No	14	0.0008037	0.0003902	78.57	None	No	0.01	NP (NDs)
Lithium (mg/L)	HGWC-7	0.0026	0.002	0.064	No	27	0.002862	0.002479	3.704	None	No	0.01	NP (normality)
Lithium (mg/L)	HGWC-8	0.003	0.0025	0.064	No	27	0.003916	0.004029	11.11	None	No	0.01	NP (normality)
Lithium (mg/L)	HGWC-9	0.0044	0.0036	0.064	No	27	0.004397	0.002189	3.704	None	No	0.01	NP (normality)
Lithium (mg/L)	HGWC-12	0.01017	0.008069	0.064	No	27	0.009118	0.0022	0	None	No	0.01	Param.
Lithium (mg/L)	HGWC-13	0.03983	0.03222	0.064	No	27	0.03603	0.007984	0	None	No	0.01	Param.
Lithium (mg/L)	MW-5	0.03	0.000687	0.064	No	16	0.02817	0.007328	93.75	None	No	0.01	NP (NDs)
Lithium (mg/L)	MW-6	0.03	0.000625	0.064	No	16	0.02816	0.007344	93.75	None	No	0.01	NP (NDs)
Lithium (mg/L)	MW-19	0.01321	0.008978	0.064	No	16	0.01109	0.003252	12.5	None	No	0.01	Param.
Lithium (mg/L)	MW-20	0.03	0.00091	0.064	No	16	0.01193	0.01446	37.5	None	No	0.01	NP (normality)
Lithium (mg/L)	MW-24D	0.002889	0.002616	0.064	No	16	0.002753	0.0002094	0	None	No	0.01	Param.
Lithium (mg/L)	MW-25D	0.04802	0.04076	0.064	No	16	0.04439	0.005576	0	None	No	0.01	Param.
Lithium (mg/L)	MW-26D	0.004	0.0032	0.064	No	16	0.005176	0.006628	0	None	No	0.01	NP (normality)
Lithium (mg/L)	MW-27D	0.009379	0.006809	0.064	No	16	0.008094	0.001975	0	None	No	0.01	Param.
Lithium (mg/L)	MW-28D	0.01309	0.008005	0.064	No	16	0.01055	0.00391	0	None	No	0.01	Param.
Lithium (mg/L)	MW-29	0.0024	0.0019	0.064	No	16	0.002244	0.0004403	0	None	No	0.01	NP (normality)
Mercury (mg/L)	HGWC-9	0.0002	0.00004	0.002	No	19	0.0001916	0.00003671	94.74	None	No	0.01	NP (NDs)
Mercury (mg/L)	HGWC-10	0.0002	0.00005	0.002	No	20	0.0001925	0.00003354	95	None	No	0.01	NP (NDs)
Mercury (mg/L)	HGWC-11	0.0002	0.00005	0.002	No	19	0.0001921	0.00003441	94.74	None	No	0.01	NP (NDs)
Mercury (mg/L)	HGWC-13	0.0002	0.00005	0.002	No	19	0.0001837	0.0000489	89.47	None	No	0.01	NP (NDs)
Mercury (mg/L)	MW-25D	0.0002	0.0002	0.002	No	10	0.000193	0.00002214	90	None	No	0.011	NP (NDs)
Mercury (mg/L)	MW-29	0.0002	0.0002	0.002	No	10	0.000197	0.00000948	90	None	No	0.011	NP (NDs)
Molybdenum (mg/L)	HGWC-7	0.04138	0.03392	0.1	No	28	0.03765	0.00798	0	None	No	0.01	Param.
Molybdenum (mg/L)	**HGWC-8**	**0.4707**	**0.3911**	**0.1**	**Yes**	**28**	**0.4215**	**0.09993**	**0**	**None**	**x^2**	**0.01**	**Param.**
Molybdenum (mg/L)	HGWC-9	0.033	0.0229	0.1	No	27	0.04295	0.08701	0	None	No	0.01	NP (normality)
Molybdenum (mg/L)	HGWC-10	0.01	0.0014	0.1	No	27	0.006451	0.004367	59.26	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	HGWC-11	0.02651	0.01742	0.1	No	27	0.02196	0.009526	0	None	No	0.01	Param.
Molybdenum (mg/L)	HGWC-12	0.04873	0.04557	0.1	No	27	0.04715	0.003317	0	None	No	0.01	Param.
Molybdenum (mg/L)	HGWC-13	0.03377	0.02588	0.1	No	27	0.02983	0.008263	0	None	No	0.01	Param.
Molybdenum (mg/L)	MW-6	0.002749	0.002376	0.1	No	16	0.002563	0.0002872	0	None	No	0.01	Param.
Molybdenum (mg/L)	MW-7	0.01	0.0015	0.1	No	16	0.005012	0.004029	37.5	None	No	0.01	NP (normality)
Molybdenum (mg/L)	MW-19	0.04739	0.02273	0.1	No	16	0.03506	0.01895	12.5	None	No	0.01	Param.
Molybdenum (mg/L)	MW-24D	0.01	0.00087	0.1	No	16	0.004109	0.004163	25	None	No	0.01	NP (normality)
Molybdenum (mg/L)	MW-25D	0.01	0.0022	0.1	No	16	0.008946	0.002889	87.5	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	MW-26D	0.02353	0.01389	0.1	No	17	0.01871	0.007692	5.882	None	No	0.01	Param.
Molybdenum (mg/L)	MW-27D	0.004719	0.001678	0.1	No	16	0.004081	0.00505	6.25	None	ln(x)	0.01	Param.
Molybdenum (mg/L)	MW-28D	0.01627	0.005515	0.1	No	16	0.01089	0.008267	0	None	No	0.01	Param.
Molybdenum (mg/L)	MW-29	0.003521	0.002529	0.1	No	16	0.003025	0.000762	6.25	None	No	0.01	Param.
Selenium (mg/L)	HGWC-8	0.05	0.0024	0.05	No	27	0.04824	0.009161	96.3	None	No	0.01	NP (NDs)
Selenium (mg/L)	HGWC-9	0.005	0.0037	0.05	No	27	0.004952	0.0002502	96.3	None	No	0.01	NP (NDs)
Selenium (mg/L)	HGWC-10	0.005	0.0031	0.05	No	27	0.004156	0.001239	62.96	None	No	0.01	NP (NDs)
Selenium (mg/L)	HGWC-11	0.01281	0.006401	0.05	No	27	0.01049	0.007239	3.704	None	sqrt(x)	0.01	Param.
Selenium (mg/L)	HGWC-12	0.005	0.0011	0.05	No	27	0.004856	0.0007506	96.3	None	No	0.01	NP (NDs)
Selenium (mg/L)	HGWC-13	0.005	0.0016	0.05	No	27	0.004696	0.001114	92.59	None	No	0.01	NP (NDs)
Selenium (mg/L)	MW-5	0.003648	0.002577	0.05	No	16	0.003113	0.0008237	0	None	No	0.01	Param.
Selenium (mg/L)	MW-6	0.005	0.0035	0.05	No	16	0.004675	0.0009747	87.5	None	No	0.01	NP (NDs)
Selenium (mg/L)	MW-7	0.005	0.0015	0.05	No	16	0.003375	0.001703	50	None	No	0.01	NP (normality)
Selenium (mg/L)	MW-19	0.0082	0.0022	0.05	No	16	0.01268	0.0186	18.75	None	No	0.01	NP (normality)
Selenium (mg/L)	MW-27D	0.005	0.00012	0.05	No	16	0.004695	0.00122	93.75	None	No	0.01	NP (NDs)
Thallium (mg/L)	HGWC-8	0.001	0.00018	0.002	No	27	0.0007655	0.0004044	74.07	None	No	0.01	NP (NDs)
Thallium (mg/L)	HGWC-11	0.001	0.00008	0.002	No	27	0.0009319	0.0002455	92.59	None	No	0.01	NP (NDs)
Thallium (mg/L)	HGWC-12	0.001	0.0002	0.002	No	27	0.0008009	0.0003802	77.78	None	No	0.01	NP (NDs)
Thallium (mg/L)	HGWC-13	0.0004261	0.0003389	0.002	No	27	0.0003825	0.00009134	14.81	None	No	0.01	Param.
Thallium (mg/L)	MW-6	0.001	0.000082	0.002	No	16	0.0009426	0.0002295	93.75	None	No	0.01	NP (NDs)
Thallium (mg/L)	MW-19	0.001	0.00026	0.002	No	16	0.0005913	0.0003754	43.75	None	No	0.01	NP (normality)
Thallium (mg/L)	MW-28D	0.001	0.000092	0.002	No	16	0.0009433	0.000227	93.75	None	No	0.01	NP (NDs)
Thallium (mg/L)	MW-29	0.001	0.000064	0.002	No	16	0.0009415	0.000234	93.75	None	No	0.01	NP (NDs)

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

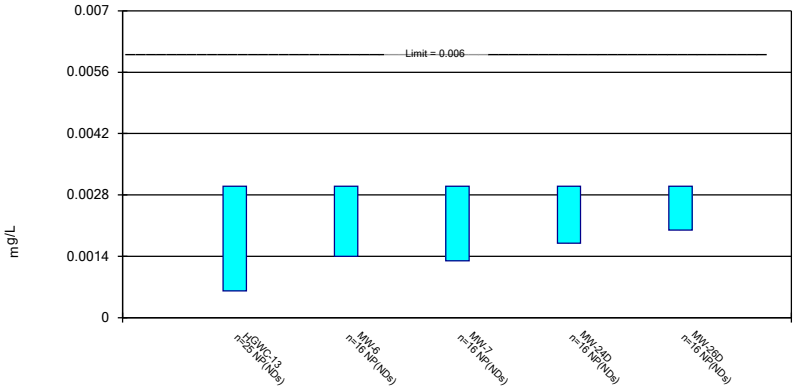


Constituent: Antimony Analysis Run 4/22/2025 5:20 PM View: Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

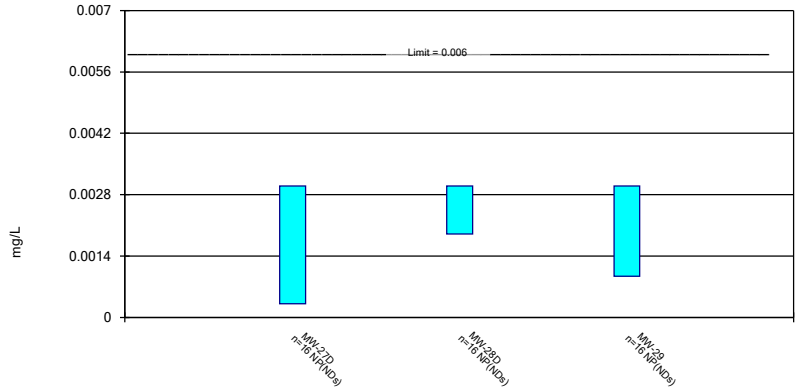


Constituent: Antimony Analysis Run 4/22/2025 5:20 PM View: Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

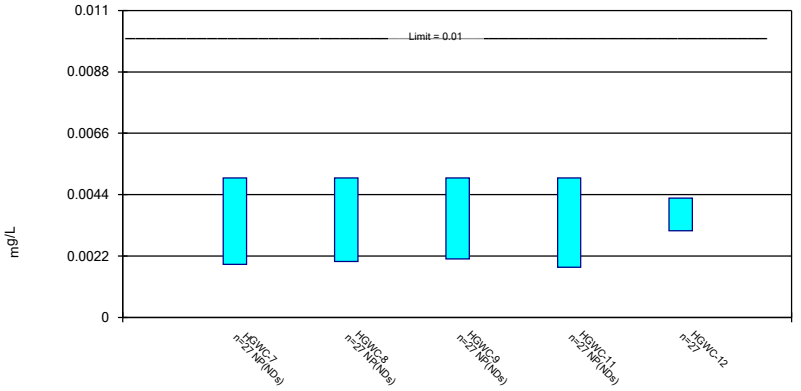


Constituent: Antimony Analysis Run 4/22/2025 5:20 PM View: Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

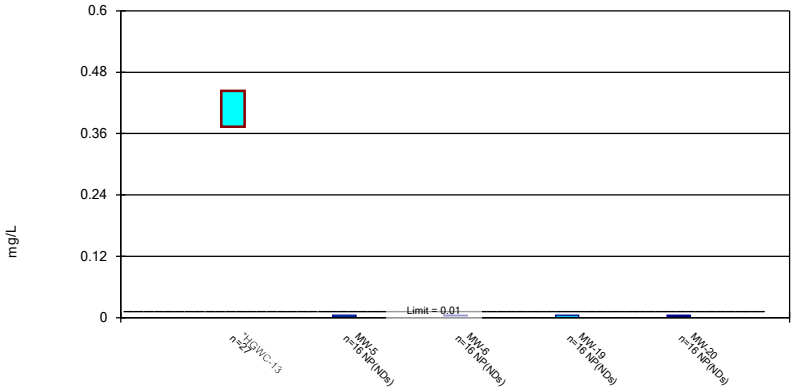
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 4/22/2025 5:20 PM View: Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

Parametric and Non-Parametric (NP) Confidence Interval

Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

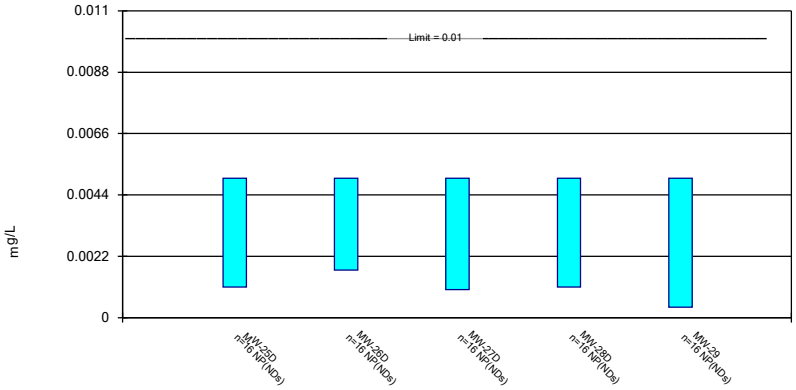


Constituent: Arsenic Analysis Run 4/22/2025 5:20 PM View: Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

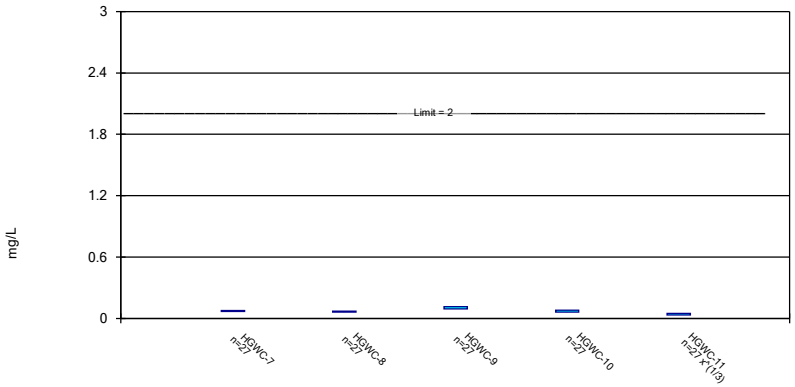


Constituent: Arsenic Analysis Run 4/22/2025 5:20 PM View: Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

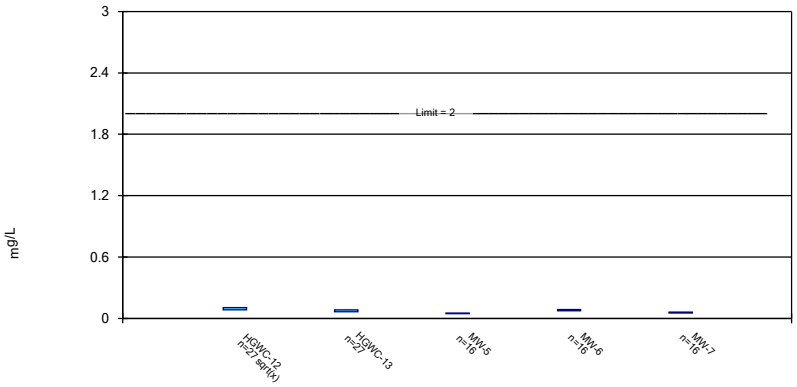


Constituent: Barium Analysis Run 4/22/2025 5:20 PM View: Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

Parametric Confidence Interval

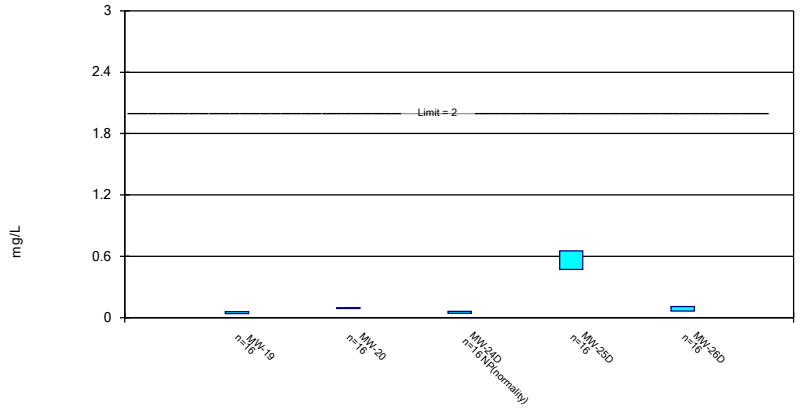
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 4/22/2025 5:20 PM View: Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

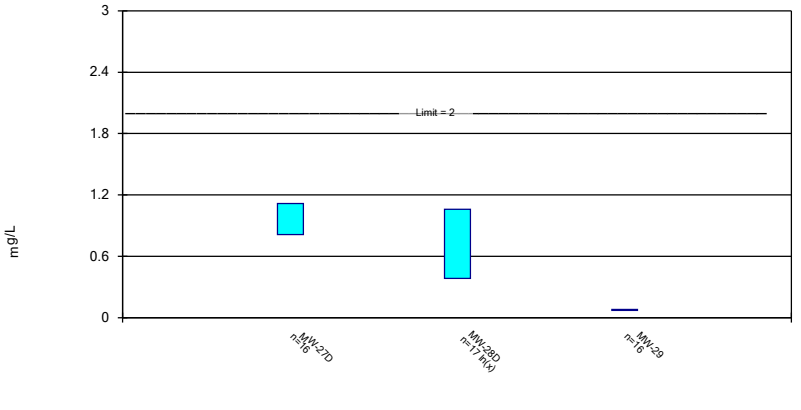


Constituent: Barium Analysis Run 4/22/2025 5:20 PM View: Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

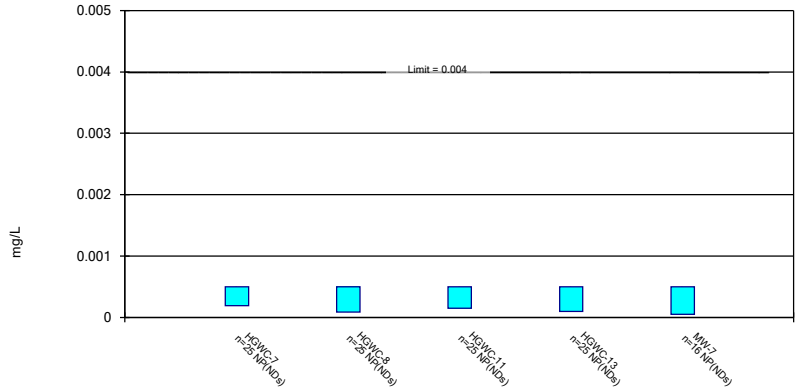


Constituent: Barium Analysis Run 4/22/2025 5:20 PM View: Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

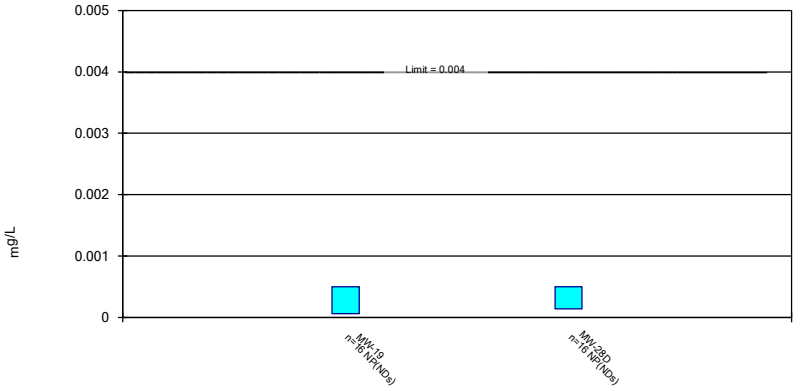


Constituent: Beryllium Analysis Run 4/22/2025 5:20 PM View: Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

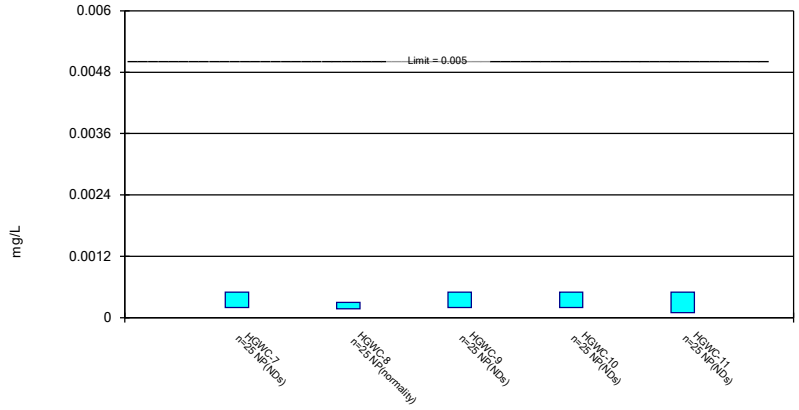
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Beryllium Analysis Run 4/22/2025 5:20 PM View: Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

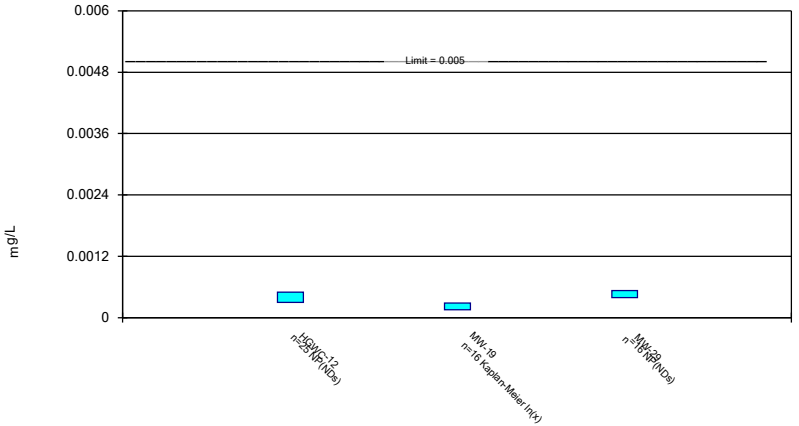


Constituent: Cadmium Analysis Run 4/22/2025 5:20 PM View: Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

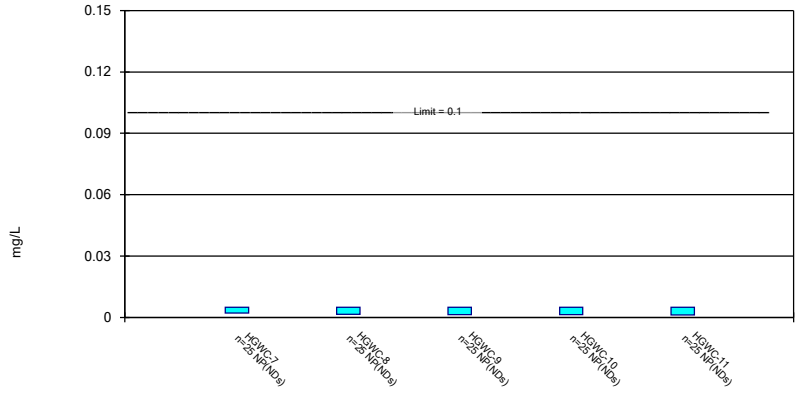


Constituent: Cadmium Analysis Run 4/22/2025 5:20 PM View: Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

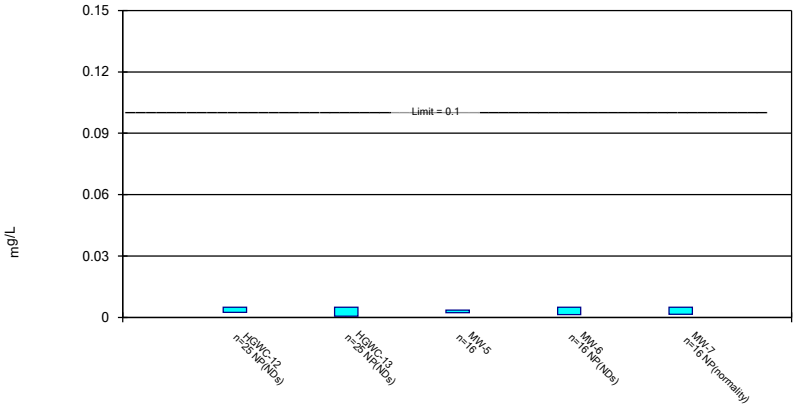


Constituent: Chromium Analysis Run 4/22/2025 5:20 PM View: Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

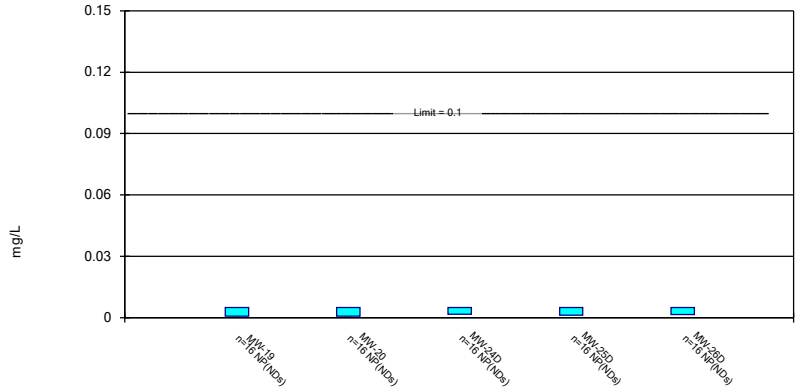
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Chromium Analysis Run 4/22/2025 5:20 PM View: Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

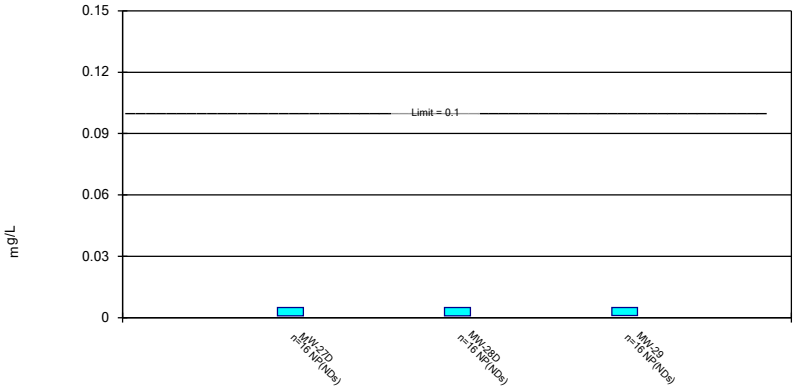


Constituent: Chromium Analysis Run 4/22/2025 5:20 PM View: Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

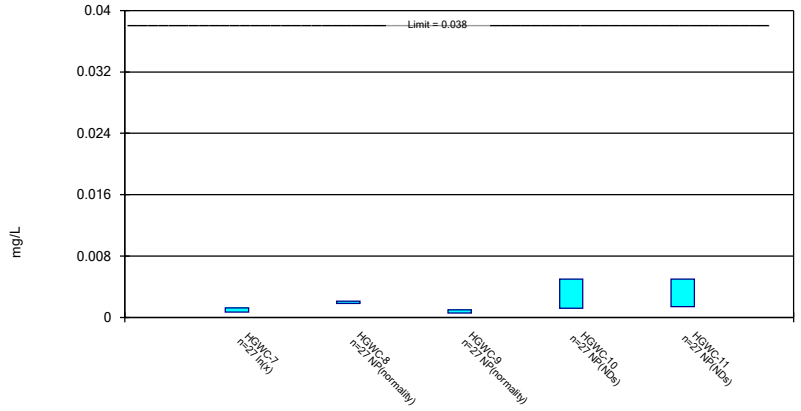


Constituent: Chromium Analysis Run 4/22/2025 5:20 PM View: Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

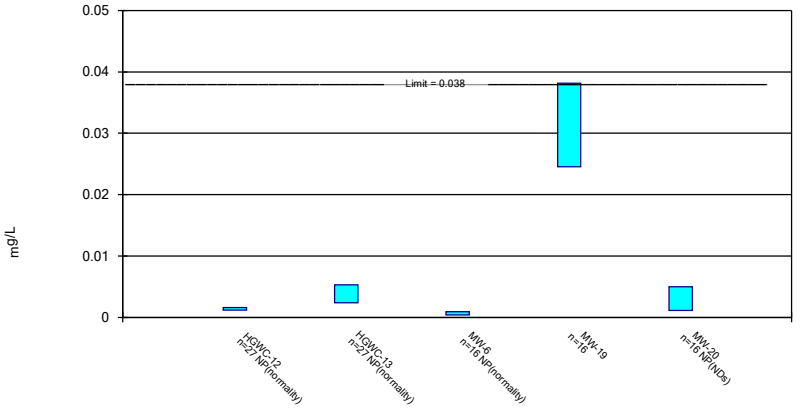


Constituent: Cobalt Analysis Run 4/22/2025 5:20 PM View: Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

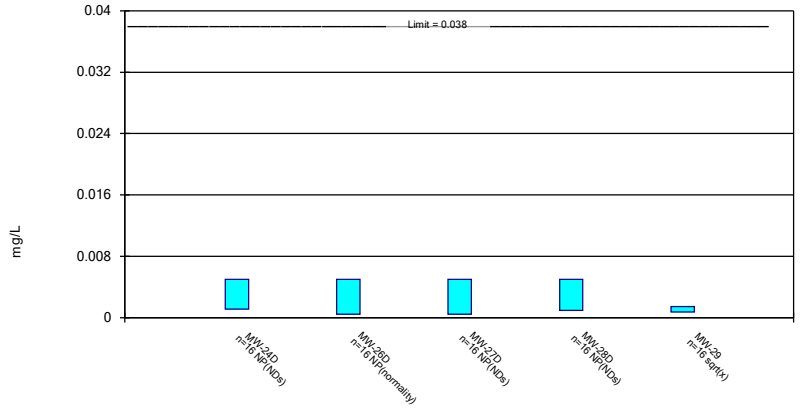


Constituent: Cobalt Analysis Run 4/22/2025 5:20 PM View: Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

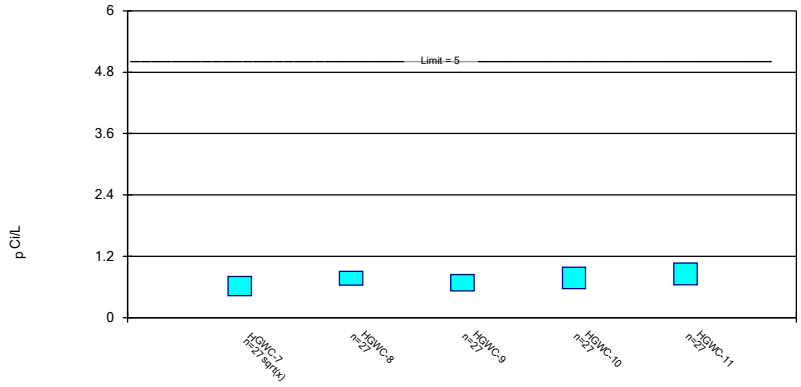


Constituent: Cobalt Analysis Run 4/22/2025 5:20 PM View: Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

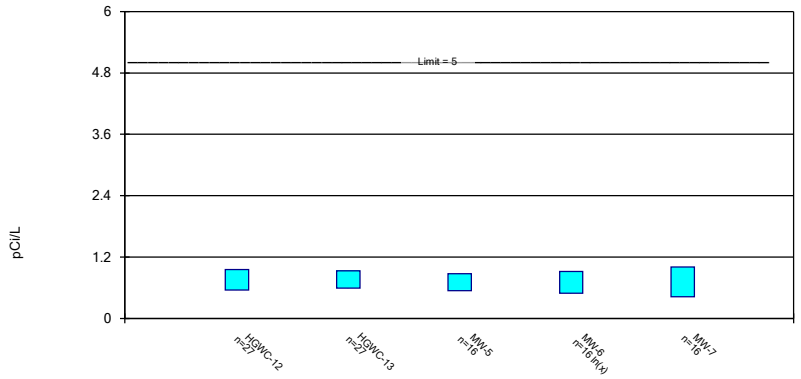


Constituent: Combined Radium 226 + 228 Analysis Run 4/22/2025 5:20 PM View: Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

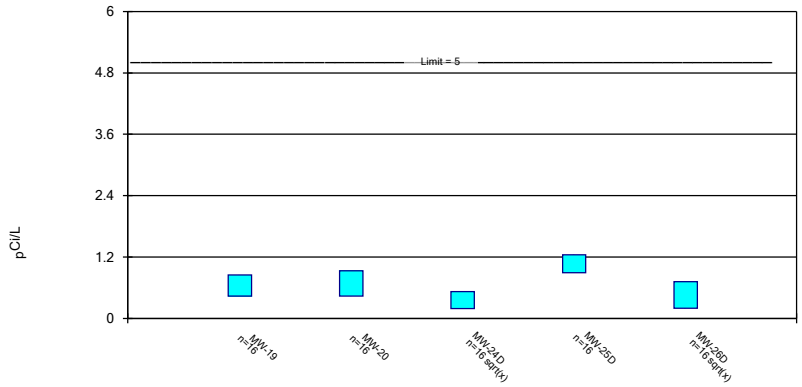


Constituent: Combined Radium 226 + 228 Analysis Run 4/22/2025 5:20 PM View: Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

Parametric Confidence Interval

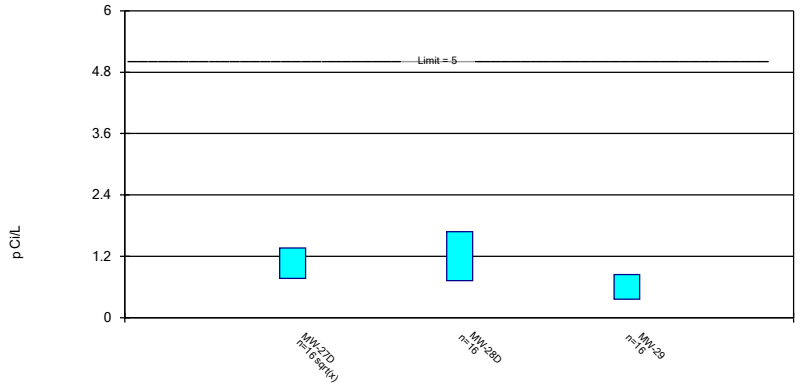
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 4/22/2025 5:20 PM View: Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

Parametric Confidence Interval

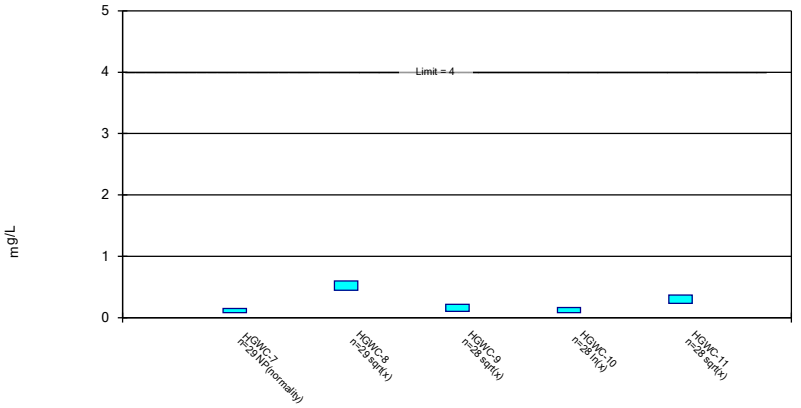
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 4/22/2025 5:20 PM View: Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

Parametric and Non-Parametric (NP) Confidence Interval

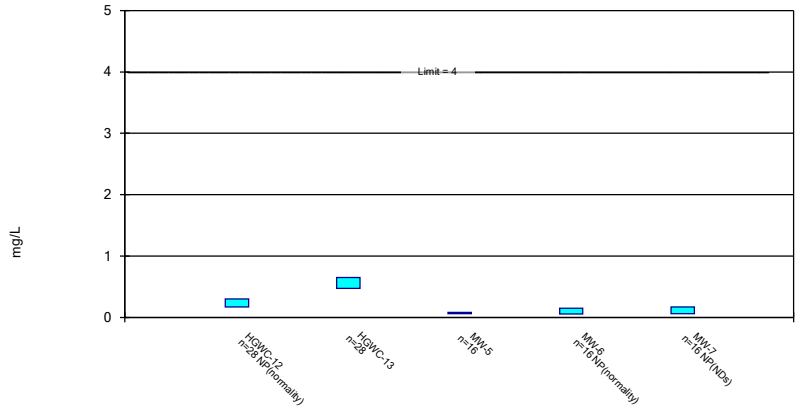
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 4/22/2025 5:20 PM View: Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

Parametric and Non-Parametric (NP) Confidence Interval

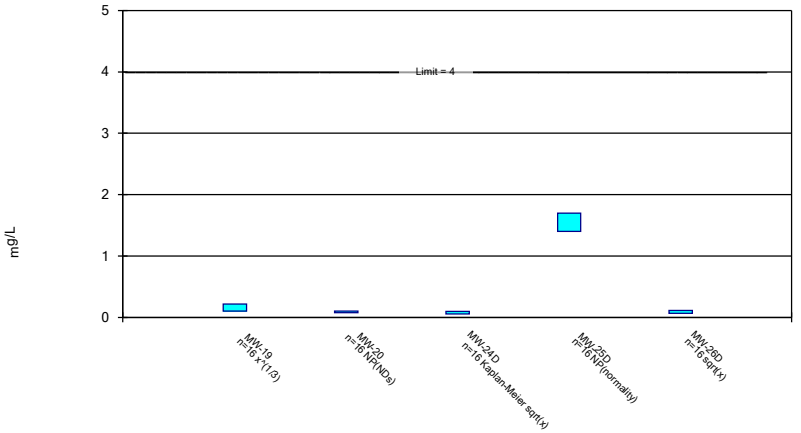
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 4/22/2025 5:20 PM View: Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

Parametric and Non-Parametric (NP) Confidence Interval

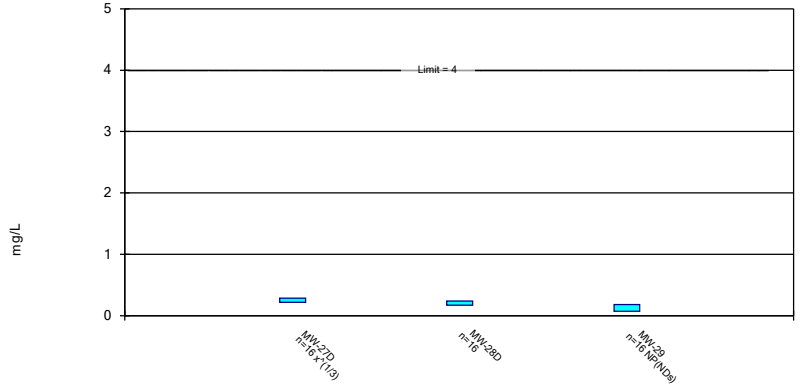
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 4/22/2025 5:20 PM View: Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

Parametric and Non-Parametric (NP) Confidence Interval

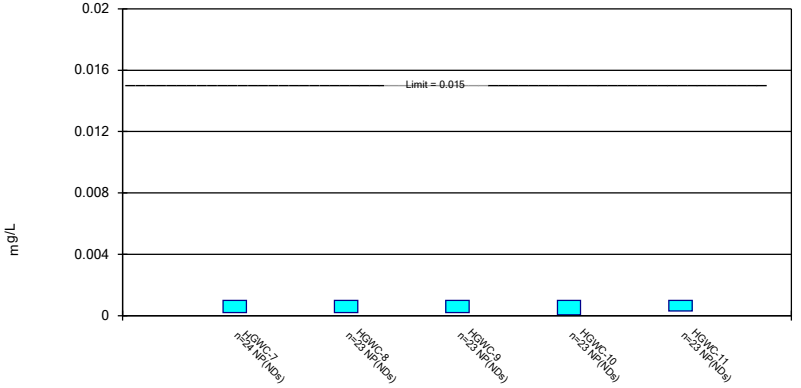
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 4/22/2025 5:21 PM View: Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

Non-Parametric Confidence Interval

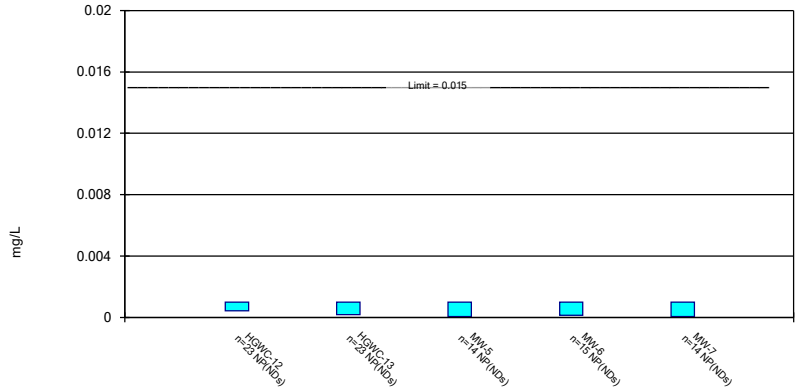
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lead Analysis Run 4/22/2025 5:21 PM View: Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

Non-Parametric Confidence Interval

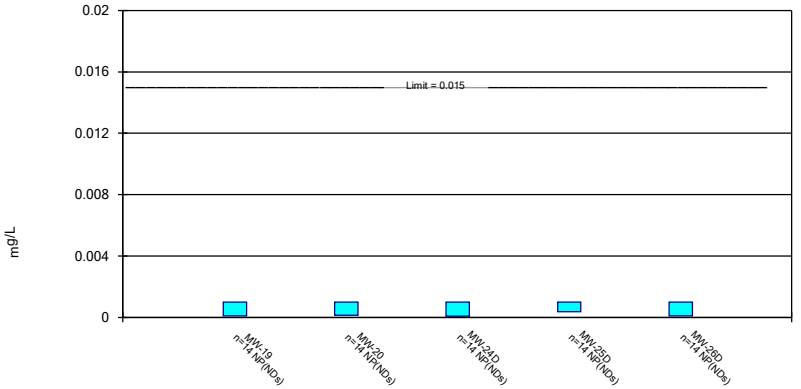
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lead Analysis Run 4/22/2025 5:21 PM View: Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

Non-Parametric Confidence Interval

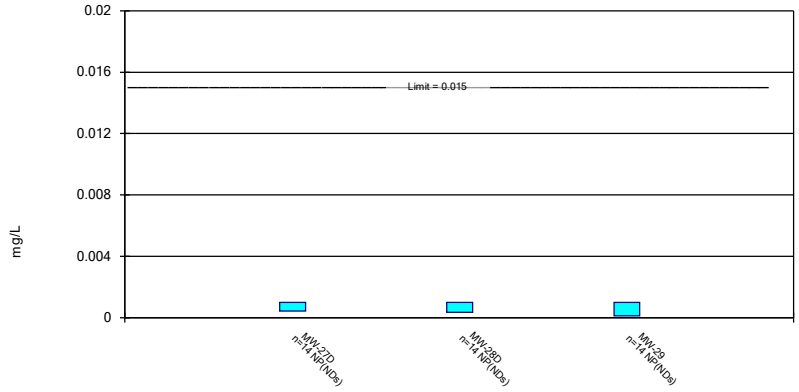
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lead Analysis Run 4/22/2025 5:21 PM View: Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

Non-Parametric Confidence Interval

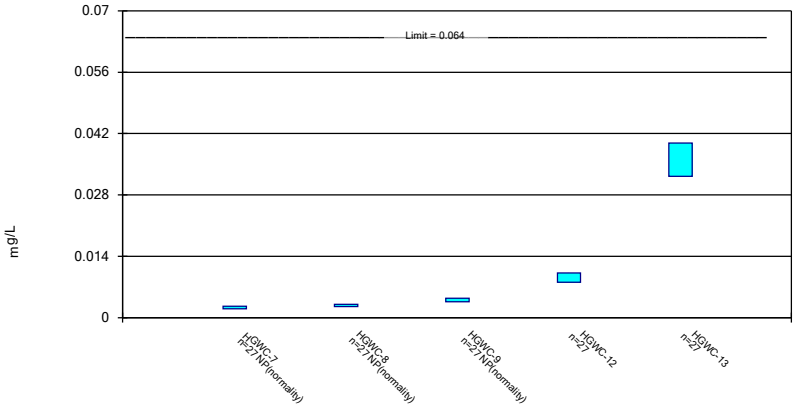
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lead Analysis Run 4/22/2025 5:21 PM View: Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

Parametric and Non-Parametric (NP) Confidence Interval

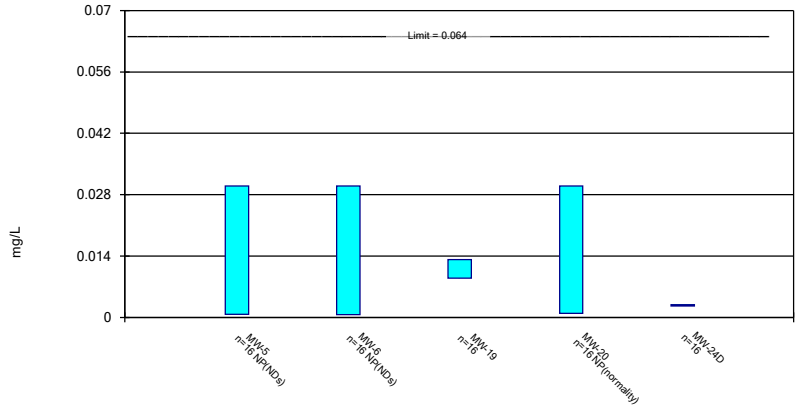
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 4/22/2025 5:21 PM View: Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

Parametric and Non-Parametric (NP) Confidence Interval

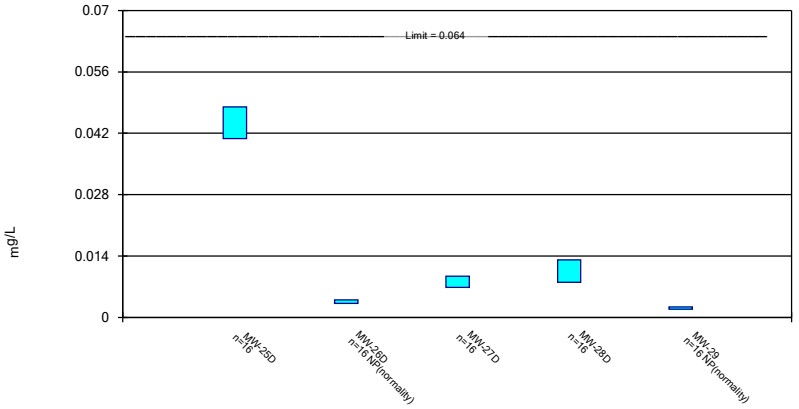
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 4/22/2025 5:21 PM View: Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

Parametric and Non-Parametric (NP) Confidence Interval

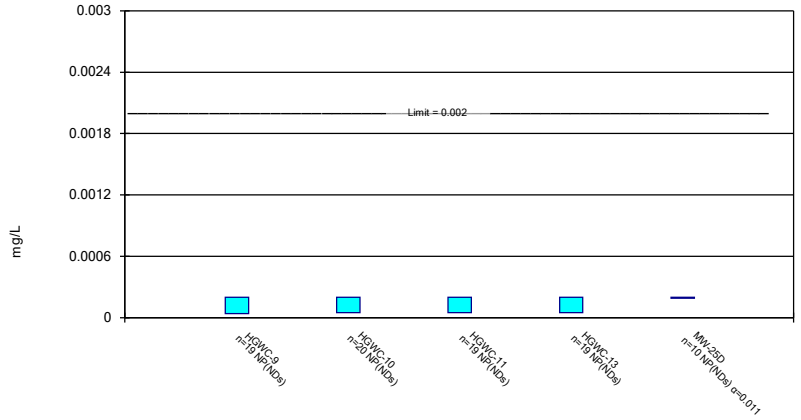
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 4/22/2025 5:21 PM View: Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.

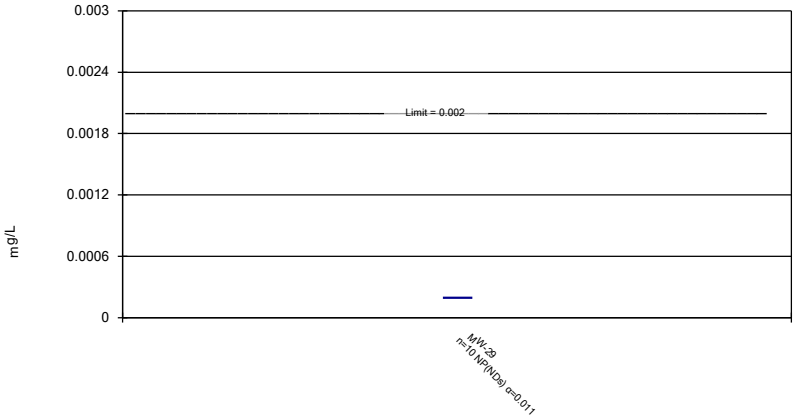


Constituent: Mercury Analysis Run 4/22/2025 5:21 PM View: Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.

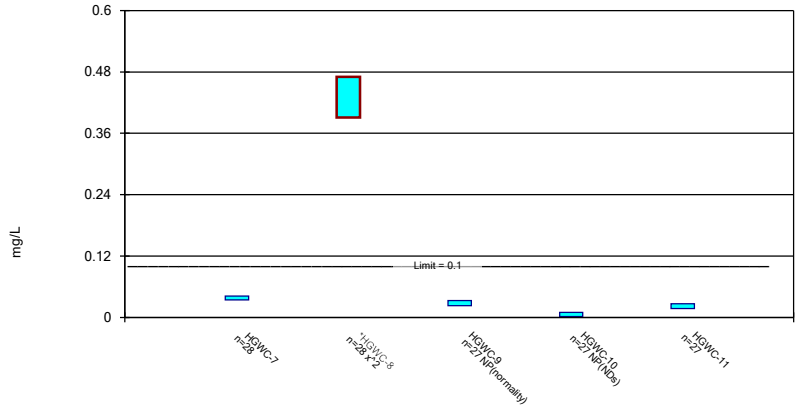


Constituent: Mercury Analysis Run 4/22/2025 5:21 PM View: Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

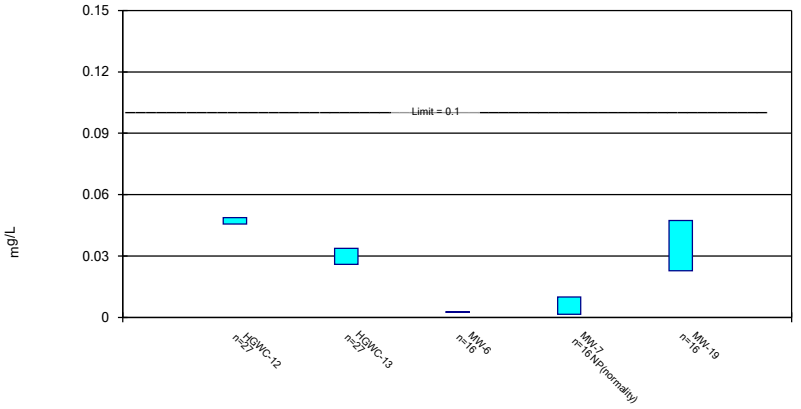


Constituent: Molybdenum Analysis Run 4/22/2025 5:21 PM View: Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

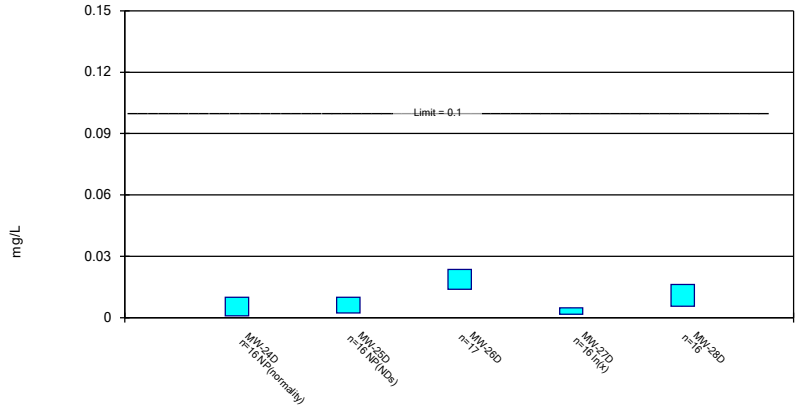
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 4/22/2025 5:21 PM View: Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

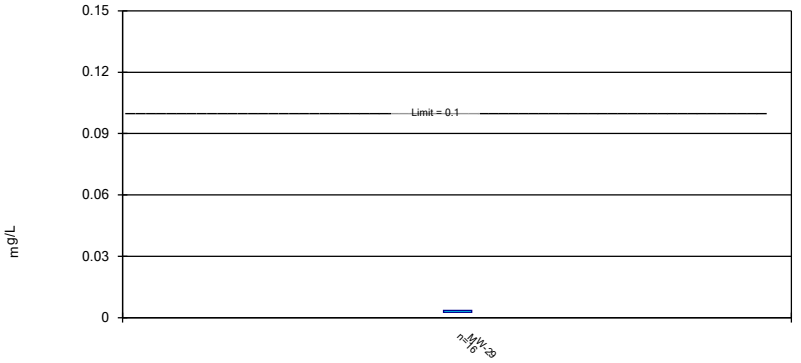


Constituent: Molybdenum Analysis Run 4/22/2025 5:21 PM View: Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

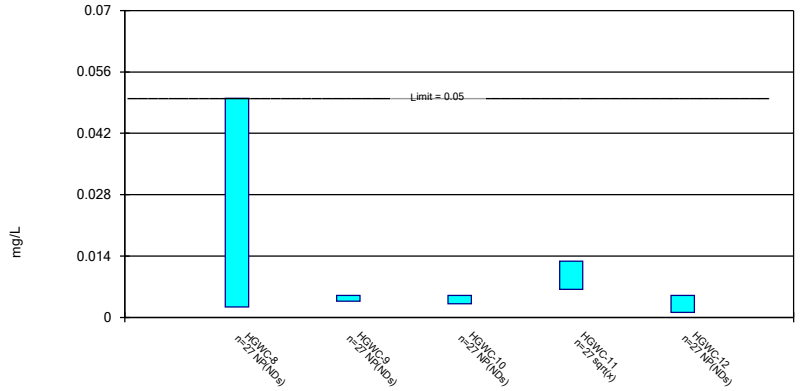


Constituent: Molybdenum Analysis Run 4/22/2025 5:21 PM View: Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

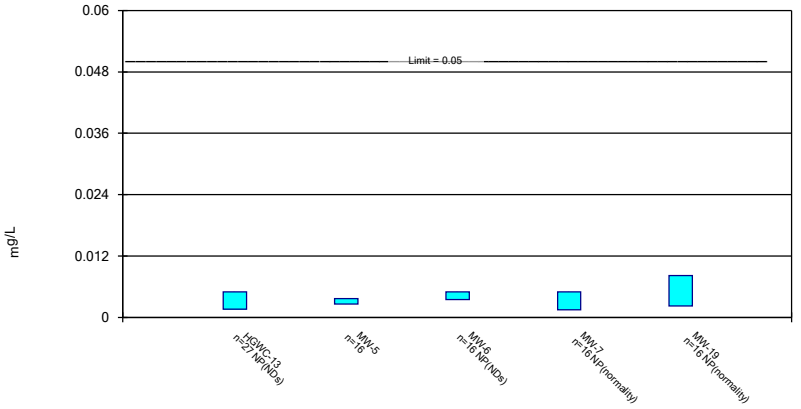


Constituent: Selenium Analysis Run 4/22/2025 5:21 PM View: Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

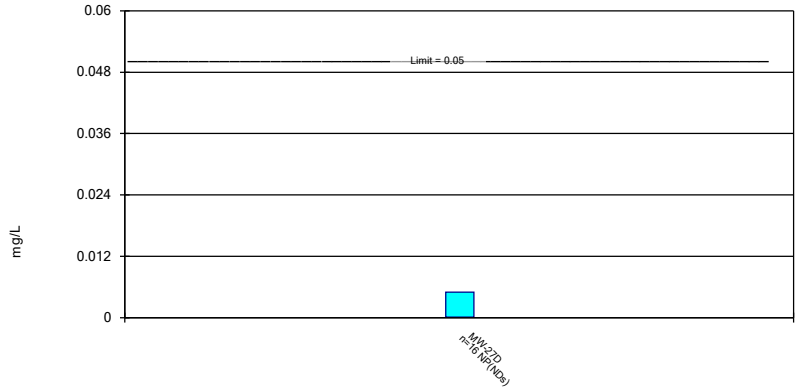
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 4/22/2025 5:21 PM View: Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

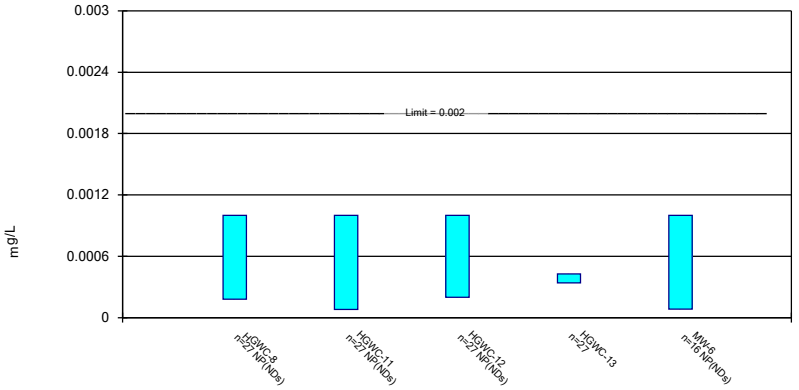


Constituent: Selenium Analysis Run 4/22/2025 5:21 PM View: Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

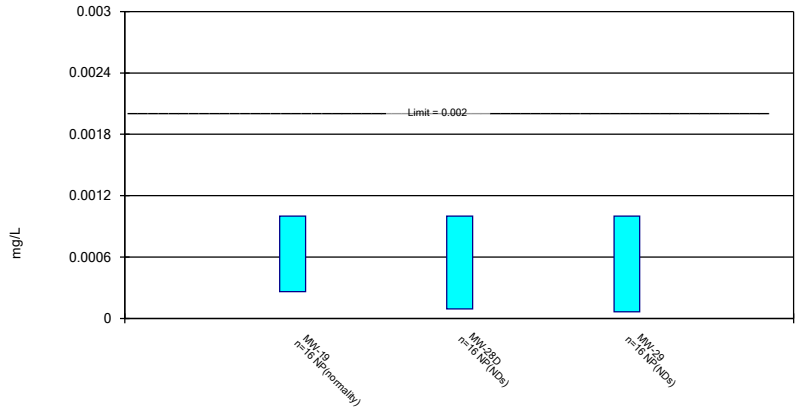


Constituent: Thallium Analysis Run 4/22/2025 5:21 PM View: Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Thallium Analysis Run 4/22/2025 5:21 PM View: Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 4/22/2025 5:23 PM View: Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-7	HGWC-8	HGWC-9	HGWC-10	HGWC-11
5/20/2016	<0.003	<0.003			
5/23/2016			<0.003	<0.003	<0.003
7/12/2016	<0.003	<0.003	<0.003	<0.003	<0.003
9/1/2016	<0.003	<0.003	<0.003	<0.003	<0.003
10/20/2016	<0.003	<0.003	<0.003		
10/24/2016				<0.003	<0.003
12/6/2016	<0.003	<0.003	<0.003		
12/7/2016				<0.003	<0.003
1/25/2017	<0.003	<0.003			
1/26/2017			<0.003	<0.003	<0.003
3/21/2017	<0.003	<0.003			
3/22/2017			<0.003	<0.003	<0.003
5/23/2017	<0.003	<0.003	<0.003		
5/24/2017				<0.003	<0.003
4/3/2018	<0.003	<0.003	<0.003		
4/4/2018				<0.003	<0.003
3/12/2019		<0.003			
3/13/2019	<0.003		<0.003	<0.003	<0.003
4/2/2019	<0.003				
4/3/2019		<0.003	<0.003	<0.003	<0.003
9/24/2019		<0.003			
9/25/2019	<0.003				
9/27/2019			<0.003	<0.003	<0.003
3/3/2020		<0.003		<0.003	<0.003
3/4/2020	<0.003		0.00032 (J)		
3/27/2020	<0.003	<0.003			
3/31/2020			0.00042 (J)		<0.003
4/1/2020				<0.003	
9/16/2020	0.00034 (J)	<0.003		<0.003	
9/17/2020			<0.003		
9/18/2020					0.00038 (J)
2/10/2021	<0.003				
2/12/2021					<0.003
2/15/2021				0.00065 (J)	
2/16/2021		0.00064 (J)	0.00043 (J)		
3/12/2021				<0.003	
3/15/2021	<0.003	<0.003			
3/16/2021			<0.003		<0.003
8/16/2021	0.0017 (J)				
8/17/2021			<0.003	<0.003	
8/18/2021		<0.003			<0.003
2/9/2022			<0.003	<0.003	<0.003
2/10/2022	<0.003	<0.003			
8/3/2022		<0.003		0.0018 (J)	<0.003
8/4/2022			<0.003		
8/11/2022	<0.003				
1/26/2023			0.00092 (J)		<0.003
1/27/2023	<0.003			<0.003	
2/1/2023		<0.003			
8/10/2023				<0.003	<0.003
8/11/2023			<0.003		
8/12/2023	<0.003	<0.003			

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 4/22/2025 5:23 PM View: Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-7	HGWC-8	HGWC-9	HGWC-10	HGWC-11
2/14/2024	<0.003	<0.003			
2/15/2024			<0.003	<0.003	<0.003
8/7/2024	<0.003	<0.003	<0.003	<0.003	<0.003
2/13/2025					<0.003
2/14/2025				<0.003	
2/15/2025		<0.003	<0.003		
2/16/2025	<0.003				
Mean	0.002842	0.002906	0.002604	0.002858	0.002895
Std. Dev.	0.0005823	0.000472	0.0009319	0.0005187	0.000524
Upper Lim.	0.003	0.003	0.003	0.003	0.003
Lower Lim.	0.0017	0.00064	0.00092	0.0018	0.00038

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 4/22/2025 5:23 PM View: Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-13	MW-6	MW-7	MW-24D	MW-26D
5/23/2016	<0.003				
7/12/2016	0.0003 (J)				
9/1/2016	<0.003				
10/24/2016	<0.003				
12/7/2016	<0.003				
1/26/2017	<0.003				
3/22/2017	<0.003				
5/24/2017	<0.003				
4/4/2018	<0.003				
3/13/2019	<0.003	<0.003	0.00086 (J)	<0.003	<0.003
4/3/2019		<0.003	<0.003		<0.003
4/5/2019	0.00021 (J)				
4/8/2019				<0.003	
9/26/2019	<0.003	<0.003	<0.003	<0.003	<0.003
3/3/2020		<0.003	0.0013 (J)		
3/4/2020	0.00061 (J)			0.0017 (J)	0.002 (J)
3/27/2020		<0.003			
3/30/2020	0.00036 (J)		<0.003	<0.003	
3/31/2020					0.0013 (J)
9/17/2020					<0.003
9/21/2020	0.00029 (J)	0.0014 (J)	0.00051 (J)	<0.003	
2/15/2021			0.0021 (J)		
2/16/2021		<0.003		<0.003	<0.003
2/22/2021	0.00047 (J)				
3/15/2021			<0.003		
3/16/2021		<0.003			
3/17/2021	0.00049 (J)			<0.003	<0.003
8/17/2021		<0.003	<0.003		<0.003
8/19/2021	<0.003			<0.003	
2/8/2022			<0.003		
2/9/2022		<0.003			<0.003
2/10/2022	<0.003			<0.003	
8/3/2022	<0.003	<0.003		<0.003	
8/4/2022			<0.003		<0.003
1/26/2023	<0.003	<0.003	<0.003	<0.003	<0.003
8/10/2023		<0.003	<0.003		
8/11/2023					<0.003
8/12/2023	<0.003			<0.003	
2/14/2024		<0.003	<0.003		
2/15/2024				<0.003	<0.003
2/16/2024	<0.003				
8/7/2024		<0.003			
8/8/2024	<0.003		<0.003	0.00086 (J)	<0.003
2/13/2025			<0.003		
2/14/2025		<0.003			<0.003
2/16/2025				0.00066 (J)	
2/17/2025	<0.003				
Mean	0.002269	0.0029	0.002548	0.002639	0.002831
Std. Dev.	0.001198	0.0004	0.0008646	0.0008024	0.0004785
Upper Lim.	0.003	0.003	0.003	0.003	0.003
Lower Lim.	0.00061	0.0014	0.0013	0.0017	0.002

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 4/22/2025 5:23 PM View: Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-27D	MW-28D	MW-29
3/12/2019		<0.003	<0.003
3/13/2019	<0.003		
4/2/2019		<0.003	<0.003
4/4/2019	0.00016 (J)		
9/24/2019			<0.003
9/26/2019	0.0003 (J)	<0.003	
3/2/2020			<0.003
3/4/2020	0.00037 (J)	<0.003	
3/27/2020		<0.003	
3/30/2020			<0.003
4/2/2020	0.0003 (J)		
9/16/2020			<0.003
9/18/2020	0.00031 (J)		
9/21/2020		<0.003	
2/10/2021		0.0019 (J)	
2/15/2021			0.00094 (J)
2/16/2021	0.00038 (J)		
3/12/2021	<0.003		
3/15/2021		<0.003	<0.003
8/16/2021			<0.003
8/17/2021	<0.003		
8/18/2021		<0.003	
2/10/2022	<0.003	<0.003	<0.003
8/3/2022	<0.003		<0.003
8/4/2022		<0.003	
1/26/2023		<0.003	<0.003
1/27/2023	<0.003		
8/10/2023			<0.003
8/11/2023		<0.003	
8/12/2023	<0.003		
2/14/2024		<0.003	<0.003
2/16/2024	<0.003		
8/8/2024	<0.003	<0.003	<0.003
2/15/2025	<0.003		
2/16/2025		<0.003	<0.003
Mean	0.001989	0.002931	0.002871
Std. Dev.	0.001349	0.000275	0.000515
Upper Lim.	0.003	0.003	0.003
Lower Lim.	0.00031	0.0019	0.00094

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 4/22/2025 5:23 PM View: Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-7	HGWC-8	HGWC-9	HGWC-11	HGWC-12
5/20/2016	<0.005	<0.005			
5/23/2016			<0.005	<0.005	0.0046 (J)
7/12/2016	<0.005	<0.005	<0.005	0.0015 (J)	0.005
9/1/2016	<0.005	<0.005	<0.005	<0.005	0.0043 (J)
10/20/2016	<0.005	<0.005	<0.005		
10/24/2016				<0.005	0.0049 (J)
12/6/2016	<0.005	<0.005	<0.005		
12/7/2016				<0.005	0.0046 (J)
1/25/2017	<0.005	<0.005			
1/26/2017			<0.005	<0.005	<0.01
3/21/2017	<0.005	<0.005			
3/22/2017			0.0008 (J)	0.0053	0.0019 (J)
5/23/2017	<0.005	<0.005	<0.005		
5/24/2017				<0.005	0.0022 (J)
4/3/2018	<0.005	<0.005	<0.005		
4/4/2018				<0.005	<0.01
6/5/2018	<0.005			0.0012 (J)	
6/6/2018		<0.005	<0.005		0.0048 (J)
10/2/2018	0.0019 (J)	<0.005	<0.005		
10/3/2018				<0.005	0.0037 (J)
3/12/2019		<0.005			
3/13/2019	<0.005		0.00075 (J)	0.0024 (J)	
3/14/2019					0.0026 (J)
4/2/2019	<0.005				
4/3/2019		<0.005	<0.005	0.00094 (J)	0.0022 (J)
9/24/2019		<0.005			
9/25/2019	<0.005				
9/27/2019			0.00037 (J)	0.0018 (J)	0.0061
3/3/2020		<0.005		0.0022 (J)	0.0023 (J)
3/4/2020	<0.005		<0.005		
3/26/2020					0.0028 (J)
3/27/2020	<0.005	<0.005			
3/31/2020			<0.005	0.0022 (J)	
9/16/2020	<0.005	<0.005			
9/17/2020			<0.005		
9/18/2020				0.00081 (J)	0.0031 (J)
2/10/2021	<0.005				
2/12/2021				0.002 (J)	0.0045 (J)
2/16/2021		<0.005	<0.005		
3/15/2021	<0.005	<0.005			
3/16/2021			<0.005	0.0017 (J)	0.0038 (J)
8/16/2021	<0.005				
8/17/2021			<0.005		
8/18/2021		<0.005		<0.005	0.0028 (J)
2/9/2022			0.0021 (J)	0.0047 (J)	0.0053
2/10/2022	<0.005	0.002 (J)			
8/3/2022		<0.005		<0.005	0.0023 (J)
8/4/2022			<0.005		
8/11/2022	<0.005				
1/26/2023			<0.005	<0.005	0.0025 (J)
1/27/2023	<0.005				
2/1/2023		<0.005			

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 4/22/2025 5:23 PM View: Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-7	HGWC-8	HGWC-9	HGWC-11	HGWC-12
8/10/2023				<0.005	<0.01
8/11/2023			<0.005		
8/12/2023	<0.005	<0.005			
2/14/2024	<0.005	<0.005			
2/15/2024			<0.005	<0.005	0.0027 (J)
8/7/2024	<0.005	<0.005	<0.005	0.0015 (J)	0.0024 (J)
2/13/2025				<0.005	0.0033 (J)
2/15/2025		<0.005	<0.005		
2/16/2025	<0.005				
Mean	0.004885	0.004889	0.004408	0.003639	0.003693
Std. Dev.	0.0005966	0.0005774	0.001469	0.001706	0.001233
Upper Lim.	0.005	0.005	0.005	0.005	0.004281
Lower Lim.	0.0019	0.002	0.0021	0.0018	0.003105

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 4/22/2025 5:23 PM View: Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-13	MW-5	MW-6	MW-19	MW-20
5/23/2016	0.329				
7/12/2016	0.297				
9/1/2016	0.314				
10/24/2016	0.334				
12/7/2016	0.35				
1/26/2017	0.424				
3/22/2017	0.419				
5/24/2017	0.393				
4/4/2018	0.49				
6/5/2018	0.38				
10/5/2018	0.34				
3/13/2019	0.42	<0.005	<0.005		0.0023 (J)
3/14/2019				<0.005	
4/2/2019					<0.005
4/3/2019		<0.005	<0.005	<0.005	
4/5/2019	0.36				
9/25/2019		<0.005			<0.005
9/26/2019	0.44		<0.005		
9/27/2019				<0.005	
3/2/2020		<0.005			0.00038 (J)
3/3/2020			<0.005		
3/4/2020	0.52			0.00045 (J)	
3/26/2020		<0.005		<0.005	
3/27/2020			<0.005		<0.005
3/30/2020	0.47				
9/17/2020		<0.005			<0.005
9/21/2020	0.39		<0.005	<0.005	
2/11/2021					0.00094 (J)
2/12/2021				<0.005	
2/16/2021		<0.005	<0.005		
2/22/2021	0.45				
3/15/2021					<0.005
3/16/2021		<0.005	<0.005		
3/17/2021	0.39			<0.005	
8/17/2021		<0.005	<0.005		<0.005
8/18/2021				<0.005	
8/19/2021	0.31				
2/9/2022		0.0013 (J)	0.0034 (J)	<0.005	
2/10/2022	0.38				<0.005
8/3/2022	0.4	<0.005	<0.005		
8/4/2022				<0.005	<0.005
1/26/2023	0.53	<0.005	<0.005	<0.005	<0.005
8/10/2023		<0.005	<0.005	<0.005	<0.005
8/12/2023	0.54				
2/14/2024			<0.005		<0.005
2/15/2024		<0.005		<0.005	
2/16/2024	0.5				
8/7/2024		<0.005	<0.005		<0.005
8/8/2024	0.52			<0.005	
2/13/2025				<0.005	
2/14/2025		<0.005	<0.005		
2/15/2025					<0.005

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 4/22/2025 5:23 PM View: Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-13	MW-5	MW-6	MW-19	MW-20
2/17/2025	0.34				
Mean	0.4085	0.004769	0.0049	0.004716	0.004289
Std. Dev.	0.07328	0.000925	0.0004	0.001137	0.001571
Upper Lim.	0.4435	0.005	0.005	0.005	0.005
Lower Lim.	0.3736	0.0013	0.0034	0.00045	0.0023

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 4/22/2025 5:23 PM View: Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-25D	MW-26D	MW-27D	MW-28D	MW-29
3/12/2019				<0.005	<0.005
3/13/2019		<0.005	<0.005		
3/14/2019	0.0019 (J)				
4/2/2019				<0.005	<0.005
4/3/2019	<0.005	<0.005			
4/4/2019			0.0002 (J)		
9/24/2019					<0.005
9/26/2019		<0.005	<0.005	<0.005	
9/27/2019	0.0011 (J)				
3/2/2020					<0.005
3/3/2020	0.001 (J)				
3/4/2020		0.0006 (J)	0.00069 (J)	<0.005	
3/26/2020	0.00075 (J)				
3/27/2020				<0.005	
3/30/2020					0.00037 (J)
3/31/2020		<0.005			
4/2/2020			<0.005		
9/16/2020					<0.005
9/17/2020		<0.005			
9/18/2020	<0.005		<0.005		
9/21/2020				<0.005	
2/10/2021				0.0011 (J)	
2/12/2021	<0.005				
2/15/2021					<0.005
2/16/2021		0.0008 (J)	0.001 (J)		
3/12/2021			<0.005		
3/15/2021				<0.005	<0.005
3/16/2021	<0.005				
3/17/2021		<0.005			
8/16/2021					<0.005
8/17/2021		<0.005	<0.005		
8/18/2021				<0.005	
8/19/2021	<0.005				
2/9/2022	<0.005	0.0017 (J)			
2/10/2022			<0.005	<0.005	<0.005
8/3/2022			<0.005		<0.005
8/4/2022	<0.005	<0.005		<0.005	
1/26/2023	<0.005	<0.005		<0.005	<0.005
1/27/2023			<0.005		
8/10/2023	<0.005				<0.005
8/11/2023		<0.005		<0.005	
8/12/2023			<0.005		
2/14/2024				<0.005	<0.005
2/15/2024	<0.005	<0.005			
2/16/2024			<0.005		
8/7/2024	<0.005				
8/8/2024		<0.005	<0.005	<0.005	<0.005
2/13/2025	<0.005				
2/14/2025		<0.005			
2/15/2025			<0.005		
2/16/2025				<0.005	<0.005
Mean	0.004047	0.004256	0.004181	0.004756	0.004711

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 4/22/2025 5:23 PM View: Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-25D	MW-26D	MW-27D	MW-28D	MW-29
Std. Dev.	0.001719	0.001613	0.001768	0.000975	0.001157
Upper Lim.	0.005	0.005	0.005	0.005	0.005
Lower Lim.	0.0011	0.0017	0.001	0.0011	0.00037

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 4/22/2025 5:23 PM View: Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-7	HGWC-8	HGWC-9	HGWC-10	HGWC-11
5/20/2016	0.0687	0.0808			
5/23/2016			0.117	0.0877	0.0466
7/12/2016	0.0731	0.083	0.13	0.0926	0.0616
9/1/2016	0.0747	0.0829	0.13	0.0994	0.0497
10/20/2016	0.072	0.0811	0.0806		
10/24/2016				0.101	0.0794
12/6/2016	0.0752	0.0845	0.128		
12/7/2016				0.107	0.1
1/25/2017	0.0747	0.078			
1/26/2017			0.142	0.0538	0.0696
3/21/2017	0.0722	0.0791			
3/22/2017			0.122	0.0962	0.0346
5/23/2017	0.0794	0.0846	0.127		
5/24/2017				0.0996	0.0437
4/3/2018	0.075	0.065	0.1		
4/4/2018				0.084	0.029
6/5/2018	0.071			0.086	0.039
6/6/2018		0.063	0.11		
10/2/2018	0.078	0.061	0.11	0.076	
10/3/2018					0.033
3/12/2019		0.062			
3/13/2019	0.083		0.1	0.044	0.024
4/2/2019	0.072				
4/3/2019		0.066	0.12	0.076	0.023
9/24/2019		0.053			
9/25/2019	0.061				
9/27/2019			0.11	0.078	0.033
3/3/2020		0.052		0.048	0.022
3/4/2020	0.068		0.11		
3/27/2020	0.059	0.059			
3/31/2020			0.11		0.026
4/1/2020				0.058	
9/16/2020	0.068	0.06		0.068	
9/17/2020			0.11		
9/18/2020					0.043
2/10/2021	0.069				
2/12/2021					0.039
2/15/2021				0.06	
2/16/2021		0.069	0.11		
3/12/2021				0.058	
3/15/2021	0.074	0.063			
3/16/2021			0.11		0.035
8/16/2021	0.068				
8/17/2021			0.095	0.055	
8/18/2021		0.062			0.04
2/9/2022			0.096	0.042	0.042
2/10/2022	0.063	0.056			
8/3/2022		0.06		0.069	0.041
8/4/2022			0.091		
8/11/2022	0.071				
1/26/2023			0.069		0.031
1/27/2023	0.065			0.041	

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 4/22/2025 5:23 PM View: Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-7	HGWC-8	HGWC-9	HGWC-10	HGWC-11
2/1/2023		0.058			
8/10/2023				0.045	0.027
8/11/2023			0.068		
8/12/2023	0.06	0.052			
2/14/2024	0.067	0.048			
2/15/2024			0.054	0.048	0.037
8/7/2024	0.082	0.053	0.054	0.059	0.029
2/13/2025					0.042
2/14/2025				0.049	
2/15/2025		0.048	0.065		
2/16/2025	0.092				
Mean	0.0717	0.06533	0.1025	0.06968	0.04149
Std. Dev.	0.007357	0.01203	0.02387	0.02103	0.01789
Upper Lim.	0.07521	0.07107	0.1139	0.07971	0.04724
Lower Lim.	0.06819	0.0596	0.09115	0.05964	0.03267

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 4/22/2025 5:23 PM View: Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-12	HGWC-13	MW-5	MW-6	MW-7
5/23/2016	0.133	0.0779			
7/12/2016	0.135	0.0697			
9/1/2016	0.123	0.07			
10/24/2016	0.135	0.0882			
12/7/2016	0.13	0.0798			
1/26/2017	0.127	0.0738			
3/22/2017	0.112	0.0755			
5/24/2017	0.106	0.0627			
4/4/2018	0.083	0.099			
6/5/2018		0.13			
6/6/2018	0.09				
10/3/2018	0.087				
10/5/2018		0.076			
3/13/2019		0.1	0.056	0.1	0.063
3/14/2019	0.081				
4/3/2019	0.077		0.049	0.09	0.058
4/5/2019		0.079			
9/25/2019			0.046		
9/26/2019		0.11		0.089	0.066
9/27/2019	0.096				
3/2/2020			0.049		
3/3/2020	0.092			0.09	0.043
3/4/2020		0.1			
3/26/2020	0.089		0.046		
3/27/2020				0.086	
3/30/2020		0.08			0.05
9/17/2020			0.043		
9/18/2020	0.086				
9/21/2020		0.052		0.083	0.065
2/12/2021	0.09				
2/15/2021					0.048
2/16/2021			0.05	0.085	
2/22/2021		0.061			
3/15/2021					0.053
3/16/2021	0.084		0.046	0.081	
3/17/2021		0.056			
8/17/2021			0.045	0.081	0.057
8/18/2021	0.083				
8/19/2021		0.049			
2/8/2022					0.053
2/9/2022	0.075		0.042	0.074	
2/10/2022		0.053			
8/3/2022	0.086	0.07	0.058	0.084	
8/4/2022					0.064
1/26/2023	0.076	0.079	0.05	0.079	0.044
8/10/2023	0.075		0.048	0.066	0.059
8/12/2023		0.057			
2/14/2024				0.067	0.042
2/15/2024	0.068		0.039		
2/16/2024		0.056			
8/7/2024	0.063		0.052	0.066	
8/8/2024		0.05			0.062

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 4/22/2025 5:23 PM View: Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-12	HGWC-13	MW-5	MW-6	MW-7
2/13/2025	0.068				0.066
2/14/2025			0.052	0.08	
2/17/2025		0.046			
Mean	0.09444	0.0741	0.04819	0.08131	0.05581
Std. Dev.	0.02234	0.02052	0.004956	0.00945	0.008448
Upper Lim.	0.1038	0.08388	0.05141	0.08746	0.06131
Lower Lim.	0.08321	0.06431	0.04496	0.07516	0.05032

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 4/22/2025 5:23 PM View: Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-19	MW-20	MW-24D	MW-25D	MW-26D
3/13/2019		0.087	0.053		0.099
3/14/2019	0.06			0.44	
4/2/2019		0.08			
4/3/2019	0.05			0.38	0.12
4/8/2019			0.043		
9/25/2019		0.085			
9/26/2019			0.12		0.12
9/27/2019	0.068			0.39	
3/2/2020		0.099			
3/3/2020				0.42	
3/4/2020	0.069		0.081		0.17
3/26/2020	0.067			0.45	
3/27/2020		0.093			
3/30/2020			0.056		
3/31/2020					0.11
9/17/2020		0.096			0.099
9/18/2020				0.44	
9/21/2020	0.056		0.053		
2/11/2021		0.093			
2/12/2021	0.051			0.46	
2/16/2021			0.062		0.093
3/15/2021		0.096			
3/16/2021				0.51	
3/17/2021	0.049		0.055		0.094
8/17/2021		0.089			0.072
8/18/2021	0.045				
8/19/2021			0.048	0.58	
2/9/2022	0.042			0.6	0.066
2/10/2022		0.082	0.048		
8/3/2022			0.053		
8/4/2022	0.05	0.093		0.75	0.062
1/26/2023	0.039	0.097	0.054	0.65	0.065
8/10/2023	0.032	0.093		0.71	
8/11/2023					0.059
8/12/2023			0.053		
2/14/2024		0.095			
2/15/2024	0.03		0.034	0.69	0.058
8/7/2024		0.089		0.75	
8/8/2024	0.031		0.048		0.045
2/13/2025	0.035			0.77	
2/14/2025					0.053
2/15/2025		0.097			
2/16/2025			0.039		
Mean	0.04838	0.0915	0.05625	0.5619	0.08656
Std. Dev.	0.01314	0.005633	0.01988	0.1414	0.03295
Upper Lim.	0.05692	0.09517	0.062	0.6539	0.108
Lower Lim.	0.03983	0.08783	0.043	0.4699	0.06512

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 4/22/2025 5:23 PM View: Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-27D	MW-28D	MW-29
3/12/2019		0.82	0.089
3/13/2019	1.5		
4/2/2019		0.37	0.078
4/4/2019	1.2		
9/24/2019			0.081
9/26/2019	0.95	0.15	
3/2/2020			0.088
3/4/2020	0.95	0.77	
3/27/2020		0.64	
3/30/2020			0.08
4/2/2020	1		
9/16/2020			0.076
9/18/2020	1		
9/21/2020		0.18	
2/10/2021		0.26	
2/15/2021			0.081
2/16/2021	1		
3/12/2021	1.1		
3/15/2021		0.45	0.078
8/16/2021			0.074
8/17/2021	1.1		
8/18/2021		0.53	
2/10/2022	0.99	0.76	0.072
8/3/2022	0.94		0.081
8/4/2022		0.7	
1/26/2023		0.8	0.076
1/27/2023	0.94		
8/10/2023			0.066
8/11/2023		2.2	
8/12/2023	0.98		
10/31/2023		2.5	
2/14/2024		0.61	0.065
2/16/2024	0.65		
8/8/2024	0.63	2.6	0.058
2/15/2025	0.49		
2/16/2025		0.51	0.062
Mean	0.9638	0.8735	0.07531
Std. Dev.	0.234	0.776	0.008815
Upper Lim.	1.116	1.061	0.08105
Lower Lim.	0.8115	0.3831	0.06958

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 4/22/2025 5:23 PM View: Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-7	HGWC-8	HGWC-11	HGWC-13	MW-7
5/20/2016	<0.0005	<0.0005			
5/23/2016			<0.0005	<0.0005	
7/12/2016	<0.0005	<0.0005	<0.0005	<0.0005	
9/1/2016	<0.0005	<0.0005	<0.0005	<0.0005	
10/20/2016	<0.0005	<0.0005			
10/24/2016			<0.0005	<0.0005	
12/6/2016	<0.0005	<0.0005			
12/7/2016			<0.0005	<0.0005	
1/25/2017	<0.0005	<0.0005			
1/26/2017			<0.0005	<0.0005	
3/21/2017	<0.0005	<0.0005			
3/22/2017			9E-05 (J)	<0.0005	
5/23/2017	<0.0005	<0.0005			
5/24/2017			<0.0005	<0.0005	
4/3/2018	<0.0005	<0.0005			
4/4/2018			<0.0005	<0.0005	
3/12/2019		<0.0005			
3/13/2019	<0.0005		0.0001 (J)	6.2E-05 (J)	<0.0005
4/2/2019	<0.0005				
4/3/2019		7.4E-05 (J)	0.00017 (J)		5.1E-05 (J)
4/5/2019				<0.0005	
9/24/2019		<0.0005			
9/25/2019	<0.0005				
9/26/2019				0.00011 (J)	<0.0005
9/27/2019			8.6E-05 (J)		
3/3/2020		<0.0005	0.00012 (J)		<0.0005
3/4/2020	7.7E-05 (J)			9.3E-05 (J)	
3/27/2020	<0.0005	<0.0005			
3/30/2020				9.9E-05 (J)	<0.0005
3/31/2020			0.00015 (J)		
9/16/2020	<0.0005	0.0001 (J)			
9/18/2020			<0.0005		
9/21/2020				0.00011 (J)	<0.0005
2/10/2021	8.1E-05 (J)				
2/12/2021			<0.0005		
2/15/2021					<0.0005
2/16/2021		7.1E-05 (J)			
2/22/2021				9.7E-05 (J)	
3/15/2021	0.00019 (J)	7.8E-05 (J)			<0.0005
3/16/2021			8.1E-05 (J)		
3/17/2021				9E-05 (J)	
8/16/2021	<0.0005				
8/17/2021					<0.0005
8/18/2021		8.7E-05 (J)	<0.0005		
8/19/2021				7.3E-05 (J)	
2/8/2022					<0.0005
2/9/2022			<0.0005		
2/10/2022	<0.0005	7.1E-05 (J)		<0.0005	
8/3/2022		5.6E-05 (J)	<0.0005	<0.0005	
8/4/2022					<0.0005
8/11/2022	<0.0005				
1/26/2023			<0.0005	9.9E-05 (J)	<0.0005

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 4/22/2025 5:23 PM View: Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-7	HGWC-8	HGWC-11	HGWC-13	MW-7
1/27/2023	<0.0005				
2/1/2023		5.6E-05 (J)			
8/10/2023			6.9E-05 (J)		<0.0005
8/12/2023	<0.0005	<0.0005		0.0001 (J)	
2/14/2024	<0.0005	<0.0005			<0.0005
2/15/2024			<0.0005		
2/16/2024				<0.0005	
8/7/2024	<0.0005	<0.0005	<0.0005		
8/8/2024				<0.0005	<0.0005
2/13/2025			<0.0005		<0.0005
2/15/2025		0.00017 (J)			
2/16/2025	<0.0005				
2/17/2025				<0.0005	
Mean	0.0004539	0.0003505	0.0003746	0.0003373	0.0004719
Std. Dev.	0.0001287	0.0002044	0.0001875	0.0002036	0.0001123
Upper Lim.	0.0005	0.0005	0.0005	0.0005	0.0005
Lower Lim.	0.00019	8.7E-05	0.00015	9.9E-05	5.1E-05

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 4/22/2025 5:23 PM View: Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-19	MW-28D
3/12/2019		<0.0005
3/14/2019	<0.0005	
4/2/2019		<0.0005
4/3/2019	<0.0005	
9/26/2019		<0.0005
9/27/2019	<0.0005	
3/4/2020	<0.0005	0.00014 (J)
3/26/2020	<0.0005	
3/27/2020		<0.0005
9/21/2020	<0.0005	<0.0005
2/10/2021		5.4E-05 (J)
2/12/2021	<0.0005	
3/15/2021		4.8E-05 (J)
3/17/2021	<0.0005	
8/18/2021	5.8E-05 (J)	<0.0005
2/9/2022	<0.0005	
2/10/2022		<0.0005
8/4/2022	<0.0005	<0.0005
1/26/2023	<0.0005	<0.0005
8/10/2023	<0.0005	
8/11/2023		<0.0005
2/14/2024		<0.0005
2/15/2024	<0.0005	
8/8/2024	<0.0005	<0.0005
2/13/2025	<0.0005	
2/16/2025		<0.0005
Mean	0.0004724	0.0004214
Std. Dev.	0.0001105	0.0001701
Upper Lim.	0.0005	0.0005
Lower Lim.	5.8E-05	0.00014

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 4/22/2025 5:23 PM View: Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-7	HGWC-8	HGWC-9	HGWC-10	HGWC-11
5/20/2016	<0.0005	0.00024 (J)			
5/23/2016			<0.0005	0.000115 (J)	<0.0005
7/12/2016	<0.0005	0.0002 (J)	<0.0005	<0.0005	<0.0005
9/1/2016	<0.0005	0.0001 (J)	<0.0005	0.0001 (J)	<0.0005
10/20/2016	<0.0005	0.0001 (J)	0.0002 (J)		
10/24/2016				0.0001 (J)	<0.0005
12/6/2016	0.0002 (J)	0.0017	0.0001 (J)		
12/7/2016				0.0001 (J)	0.0001 (J)
1/25/2017	0.0002 (J)	0.0002 (J)			
1/26/2017			<0.0005	<0.0005	<0.0005
3/21/2017	0.0002 (J)	0.0002 (J)			
3/22/2017			7E-05 (J)	0.0001 (J)	0.0001 (J)
5/23/2017	0.0001 (J)	0.0003 (J)	<0.0005		
5/24/2017				0.0002 (J)	<0.0005
4/3/2018	<0.0005	<0.001	<0.0005		
4/4/2018				<0.0005	<0.0005
3/12/2019		0.0002 (J)			
3/13/2019	<0.0005		<0.0005	<0.0005	<0.0005
4/2/2019	<0.0005				
4/3/2019		0.00032 (J)	<0.0005	0.0001 (J)	9.6E-05 (J)
9/24/2019		0.0002 (J)			
9/25/2019	<0.0005				
9/27/2019			<0.0005	<0.0005	<0.0005
3/3/2020		0.00017 (J)		<0.0005	<0.0005
3/4/2020	<0.0005		<0.0005		
3/27/2020	<0.0005	0.00014 (J)			
3/31/2020			<0.0005		<0.0005
4/1/2020				<0.0005	
9/16/2020	<0.0005	0.00023 (J)		<0.0005	
9/17/2020			<0.0005		
9/18/2020					<0.0005
2/10/2021	<0.0005				
2/12/2021					<0.0005
2/15/2021				<0.0005	
2/16/2021		0.00037 (J)	<0.0005		
3/12/2021				<0.0005	
3/15/2021	<0.0005	0.00017 (J)			
3/16/2021			<0.0005		<0.0005
8/16/2021	<0.0005				
8/17/2021			<0.0005	<0.0005	
8/18/2021		0.0002 (J)			<0.0005
2/9/2022			<0.0005	<0.0005	<0.0005
2/10/2022	<0.0005	0.00029 (J)			
8/3/2022		0.00017 (J)		<0.0005	<0.0005
8/4/2022			<0.0005		
8/11/2022	<0.0005				
1/26/2023			<0.0005		<0.0005
1/27/2023	0.00019 (J)			<0.0005	
2/1/2023		0.00014 (J)			
8/10/2023				<0.0005	<0.0005
8/11/2023			<0.0005		
8/12/2023	<0.0005	0.00044 (J)			

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 4/22/2025 5:23 PM View: Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-7	HGWC-8	HGWC-9	HGWC-10	HGWC-11
2/14/2024	<0.0005	0.00025 (J)			
2/15/2024			<0.0005	<0.0005	<0.0005
8/7/2024	<0.0005	0.0014	<0.0005	<0.0005	<0.0005
2/13/2025					<0.0005
2/14/2025				<0.0005	
2/15/2025		0.00022 (J)	<0.0005		
2/16/2025	<0.0005				
Mean	0.0004356	0.000338	0.0004548	0.0003926	0.0004518
Std. Dev.	0.0001327	0.0003796	0.0001265	0.0001768	0.0001331
Upper Lim.	0.0005	0.0003	0.0005	0.0005	0.0005
Lower Lim.	0.0002	0.00017	0.0002	0.0002	0.0001

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 4/22/2025 5:23 PM View: Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-12	MW-19	MW-29
5/23/2016	<0.0005		
7/12/2016	<0.0005		
9/1/2016	<0.0005		
10/24/2016	<0.0005		
12/7/2016	0.0002 (J)		
1/26/2017	<0.0005		
3/22/2017	0.0003 (J)		
5/24/2017	9E-05 (J)		
4/4/2018	<0.0005		
3/12/2019			<0.0005
3/14/2019	<0.0005	<0.0005	
4/2/2019			<0.0005
4/3/2019	<0.0005	<0.0005	
9/24/2019			<0.0005
9/27/2019	<0.0005	0.00013 (J)	
3/2/2020			<0.0005
3/3/2020	0.00015 (J)		
3/4/2020		0.00026 (J)	
3/26/2020	<0.0005	0.00019 (J)	
3/30/2020			<0.0005
9/16/2020			<0.0005
9/18/2020	<0.0005		
9/21/2020		0.00018 (J)	
2/12/2021	<0.0005	0.0002 (J)	
2/15/2021			<0.0005
3/15/2021			<0.0005
3/16/2021	<0.0005		
3/17/2021		0.00016 (J)	
8/16/2021			<0.0005
8/18/2021	<0.0005	0.00027 (J)	
2/9/2022	<0.0005	0.0011	
2/10/2022			<0.0005
8/3/2022	<0.0005		<0.0005
8/4/2022		0.00022 (J)	
1/26/2023	<0.0005	<0.0005	<0.0005
8/10/2023	<0.0005	0.00018 (J)	<0.0005
2/14/2024			0.00053
2/15/2024	<0.0005	<0.0005	
8/7/2024	<0.0005		
8/8/2024		0.00017 (J)	0.00019 (J)
2/13/2025	<0.0005	<0.0005	
2/16/2025			0.00039 (J)
Mean	0.0004496	0.0003475	0.0004756
Std. Dev.	0.000122	0.0002489	8.148E-05
Upper Lim.	0.0005	0.0002874	0.00053
Lower Lim.	0.0003	0.0001543	0.00039

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 4/22/2025 5:23 PM View: Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-7	HGWC-8	HGWC-9	HGWC-10	HGWC-11
5/20/2016	<0.005	<0.005			
5/23/2016			<0.005	<0.005	<0.005
7/12/2016	<0.005	<0.005	<0.005	<0.005	<0.005
9/1/2016	<0.005	<0.005	<0.005	<0.005	<0.005
10/20/2016	<0.005	<0.005	<0.005		
10/24/2016				<0.005	<0.005
12/6/2016	<0.005	<0.005	<0.005		
12/7/2016				<0.005	<0.005
1/25/2017	<0.005	<0.005			
1/26/2017			<0.005	<0.005	<0.005
3/21/2017	<0.005	0.0005 (J)			
3/22/2017			<0.005	<0.005	0.0003 (J)
5/23/2017	<0.005	<0.005	<0.005		
5/24/2017				<0.005	<0.005
4/3/2018	<0.005	<0.005	<0.005		
4/4/2018				<0.005	<0.005
3/12/2019		<0.005			
3/13/2019	<0.005		<0.005	<0.005	<0.005
4/2/2019	<0.005				
4/3/2019		<0.005	<0.005	0.02	<0.005
9/24/2019		<0.005			
9/25/2019	0.071				
9/27/2019			<0.005	<0.005	<0.005
3/3/2020		0.0007 (J)		<0.005	0.00061 (J)
3/4/2020	0.0016 (J)		<0.005		
3/27/2020	0.0004 (J)	<0.005			
3/31/2020			0.00052 (J)		<0.005
4/1/2020				<0.005	
9/16/2020	0.00074 (J)	0.0015 (J)		<0.005	
9/17/2020			<0.005		
9/18/2020					<0.005
2/10/2021	0.0014 (J)				
2/12/2021					<0.005
2/15/2021				<0.005	
2/16/2021		<0.005	0.00067 (J)		
3/12/2021				<0.005	
3/15/2021	0.0021 (J)	0.00082 (J)			
3/16/2021			<0.005		<0.005
8/16/2021	<0.005				
8/17/2021			<0.005	<0.005	
8/18/2021		<0.005			<0.005
2/9/2022			0.0011 (J)	0.0011 (J)	<0.005
2/10/2022	<0.005	<0.005			
8/3/2022		<0.005		<0.005	<0.005
8/4/2022			<0.005		
8/11/2022	<0.005				
1/26/2023			0.0013 (J)		0.0012 (J)
1/27/2023	0.0014 (J)			0.0012 (J)	
2/1/2023		<0.005			
8/10/2023				<0.005	<0.005
8/11/2023			<0.005		
8/12/2023	<0.005	<0.005			

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 4/22/2025 5:23 PM View: Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-7	HGWC-8	HGWC-9	HGWC-10	HGWC-11
2/14/2024	<0.005	<0.005			
2/15/2024			<0.005	<0.005	<0.005
8/7/2024	<0.005	<0.005	<0.005	<0.005	<0.005
2/13/2025					<0.005
2/14/2025				0.0014 (J)	
2/15/2025		<0.005	<0.005		
2/16/2025	<0.005				
Mean	0.006746	0.004341	0.004344	0.005148	0.004484
Std. Dev.	0.01349	0.001549	0.00154	0.003336	0.001431
Upper Lim.	0.005	0.005	0.005	0.005	0.005
Lower Lim.	0.0021	0.0015	0.0013	0.0014	0.0012

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 4/22/2025 5:23 PM View: Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-12	HGWC-13	MW-5	MW-6	MW-7
5/23/2016	<0.005	<0.005			
7/12/2016	<0.005	<0.005			
9/1/2016	<0.005	<0.005			
10/24/2016	<0.005	<0.005			
12/7/2016	<0.005	<0.005			
1/26/2017	<0.005	<0.005			
3/22/2017	0.0004 (J)	0.0004 (J)			
5/24/2017	<0.005	<0.005			
4/4/2018	<0.005	<0.005			
3/13/2019		<0.005	0.003 (J)	<0.005	<0.005
3/14/2019	0.0025 (J)				
4/3/2019	<0.005		0.003 (J)	<0.005	0.0023 (J)
4/5/2019		<0.005			
9/25/2019			0.0052 (J)		
9/26/2019		<0.005		<0.005	0.0013 (J)
9/27/2019	<0.005				
3/2/2020			0.0042 (J)		
3/3/2020	<0.005			0.00044 (J)	0.0015 (J)
3/4/2020		<0.005			
3/26/2020	<0.005		0.0044 (J)		
3/27/2020				0.00059 (J)	
3/30/2020		0.00059 (J)			0.0021 (J)
9/17/2020			0.0021 (J)		
9/18/2020	0.00091 (J)				
9/21/2020		0.00056 (J)		<0.005	0.0017 (J)
2/12/2021	<0.005				
2/15/2021					0.0015 (J)
2/16/2021			0.0032 (J)	<0.005	
2/22/2021		<0.005			
3/15/2021					0.0018 (J)
3/16/2021	<0.005		0.0024 (J)	<0.005	
3/17/2021		<0.005			
8/17/2021			0.0018 (J)	<0.005	<0.005
8/18/2021	<0.005				
8/19/2021		<0.005			
2/8/2022					0.0016 (J)
2/9/2022	<0.005		0.0031 (J)	<0.005	
2/10/2022		<0.005			
8/3/2022	<0.005	<0.005	0.0015 (J)	<0.005	
8/4/2022					0.002 (J)
1/26/2023	<0.005	<0.005	0.0032 (J)	0.0014 (J)	0.0017 (J)
8/10/2023	<0.005		0.002 (J)	<0.005	0.0015 (J)
8/12/2023		<0.005			
2/14/2024				<0.005	<0.005
2/15/2024	<0.005		0.0029 (J)		
2/16/2024		<0.005			
8/7/2024	<0.005		<0.005	<0.005	
8/8/2024		<0.005			<0.005
2/13/2025	<0.005				0.0016 (J)
2/14/2025			0.0023 (J)	<0.005	
2/17/2025		<0.005			
Mean	0.004552	0.004462	0.002925	0.004214	0.002537

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 4/22/2025 5:23 PM View: Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-12	HGWC-13	MW-5	MW-6	MW-7
Std. Dev.	0.001277	0.001487	0.000995	0.0017	0.001489
Upper Lim.	0.005	0.005	0.003572	0.005	0.005
Lower Lim.	0.0025	0.00059	0.002278	0.0014	0.0015

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 4/22/2025 5:23 PM View: Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-19	MW-20	MW-24D	MW-25D	MW-26D
3/13/2019		<0.005	<0.005		<0.005
3/14/2019	<0.005			<0.005	
4/2/2019		<0.005			
4/3/2019	<0.005			<0.005	<0.005
4/8/2019			<0.005		
9/25/2019		<0.005			
9/26/2019			0.00042 (J)		0.00076 (J)
9/27/2019	<0.005			<0.005	
3/2/2020		0.00071 (J)			
3/3/2020				<0.005	
3/4/2020	0.00066 (J)		<0.005		0.0028 (J)
3/26/2020	0.00047 (J)			0.00061 (J)	
3/27/2020		0.00051 (J)			
3/30/2020			<0.005		
3/31/2020					0.001 (J)
9/17/2020		<0.005			<0.005
9/18/2020				<0.005	
9/21/2020	0.0014 (J)		<0.005		
2/11/2021		<0.005			
2/12/2021	0.00059 (J)			<0.005	
2/16/2021			<0.005		0.001 (J)
3/15/2021		0.00068 (J)			
3/16/2021				<0.005	
3/17/2021	0.0022 (J)		0.0017 (J)		0.0015 (J)
8/17/2021		<0.005			<0.005
8/18/2021	<0.005				
8/19/2021			<0.005	<0.005	
2/9/2022	<0.005			<0.005	<0.005
2/10/2022		<0.005	<0.005		
8/3/2022			<0.005		
8/4/2022	<0.005	<0.005		<0.005	<0.005
1/26/2023	0.0011 (J)	<0.005	<0.005	0.0012 (J)	<0.005
8/10/2023	<0.005	<0.005		<0.005	
8/11/2023					<0.005
8/12/2023			<0.005		
2/14/2024		<0.005			
2/15/2024	<0.005		<0.005	<0.005	<0.005
8/7/2024		<0.005		<0.005	
8/8/2024	<0.005		<0.005		<0.005
2/13/2025	<0.005			<0.005	
2/14/2025					<0.005
2/15/2025		<0.005			
2/16/2025			<0.005		
Mean	0.003526	0.004181	0.004507	0.004488	0.003879
Std. Dev.	0.002001	0.001761	0.001366	0.001403	0.001769
Upper Lim.	0.005	0.005	0.005	0.005	0.005
Lower Lim.	0.00066	0.00071	0.0017	0.0012	0.0015

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 4/22/2025 5:23 PM View: Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-27D	MW-28D	MW-29
3/12/2019		<0.005	<0.005
3/13/2019	<0.005		
4/2/2019		<0.005	<0.005
4/4/2019	<0.005		
9/24/2019			<0.005
9/26/2019	<0.005	0.00081 (J)	
3/2/2020			<0.005
3/4/2020	<0.005	0.0027 (J)	
3/27/2020		<0.005	
3/30/2020			0.001 (J)
4/2/2020	<0.005		
9/16/2020			<0.005
9/18/2020	0.0007 (J)		
9/21/2020		0.00085 (J)	
2/10/2021		0.0014 (J)	
2/15/2021			<0.005
2/16/2021	0.00082 (J)		
3/12/2021	<0.005		
3/15/2021		0.00078 (J)	<0.005
8/16/2021			<0.005
8/17/2021	<0.005		
8/18/2021		<0.005	
2/10/2022	<0.005	0.0011 (J)	<0.005
8/3/2022	<0.005		<0.005
8/4/2022		<0.005	
1/26/2023		<0.005	<0.005
1/27/2023	<0.005		
8/10/2023			<0.005
8/11/2023		<0.005	
8/12/2023	<0.005		
2/14/2024		<0.005	<0.005
2/16/2024	<0.005		
8/8/2024	<0.005	<0.005	<0.005
2/15/2025	<0.005		
2/16/2025		<0.005	<0.005
Mean	0.00447	0.003602	0.00475
Std. Dev.	0.001448	0.001911	0.001
Upper Lim.	0.005	0.005	0.005
Lower Lim.	0.00082	0.00085	0.001

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 4/22/2025 5:23 PM View: Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-7	HGWC-8	HGWC-9	HGWC-10	HGWC-11
5/20/2016	<0.005	0.00207 (J)			
5/23/2016			<0.005	<0.005	<0.005
7/12/2016	0.0003 (J)	0.0019 (J)	0.0006 (J)	0.0006 (J)	0.0021 (J)
9/1/2016	<0.005	0.0023 (J)	0.0007 (J)	0.0007 (J)	0.0025 (J)
10/20/2016	0.0008 (J)	0.002 (J)	0.002 (J)		
10/24/2016				0.0009 (J)	0.0032 (J)
12/6/2016	0.0009 (J)	0.0026 (J)	0.0011 (J)		
12/7/2016				0.0012 (J)	0.003 (J)
1/25/2017	0.0005 (J)	0.002 (J)			
1/26/2017			0.0006 (J)	<0.005	0.0014 (J)
3/21/2017	0.0005 (J)	0.0023 (J)			
3/22/2017			0.0005 (J)	0.0006 (J)	0.0014 (J)
5/23/2017	0.0005 (J)	0.0023 (J)	0.0006 (J)		
5/24/2017				0.0006 (J)	0.0008 (J)
4/3/2018	<0.005	<0.025	<0.005		
4/4/2018				<0.005	<0.005
6/5/2018	0.00074 (J)			<0.005	0.00061 (J)
6/6/2018		0.0017 (J)	0.00056 (J)		
10/2/2018	0.00091 (J)	0.0016 (J)	<0.005	<0.005	
10/3/2018					<0.005
3/12/2019		0.002 (J)			
3/13/2019	0.00067 (J)		0.00065 (J)	<0.005	0.00098 (J)
4/2/2019	0.00069 (J)				
4/3/2019		0.0019 (J)	0.00069 (J)	<0.005	0.0018 (J)
9/24/2019		0.0015 (J)			
9/25/2019	0.0026 (J)				
9/27/2019			0.00057 (J)	<0.005	0.00071 (J)
3/3/2020		0.002 (J)		<0.005	0.00087 (J)
3/4/2020	0.0011 (J)		0.00053 (J)		
3/27/2020	0.00074 (J)	0.0018 (J)			
3/31/2020			0.00051 (J)		0.0014 (J)
4/1/2020				<0.005	
9/16/2020	0.00065 (J)	0.0019 (J)		<0.005	
9/17/2020			0.0007 (J)		
9/18/2020					<0.005
2/10/2021	0.00081 (J)				
2/12/2021					<0.005
2/15/2021				<0.005	
2/16/2021		0.002 (J)	0.00061 (J)		
3/12/2021				<0.005	
3/15/2021	0.0014 (J)	0.0019 (J)			
3/16/2021			0.00069 (J)		<0.005
8/16/2021	0.0012 (J)				
8/17/2021			0.00045 (J)	<0.005	
8/18/2021		0.002 (J)			<0.005
2/9/2022			0.00051 (J)	<0.005	<0.005
2/10/2022	0.0011 (J)	0.0021 (J)			
8/3/2022		0.0024 (J)		<0.005	<0.005
8/4/2022			0.00046 (J)		
8/11/2022	0.0018 (J)				
1/26/2023			0.00068 (J)		<0.005
1/27/2023	0.00067 (J)			<0.005	

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 4/22/2025 5:23 PM View: Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-7	HGWC-8	HGWC-9	HGWC-10	HGWC-11
2/1/2023		<0.025			
8/10/2023				<0.005	<0.005
8/11/2023			0.00057 (J)		
8/12/2023	0.00061 (J)	0.0016 (J)			
2/14/2024	0.00084 (J)	0.0016 (J)			
2/15/2024			0.001 (J)	<0.005	<0.005
8/7/2024	0.00043 (J)	0.0016 (J)	0.00066 (J)	<0.005	<0.005
2/13/2025					<0.005
2/14/2025				<0.005	
2/15/2025		0.0021 (J)	<0.005		
2/16/2025	<0.005				
Mean	0.001128	0.002747	0.0009607	0.004059	0.003362
Std. Dev.	0.0007438	0.002824	0.0007185	0.001797	0.00183
Upper Lim.	0.001252	0.0021	0.001	0.005	0.005
Lower Lim.	0.0007034	0.0018	0.00056	0.0012	0.0014

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 4/22/2025 5:23 PM View: Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-12	HGWC-13	MW-6	MW-19	MW-20
5/23/2016	<0.01	0.00361 (J)			
7/12/2016	0.0018 (J)	0.0032 (J)			
9/1/2016	0.0016 (J)	0.0033 (J)			
10/24/2016	0.0017 (J)	0.004 (J)			
12/7/2016	0.0021 (J)	0.0034 (J)			
1/26/2017	0.0016 (J)	0.0024 (J)			
3/22/2017	0.0018 (J)	0.0026 (J)			
5/24/2017	0.0015 (J)	0.0022 (J)			
4/4/2018	<0.01	<0.01			
6/5/2018		0.0023 (J)			
6/6/2018	0.0012 (J)				
10/3/2018	0.0011 (J)				
10/5/2018		0.0015 (J)			
3/13/2019		0.0022 (J)	0.00055 (J)		0.0011 (J)
3/14/2019	0.0011 (J)			0.025	
4/2/2019					<0.005
4/3/2019	0.0011 (J)		<0.005	0.036	
4/5/2019		0.0017 (J)			
9/25/2019					<0.005
9/26/2019		0.0042 (J)	0.00036 (J)		
9/27/2019	0.0012 (J)			0.033	
3/2/2020					<0.005
3/3/2020	0.0013 (J)		0.00094 (J)		
3/4/2020		0.0066		0.048	
3/26/2020	0.0012 (J)			0.045	
3/27/2020			0.00059 (J)		<0.005
3/30/2020		0.0053			
9/17/2020					<0.005
9/18/2020	0.0014 (J)				
9/21/2020		0.0032 (J)	0.00041 (J)	0.032	
2/11/2021					<0.005
2/12/2021	0.0012 (J)			0.037	
2/16/2021			0.00045 (J)		
2/22/2021		0.003 (J)			
3/15/2021					<0.005
3/16/2021	0.0012 (J)		0.00042 (J)		
3/17/2021		0.0029 (J)		0.037	
8/17/2021			<0.005		<0.005
8/18/2021	0.0012 (J)			0.039	
8/19/2021		0.0024 (J)			
2/9/2022	0.0013 (J)		0.00059 (J)	0.03	
2/10/2022		0.0026 (J)			<0.005
8/3/2022	0.0012 (J)	0.0041 (J)	0.00041 (J)		
8/4/2022				0.043	<0.005
1/26/2023	0.0012 (J)	0.012	0.00044 (J)	0.022	<0.005
8/10/2023	0.0012 (J)		0.00041 (J)	0.027	<0.005
8/12/2023		0.018			
2/14/2024			0.00035 (J)		<0.005
2/15/2024	0.0013 (J)			0.011	
2/16/2024		0.023			
8/7/2024	0.0011 (J)		0.00049 (J)		<0.005
8/8/2024		0.016		0.02	

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 4/22/2025 5:23 PM View: Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-12	HGWC-13	MW-6	MW-19	MW-20
2/13/2025	0.0015 (J)			0.017	
2/14/2025			<0.005		
2/15/2025					<0.005
2/17/2025		0.0087			
Mean	0.001633	0.005534	0.001338	0.03138	0.004756
Std. Dev.	0.001004	0.005433	0.001822	0.01047	0.000975
Upper Lim.	0.0016	0.0053	0.00094	0.03819	0.005
Lower Lim.	0.0012	0.0024	0.00041	0.02456	0.0011

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 4/22/2025 5:23 PM View: Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-24D	MW-26D	MW-27D	MW-28D	MW-29
3/12/2019				<0.005	0.00057 (J)
3/13/2019	<0.005	<0.005	<0.005		
4/2/2019				<0.005	0.00084 (J)
4/3/2019		<0.005			
4/4/2019			9.1E-05 (J)		
4/8/2019	0.00025 (J)				
9/24/2019					0.0015 (J)
9/26/2019	0.0011 (J)	0.00053 (J)	<0.005	<0.005	
3/2/2020					0.00067 (J)
3/4/2020	0.00056 (J)	<0.005	0.00045 (J)	0.00093 (J)	
3/27/2020				<0.005	
3/30/2020	<0.005				0.00063 (J)
3/31/2020		0.0003 (J)			
4/2/2020			<0.005		
9/16/2020					0.0013 (J)
9/17/2020		<0.005			
9/18/2020			<0.005		
9/21/2020	<0.005			<0.005	
2/10/2021				<0.005	
2/15/2021					0.00097 (J)
2/16/2021	<0.005	0.00045 (J)	0.0004 (J)		
3/12/2021			<0.005		
3/15/2021				<0.005	0.0011 (J)
3/17/2021	<0.005	0.00044 (J)			
8/16/2021					0.0014 (J)
8/17/2021		0.00045 (J)	<0.005		
8/18/2021				<0.005	
8/19/2021	<0.005				
2/9/2022		0.00059 (J)			
2/10/2022	<0.005		<0.005	<0.005	0.00089 (J)
8/3/2022	<0.005		<0.005		0.0012 (J)
8/4/2022		0.00048 (J)		<0.005	
1/26/2023	<0.005	0.00051 (J)		<0.005	0.00056 (J)
1/27/2023			<0.005		
8/10/2023					<0.005
8/11/2023		<0.005		<0.005	
8/12/2023	<0.005		<0.005		
2/14/2024				<0.005	0.00052 (J)
2/15/2024	<0.005	0.00054 (J)			
2/16/2024			<0.005		
8/8/2024	<0.005	0.00056 (J)	<0.005	<0.005	0.00078 (J)
2/14/2025		<0.005			
2/15/2025			<0.005		
2/16/2025	<0.005			<0.005	<0.005
Mean	0.004182	0.002178	0.004121	0.004746	0.001121
Std. Dev.	0.001766	0.002258	0.00189	0.001017	0.0006196
Upper Lim.	0.005	0.005	0.005	0.005	0.001442
Lower Lim.	0.0011	0.00045	0.00045	0.00093	0.0007252

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/22/2025 5:23 PM View: Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-7	HGWC-8	HGWC-9	HGWC-10	HGWC-11
5/20/2016	0.62	0.56			
5/23/2016			0.826	0.419	0.509
7/12/2016	0.283	0.636	0.511	0.855	0.784
9/1/2016	0.703	0.818	0.762	0.844	0.261
10/20/2016	1.97	1.04	1.17		
10/24/2016				0.917	1.42
12/6/2016	2	0.771	0.126		
12/7/2016				0.558	0.781
1/25/2017	1.06	0.859			
1/26/2017			0.515	0.922	0.842
3/21/2017	0.668	0.851			
3/22/2017			0.451	0.751	0.318
5/23/2017	0.621 (U)	0.705 (U)	0.924 (U)		
5/24/2017				0.725 (U)	0.687 (U)
4/3/2018	0.538	0.311	0.732		
4/4/2018				0.715	1.5
6/5/2018	0.985 (U)			0.718 (U)	0.549 (U)
6/6/2018		0.896 (U)	0.813 (U)		
10/2/2018	0.837 (U)	1.21	0.61 (U)	0.948	
10/3/2018					1.48
3/12/2019		0.544 (U)			
3/13/2019	0.403 (U)		1 (U)	1.19 (U)	0.584 (U)
4/2/2019	0.865 (U)				
4/3/2019		0.885 (U)	0.156 (U)	1.82 (U)	0.36 (U)
9/24/2019		1.3			
9/25/2019	0.884 (U)				
9/27/2019			0.428 (U)	1.16 (U)	1.78
3/3/2020		0.835 (U)		0.667 (U)	0.716 (U)
3/4/2020	0.624 (U)		1.03		
3/27/2020	0.485 (U)	1.04 (U)			
3/31/2020			1.2 (U)		1.3 (U)
4/1/2020				0.235 (U)	
9/16/2020	0.135 (U)	0.526 (U)		0 (U)	
9/17/2020			1.38 (U)		
9/18/2020					1.24 (U)
2/10/2021	0.281 (U)				
2/12/2021					1.1
2/15/2021				1.91	
2/16/2021		0.764 (U)	1.17 (U)		
3/12/2021				1.12 (U)	
3/15/2021	0.666 (U)	1.3 (U)			
3/16/2021			0.446 (U)		1.71
8/16/2021	0.143 (U)				
8/17/2021			0.771 (U)	0.595 (U)	
8/18/2021		1.02 (U)			0.919 (U)
2/9/2022			0.198 (U)	0.49 (U)	0.444 (U)
2/10/2022	0.175 (U)	0.945 (U)			
8/3/2022		0.455 (U)		0.454 (U)	0.823 (U)
8/4/2022			0.597 (U)		
8/11/2022	0.461 (U)				
1/26/2023			0.516 (U)		0.441 (U)
1/27/2023	0.45 (U)			1.2	

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/22/2025 5:23 PM View: Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-7	HGWC-8	HGWC-9	HGWC-10	HGWC-11
2/1/2023		0.241 (U)			
8/10/2023				0.831 (U)	0.273 (U)
8/11/2023			0.867 (U)		
8/12/2023	0.729 (U)	0.767 (U)			
2/14/2024	0.401 (U)	0.529 (U)			
2/15/2024			0.461 (U)	0.31 (U)	0.819 (U)
8/7/2024	0.611 (U)	0.556 (U)	0.502 (U)	0.268 (U)	0.874 (U)
2/13/2025					0.491 (U)
2/14/2025				0.372 (U)	
2/15/2025		0.363 (U)	0.324 (U)		
2/16/2025	0.349 (U)				
Mean	0.6647	0.7677	0.6847	0.7776	0.852
Std. Dev.	0.4531	0.2829	0.3341	0.4397	0.4458
Upper Lim.	0.8053	0.9026	0.844	0.9873	1.065
Lower Lim.	0.4295	0.6327	0.5253	0.5678	0.6394

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/22/2025 5:23 PM View: Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-12	HGWC-13	MW-5	MW-6	MW-7
5/23/2016	1.12	0.625			
7/12/2016	1.61	0.478			
9/1/2016	1.23	0.595			
10/24/2016	1.98	1.54			
12/7/2016	0.319	0.657			
1/26/2017	0.54	1.22			
3/22/2017	0.635	0.285			
5/24/2017	1.01	0.655 (U)			
4/4/2018	0.956	0.882 (U)			
6/5/2018		1.1 (U)			
6/6/2018	0.424 (U)				
10/3/2018	0.57 (U)				
10/5/2018		0.558 (U)			
3/13/2019		0.39 (U)	0.621 (U)	2.07	1.23
3/14/2019	0.992 (U)				
4/3/2019	0.734 (U)		0.932 (U)	0.872 (U)	1.05 (U)
4/5/2019		0.422 (U)			
9/25/2019			0.798 (U)		
9/26/2019		0.939 (U)		0.745 (U)	0.947 (U)
9/27/2019	0.958 (U)				
3/2/2020			0.964 (U)		
3/3/2020	0.971 (U)			0.757 (U)	1.15
3/4/2020		0.708 (U)			
3/26/2020	0.209 (U)		1.1		
3/27/2020				0.758 (U)	
3/30/2020		0.602 (U)			0.83 (U)
9/17/2020			0.618 (U)		
9/18/2020	0.916 (U)				
9/21/2020		1.53		0.796 (U)	1.55 (U)
2/12/2021	0.236 (U)				
2/15/2021					0.892 (U)
2/16/2021			0.466 (U)	0.198 (U)	
2/22/2021		1.02			
3/15/2021					0.386 (U)
3/16/2021	0.245 (U)		1.22	0.727 (U)	
3/17/2021		1.45 (U)			
8/17/2021			0.304 (U)	0.557 (U)	0.183 (U)
8/18/2021	0.919 (U)				
8/19/2021		0.764 (U)			
2/8/2022					0.417 (U)
2/9/2022	0.564 (U)		0.567 (U)	0.619 (U)	
2/10/2022		0.442 (U)			
8/3/2022	0.418 (U)	0.54 (U)	0.63 (U)	0.543 (U)	
8/4/2022					1.18 (U)
1/26/2023	0.877	0.719	0.909	0.493 (U)	0.318 (U)
8/10/2023	0.453 (U)		0.599 (U)	0.839 (U)	0.239 (U)
8/12/2023		0.58 (U)			
2/14/2024				0.441 (U)	0.089 (U)
2/15/2024	0.364 (U)		0.463 (U)		
2/16/2024		0.338 (U)			
8/7/2024	0.455 (U)		0.584 (U)	0.606 (U)	
8/8/2024		0.561 (U)			0.382 (U)

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/22/2025 5:23 PM View: Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-12	HGWC-13	MW-5	MW-6	MW-7
2/13/2025	0.725 (U)				0.593 (U)
2/14/2025			0.517 (U)	0.935 (U)	
2/17/2025		1.01 (U)			
Mean	0.7567	0.7633	0.7058	0.7473	0.7148
Std. Dev.	0.4213	0.3549	0.2539	0.3989	0.4443
Upper Lim.	0.9576	0.9326	0.871	0.9167	1.004
Lower Lim.	0.5557	0.594	0.5405	0.492	0.4257

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/22/2025 5:23 PM View: Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-19	MW-20	MW-24D	MW-25D	MW-26D
3/13/2019		0.538 (U)	0.311 (U)		0.627 (U)
3/14/2019	0.347 (U)			1.28 (U)	
4/2/2019		1.02 (U)			
4/3/2019	0.884 (U)			0.662 (U)	0.205 (U)
4/8/2019			0.573 (U)		
9/25/2019		1.35 (U)			
9/26/2019			0.878 (U)		0.912 (U)
9/27/2019	0.534 (U)			0.945 (U)	
3/2/2020		0.653 (U)			
3/3/2020				1.36	
3/4/2020	1.04		0.333 (U)		1.27 (U)
3/26/2020	1.1 (U)			0.793 (U)	
3/27/2020		0.1 (U)			
3/30/2020			0.107 (U)		
3/31/2020					1.65
9/17/2020		0.469 (U)			0.42 (U)
9/18/2020				1.17 (U)	
9/21/2020	1.36 (U)		1.23 (U)		
2/11/2021		0.334 (U)			
2/12/2021	0.764 (U)			1.17	
2/16/2021			0.156 (U)		0.505 (U)
3/15/2021		1.24 (U)			
3/16/2021				0.742 (U)	
3/17/2021	0.466 (U)		0.174 (U)		0.165 (U)
8/17/2021		0.709 (U)			0.0468 (U)
8/18/2021	0.642 (U)				
8/19/2021			0.227 (U)	0.935 (U)	
2/9/2022	0.245 (U)			0.754 (U)	0.0677 (U)
2/10/2022		0.32 (U)	0.178 (U)		
8/3/2022			0.263 (U)		
8/4/2022	0.509 (U)	1.05 (U)		1.65	0.0273 (U)
1/26/2023	0.333 (U)	0.561 (U)	0.0906 (U)	1.1	0.386 (U)
8/10/2023	0.437 (U)	0.469 (U)		0.972	
8/11/2023					0.55 (U)
8/12/2023			0.481 (U)		
2/14/2024		0.341 (U)			
2/15/2024	0.459 (U)		0.5 (U)	0.938	0.418 (U)
8/7/2024		0.54 (U)		1.38	
8/8/2024	0.44 (U)		0.338 (U)		0.524 (U)
2/13/2025	0.709 (U)			1.21	
2/14/2025					0.294 (U)
2/15/2025		1.21 (U)			
2/16/2025			0.271 (U)		
Mean	0.6418	0.6815	0.3819	1.066	0.5042
Std. Dev.	0.3139	0.3778	0.3035	0.2723	0.4463
Upper Lim.	0.8461	0.9273	0.5223	1.243	0.7146
Lower Lim.	0.4376	0.4357	0.1925	0.8891	0.1948

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/22/2025 5:23 PM View: Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-27D	MW-28D	MW-29
3/12/2019		0.926 (U)	1.37
3/13/2019	1.81		
4/2/2019		0.479 (U)	0.62 (U)
4/4/2019	1.33		
9/24/2019			0.675 (U)
9/26/2019	0.974 (U)	0.997 (U)	
3/2/2020			0.413 (U)
3/4/2020	1.12	1.31	
3/27/2020		1.59	
3/30/2020			0.885 (U)
4/2/2020	2.48		
9/16/2020			0.193 (U)
9/18/2020	1.13 (U)		
9/21/2020		1.39 (U)	
2/10/2021		0.201 (U)	
2/15/2021			1.17 (U)
2/16/2021	1.21		
3/12/2021	0.649 (U)		
3/15/2021		0.564 (U)	0.436 (U)
8/16/2021			0.208 (U)
8/17/2021	1.06 (U)		
8/18/2021		0.876 (U)	
2/10/2022	0.809 (U)	1.96 (U)	0.594 (U)
8/3/2022	0.685 (U)		0.581 (U)
8/4/2022		0.84 (U)	
1/26/2023		0.821	0.793 (U)
1/27/2023	1.1		
8/10/2023			0.244 (U)
8/11/2023		2.66	
8/12/2023	0.645 (U)		
2/14/2024		0.79 (U)	0.0655 (U)
2/16/2024	1.31		
8/8/2024	0.461 (U)	2.82	0.393 (U)
2/15/2025	0.666 (U)		
2/16/2025		1.03 (U)	1 (U)
Mean	1.09	1.203	0.6025
Std. Dev.	0.5032	0.737	0.3687
Upper Lim.	1.363	1.683	0.8424
Lower Lim.	0.7646	0.7239	0.3627

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 4/22/2025 5:23 PM View: Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-7	HGWC-8	HGWC-9	HGWC-10	HGWC-11
5/20/2016	0.0828 (J)	0.499			
5/23/2016			<0.3	0.0394 (J)	0.203 (J)
7/12/2016	0.2 (J)	0.67	0.24 (J)	0.15 (J)	0.44
9/1/2016	0.51	0.94	0.46	0.5	0.67
10/20/2016	0.4	0.56	0.56		
10/24/2016				0.06 (J)	0.26 (J)
12/6/2016	0.26 (J)	0.76	0.31		
12/7/2016				0.44	0.55
1/25/2017	0.24 (J)	1.1			
1/26/2017			0.004 (J)	0.29 (J)	0.27 (J)
3/21/2017	0.13 (J)	0.46			
3/22/2017			0.28 (J)	0.34	0.66
5/23/2017	0.11 (J)	0.65	0.29 (J)		
5/24/2017				0.13 (J)	0.35
10/3/2017	0.17 (J)	0.66	0.53	0.46	0.56
4/3/2018	<0.3	0.39	<0.3		
4/4/2018				<0.1	0.39
6/5/2018	0.099 (J)			<0.1	0.24 (J)
6/6/2018		0.46	0.12 (J)		
10/2/2018	<0.3	0.51	0.031 (J)	0.17 (J)	
10/3/2018					0.31
3/12/2019		0.58			
3/13/2019	0.12 (J)		0.14 (J)	0.17 (J)	0.51
4/2/2019	0.097 (J)				
4/3/2019		0.63	0.14 (J)	0.082 (J)	0.43
9/24/2019		0.49			
9/25/2019	0.1 (J)				
9/27/2019			0.26 (J)	0.17 (J)	0.42
3/3/2020		0.45		0.11 (J)	0.24 (J)
3/4/2020	0.077 (J)		0.08 (J)		
3/27/2020	0.059 (J)	0.46			
3/31/2020			0.074 (J)		0.19 (J)
4/1/2020				0.12 (J)	
6/16/2020		0.45			
6/17/2020	0.077 (J)				
9/16/2020	0.081 (J)	0.53		<0.1	
9/17/2020			0.1		
9/18/2020					0.15
2/10/2021	0.085 (J)				
2/12/2021					0.17
2/15/2021				0.08 (J)	
2/16/2021		0.47	0.096 (J)		
3/12/2021				0.054 (J)	
3/15/2021	0.086 (J)	0.51			
3/16/2021			0.098 (J)		0.21
8/16/2021	0.084 (J)				
8/17/2021			0.095 (J)	<0.1	
8/18/2021		0.41			0.21
2/9/2022			0.1	0.12	0.2
2/10/2022	0.083 (J)	0.42			
8/3/2022		0.44		0.13	0.22
8/4/2022			0.13		

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 4/22/2025 5:23 PM View: Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-7	HGWC-8	HGWC-9	HGWC-10	HGWC-11
8/11/2022	0.11				
1/26/2023			0.11		0.2
1/27/2023	0.1			0.16	
2/1/2023		0.4			
8/10/2023				0.05 (J)	0.15
8/11/2023			0.12		
8/12/2023	0.071 (J)	0.59			
2/14/2024	0.081 (J)	0.3			
2/15/2024			0.087 (J)	0.12	0.21
8/7/2024	0.074 (J)	0.37	0.084 (J)	0.075 (J)	0.11
2/13/2025					0.3 (M1)
2/14/2025				0.086 (J)	
2/15/2025		0.24	0.071 (J)		
2/16/2025	0.056 (J)				
Mean	0.136	0.531	0.1754	0.1538	0.3151
Std. Dev.	0.1027	0.1775	0.1429	0.131	0.1582
Upper Lim.	0.15	0.5967	0.2141	0.1638	0.3702
Lower Lim.	0.081	0.4454	0.09955	0.08216	0.2329

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 4/22/2025 5:23 PM View: Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-12	HGWC-13	MW-5	MW-6	MW-7
5/23/2016	0.212 (J)	0.2587 (J)			
7/12/2016	0.31	0.53			
9/1/2016	0.62	0.74			
10/24/2016	0.19 (J)	0.31			
12/7/2016	0.73	1			
1/26/2017	0.12 (J)	0.68			
3/22/2017	0.44	0.76			
5/24/2017	0.34	0.54			
10/3/2017	0.58	0.83			
4/4/2018	<0.3	0.65			
6/5/2018		0.47			
6/6/2018	0.21 (J)				
10/3/2018	0.15 (J)				
10/5/2018		0.77			
3/13/2019		0.78	0.1 (J)	0.19 (J)	0.069 (J)
3/14/2019	1.1				
4/3/2019	0.3 (J)		0.049 (J)	0.15 (J)	<0.1
4/5/2019		0.83			
9/25/2019			0.076 (J)		
9/26/2019		0.64		0.19 (J)	0.17 (J)
9/27/2019	0.26 (J)				
3/2/2020			0.065 (J)		
3/3/2020	0.21 (J)			0.062 (J)	<0.1
3/4/2020		0.37			
3/26/2020	0.17 (J)		0.082 (J)		
3/27/2020				<0.1	
3/30/2020		0.44			<0.1
9/17/2020			0.094 (J)		
9/18/2020	0.15				
9/21/2020		0.44		<0.1	<0.1
2/12/2021	0.19				
2/15/2021					<0.1
2/16/2021			0.051 (J)	0.059 (J)	
2/22/2021		0.55			
3/15/2021					<0.1
3/16/2021	0.2		<0.1	0.06 (J)	
3/17/2021		0.65			
8/17/2021			<0.1	0.055 (J)	<0.1
8/18/2021	0.15				
8/19/2021		0.53			
2/8/2022					<0.1
2/9/2022	0.2		0.056 (J)	0.059 (J)	
2/10/2022		0.53			
8/3/2022	0.21	0.55	0.094 (J)	0.085 (J)	
8/4/2022					0.078 (J)
1/26/2023	0.21	0.4	0.087 (J)	0.088 (J)	0.06 (J)
8/10/2023	0.17		0.066 (J)	0.053 (J)	<0.1
8/12/2023		0.32			
2/14/2024				0.076 (J)	0.053 (J)
2/15/2024	0.19		0.086 (J)		
2/16/2024		0.33			
8/7/2024	0.17		0.067 (J)	0.057 (J)	

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 4/22/2025 5:23 PM View: Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-12	HGWC-13	MW-5	MW-6	MW-7
8/8/2024		0.38			0.055 (J)
2/13/2025	0.24				0.09 (J)
2/14/2025			0.067 (J)	<0.1	
2/17/2025		0.4			
Mean	0.2919	0.56	0.07125	0.09275	0.09219
Std. Dev.	0.2194	0.1891	0.01753	0.04567	0.02745
Upper Lim.	0.3	0.6483	0.08265	0.15	0.17
Lower Lim.	0.17	0.4716	0.05985	0.057	0.06

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 4/22/2025 5:23 PM View: Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-19	MW-20	MW-24D	MW-25D	MW-26D
3/13/2019		0.072 (J)	0.074 (J)		0.052 (J)
3/14/2019	0.35			2.2	
4/2/2019		<0.1			
4/3/2019	0.19 (J)			1.6	0.044 (J)
4/8/2019			0.048 (J)		
9/25/2019		<0.1			
9/26/2019			0.18 (J)		0.19 (J)
9/27/2019	0.53			1.5	
3/2/2020		<0.1			
3/3/2020				1.4	
3/4/2020	0.096 (J)		0.051 (J)		0.052 (J)
3/26/2020	0.12 (J)			1.6	
3/27/2020		<0.1			
3/30/2020			0.064 (J)		
3/31/2020					<0.3
9/17/2020		<0.1			0.069 (J)
9/18/2020				1.6	
9/21/2020	0.17		<0.1		
2/11/2021		<0.1			
2/12/2021	0.16			1.6	
2/16/2021			<0.1		0.071 (J)
3/15/2021		<0.1			
3/16/2021				1.7	
3/17/2021	0.18		<0.1		0.072 (J)
8/17/2021		<0.1			0.075 (J)
8/18/2021	0.12				
8/19/2021			<0.1	1.5	
2/9/2022	0.076 (J)			1.7	0.092 (J)
2/10/2022		<0.1	0.051 (J)		
8/3/2022			0.075 (J)		
8/4/2022	0.18	0.074 (J)		1.5	0.12
1/26/2023	0.098 (J)	0.081 (J)	0.083 (J)	1.6	0.11
8/10/2023	0.14	<0.1		1.5	
8/11/2023					0.083 (J)
8/12/2023			0.08 (J)		
2/14/2024		0.06 (J)			
2/15/2024	0.06 (J)		0.12	1.4	0.097 (J)
8/7/2024		<0.1		1.5	
8/8/2024	0.17		0.054 (J)		0.081 (J)
2/13/2025	0.075 (J)			1.4	
2/14/2025					0.081 (J)
2/15/2025		<0.1			
2/16/2025			0.11		
Mean	0.1697	0.09294	0.08688	1.581	0.08994
Std. Dev.	0.1181	0.01322	0.03372	0.1905	0.03788
Upper Lim.	0.2184	0.1	0.09527	1.7	0.1107
Lower Lim.	0.09994	0.074	0.05679	1.4	0.06555

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 4/22/2025 5:23 PM View: Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-27D	MW-28D	MW-29
3/12/2019		0.24 (J)	0.07 (J)
3/13/2019	0.28 (J)		
4/2/2019		0.18 (J)	0.045 (J)
4/4/2019	0.26 (J)		
9/24/2019			0.18 (J)
9/26/2019	0.42	0.22 (J)	
3/2/2020			<0.1
3/4/2020	0.25 (J)	0.26 (J)	
3/27/2020		0.26 (J)	
3/30/2020			<0.1
4/2/2020	0.24 (J)		
9/16/2020			<0.1
9/18/2020	0.22		
9/21/2020		0.1	
2/10/2021		0.16	
2/15/2021			<0.1
2/16/2021	0.25		
3/12/2021	0.24		
3/15/2021		0.24	<0.1
8/16/2021			<0.1
8/17/2021	0.24		
8/18/2021		0.14	
2/10/2022	0.25	0.22	<0.1
8/3/2022	0.27		0.069 (J)
8/4/2022		0.19	
1/26/2023		0.22	0.068 (J)
1/27/2023	0.3		
8/10/2023			<0.1
8/11/2023		0.26	
8/12/2023	0.26		
2/14/2024		0.16	0.058 (J)
2/16/2024	0.2		
8/8/2024	0.21	0.25	<0.1
2/15/2025	0.17		
2/16/2025		0.13	<0.1
Mean	0.2538	0.2019	0.09313
Std. Dev.	0.05439	0.05154	0.0298
Upper Lim.	0.2847	0.2354	0.18
Lower Lim.	0.2192	0.1683	0.068

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 4/22/2025 5:23 PM View: Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-7	HGWC-8	HGWC-9	HGWC-10	HGWC-11
5/20/2016	<0.001	<0.001			
5/23/2016			<0.001	<0.001	<0.001
7/12/2016	<0.001	<0.001	<0.001	<0.001	<0.001
9/1/2016	<0.001	<0.001	<0.001	<0.001	<0.001
10/20/2016	<0.001	<0.001	<0.001		
10/24/2016				<0.001	<0.001
12/6/2016	0.0001 (J)	<0.001	0.0002 (J)		
12/7/2016				<0.001	<0.001
1/25/2017	0.0001 (J)	<0.001			
1/26/2017			0.0001 (J)	<0.001	<0.001
3/21/2017	9E-05 (J)	<0.001			
3/22/2017			<0.001	<0.001	0.0003 (J)
5/23/2017	8E-05 (J)	<0.001	0.0001 (J)		
5/24/2017				<0.001	9E-05 (J)
4/3/2018	<0.001	<0.001	<0.001		
4/4/2018				<0.001	<0.001
3/12/2019		<0.001			
3/13/2019	<0.001		<0.001	<0.001	<0.001
4/2/2019	<0.001				
3/3/2020		0.00013 (J)		<0.001	0.00021 (J)
3/4/2020	0.00051 (J)		8.4E-05 (J)		
3/27/2020	5.4E-05 (J)	<0.001			
3/31/2020			0.00014 (J)		0.0003 (J)
4/1/2020				5E-05 (J)	
9/16/2020	0.0002 (J)	0.0002 (J)		<0.001	
9/17/2020			0.00022 (J)		
9/18/2020					6E-05 (J)
2/10/2021	0.00056 (J)				
2/12/2021					<0.001
2/15/2021				<0.001	
2/16/2021		8.6E-05 (J)	0.0002 (J)		
3/12/2021				<0.001	
3/15/2021	0.0013	0.00011 (J)			
3/16/2021			0.00027 (J)		9.9E-05 (J)
8/16/2021	<0.001				
8/17/2021			<0.001	<0.001	
8/18/2021		<0.001			<0.001
2/9/2022			<0.001	<0.001	<0.001
2/10/2022	<0.001	<0.001			
8/3/2022		<0.001		<0.001	<0.001
8/4/2022			<0.001		
8/11/2022	<0.001				
1/26/2023			<0.001		<0.001
1/27/2023	<0.001			<0.001	
2/1/2023		<0.001			
8/10/2023				<0.001	<0.001
8/11/2023			<0.001		
8/12/2023	<0.001	<0.001			
2/14/2024	<0.001	<0.001			
2/15/2024			<0.001	<0.001	<0.001
8/7/2024	<0.001	<0.001	<0.001	<0.001	<0.001
2/13/2025					<0.001

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 4/22/2025 5:23 PM View: Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-7	HGWC-8	HGWC-9	HGWC-10	HGWC-11
2/14/2025				<0.001	
2/15/2025		<0.001	<0.001		
2/16/2025	<0.001				
Mean	0.0007498	0.000849	0.0007093	0.0009587	0.0007852
Std. Dev.	0.0004091	0.0003371	0.0004088	0.0001981	0.0003733
Upper Lim.	0.001	0.001	0.001	0.001	0.001
Lower Lim.	0.0002	0.0002	0.0002	5E-05	0.0003

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 4/22/2025 5:23 PM View: Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-12	HGWC-13	MW-5	MW-6	MW-7
5/23/2016	<0.001	<0.001			
7/12/2016	<0.001	<0.001			
9/1/2016	<0.001	<0.001			
10/24/2016	<0.001	<0.001			
12/7/2016	<0.001	<0.001			
1/26/2017	<0.001	<0.001			
3/22/2017	<0.001	7E-05 (J)			
5/24/2017	<0.001	<0.001			
4/4/2018	<0.001	<0.001			
3/13/2019		<0.001	<0.001	<0.001	<0.001
3/14/2019	<0.001				
4/3/2019				<0.001	
3/2/2020			4.7E-05 (J)		
3/3/2020	5.6E-05 (J)			0.00013 (J)	6.2E-05 (J)
3/4/2020		0.00014 (J)			
3/26/2020	0.00043 (J)		<0.001		
3/27/2020				<0.001	
3/30/2020		0.0001 (J)			<0.001
9/17/2020			<0.001		
9/18/2020	9.6E-05 (J)				
9/21/2020		0.00015 (J)		0.00026 (J)	<0.001
2/12/2021	6.7E-05 (J)				
2/15/2021					<0.001
2/16/2021			<0.001	8.4E-05 (J)	
2/22/2021		0.00018 (J)			
3/15/2021					<0.001
3/16/2021	8.9E-05 (J)		<0.001	3.6E-05 (J)	
3/17/2021		0.00015 (J)			
8/17/2021			<0.001	<0.001	<0.001
8/18/2021	<0.001				
8/19/2021		<0.001			
2/8/2022					<0.001
2/9/2022	<0.001		<0.001	<0.001	
2/10/2022		<0.001			
8/3/2022	<0.001	<0.001	<0.001	<0.001	
8/4/2022					<0.001
1/26/2023	<0.001	<0.001	<0.001	<0.001	<0.001
8/10/2023	<0.001		<0.001	<0.001	<0.001
8/12/2023		<0.001			
2/14/2024				<0.001	<0.001
2/15/2024	<0.001		<0.001		
2/16/2024		<0.001			
8/7/2024	<0.001		<0.001	<0.001	
8/8/2024		<0.001			<0.001
2/13/2025	<0.001				<0.001
2/14/2025			<0.001	<0.001	
2/17/2025		<0.001			
Mean	0.0008147	0.0007735	0.0009319	0.0007673	0.000933
Std. Dev.	0.0003658	0.0003903	0.0002547	0.0004019	0.0002507
Upper Lim.	0.001	0.001	0.001	0.001	0.001
Lower Lim.	0.00043	0.00018	4.7E-05	0.00013	6.2E-05

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 4/22/2025 5:23 PM View: Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-19	MW-20	MW-24D	MW-25D	MW-26D
3/13/2019		<0.001	<0.001		<0.001
3/14/2019	<0.001			<0.001	
3/2/2020		0.00017 (J)			
3/3/2020				<0.001	
3/4/2020	0.00011 (J)		0.00019 (J)		<0.001
3/26/2020	<0.001			<0.001	
3/27/2020		0.00013 (J)			
3/30/2020			6.4E-05 (J)		
3/31/2020					0.0001 (J)
9/17/2020		<0.001			<0.001
9/18/2020				<0.001	
9/21/2020	8.5E-05 (J)		4.2E-05 (J)		
2/11/2021		3.9E-05 (J)			
2/12/2021	7.1E-05 (J)			<0.001	
2/16/2021			0.00012 (J)		8E-05 (J)
3/15/2021		0.0001 (J)			
3/16/2021				<0.001	
3/17/2021	3.8E-05 (J)		4E-05 (J)		<0.001
8/17/2021		<0.001			<0.001
8/18/2021	<0.001				
8/19/2021			<0.001	<0.001	
2/9/2022	<0.001			<0.001	<0.001
2/10/2022		<0.001	<0.001		
8/3/2022			<0.001		
8/4/2022	<0.001	<0.001		<0.001	<0.001
1/26/2023	<0.001	<0.001	<0.001	<0.001	<0.001
8/10/2023	<0.001	<0.001		<0.001	
8/11/2023					<0.001
8/12/2023			<0.001		
2/14/2024		<0.001			
2/15/2024	<0.001		<0.001	<0.001	<0.001
8/7/2024		<0.001		<0.001	
8/8/2024	<0.001		<0.001		<0.001
2/13/2025	<0.001			0.00037 (J)	
2/14/2025					<0.001
2/15/2025		<0.001			
2/16/2025			<0.001		
Mean	0.000736	0.0007456	0.0006754	0.000955	0.00087
Std. Dev.	0.0004334	0.0004182	0.0004533	0.0001684	0.0003305
Upper Lim.	0.001	0.001	0.001	0.001	0.001
Lower Lim.	8.5E-05	0.00013	6.4E-05	0.00037	0.0001

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 4/22/2025 5:23 PM View: Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-27D	MW-28D	MW-29
3/12/2019		<0.001	<0.001
3/13/2019	<0.001		
3/2/2020			9E-05 (J)
3/4/2020	<0.001	0.001 (J)	
3/27/2020		6.2E-05 (J)	
3/30/2020			0.00011 (J)
4/2/2020	0.00013 (J)		
9/16/2020			<0.001
9/18/2020	<0.001		
9/21/2020		0.00018 (J)	
2/10/2021		0.00044 (J)	
2/15/2021			5.2E-05 (J)
2/16/2021	0.00043 (J)		
3/12/2021	<0.001		
3/15/2021		0.00034 (J)	<0.001
8/16/2021			<0.001
8/17/2021	<0.001		
8/18/2021		<0.001	
2/10/2022	<0.001	<0.001	<0.001
8/3/2022	<0.001		<0.001
8/4/2022		<0.001	
1/26/2023		<0.001	<0.001
1/27/2023	<0.001		
8/10/2023			<0.001
8/11/2023		<0.001	
8/12/2023	<0.001		
2/14/2024		<0.001	<0.001
2/16/2024	<0.001		
8/8/2024	<0.001	<0.001	<0.001
2/15/2025	<0.001		
2/16/2025		<0.001	<0.001
Mean	0.0008971	0.0007873	0.0008037
Std. Dev.	0.000268	0.0003582	0.0003902
Upper Lim.	0.001	0.001	0.001
Lower Lim.	0.00043	0.00034	0.00011

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 4/22/2025 5:23 PM View: Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-7	HGWC-8	HGWC-9	HGWC-12	HGWC-13
5/20/2016	<0.03	<0.03			
5/23/2016			<0.03	0.0107 (J)	0.0422 (J)
7/12/2016	0.0021 (J)	0.0023 (J)	0.004 (J)	0.0113 (J)	0.0366 (J)
9/1/2016	0.0025 (J)	0.0029 (J)	0.0044 (J)	0.0118 (J)	0.04 (J)
10/20/2016	0.0021 (J)	0.0027 (J)	0.0027 (J)		
10/24/2016				0.0114 (J)	0.0435 (J)
12/6/2016	0.0026 (J)	0.0032 (J)	0.005 (J)		
12/7/2016				0.0155 (J)	0.0477 (J)
1/25/2017	0.0024 (J)	0.0026 (J)			
1/26/2017			0.0042 (J)	0.0099 (J)	0.0342 (J)
3/21/2017	0.0026 (J)	0.0029 (J)			
3/22/2017			0.0043 (J)	0.0098 (J)	0.0353 (J)
5/23/2017	0.0026 (J)	0.0029 (J)	0.0048 (J)		
5/24/2017				0.0105 (J)	0.0317 (J)
4/3/2018	0.0023 (J)	0.0025 (J)	0.0043 (J)		
4/4/2018				0.008 (J)	0.031 (J)
6/5/2018	0.0022 (J)				0.031 (J)
6/6/2018		0.0023 (J)	0.0043 (J)	0.0095 (J)	
10/2/2018	0.003 (J)	0.0025 (J)	0.004 (J)		
10/3/2018				0.0083 (J)	
10/5/2018					0.027 (J)
3/12/2019		0.0025 (J)			
3/13/2019	0.0024 (J)		0.004 (J)		0.029 (J)
3/14/2019				0.0058 (J)	
4/2/2019	0.002 (J)				
4/3/2019		0.0025 (J)	0.004 (J)	0.0066 (J)	
4/5/2019					0.023 (J)
9/24/2019		0.0024 (J)			
9/25/2019	0.0019 (J)				
9/26/2019					0.035
9/27/2019			0.0044 (J)	0.011 (J)	
3/3/2020		0.0028 (J)		0.0063 (J)	
3/4/2020	0.0034 (J)		0.004 (J)		0.041
3/26/2020				0.0063 (J)	
3/27/2020	0.002 (J)	0.0026 (J)			
3/30/2020					0.038
3/31/2020			0.0043 (J)		
9/16/2020	0.0026 (J)	0.0033 (J)			
9/17/2020			0.004 (J)		
9/18/2020				0.01 (J)	
9/21/2020					0.028 (J)
2/10/2021	0.0032 (J)				
2/12/2021				0.0094 (J)	
2/16/2021		0.0027 (J)	0.0045 (J)		
2/22/2021					0.032
3/15/2021	0.0038 (J)	0.0029 (J)			
3/16/2021			0.0046 (J)	0.0081 (J)	
3/17/2021					0.031
8/16/2021	0.0025 (J)				
8/17/2021			0.004 (J)		
8/18/2021		0.0029 (J)		0.0099 (J)	
8/19/2021					0.028 (J)

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 4/22/2025 5:23 PM View: Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-7	HGWC-8	HGWC-9	HGWC-12	HGWC-13
2/9/2022			0.0041 (J)	0.01 (J)	
2/10/2022	0.0022 (J)	0.003 (J)			0.031
8/3/2022		0.0026 (J)		0.0068 (J)	0.029 (J)
8/4/2022			0.0036 (J)		
8/11/2022	0.0019 (J)				
1/26/2023			0.0032 (J)	0.0058 (J)	0.04
1/27/2023	0.0018 (J)				
2/1/2023		0.0015 (J)			
8/10/2023				0.0075 (J)	
8/11/2023			0.0035 (J)		
8/12/2023	0.0023 (J)	0.0014 (J)			0.051
2/14/2024	0.0016 (J)	<0.03			
2/15/2024			0.0031 (J)	0.008 (J)	
2/16/2024					0.052
8/7/2024	0.0026 (J)	<0.03	0.003 (J)	0.0089 (J)	
8/8/2024					0.052
2/13/2025				0.00909 (J)	
2/15/2025		0.000838 (J)	0.00343 (J)		
2/16/2025	0.00167 (J)				
2/17/2025					0.0325
Mean	0.002862	0.003916	0.004397	0.009118	0.03603
Std. Dev.	0.002479	0.004029	0.002189	0.0022	0.007984
Upper Lim.	0.0026	0.003	0.0044	0.01017	0.03983
Lower Lim.	0.002	0.0025	0.0036	0.008069	0.03222

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 4/22/2025 5:23 PM View: Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-5	MW-6	MW-19	MW-20	MW-24D
3/13/2019	<0.03	<0.03		0.0016 (J)	0.0029 (J)
3/14/2019			0.0089 (J)		
4/2/2019				0.0015 (J)	
4/3/2019	<0.03	<0.03	0.0061 (J)		
4/8/2019					0.0027 (J)
9/25/2019	<0.03			<0.03	
9/26/2019		<0.03			0.003 (J)
9/27/2019			0.013 (J)		
3/2/2020	<0.03			0.00082 (J)	
3/3/2020		<0.03			
3/4/2020			0.01 (J)		0.0026 (J)
3/26/2020	<0.03		0.013 (J)		
3/27/2020		<0.03		0.0012 (J)	
3/30/2020					0.0027 (J)
9/17/2020	<0.03			<0.03	
9/21/2020		<0.03	0.013 (J)		0.0024 (J)
2/11/2021				0.001 (J)	
2/12/2021			0.012 (J)		
2/16/2021	<0.03	<0.03			0.0028 (J)
3/15/2021				0.0011 (J)	
3/16/2021	<0.03	<0.03			
3/17/2021			0.012 (J)		0.0027 (J)
8/17/2021	<0.03	<0.03		0.00091 (J)	
8/18/2021			0.014 (J)		
8/19/2021					0.0027 (J)
2/9/2022	<0.03	<0.03	0.0067 (J)		
2/10/2022				0.00099 (J)	0.0029 (J)
8/3/2022	<0.03	<0.03			0.0024 (J)
8/4/2022			0.013 (J)	0.00075 (J)	
1/26/2023	<0.03	<0.03	0.0038 (J)	<0.03	0.0025 (J)
8/10/2023	<0.03	<0.03	0.011 (J)	<0.03	
8/12/2023					0.003 (J)
2/14/2024		<0.03		<0.03	
2/15/2024	<0.03		<0.03		0.0031 (J)
8/7/2024	<0.03	<0.03		<0.03	
8/8/2024			0.011 (J)		0.0029 (J)
2/13/2025			<0.03		
2/14/2025	0.000687 (J)	0.000625 (J)			
2/15/2025				0.00094 (J)	
2/16/2025					0.00274 (J)
Mean	0.02817	0.02816	0.01109	0.01193	0.002753
Std. Dev.	0.007328	0.007344	0.003252	0.01446	0.0002094
Upper Lim.	0.03	0.03	0.01321	0.03	0.002889
Lower Lim.	0.000687	0.000625	0.008978	0.00091	0.002616

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 4/22/2025 5:23 PM View: Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-25D	MW-26D	MW-27D	MW-28D	MW-29
3/12/2019				0.011 (J)	0.0024 (J)
3/13/2019		0.0033 (J)	0.0097 (J)		
3/14/2019	0.05				
4/2/2019				0.0052 (J)	0.0021 (J)
4/3/2019	0.047 (J)	0.0034 (J)			
4/4/2019			0.0069 (J)		
9/24/2019					0.0022 (J)
9/26/2019		0.0041 (J)	0.0055 (J)	0.0055 (J)	
9/27/2019	0.047				
3/2/2020					0.0025 (J)
3/3/2020	0.05				
3/4/2020		0.03 (J)	0.0047 (J)	0.015 (J)	
3/26/2020	0.054				
3/27/2020				0.014 (J)	
3/30/2020					0.0023 (J)
3/31/2020		0.0036 (J)			
4/2/2020			0.0068 (J)		
9/16/2020					0.0021 (J)
9/17/2020		0.0032 (J)			
9/18/2020	0.046		0.0084 (J)		
9/21/2020				0.0053 (J)	
2/10/2021				0.0092 (J)	
2/12/2021	0.045				
2/15/2021					0.0024 (J)
2/16/2021		0.0038 (J)	0.0078 (J)		
3/12/2021			0.009 (J)		
3/15/2021				0.013 (J)	0.0022 (J)
3/16/2021	0.049				
3/17/2021		0.004 (J)			
8/16/2021					0.0021 (J)
8/17/2021		0.0036 (J)	0.0079 (J)		
8/18/2021				0.0086 (J)	
8/19/2021	0.046				
2/9/2022	0.048	0.0039 (J)			
2/10/2022			0.0086 (J)	0.014 (J)	0.0023 (J)
8/3/2022			0.0063 (J)		0.0018 (J)
8/4/2022	0.04	0.0033 (J)		0.0088 (J)	
1/26/2023	0.036	0.0031 (J)		0.011 (J)	0.0019 (J)
1/27/2023			0.0072 (J)		
8/10/2023	0.038				0.0019 (J)
8/11/2023		0.0029 (J)		0.016 (J)	
8/12/2023			0.0072 (J)		
2/14/2024				0.0078 (J)	0.0021 (J)
2/15/2024	0.038	0.0035 (J)			
2/16/2024			0.011 (J)		
8/7/2024	0.04				
8/8/2024		0.0037 (J)	0.011 (J)	0.017 (J)	0.0019 (J)
2/13/2025	0.0362				
2/14/2025		0.00342 (J)			
2/15/2025			0.0115 (J)		
2/16/2025				0.00738 (J)	0.00371 (J)
Mean	0.04439	0.005176	0.008094	0.01055	0.002244

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 4/22/2025 5:23 PM View: Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-25D	MW-26D	MW-27D	MW-28D	MW-29
Std. Dev.	0.005576	0.006628	0.001975	0.00391	0.0004403
Upper Lim.	0.04802	0.004	0.009379	0.01309	0.0024
Lower Lim.	0.04076	0.0032	0.006809	0.008005	0.0019

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 4/22/2025 5:23 PM View: Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-9	HGWC-10	HGWC-11	HGWC-13	MW-25D
5/23/2016	<0.0002	<0.0002	<0.0002	<0.0002	
7/12/2016	<0.0002	<0.0002	<0.0002	<0.0002	
9/1/2016	<0.0002	<0.0002	<0.0002	<0.0002	
10/20/2016	<0.0002				
10/24/2016		<0.0002	<0.0002	<0.0002	
12/6/2016	<0.0002				
12/7/2016		<0.0002	<0.0002	<0.0002	
1/26/2017	4E-05 (J)	5E-05 (J)	5E-05 (J)	4E-05 (J)	
3/22/2017	<0.0002	<0.0002	<0.0002	<0.0002	
5/23/2017	<0.0002				
5/24/2017		<0.0002	<0.0002	5E-05 (J)	
4/3/2018	<0.0002				
4/4/2018		<0.0002	<0.0002	<0.0002	
3/13/2019	<0.0002	<0.0002	<0.0002	<0.0002	
3/14/2019					<0.0002
9/27/2019		<0.0002			
3/3/2020		<0.0002	<0.0002		<0.0002
3/4/2020	<0.0002			<0.0002	
2/12/2021			<0.0002		<0.0002
2/15/2021		<0.0002			
2/16/2021	<0.0002				
2/22/2021				<0.0002	
2/9/2022	<0.0002	<0.0002	<0.0002		<0.0002
2/10/2022				<0.0002	
8/3/2022		<0.0002	<0.0002	<0.0002	
8/4/2022	<0.0002				<0.0002
1/26/2023	<0.0002		<0.0002	<0.0002	<0.0002
1/27/2023		<0.0002			
8/10/2023		<0.0002	<0.0002		0.00013 (J)
8/11/2023	<0.0002				
8/12/2023				<0.0002	
2/15/2024	<0.0002	<0.0002	<0.0002		<0.0002
2/16/2024				<0.0002	
8/7/2024	<0.0002	<0.0002	<0.0002		<0.0002
8/8/2024				<0.0002	
2/13/2025			<0.0002		<0.0002
2/14/2025		<0.0002			
2/15/2025	<0.0002				
2/17/2025				<0.0002	
Mean	0.0001916	0.0001925	0.0001921	0.0001837	0.000193
Std. Dev.	3.671E-05	3.354E-05	3.441E-05	4.89E-05	2.214E-05
Upper Lim.	0.0002	0.0002	0.0002	0.0002	0.0002
Lower Lim.	4E-05	5E-05	5E-05	5E-05	0.0002

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 4/22/2025 5:23 PM View: Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-29
3/12/2019	<0.0002
3/2/2020	<0.0002
2/15/2021	<0.0002
2/10/2022	<0.0002
8/3/2022	<0.0002
1/26/2023	<0.0002
8/10/2023	0.00017 (J)
2/14/2024	<0.0002
8/8/2024	<0.0002
2/16/2025	<0.0002
Mean	0.000197
Std. Dev.	9.487E-06
Upper Lim.	0.0002
Lower Lim.	0.0002

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 4/22/2025 5:23 PM View: Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-7	HGWC-8	HGWC-9	HGWC-10	HGWC-11
5/20/2016	0.028	0.446			
5/23/2016			0.0187	<0.01	0.0164
7/12/2016	0.0273	0.455	0.0229	0.0013 (J)	0.0251
9/1/2016	0.0274	0.481	0.0239	<0.01	0.0259
10/20/2016	0.036	0.472	0.477		
10/24/2016				<0.01	0.0293
12/6/2016	0.0365	0.52	0.0236		
12/7/2016				<0.01	0.0209
1/25/2017	0.0317	0.478			
1/26/2017			0.0234	<0.01	0.0277
3/21/2017	0.0346	0.547			
3/22/2017			0.0219	0.0013 (J)	0.011
5/23/2017	0.0336	0.482	0.0242		
5/24/2017				0.0014 (J)	0.0373
4/3/2018	0.032	0.44	0.025		
4/4/2018				<0.01	0.013
6/5/2018	0.036			<0.01	0.029
6/6/2018		0.49	0.027		
10/2/2018	0.039	0.47	0.028	<0.01	
10/3/2018					0.02
3/12/2019		0.5			
3/13/2019	0.04		0.028	<0.01	0.012
4/2/2019	0.041				
4/3/2019		0.5	0.03	0.0021 (J)	0.01
9/24/2019		0.54			
9/25/2019	0.047				
9/27/2019			0.033	0.0014 (J)	0.016
3/3/2020		0.44		<0.01	0.011
3/4/2020	0.045		0.031		
3/27/2020	0.044	0.42			
3/31/2020			0.031		0.0074 (J)
4/1/2020				<0.01	
6/16/2020		0.45			
6/17/2020	0.048				
9/16/2020	0.046	0.43		0.0014 (J)	
9/17/2020			0.03		
9/18/2020					0.032
2/10/2021	0.051				
2/12/2021					0.023
2/15/2021				<0.01	
2/16/2021		0.46	0.035		
3/12/2021				0.0007 (J)	
3/15/2021	0.047	0.41			
3/16/2021			0.035		0.015
8/16/2021	0.045				
8/17/2021			0.035	0.0012 (J)	
8/18/2021		0.48			0.038
2/9/2022			0.034	<0.01	0.03
2/10/2022	0.045	0.34			
8/3/2022		0.29		0.00079 (J)	0.027
8/4/2022			0.033		
8/11/2022	0.044				

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 4/22/2025 5:23 PM View: Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-7	HGWC-8	HGWC-9	HGWC-10	HGWC-11
1/26/2023			0.021		0.022
1/27/2023	0.039			<0.01	
2/1/2023		0.29			
8/10/2023				0.0014 (J)	0.014
8/11/2023			0.03		
8/12/2023	0.033	0.34			
2/14/2024	0.028	0.18			
2/15/2024			0.01	<0.01	0.029
8/7/2024	0.03	0.28	0.015	0.0012 (J)	0.01 (J)
2/13/2025					0.041
2/14/2025				<0.01	
2/15/2025		0.17	0.013		
2/16/2025	0.019				
Mean	0.03765	0.4215	0.04295	0.006451	0.02196
Std. Dev.	0.00798	0.09993	0.08701	0.004367	0.009526
Upper Lim.	0.04138	0.4707	0.033	0.01	0.02651
Lower Lim.	0.03392	0.3911	0.0229	0.0014	0.01742

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 4/22/2025 5:23 PM View: Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-12	HGWC-13	MW-6	MW-7	MW-19
5/23/2016	0.0413 (J)	0.027			
7/12/2016	0.0484	0.0316			
9/1/2016	0.0474	0.0336			
10/24/2016	0.047	0.0352			
12/7/2016	0.0432	0.0383			
1/26/2017	0.0484	0.041			
3/22/2017	0.0494	0.0426			
5/24/2017	0.047	0.04			
4/4/2018	0.052	0.027			
6/5/2018		0.027			
6/6/2018	0.054				
10/3/2018	0.054				
10/5/2018		0.033			
3/13/2019		0.033	0.0021 (J)	<0.01	
3/14/2019	0.046				0.057
4/3/2019	0.049		0.0021 (J)	<0.01	0.04
4/5/2019		0.03			
9/26/2019		0.026	0.0026 (J)	0.0033 (J)	
9/27/2019	0.052				0.063
3/3/2020	0.045		0.0022 (J)	<0.01	
3/4/2020		0.03			0.032
3/26/2020	0.045				0.033
3/27/2020			0.0026 (J)		
3/30/2020		0.029		<0.01	
9/18/2020	0.046				
9/21/2020		0.032	0.0025 (J)	0.0015 (J)	0.064
2/12/2021	0.048				0.046
2/15/2021				0.0015 (J)	
2/16/2021			0.0025 (J)		
2/22/2021		0.036			
3/15/2021				0.0015 (J)	
3/16/2021	0.044		0.0023 (J)		
3/17/2021		0.035			0.043
8/17/2021			0.0027 (J)	0.003 (J)	
8/18/2021	0.045				0.032
8/19/2021		0.032			
2/8/2022				0.0012 (J)	
2/9/2022	0.042		0.0026 (J)		0.011
2/10/2022		0.033			
8/3/2022	0.047	0.035	0.0028 (J)		
8/4/2022				0.0014 (J)	0.039
1/26/2023	0.048	0.023	0.0029 (J)	<0.01	0.012
8/10/2023	0.05		0.0026 (J)	0.0022 (J)	0.033
8/12/2023		0.016			
2/14/2024			0.0025 (J)	<0.01	
2/15/2024	0.046				<0.01
2/16/2024		0.013			
8/7/2024	0.044		0.0031 (J)		
8/8/2024		0.011		0.0021 (J)	0.046
2/13/2025	0.044			0.0025 (J)	<0.01
2/14/2025			0.0029 (J)		
2/17/2025		0.015			

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 4/22/2025 5:23 PM View: Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-12	HGWC-13	MW-6	MW-7	MW-19
Mean	0.04715	0.02983	0.002563	0.005012	0.03506
Std. Dev.	0.003317	0.008263	0.0002872	0.004029	0.01895
Upper Lim.	0.04873	0.03377	0.002749	0.01	0.04739
Lower Lim.	0.04557	0.02588	0.002376	0.0015	0.02273

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 4/22/2025 5:23 PM View: Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-24D	MW-25D	MW-26D	MW-27D	MW-28D
3/12/2019					0.013
3/13/2019	<0.01		<0.01	<0.01	
3/14/2019		0.0022 (J)			
4/2/2019					0.028
4/3/2019		<0.01	0.0083 (J)		
4/4/2019				0.0018 (J)	
4/8/2019	0.00027 (J)				
9/26/2019	<0.01		0.017	0.0042 (J)	0.017
9/27/2019		<0.01			
11/25/2019			0.02		
3/3/2020		<0.01			
3/4/2020	<0.01		0.0074 (J)	0.0058 (J)	0.009 (J)
3/26/2020		<0.01			
3/27/2020					0.0068 (J)
3/30/2020	<0.01				
3/31/2020			0.0093 (J)		
4/2/2020				0.003 (J)	
9/17/2020			0.014		
9/18/2020		0.00094 (J)		0.0018 (J)	
9/21/2020	0.00099 (J)				0.018
2/10/2021					0.02
2/12/2021		<0.01			
2/16/2021	0.00096 (J)		0.022	0.0019 (J)	
3/12/2021				0.0008 (J)	
3/15/2021					0.013
3/16/2021		<0.01			
3/17/2021	0.001 (J)		0.023		
8/17/2021			0.024	0.0016 (J)	
8/18/2021					0.022
8/19/2021	0.00087 (J)	<0.01			
2/9/2022		<0.01	0.028		
2/10/2022	0.0008 (J)			0.0017 (J)	0.0031 (J)
8/3/2022	0.00095 (J)			0.002 (J)	
8/4/2022		<0.01	0.028		0.011
1/26/2023	0.0012 (J)	<0.01	0.028		0.0025 (J)
1/27/2023				0.0014 (J)	
8/10/2023		<0.01			
8/11/2023			0.014		0.0011 (J)
8/12/2023	0.0019 (J)			0.0019 (J)	
2/14/2024					0.0053 (J)
2/15/2024	0.0085 (J)	<0.01	0.025		
2/16/2024				0.0052 (J)	
8/7/2024		<0.01			
8/8/2024	0.0016 (J)		0.023	0.0052 (J)	0.0014 (J)
2/13/2025		<0.01			
2/14/2025			0.022		
2/15/2025				0.022	
2/16/2025	0.0067 (J)				0.0031 (J)
Mean	0.004109	0.008946	0.01871	0.004081	0.01089
Std. Dev.	0.004163	0.002889	0.007692	0.00505	0.008267
Upper Lim.	0.01	0.01	0.02353	0.004719	0.01627
Lower Lim.	0.00087	0.0022	0.01389	0.001678	0.005515

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 4/22/2025 5:23 PM View: Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-29
3/12/2019	0.0038 (J)
4/2/2019	0.0028 (J)
9/24/2019	0.0021 (J)
3/2/2020	0.0025 (J)
3/30/2020	0.0029 (J)
9/16/2020	0.0021 (J)
2/15/2021	0.0029 (J)
3/15/2021	0.0031 (J)
8/16/2021	0.0027 (J)
2/10/2022	0.0036 (J)
8/3/2022	0.0032 (J)
1/26/2023	0.0029 (J)
8/10/2023	0.003 (J)
2/14/2024	0.002 (J)
8/8/2024	0.0038 (J)
2/16/2025	<0.01
Mean	0.003025
Std. Dev.	0.000762
Upper Lim.	0.003521
Lower Lim.	0.002529

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 4/22/2025 5:23 PM View: Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-8	HGWC-9	HGWC-10	HGWC-11	HGWC-12
5/20/2016	<0.05				
5/23/2016		<0.005	<0.005	0.0106	<0.005
7/12/2016	<0.05	<0.005	<0.005	0.0057 (J)	<0.005
9/1/2016	<0.05	<0.005	<0.005	0.0057 (J)	<0.005
10/20/2016	<0.05	<0.005			
10/24/2016			<0.005	0.0021 (J)	<0.005
12/6/2016	0.0024 (J)	0.0037 (J)			
12/7/2016			<0.005	0.0015 (J)	0.0011 (J)
1/25/2017	<0.05				
1/26/2017		<0.005	0.0041 (J)	0.0062 (J)	<0.005
3/21/2017	<0.05				
3/22/2017		<0.005	<0.005	0.0263	<0.005
5/23/2017	<0.05	<0.005			
5/24/2017			<0.005	0.0038 (J)	<0.005
4/3/2018	<0.05	<0.005			
4/4/2018			<0.005	0.021	<0.005
6/5/2018			<0.005	0.0062 (J)	
6/6/2018	<0.05	<0.005			<0.005
10/2/2018	<0.05	<0.005	0.0023 (J)		
10/3/2018				0.009 (J)	<0.005
3/12/2019	<0.05				
3/13/2019		<0.005	0.0015 (J)	0.023	
3/14/2019					<0.005
4/3/2019	<0.05	<0.005	<0.005	0.016	<0.005
9/24/2019	<0.05				
9/27/2019		<0.005	<0.005	0.013	<0.005
3/3/2020	<0.05		<0.005	0.016	<0.005
3/4/2020		<0.005			
3/26/2020					<0.005
3/27/2020	<0.05				
3/31/2020		<0.005		0.019	
4/1/2020			0.002 (J)		
9/16/2020	<0.05		<0.005		
9/17/2020		<0.005			
9/18/2020				0.0042 (J)	<0.005
2/12/2021				0.0079 (J)	<0.005
2/15/2021			0.0028 (J)		
2/16/2021	<0.05	<0.005			
3/12/2021			<0.005		
3/15/2021	<0.05				
3/16/2021		<0.005		0.015	<0.005
8/17/2021		<0.005	<0.005		
8/18/2021	<0.05			0.0033 (J)	<0.005
2/9/2022		<0.005	0.0031 (J)	0.0035 (J)	<0.005
2/10/2022	<0.05				
8/3/2022	<0.05		0.0017 (J)	0.0057	<0.005
8/4/2022		<0.005			
1/26/2023		<0.005		0.01	<0.005
1/27/2023			0.0035 (J)		
2/1/2023	<0.05				
8/10/2023			<0.005	0.0089	<0.005
8/11/2023		<0.005			

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 4/22/2025 5:23 PM View: Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-8	HGWC-9	HGWC-10	HGWC-11	HGWC-12
8/12/2023	<0.05				
2/14/2024	<0.05				
2/15/2024		<0.005	0.0038 (J)	0.0063	<0.005
8/7/2024	<0.05	<0.005	<0.005	0.0084	<0.005
2/13/2025				<0.05	<0.005
2/14/2025			0.0024 (J)		
2/15/2025	<0.05	<0.005			
Mean	0.04824	0.004952	0.004156	0.01049	0.004856
Std. Dev.	0.009161	0.0002502	0.001239	0.007239	0.0007506
Upper Lim.	0.05	0.005	0.005	0.01281	0.005
Lower Lim.	0.0024	0.0037	0.0031	0.006401	0.0011

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 4/22/2025 5:23 PM View: Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-13	MW-5	MW-6	MW-7	MW-19
5/23/2016	<0.005				
7/12/2016	<0.005				
9/1/2016	<0.005				
10/24/2016	<0.005				
12/7/2016	<0.005				
1/26/2017	<0.005				
3/22/2017	<0.005				
5/24/2017	<0.005				
4/4/2018	<0.005				
6/5/2018	<0.005				
10/5/2018	<0.005				
3/13/2019	<0.005	0.0033 (J)	<0.005	0.0016 (J)	
3/14/2019					<0.05
4/3/2019		0.0027 (J)	<0.005	<0.005	0.007 (J)
4/5/2019	0.00018 (J)				
9/25/2019		0.0021 (J)			
9/26/2019	<0.005		<0.005	0.0014 (J)	
9/27/2019					0.0013 (J)
3/2/2020		0.0041 (J)			
3/3/2020			<0.005	<0.005	
3/4/2020	<0.005				0.0044 (J)
3/26/2020		0.0039 (J)			0.0053 (J)
3/27/2020			<0.005		
3/30/2020	<0.005			0.0014 (J)	
9/17/2020		0.0028 (J)			
9/21/2020	0.0016 (J)		<0.005	0.0026 (J)	0.0033 (J)
2/12/2021					0.0021 (J)
2/15/2021				<0.005	
2/16/2021		0.0035 (J)	<0.005		
2/22/2021	<0.005				
3/15/2021				0.0021 (J)	
3/16/2021		0.0026 (J)	<0.005		
3/17/2021	<0.005				<0.05
8/17/2021		0.0017 (J)	<0.005	<0.005	
8/18/2021					0.0026 (J)
8/19/2021	<0.005				
2/8/2022				0.0015 (J)	
2/9/2022		0.0027 (J)	<0.005		0.0036 (J)
2/10/2022	<0.005				
8/3/2022	<0.005	0.0032 (J)	<0.005		
8/4/2022				<0.005	0.0022 (J)
1/26/2023	<0.005	0.0045 (J)	<0.005	<0.005	0.0056
8/10/2023		0.002 (J)	<0.005	<0.005	0.0038 (J)
8/12/2023	<0.005				
2/14/2024			0.0013 (J)	<0.005	
2/15/2024		0.0043 (J)			0.0082
2/16/2024	<0.005				
8/7/2024		0.003 (J)	<0.005		
8/8/2024	<0.005			0.0015 (J)	0.0034 (J)
2/13/2025				0.0019 (J)	<0.05
2/14/2025		0.0034 (J)	0.0035 (J)		
2/17/2025	<0.005				

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 4/22/2025 5:23 PM View: Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-13	MW-5	MW-6	MW-7	MW-19
Mean	0.004696	0.003113	0.004675	0.003375	0.01268
Std. Dev.	0.001114	0.0008237	0.0009747	0.001703	0.0186
Upper Lim.	0.005	0.003648	0.005	0.005	0.0082
Lower Lim.	0.0016	0.002577	0.0035	0.0015	0.0022

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 4/22/2025 5:23 PM View: Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-27D
3/13/2019	<0.005
4/4/2019	0.00012 (J)
9/26/2019	<0.005
3/4/2020	<0.005
4/2/2020	<0.005
9/18/2020	<0.005
2/16/2021	<0.005
3/12/2021	<0.005
8/17/2021	<0.005
2/10/2022	<0.005
8/3/2022	<0.005
1/27/2023	<0.005
8/12/2023	<0.005
2/16/2024	<0.005
8/8/2024	<0.005
2/15/2025	<0.005
Mean	0.004695
Std. Dev.	0.00122
Upper Lim.	0.005
Lower Lim.	0.00012

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 4/22/2025 5:23 PM View: Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-8	HGWC-11	HGWC-12	HGWC-13	MW-6
5/20/2016	<0.001				
5/23/2016		<0.001	<0.001	0.000378 (J)	
7/12/2016	7E-05 (J)	8E-05 (J)	0.0002 (J)	0.0004 (J)	
9/1/2016	<0.001	<0.001	<0.001	0.0004 (J)	
10/20/2016	<0.001				
10/24/2016		<0.001	<0.001	0.0005 (J)	
12/6/2016	<0.001				
12/7/2016		<0.001	<0.001	0.0004 (J)	
1/25/2017	<0.001				
1/26/2017		<0.001	<0.001	0.0004 (J)	
3/21/2017	9E-05 (J)				
3/22/2017		<0.001	0.0001 (J)	0.0004 (J)	
5/23/2017	8E-05 (J)				
5/24/2017		8E-05 (J)	9E-05 (J)	0.0003 (J)	
4/3/2018	<0.001				
4/4/2018		<0.001	<0.001	0.00032 (J)	
6/5/2018		<0.001		0.00035 (J)	
6/6/2018	<0.001		<0.001		
10/2/2018	<0.001				
10/3/2018		<0.001	<0.001		
10/5/2018				0.00025 (J)	
3/12/2019	<0.001				
3/13/2019		<0.001		0.00039 (J)	<0.001
3/14/2019			<0.001		
4/3/2019	<0.001	<0.001	<0.001		<0.001
4/5/2019				0.00034 (J)	
9/24/2019	0.00011 (J)				
9/26/2019				0.00039 (J)	<0.001
9/27/2019		<0.001	8.8E-05 (J)		
3/3/2020	6.1E-05 (J)	<0.001	6.6E-05 (J)		8.2E-05 (J)
3/4/2020				0.00056 (J)	
3/26/2020			8E-05 (J)		
3/27/2020	7.7E-05 (J)				<0.001
3/30/2020				0.00048 (J)	
3/31/2020		<0.001			
9/16/2020	<0.001				
9/18/2020		<0.001	<0.001		
9/21/2020				0.00036 (J)	<0.001
2/12/2021		<0.001	<0.001		
2/16/2021	<0.001				<0.001
2/22/2021				0.0003 (J)	
3/15/2021	<0.001				
3/16/2021		<0.001	<0.001		<0.001
3/17/2021				0.00037 (J)	
8/17/2021					<0.001
8/18/2021	<0.001	<0.001	<0.001		
8/19/2021				0.0002 (J)	
2/9/2022		<0.001	<0.001		<0.001
2/10/2022	<0.001			<0.001	
8/3/2022	0.00018 (J)	<0.001	<0.001	<0.001	<0.001
1/26/2023		<0.001	<0.001	0.00031 (J)	<0.001
2/1/2023	<0.001				

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 4/22/2025 5:23 PM View: Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-8	HGWC-11	HGWC-12	HGWC-13	MW-6
8/10/2023		<0.001	<0.001		<0.001
8/12/2023	<0.001			0.00028 (J)	
2/14/2024	<0.001				<0.001
2/15/2024		<0.001	<0.001		
2/16/2024				<0.001	
8/7/2024	<0.001	<0.001	<0.001		<0.001
8/8/2024				<0.001	
2/13/2025		<0.001	<0.001		
2/14/2025					<0.001
2/15/2025	<0.001				
2/17/2025				0.00025 (J)	
Mean	0.0007655	0.0009319	0.0008009	0.0003825	0.0009426
Std. Dev.	0.0004044	0.0002455	0.0003802	9.134E-05	0.0002295
Upper Lim.	0.001	0.001	0.001	0.0004261	0.001
Lower Lim.	0.00018	8E-05	0.0002	0.0003389	8.2E-05

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 4/22/2025 5:23 PM View: Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-19	MW-28D	MW-29
3/12/2019		<0.001	<0.001
3/14/2019	<0.001		
4/2/2019		<0.001	<0.001
4/3/2019	<0.001		
9/24/2019			6.4E-05 (J)
9/26/2019		<0.001	
9/27/2019	0.00027 (J)		
3/2/2020			<0.001
3/4/2020	0.00026 (J)	9.2E-05 (J)	
3/26/2020	0.00026 (J)		
3/27/2020		<0.001	
3/30/2020			<0.001
9/16/2020			<0.001
9/21/2020	0.0003 (J)	<0.001	
2/10/2021		<0.001	
2/12/2021	0.00019 (J)		
2/15/2021			<0.001
3/15/2021		<0.001	<0.001
3/17/2021	0.00026 (J)		
8/16/2021			<0.001
8/18/2021	0.00023 (J)	<0.001	
2/9/2022	<0.001		
2/10/2022		<0.001	<0.001
8/3/2022			<0.001
8/4/2022	0.00026 (J)	<0.001	
1/26/2023	<0.001	<0.001	<0.001
8/10/2023	<0.001		<0.001
8/11/2023		<0.001	
2/14/2024		<0.001	<0.001
2/15/2024	<0.001		
8/8/2024	0.00043 (J)	<0.001	<0.001
2/13/2025	<0.001		
2/16/2025		<0.001	<0.001
Mean	0.0005913	0.0009433	0.0009415
Std. Dev.	0.0003754	0.000227	0.000234
Upper Lim.	0.001	0.001	0.001
Lower Lim.	0.00026	9.2E-05	6.4E-05

ND substitution: RL or RL/2 if <15% NDs.

FIGURE I.

Appendix IV Trend Tests - Significant Results

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 4/22/2025, 5:28 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Arsenic (mg/L)	**HGWC-13**	**0.01588**	**131**	**96**	**Yes**	**27**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Molybdenum (mg/L)	**HGWA-43D (bg)**	**-0.0008641**	**-44**	**-37**	**Yes**	**14**	**7.143**	**n/a**	**n/a**	**0.05**	**NP**
Molybdenum (mg/L)	**HGWC-8**	**-0.02526**	**-194**	**-101**	**Yes**	**28**	**0**	**n/a**	**n/a**	**0.05**	**NP**

Appendix IV Trend Tests - All Results

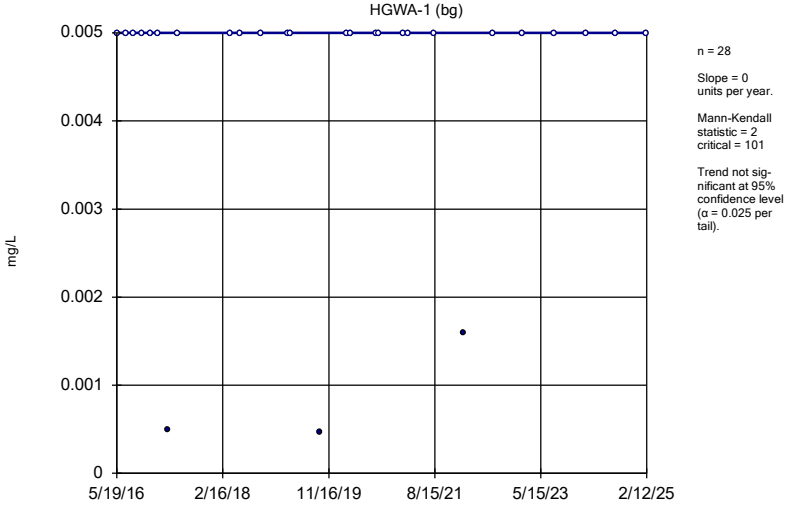
Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 4/22/2025, 5:28 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Arsenic (mg/L)	HGWA-1 (bg)	0	2	101	No	28	89.29	n/a	n/a	0.05	NP
Arsenic (mg/L)	HGWA-2 (bg)	0	77	101	No	28	67.86	n/a	n/a	0.05	NP
Arsenic (mg/L)	HGWA-3 (bg)	0	65	101	No	28	67.86	n/a	n/a	0.05	NP
Arsenic (mg/L)	HGWA-43D (bg)	0	14	37	No	14	50	n/a	n/a	0.05	NP
Arsenic (mg/L)	HGWA-44D (bg)	0	-22	-37	No	14	64.29	n/a	n/a	0.05	NP
Arsenic (mg/L)	**HGWC-13**	**0.01588**	**131**	**96**	**Yes**	**27**	**0**	**n/a**	**n/a**	**0.05**	**NP**
Molybdenum (mg/L)	HGWA-1 (bg)	0	0	106	No	29	100	n/a	n/a	0.05	NP
Molybdenum (mg/L)	HGWA-2 (bg)	0	0	101	No	28	100	n/a	n/a	0.05	NP
Molybdenum (mg/L)	HGWA-3 (bg)	0	0	106	No	29	100	n/a	n/a	0.05	NP
Molybdenum (mg/L)	**HGWA-43D (bg)**	**-0.0008641**	**-44**	**-37**	**Yes**	**14**	**7.143**	**n/a**	**n/a**	**0.05**	**NP**
Molybdenum (mg/L)	HGWA-44D (bg)	0	-1	-37	No	14	7.143	n/a	n/a	0.05	NP
Molybdenum (mg/L)	**HGWC-8**	**-0.02526**	**-194**	**-101**	**Yes**	**28**	**0**	**n/a**	**n/a**	**0.05**	**NP**

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

HGWA-1 (bg)



n = 28

Slope = 0 units per year.

Mann-Kendall statistic = 2
critical = 101

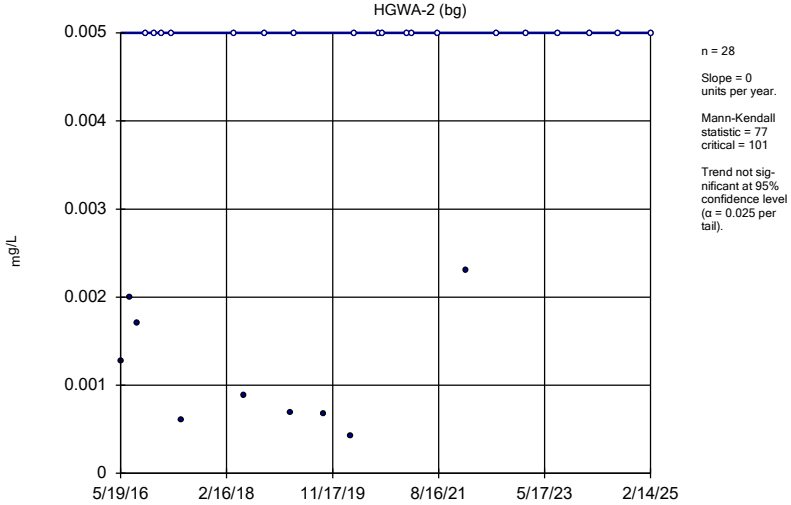
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Arsenic Analysis Run 4/22/2025 5:27 PM View: Appendix IV Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

HGWA-2 (bg)



n = 28

Slope = 0 units per year.

Mann-Kendall statistic = 77
critical = 101

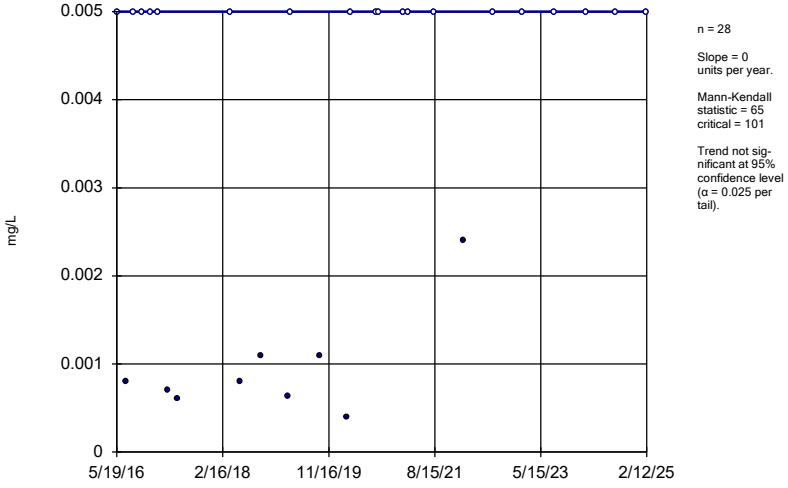
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Arsenic Analysis Run 4/22/2025 5:27 PM View: Appendix IV Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

HGWA-3 (bg)



n = 28

Slope = 0 units per year.

Mann-Kendall statistic = 65
critical = 101

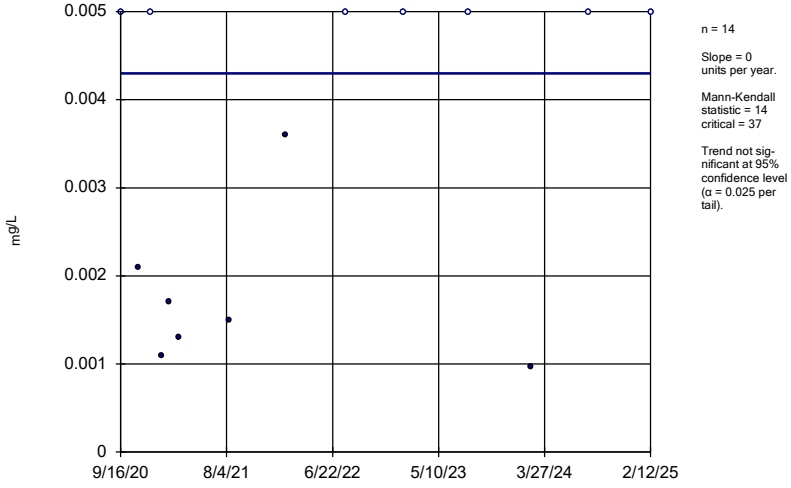
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Arsenic Analysis Run 4/22/2025 5:27 PM View: Appendix IV Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

HGWA-43D (bg)



n = 14

Slope = 0 units per year.

Mann-Kendall statistic = 14
critical = 37

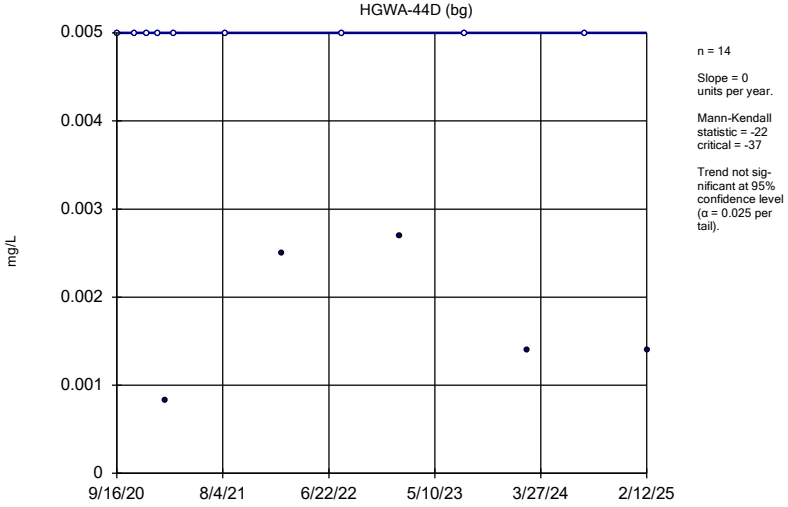
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Arsenic Analysis Run 4/22/2025 5:27 PM View: Appendix IV Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

HGWA-44D (bg)



n = 14

Slope = 0 units per year.

Mann-Kendall statistic = -22
critical = -37

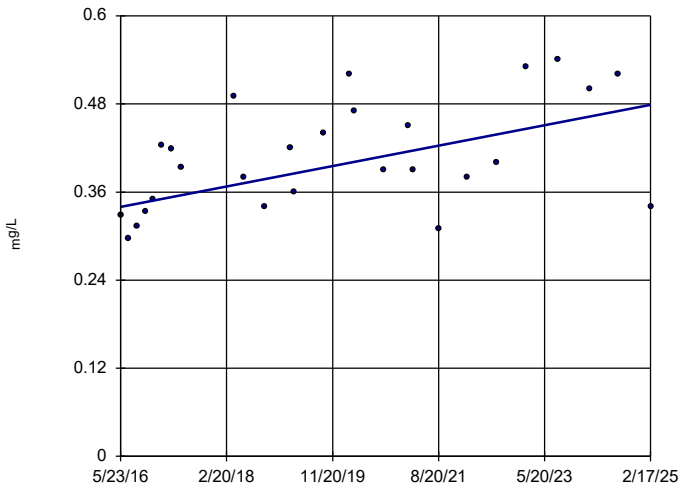
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Arsenic Analysis Run 4/22/2025 5:27 PM View: Appendix IV Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

HGWC-13



n = 27

Slope = 0.01588 units per year.

Mann-Kendall statistic = 131
critical = 96

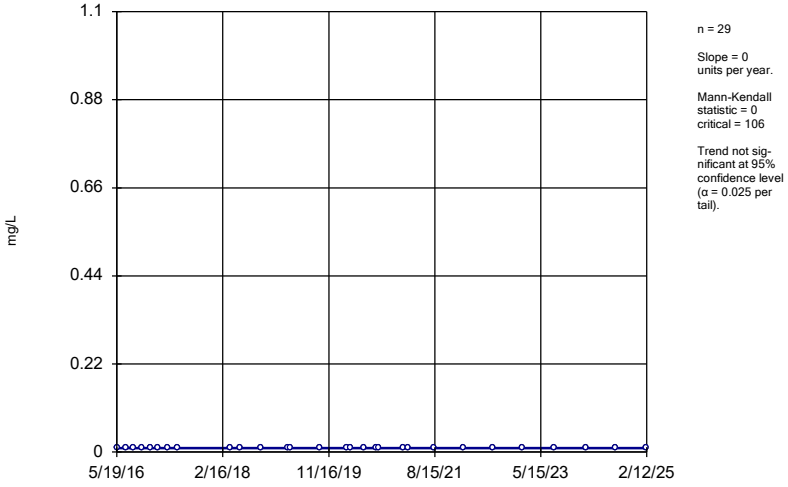
Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Arsenic Analysis Run 4/22/2025 5:27 PM View: Appendix IV Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

HGWA-1 (bg)



n = 29

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 106

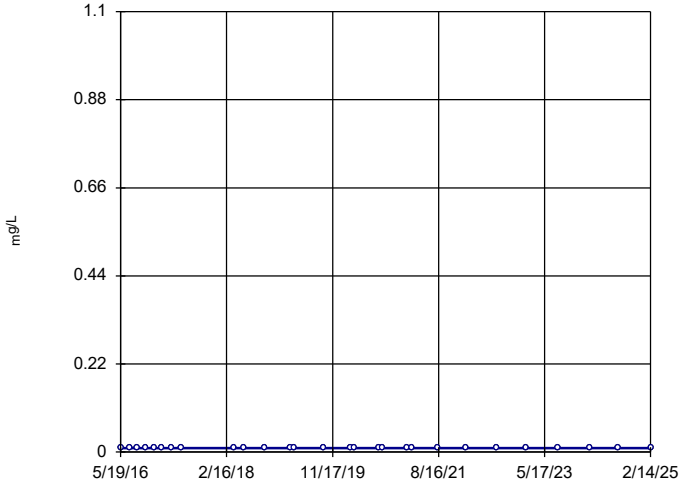
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Molybdenum Analysis Run 4/22/2025 5:27 PM View: Appendix IV Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

HGWA-2 (bg)



n = 28

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 101

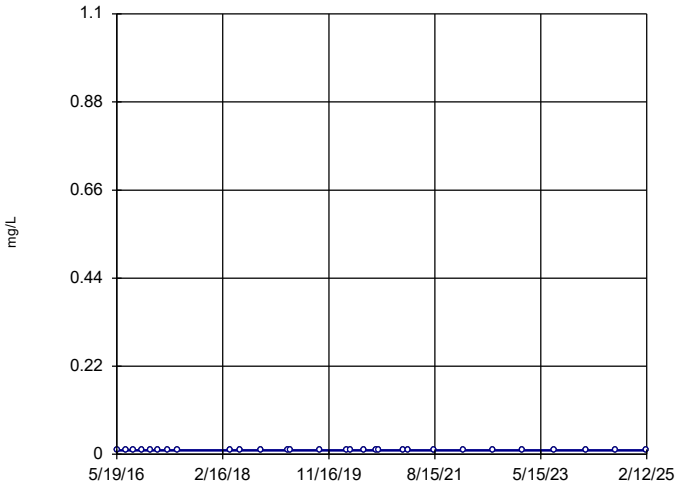
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Molybdenum Analysis Run 4/22/2025 5:27 PM View: Appendix IV Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

HGWA-3 (bg)



n = 29

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 106

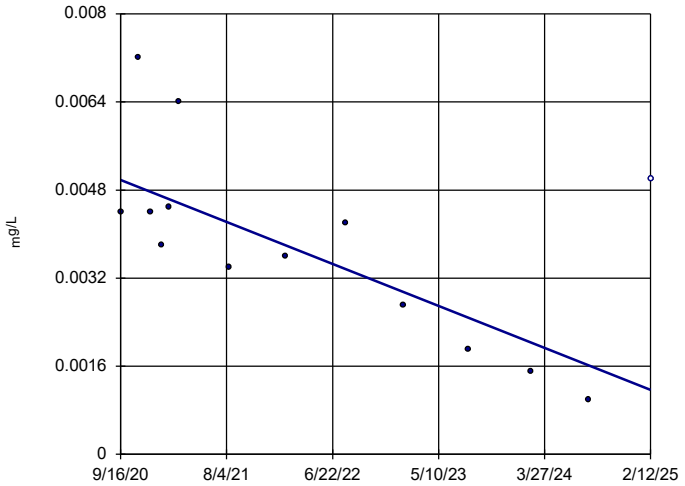
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Molybdenum Analysis Run 4/22/2025 5:27 PM View: Appendix IV Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

HGWA-43D (bg)



n = 14

Slope = -0.0008641 units per year.

Mann-Kendall statistic = -44
critical = -37

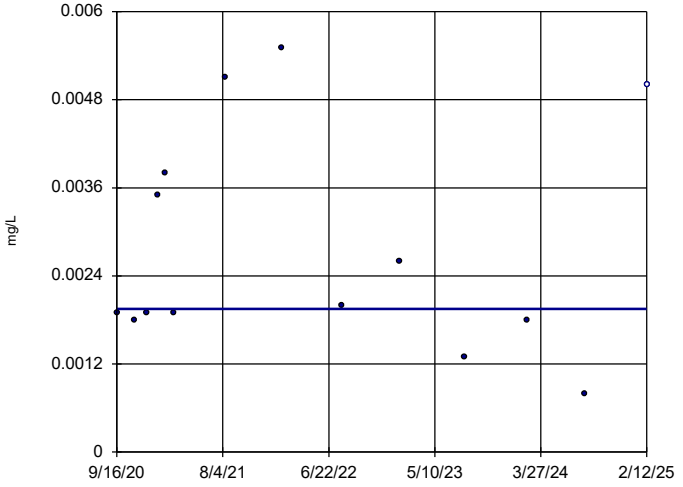
Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Molybdenum Analysis Run 4/22/2025 5:27 PM View: Appendix IV Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

HGWA-44D (bg)



n = 14

Slope = 0 units per year.

Mann-Kendall statistic = -1
critical = -37

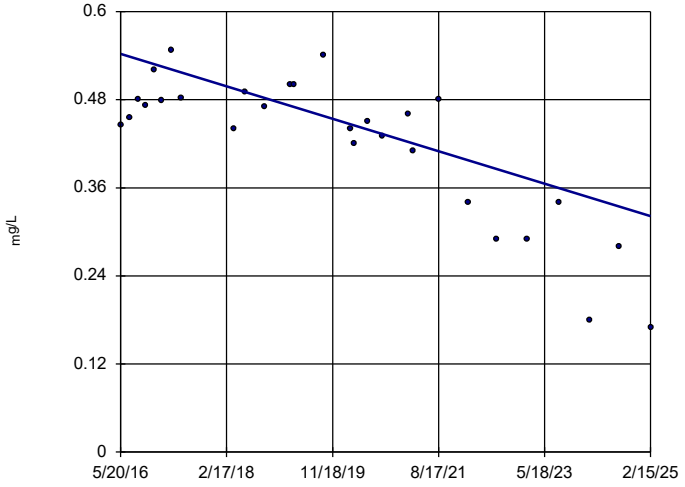
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Molybdenum Analysis Run 4/22/2025 5:27 PM View: Appendix IV Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.0.24 Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

HGWC-8



n = 28

Slope = -0.02526 units per year.

Mann-Kendall statistic = -194
critical = -101

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Molybdenum Analysis Run 4/22/2025 5:27 PM View: Appendix IV Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-1

AUGUST 2025

GROUNDWATER STATS CONSULTING

January 30, 2026

Southern Company Services
Attn: Ms. Kristen Jurinko
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308

Re: Plant Hammond Ash Pond 1 (AP-1)
Statistical Analysis – 2nd 2025 Semi-Annual Sample Event

Dear Ms. Jurinko,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the 2nd 2025 Semi-Annual Groundwater Detection and Assessment Monitoring statistical summary of groundwater data for Georgia Power Company's Plant Hammond AP-1. The analysis complies with the federal rule for the Disposal of Coal Combustion Residuals from Electric Utilities (CCR Rule, 2015), the Georgia Environmental Protection Division (EPD) Rules for Solid Waste Management Chapter 391-3-4-.10 and follows the United States Environmental Protection Agency (USEPA) Unified Guidance (2009).

Sampling began for the Coal Combustion Residuals (CCR) program in 2016, and at least 8 background samples have been collected at each of the upgradient and downgradient groundwater monitoring wells. The monitoring well network, as provided by Southern Company Services, consists of the following:

- **Upgradient wells:** HGWA-1, HGWA-2, HGWA-3, HGWA-43D, and HGWA-44D
- **Downgradient wells:** HGWC-7, HGWC-8, HGWC-9, HGWC-10, HGWC-11, HGWC-12, and HGWC-13
- **Assessment wells:** MW-19, MW-20, MW-24D, and MW-27D

Sampling at upgradient wells HGWA-43D and HGWA-44D began in September 2020 and all data from these wells are included in construction of interwell statistical limits. Sampling at assessment wells began in March 2019. Data from these wells are plotted on

the time series graphs and box plots, and are evaluated for Appendix IV constituents using confidence intervals, which require a minimum sample size of n=4.

Data were sent electronically to Groundwater Stats Consulting, and the statistical analysis was reviewed by Andrew Collins, Project Manager of Groundwater Stats Consulting. The statistical analysis was performed according to the groundwater screening that was performed in April 2018 by GSC and approved by Dr. Cameron, PhD Statistician with MacStat Consulting and primary author of the USEPA Unified Guidance (2009).

The CCR program consists of the constituents listed below. The terms "parameters" and "constituents" are used interchangeably.

- **Appendix III** (Detection Monitoring) **-** boron, calcium, chloride, fluoride, pH, sulfate, and TDS
- **Appendix IV** (Assessment Monitoring) **–** antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, combined radium 226 + 228, fluoride, lead, lithium, mercury, molybdenum, selenium, and thallium

Note that when there are no detections present in downgradient wells for a given constituent, statistical analyses are not required. A summary of Appendix IV downgradient and assessment well/constituent pairs with 100% non-detects follows this letter.

For all constituents, a substitution of the most recent reporting limit is used for non-detect data. In the cases of lithium, historical reporting limits vary among the wells. Therefore, the reporting limit of 0.002 mg/L, which is the most recent reporting limit provided by the laboratory, was substituted across all wells.

Time series plots for Appendix III and IV parameters at all wells are provided for the purpose of screening data at these wells (Figure A). Additionally, a separate section of box plots is included for all constituents at upgradient and downgradient wells (Figure B). The time series plots are used to initially screen for suspected outliers and trends, while the box plots provide visual representation of variation within individual wells and between all wells. Values in background which have been flagged as outliers may be seen in a lighter font and as a disconnected symbol on the graphs. A list of flagged values follows this report (Figure C).

In earlier analyses, data at all wells were evaluated for the following: 1) outliers; 2) trends; 3) most appropriate statistical method for Appendix III parameters based on site characteristics of groundwater data upgradient of the facility; and 4) eligibility of downgradient wells when intrawell statistical methods are recommended. Power curves

were provided with the previous screening to demonstrate that the selected statistical methods for Appendix III parameters comply with the USEPA Unified Guidance. The EPA suggests the selected statistical method should provide at least 55% power at 3 standard deviations or at least 80% power at 4 standard deviations.

Statistical Methods – Appendix III Parameters

The following Appendix III parameters are evaluated using interwell prediction limits combined with a 1-of-2 resample plan: boron, calcium, chloride, fluoride, pH, sulfate, and TDS.

Parametric prediction limits are utilized when the screened historical data follow a normal or transformed-normal distribution. When data cannot be normalized or the majority of data are non-detects, a nonparametric test is utilized. While the false positive rate associated with the parametric limits is based on an annual 10% (5% per semi-annual event) as recommended by the EPA Unified Guidance (2009), the false positive rate associated with the nonparametric limits is dependent upon the available background sample size, number of future comparisons, and verification resample plan. The distribution of data is tested using the Shapiro-Wilk/Shapiro-Francia test for normality. After testing for normality and performing any adjustments as discussed below (US EPA, 2009), data are analyzed using either parametric or non-parametric prediction limits.

- No statistical analyses are required on wells and analytes containing 100% non-detects (USEPA Unified Guidance, 2009, Chapter 6).
- When data contain <15% non-detects, simple substitution of one-half the reporting limit is utilized in the statistical analysis. The reporting limit utilized for non-detects is the most recent practical quantification limit (PQL) as reported by the laboratory.
- When data contain between 15-50% non-detects, the Kaplan-Meier non-detect adjustment is applied to the background data for parametric limit. This technique adjusts the mean and standard deviation of the historical concentrations to account for concentrations below the reporting limit.
- Nonparametric prediction limits are used on data containing greater than 50% non-detects.

Note that values shown on data pages reflect raw data and any non-detects that have been substituted with one-half of the reporting limit will be shown as the original reporting limit.

Natural systems continuously evolve due to physical changes made to the environment. Examples include capping a landfill, paving areas near a well, or lining a drainage channel to prevent erosion. Periodic updating of background statistical limits is necessary to accommodate these types of changes. In the interwell case, prediction limits are updated with upgradient well data during each event after careful screening for any new outliers. In some cases, an earlier portion of data may require deselection prior to construction of limits to provide sensitive limits that will rapidly detect changes in groundwater quality. Even though the data are excluded from the calculation, the values will continue to be reported and shown in tables and graphs. When this step is required a summary of any adjusted records will be provided.

Statistical Analysis of Appendix III Parameters – August 2025

All Appendix III parameters were analyzed using interwell prediction limits. Background (upgradient) well data were reassessed for potential outliers during this analysis. No new values were flagged as shown in the outlier summary following this report (Figure C).

Interwell Prediction Limits

Interwell prediction limits, combined with a 1-of-2 resample plan, were constructed for Appendix III parameters using all historical upgradient well data through August 2025 (Figure D). Interwell prediction limits pool upgradient well data to establish a background limit for an individual constituent. The August 2025 sample from each downgradient well is compared to the background limit to determine whether initial exceedances are present.

In the event of an initial exceedance of compliance well data, the 1-of-2 resample plan allows for collection of one additional sample to determine whether the initial exceedance is confirmed. When a resample confirms the initial exceedance, a statistically significant increase (SSI) is identified and further research would be required to identify the cause of the exceedance (i.e., impact from the site, natural variation, or an off-site source). If the resample falls within the statistical limit, the initial exceedance is considered to be a false positive result and, therefore, no exceedance is noted and no further action is necessary. If no resample is collected, the original result is considered a confirmed exceedance.

When the August 2025 compliance data from downgradient wells were compared to interwell prediction limits, exceedances were identified for the following well/constituent pairs:

- Boron: HGWC-7, HGWC-8, HGWC-9, HGWC-12, and HGWC-13
- Chloride: HGWC-9
- Sulfate: HGWC-7, HGWC-9, HGWC-11, HGWC-12, and HGWC-13

A summary table of these findings is provided along with the prediction limits.

Trend Test Evaluation – Appendix III

When prediction limit exceedances are identified in downgradient wells, data are further evaluated using the Sen's Slope/Mann Kendall trend test to determine whether concentrations are statistically increasing, decreasing, or stable at the 99% confidence level (Figure E). Upgradient well data are included in the trend analyses for all parameters found to exceed their prediction limit in downgradient wells to identify whether similar patterns exist upgradient of the site. Upgradient trends are an indication of variability in groundwater unrelated to practices at the site. A summary of the trend test results follows this letter. Statistically significant trends were noted for the following well/constituent pairs:

Increasing trends:
- Boron: HGWA-2 and HGWA-44D (both upgradient)
- Chloride: HGWA-44D (upgradient)
- Sulfate: HGWA-2 (upgradient)

Decreasing trends:
- Boron: HGWA-43D (upgradient), HGWC-12, and HGWC-13
- Chloride: HGWA-3 (upgradient) and HGWC-9
- Sulfate: HGWA-43D (upgradient), HGWC-9, and HGWC-11

Statistical Methods – Appendix IV Parameters

Appendix IV parameters are evaluated by statistically comparing the mean or median of each downgradient well/constituent pair against corresponding Groundwater Protection Standards (GWPS). The GWPS may be either regulatory (Maximum Contaminant Limits (MCL) or CCR rule-specified limits) or site-specific limits that are based on upgradient background groundwater quality. Site-specific background limits are determined using tolerance limits, and the comparison of downgradient means or medians to GWPS is performed using confidence intervals. The methods are described below.

Statistical Evaluation of Appendix IV Parameters – August 2025

For Appendix IV parameters, confidence intervals for each downgradient well/constituent pair were compared against corresponding Groundwater Protection Standards (GWPS). GWPS were developed as described below. Well/constituent pairs containing 100% non-detects do not require analyses.

Data from all wells for Appendix IV parameters are reassessed for outliers during each analysis. In previous reports, elevated concentrations for lithium at upgradient well HGWA-44D were flagged as outliers. More recent concentrations have continued to increase for lithium at upgradient well HGWA-44D; therefore, the record was truncated, in lieu of flagged outliers, to use observations between September 2020 and January 2023 to maintain conservative limits from a regulatory perspective. If further studies indicate the flagged measurements represent variation in groundwater quality, the values will be re-evaluated for construction of interwell upper tolerance limits. A list of any well/constituent pairs using a truncated portion of their record follows this letter.

Interwell Upper Tolerance Limits

Interwell upper tolerance limits were used to calculate site-specific background limits from all available pooled upgradient well data through August 2025 for Appendix IV constituents (Figure F). Parametric tolerance limits are calculated, with a target of 95% confidence and 95% coverage, when data follow a normal or transformed-normal distribution, such as the case for combined radium 226 + 228. When data contained greater than 50% non-detects or did not follow a normal or transformed-normal distribution, non-parametric tolerance limits were used. As mentioned above, a reporting limit of 0.002 mg/L, which is the most recent reporting limit provided by the laboratory, was substituted for lithium.

Groundwater Protection Standards

The background limits were then used when determining the groundwater protection standard (GWPS) under 40 CFR §257.95(h) and Georgia EPD Rule 391-3-4-.10(6)(a). On July 30, 2018, US EPA revised the Federal CCR rule updating GWPS for cobalt, lead, lithium, and molybdenum as described above in 40 CFR §257.95(h)(2). Effective on February 22, 2022, Georgia EPD incorporated the updated GWPS into the current Georgia EPD Rules for Solid Waste Management 391-3-4-.10(6)(a). In accordance with the updated Rules, the GWPS is:

- The maximum contaminant level (MCL) established under §141.62 and §141.66 of this title
- Where an MCL has not been established for a constituent, Federal and State CCR Rules specify levels for cobalt (0.006 mg/L), lead (0.015 mg/L), lithium (0.040 mg/L), and molybdenum (0.100 mg/L)
- The respective background level for a constituent when the background level is higher than the MCL or Federal CCR Rule identified GWPS

Following Georgia EPD Rule requirements and the Federal CCR requirements, GWPS were established for statistical comparison of Appendix IV constituents for this sample event (Figure G).

Confidence Intervals

To complete the statistical comparison to GWPS, confidence intervals using data through August 2025 were constructed for each of the Appendix IV constituents in each downgradient well with 8 or more samples and assessment wells with 4 or more samples.

The Sanitas software was used to calculate the confidence intervals. These intervals were constructed as either parametric or nonparametric confidence intervals depending on the data distribution and percentage of non-detects. When data followed a normal or transformed-normal distribution, parametric confidence intervals were used for Appendix IV parameters. Nonparametric confidence intervals, which use the appropriate order statistics as interval limits depending on the sample size, were constructed when data did not follow a normal or transformed-normal distribution or when there were greater than 50% non-detects. The lower confidence limit, which is constructed with 99% confidence for parametric confidence intervals, is compared to the GWPS prepared as described above. The achievable confidence level associated with nonparametric confidence intervals is dependent upon the number samples available.

Confidence intervals were compared to the GWPS prepared as described above (Figure H). Only when the entire confidence interval is above a GWPS is the downgradient well/constituent pair considered to exceed its respective standard. If there is an exceedance of the GWPS, a statistically significant level (SSL) exceedance is identified. Summaries of the confidence interval results, along with graphical comparison against GWPS follow this letter. Exceedances were noted for the following well/constituent pairs:

- Arsenic: HGWC-13
- Molybdenum: HGWC-8

Trend Test Evaluation – Appendix IV

Data at wells with confidence interval exceedances are further evaluated using the Sen's Slope/Mann Kendall trend test at the 95% confidence level to determine whether concentrations are statistically increasing, decreasing, or stable (Figure I). Although the trend tests for Assessment monitoring pairs were previously evaluated using 99% confidence, the 95% confidence level more rapidly identifies statistically significant trends. Additionally, the 95% confidence level is recommended in cases with limited sample sizes and, particularly, for new assessment wells. Upgradient wells are included in the trend analyses to identify whether similar patterns exist upgradient of the site for the same constituents. When trends are present in upgradient wells, it is an indication of variability in groundwater quality unrelated to practices at the site. A summary of the Appendix IV trend test results follows this letter. Statistically significant trends were identified for the following well/constituent pairs:

Increasing trend:
- Arsenic: HGWC-13

Decreasing trends:
- Molybdenum: HGWC-8

Summary

Observations from the August 2025 sample event at Hammond AP-1 were compared to established interwell prediction limits for all Appendix III constituents. Exceedances were identified for the following well/constituent pairs:

- Boron: HGWC-7, HGWC-8, HGWC-9, HGWC-12, and HGWC-13
- Chloride: HGWC-9
- Sulfate: HGWC-7, HGWC-9, HGWC-11, HGWC-12, and HGWC-13

When confidence intervals were constructed on downgradient and assessment wells for Appendix IV constituents and compared to respective GWPS, exceedances were noted for the following well/constituent pairs:

- Arsenic: HGWC-13
- Molybdenum: HGWC-8

Thank you for the opportunity to assist you in the statistical analysis of groundwater quality for Hammond AP-1. If you have any questions or comments, please feel free to contact us.

For Groundwater Stats Consulting,

Tristan Clark
Groundwater Analyst

Andrew T. Collins
Project Manager

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Summary Tables

Date Ranges

Date: 10/14/2025 4:14 PM

Plant Hammond Client: Southern Company Data: Hammond AP-1

Lithium (mg/L)

HGWA-44D overall:9/16/2020-1/24/2023

100% Non-Detects: Appendix IV Downgradient & Assessment

Analysis Run 10/16/2025 3:36 PM View: Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

Antimony (mg/L)
HGWC-12, MW-19, MW-20

Arsenic (mg/L)
HGWC-10, MW-24D

Beryllium (mg/L)
HGWC-9, HGWC-10, HGWC-12, MW-20, MW-24D, MW-27D

Cadmium (mg/L)
HGWC-13, MW-20, MW-24D, MW-27D

Lithium (mg/L)
HGWC-10, HGWC-11

Mercury (mg/L)
HGWC-7, HGWC-8, HGWC-12, MW-19, MW-20, MW-24D, MW-27D

Molybdenum (mg/L)
MW-20

Selenium (mg/L)
HGWC-7, MW-20, MW-24D

Thallium (mg/L)
HGWC-7, HGWC-9, HGWC-10, MW-20, MW-24D, MW-27D

Appendix III - Interwell Prediction Limits - Significant Results

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 10/14/2025, 4:22 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	**HGWC-7**	**0.55**	**n/a**	**8/6/2025**	**0.74**	**Yes**	**105**	**n/a**	**n/a**	**5.714**	**n/a**	**n/a**	**0.0001784**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**HGWC-8**	**0.55**	**n/a**	**8/6/2025**	**1.3**	**Yes**	**105**	**n/a**	**n/a**	**5.714**	**n/a**	**n/a**	**0.0001784**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**HGWC-9**	**0.55**	**n/a**	**8/7/2025**	**2**	**Yes**	**105**	**n/a**	**n/a**	**5.714**	**n/a**	**n/a**	**0.0001784**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**HGWC-12**	**0.55**	**n/a**	**8/6/2025**	**1.1**	**Yes**	**105**	**n/a**	**n/a**	**5.714**	**n/a**	**n/a**	**0.0001784**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**HGWC-13**	**0.55**	**n/a**	**8/10/2025**	**0.77**	**Yes**	**105**	**n/a**	**n/a**	**5.714**	**n/a**	**n/a**	**0.0001784**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**HGWC-9**	**44.8**	**n/a**	**8/7/2025**	**84.4**	**Yes**	**105**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001784**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**HGWC-7**	**94.5**	**n/a**	**8/6/2025**	**97.2**	**Yes**	**105**	**n/a**	**n/a**	**0.9524**	**n/a**	**n/a**	**0.0001784**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**HGWC-9**	**94.5**	**n/a**	**8/7/2025**	**148**	**Yes**	**105**	**n/a**	**n/a**	**0.9524**	**n/a**	**n/a**	**0.0001784**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**HGWC-11**	**94.5**	**n/a**	**8/6/2025**	**182**	**Yes**	**105**	**n/a**	**n/a**	**0.9524**	**n/a**	**n/a**	**0.0001784**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**HGWC-12**	**94.5**	**n/a**	**8/6/2025**	**173**	**Yes**	**105**	**n/a**	**n/a**	**0.9524**	**n/a**	**n/a**	**0.0001784**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**HGWC-13**	**94.5**	**n/a**	**8/10/2025**	**131**	**Yes**	**105**	**n/a**	**n/a**	**0.9524**	**n/a**	**n/a**	**0.0001784**	**NP Inter (normality) 1 of 2**

Appendix III - Interwell Prediction Limits - All Results

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 10/14/2025, 4:22 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	**HGWC-7**	**0.55**	**n/a**	**8/6/2025**	**0.74**	**Yes**	**105**	**n/a**	**n/a**	**5.714**	**n/a**	**n/a**	**0.0001784**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**HGWC-8**	**0.55**	**n/a**	**8/6/2025**	**1.3**	**Yes**	**105**	**n/a**	**n/a**	**5.714**	**n/a**	**n/a**	**0.0001784**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**HGWC-9**	**0.55**	**n/a**	**8/7/2025**	**2**	**Yes**	**105**	**n/a**	**n/a**	**5.714**	**n/a**	**n/a**	**0.0001784**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	HGWC-10	0.55	n/a	8/6/2025	0.16	No	105	n/a	n/a	5.714	n/a	n/a	0.0001784	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-11	0.55	n/a	8/6/2025	0.24	No	105	n/a	n/a	5.714	n/a	n/a	0.0001784	NP Inter (normality) 1 of 2
Boron (mg/L)	**HGWC-12**	**0.55**	**n/a**	**8/6/2025**	**1.1**	**Yes**	**105**	**n/a**	**n/a**	**5.714**	**n/a**	**n/a**	**0.0001784**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**HGWC-13**	**0.55**	**n/a**	**8/10/2025**	**0.77**	**Yes**	**105**	**n/a**	**n/a**	**5.714**	**n/a**	**n/a**	**0.0001784**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	HGWC-7	138	n/a	8/6/2025	92.3	No	105	n/a	n/a	0	n/a	n/a	0.0001784	NP Inter (normality) 1 of 2
Calcium (mg/L)	HGWC-8	138	n/a	8/6/2025	57.6	No	105	n/a	n/a	0	n/a	n/a	0.0001784	NP Inter (normality) 1 of 2
Calcium (mg/L)	HGWC-9	138	n/a	8/7/2025	122	No	105	n/a	n/a	0	n/a	n/a	0.0001784	NP Inter (normality) 1 of 2
Calcium (mg/L)	HGWC-10	138	n/a	8/6/2025	70.3	No	105	n/a	n/a	0	n/a	n/a	0.0001784	NP Inter (normality) 1 of 2
Calcium (mg/L)	HGWC-11	138	n/a	8/6/2025	70	No	105	n/a	n/a	0	n/a	n/a	0.0001784	NP Inter (normality) 1 of 2
Calcium (mg/L)	HGWC-12	138	n/a	8/6/2025	130	No	105	n/a	n/a	0	n/a	n/a	0.0001784	NP Inter (normality) 1 of 2
Calcium (mg/L)	HGWC-13	138	n/a	8/10/2025	109	No	105	n/a	n/a	0	n/a	n/a	0.0001784	NP Inter (normality) 1 of 2
Chloride (mg/L)	HGWC-7	44.8	n/a	8/6/2025	27.7	No	105	n/a	n/a	0	n/a	n/a	0.0001784	NP Inter (normality) 1 of 2
Chloride (mg/L)	HGWC-8	44.8	n/a	8/6/2025	21.9	No	105	n/a	n/a	0	n/a	n/a	0.0001784	NP Inter (normality) 1 of 2
Chloride (mg/L)	**HGWC-9**	**44.8**	**n/a**	**8/7/2025**	**84.4**	**Yes**	**105**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001784**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	HGWC-10	44.8	n/a	8/6/2025	2.1	No	105	n/a	n/a	0	n/a	n/a	0.0001784	NP Inter (normality) 1 of 2
Chloride (mg/L)	HGWC-11	44.8	n/a	8/6/2025	2.5	No	105	n/a	n/a	0	n/a	n/a	0.0001784	NP Inter (normality) 1 of 2
Chloride (mg/L)	HGWC-12	44.8	n/a	8/6/2025	21.3	No	105	n/a	n/a	0	n/a	n/a	0.0001784	NP Inter (normality) 1 of 2
Chloride (mg/L)	HGWC-13	44.8	n/a	8/10/2025	14.8	No	105	n/a	n/a	0	n/a	n/a	0.0001784	NP Inter (normality) 1 of 2
Fluoride (mg/L)	HGWC-7	1.5	n/a	8/6/2025	0.11	No	122	n/a	n/a	26.23	n/a	n/a	0.0001314	NP Inter (normality) 1 of 2
Fluoride (mg/L)	HGWC-8	1.5	n/a	8/6/2025	0.22	No	122	n/a	n/a	26.23	n/a	n/a	0.0001314	NP Inter (normality) 1 of 2
Fluoride (mg/L)	HGWC-9	1.5	n/a	8/7/2025	0.1	No	122	n/a	n/a	26.23	n/a	n/a	0.0001314	NP Inter (normality) 1 of 2
Fluoride (mg/L)	HGWC-10	1.5	n/a	8/6/2025	0.16	No	122	n/a	n/a	26.23	n/a	n/a	0.0001314	NP Inter (normality) 1 of 2
Fluoride (mg/L)	HGWC-11	1.5	n/a	8/6/2025	0.22	No	122	n/a	n/a	26.23	n/a	n/a	0.0001314	NP Inter (normality) 1 of 2
Fluoride (mg/L)	HGWC-12	1.5	n/a	8/6/2025	0.32	No	122	n/a	n/a	26.23	n/a	n/a	0.0001314	NP Inter (normality) 1 of 2
Fluoride (mg/L)	HGWC-13	1.5	n/a	8/10/2025	0.44	No	122	n/a	n/a	26.23	n/a	n/a	0.0001314	NP Inter (normality) 1 of 2
pH, Field (SU)	HGWC-7	8.49	4.57	8/6/2025	7.28	No	126	n/a	n/a	0	n/a	n/a	0.0002486	NP Inter (normality) 1 of 2
pH, Field (SU)	HGWC-8	8.49	4.57	8/6/2025	5.61	No	126	n/a	n/a	0	n/a	n/a	0.0002486	NP Inter (normality) 1 of 2
pH, Field (SU)	HGWC-9	8.49	4.57	8/7/2025	6.32	No	126	n/a	n/a	0	n/a	n/a	0.0002486	NP Inter (normality) 1 of 2
pH, Field (SU)	HGWC-10	8.49	4.57	8/6/2025	6.51	No	126	n/a	n/a	0	n/a	n/a	0.0002486	NP Inter (normality) 1 of 2
pH, Field (SU)	HGWC-11	8.49	4.57	8/6/2025	5.44	No	126	n/a	n/a	0	n/a	n/a	0.0002486	NP Inter (normality) 1 of 2
pH, Field (SU)	HGWC-12	8.49	4.57	8/6/2025	6.98	No	126	n/a	n/a	0	n/a	n/a	0.0002486	NP Inter (normality) 1 of 2
pH, Field (SU)	HGWC-13	8.49	4.57	8/10/2025	6.78	No	126	n/a	n/a	0	n/a	n/a	0.0002486	NP Inter (normality) 1 of 2
Sulfate (mg/L)	**HGWC-7**	**94.5**	**n/a**	**8/6/2025**	**97.2**	**Yes**	**105**	**n/a**	**n/a**	**0.9524**	**n/a**	**n/a**	**0.0001784**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	HGWC-8	94.5	n/a	8/6/2025	90.3	No	105	n/a	n/a	0.9524	n/a	n/a	0.0001784	NP Inter (normality) 1 of 2
Sulfate (mg/L)	**HGWC-9**	**94.5**	**n/a**	**8/7/2025**	**148**	**Yes**	**105**	**n/a**	**n/a**	**0.9524**	**n/a**	**n/a**	**0.0001784**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	HGWC-10	94.5	n/a	8/6/2025	57.2	No	105	n/a	n/a	0.9524	n/a	n/a	0.0001784	NP Inter (normality) 1 of 2
Sulfate (mg/L)	**HGWC-11**	**94.5**	**n/a**	**8/6/2025**	**182**	**Yes**	**105**	**n/a**	**n/a**	**0.9524**	**n/a**	**n/a**	**0.0001784**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**HGWC-12**	**94.5**	**n/a**	**8/6/2025**	**173**	**Yes**	**105**	**n/a**	**n/a**	**0.9524**	**n/a**	**n/a**	**0.0001784**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**HGWC-13**	**94.5**	**n/a**	**8/10/2025**	**131**	**Yes**	**105**	**n/a**	**n/a**	**0.9524**	**n/a**	**n/a**	**0.0001784**	**NP Inter (normality) 1 of 2**
TDS (mg/L)	HGWC-7	632	n/a	8/6/2025	407	No	105	n/a	n/a	0	n/a	n/a	0.0001784	NP Inter (normality) 1 of 2
TDS (mg/L)	HGWC-8	632	n/a	8/6/2025	333	No	105	n/a	n/a	0	n/a	n/a	0.0001784	NP Inter (normality) 1 of 2
TDS (mg/L)	HGWC-9	632	n/a	8/7/2025	613	No	105	n/a	n/a	0	n/a	n/a	0.0001784	NP Inter (normality) 1 of 2
TDS (mg/L)	HGWC-10	632	n/a	8/6/2025	280	No	105	n/a	n/a	0	n/a	n/a	0.0001784	NP Inter (normality) 1 of 2
TDS (mg/L)	HGWC-11	632	n/a	8/6/2025	379	No	105	n/a	n/a	0	n/a	n/a	0.0001784	NP Inter (normality) 1 of 2
TDS (mg/L)	HGWC-12	632	n/a	8/6/2025	581	No	105	n/a	n/a	0	n/a	n/a	0.0001784	NP Inter (normality) 1 of 2
TDS (mg/L)	HGWC-13	632	n/a	8/10/2025	473	No	105	n/a	n/a	0	n/a	n/a	0.0001784	NP Inter (normality) 1 of 2

Appendix III Trend Tests - Prediction Limit Exceedances - Significant Results

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 10/14/2025, 4:26 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	**HGWA-2 (bg)**	**0.002437**	**196**	**111**	**Yes**	**25**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**HGWA-43D (bg)**	**-0.004011**	**-55**	**-48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**HGWA-44D (bg)**	**0.05214**	**61**	**48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**HGWC-12**	**-0.1628**	**-193**	**-111**	**Yes**	**25**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**HGWC-13**	**-0.1762**	**-200**	**-118**	**Yes**	**26**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**HGWA-3 (bg)**	**-0.158**	**-198**	**-118**	**Yes**	**26**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**HGWA-44D (bg)**	**5.375**	**59**	**48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**HGWC-9**	**-9.996**	**-223**	**-111**	**Yes**	**25**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**HGWA-2 (bg)**	**4.265**	**212**	**111**	**Yes**	**25**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**HGWA-43D (bg)**	**-3.534**	**-79**	**-48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**HGWC-9**	**-5.359**	**-143**	**-111**	**Yes**	**25**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**HGWC-11**	**-10.86**	**-124**	**-111**	**Yes**	**25**	**4**	**n/a**	**n/a**	**0.01**	**NP**

Appendix III Trend Tests - Prediction Limit Exceedances - All Results

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 10/14/2025, 4:26 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	HGWA-1 (bg)	0	-6	-118	No	26	0	n/a	n/a	0.01	NP
Boron (mg/L)	**HGWA-2 (bg)**	**0.002437**	**196**	**111**	**Yes**	**25**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	HGWA-3 (bg)	0.0003332	61	118	No	26	23.08	n/a	n/a	0.01	NP
Boron (mg/L)	**HGWA-43D (bg)**	**-0.004011**	**-55**	**-48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**HGWA-44D (bg)**	**0.05214**	**61**	**48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	HGWC-7	0.008295	41	118	No	26	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWC-8	-0.05153	-99	-118	No	26	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWC-9	0.008191	39	111	No	25	0	n/a	n/a	0.01	NP
Boron (mg/L)	**HGWC-12**	**-0.1628**	**-193**	**-111**	**Yes**	**25**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**HGWC-13**	**-0.1762**	**-200**	**-118**	**Yes**	**26**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	HGWA-1 (bg)	0.5362	82	118	No	26	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWA-2 (bg)	0.1567	83	111	No	25	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**HGWA-3 (bg)**	**-0.158**	**-198**	**-118**	**Yes**	**26**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	HGWA-43D (bg)	-0.09838	-33	-48	No	14	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**HGWA-44D (bg)**	**5.375**	**59**	**48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**HGWC-9**	**-9.996**	**-223**	**-111**	**Yes**	**25**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	HGWA-1 (bg)	0.3568	22	118	No	26	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**HGWA-2 (bg)**	**4.265**	**212**	**111**	**Yes**	**25**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	HGWA-3 (bg)	-1.043	-79	-118	No	26	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**HGWA-43D (bg)**	**-3.534**	**-79**	**-48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	HGWA-44D (bg)	-1.694	-33	-48	No	14	7.143	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWC-7	-0.4475	-67	-118	No	26	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**HGWC-9**	**-5.359**	**-143**	**-111**	**Yes**	**25**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**HGWC-11**	**-10.86**	**-124**	**-111**	**Yes**	**25**	**4**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	HGWC-12	-8.346	-104	-111	No	25	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWC-13	13.14	54	111	No	25	0	n/a	n/a	0.01	NP

Upper Tolerance Limits - Summary Table

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 10/16/2025, 3:35 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	n/a	0.002	n/a	n/a	n/a	n/a	111	85.59	n/a	n/a	0.003368	NP Inter(NDs)
Arsenic (mg/L)	n/a	0.0036	n/a	n/a	n/a	n/a	117	71.79	n/a	n/a	0.002475	NP Inter(NDs)
Barium (mg/L)	n/a	0.46	n/a	n/a	n/a	n/a	117	0	n/a	n/a	0.002475	NP Inter(normality)
Beryllium (mg/L)	n/a	0.0004	n/a	n/a	n/a	n/a	111	78.38	n/a	n/a	0.003368	NP Inter(NDs)
Cadmium (mg/L)	n/a	0.0005	n/a	n/a	n/a	n/a	117	84.62	n/a	n/a	0.002475	NP Inter(NDs)
Chromium (mg/L)	n/a	0.0079	n/a	n/a	n/a	n/a	111	86.49	n/a	n/a	0.003368	NP Inter(NDs)
Cobalt (mg/L)	n/a	0.038	n/a	n/a	n/a	n/a	117	71.79	n/a	n/a	0.002475	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	n/a	1.571	n/a	n/a	n/a	n/a	117	0	None	sqrt(x)	0.05	Inter
Fluoride (mg/L)	n/a	1.5	n/a	n/a	n/a	n/a	122	26.23	n/a	n/a	0.001915	NP Inter(normality)
Lead (mg/L)	n/a	0.001	n/a	n/a	n/a	n/a	111	73.87	n/a	n/a	0.003368	NP Inter(NDs)
Lithium (mg/L)	n/a	0.064	n/a	n/a	n/a	n/a	112	17.86	n/a	n/a	0.003199	NP Inter(normality)
Mercury (mg/L)	n/a	0.0002	n/a	n/a	n/a	n/a	94	97.87	n/a	n/a	0.008054	NP Inter(NDs)
Molybdenum (mg/L)	n/a	0.01	n/a	n/a	n/a	n/a	119	78.15	n/a	n/a	0.002234	NP Inter(NDs)
Selenium (mg/L)	n/a	0.005	n/a	n/a	n/a	n/a	117	94.87	n/a	n/a	0.002475	NP Inter(NDs)
Thallium (mg/L)	n/a	0.0005	n/a	n/a	n/a	n/a	117	99.15	n/a	n/a	0.002475	NP Inter(NDs)

PLANT HAMMOND AP-1 GWPS				
Constituent Name	**MCL**	**CCR-Rule Specified**	**Background Limit**	**GWPS**
Antimony, Total (mg/L)	0.006		0.002	0.006
Arsenic, Total (mg/L)	0.01		0.0036	0.01
Barium, Total (mg/L)	2		0.46	2
Beryllium, Total (mg/L)	0.004		0.0004	0.004
Cadmium, Total (mg/L)	0.005		0.0005	0.005
Chromium, Total (mg/L)	0.1		0.0079	0.1
Cobalt, Total (mg/L)	n/a	0.006	0.038	0.038
Combined Radium, Total (pCi/L)	5		1.57	5
Fluoride, Total (mg/L)	4		1.5	4
Lead, Total (mg/L)	n/a	0.015	0.001	0.015
Lithium, Total (mg/L)	n/a	0.04	0.064	0.064
Mercury, Total (mg/L)	0.002		0.0002	0.002
Molybdenum, Total (mg/L)	n/a	0.1	0.01	0.1
Selenium, Total (mg/L)	0.05		0.005	0.05
Thallium, Total (mg/L)	0.002		0.0005	0.002

**Gray cell indicates background is higher than MCL or CCR-Rule*

**MCL = Maximum Contaminant Level*

**CCR = Coal Combustion Residuals*

**GWPS = Groundwater Protection Statard*

Confidence Interval Summary Table - Significant Results

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 10/16/2025, 3:39 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	**HGWC-13**	**0.4453**	**0.3769**	**0.01**	**Yes**	**28**	**0.4111**	**0.07317**	**0**	**None**	**No**	**0.01**	**Param.**
Molybdenum (mg/L)	**HGWC-8**	**0.4663**	**0.3799**	**0.1**	**Yes**	**29**	**0.4086**	**0.1203**	**0**	**None**	**x^2**	**0.01**	**Param.**

Confidence Interval Summary Table - All Results

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 10/16/2025, 3:39 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	HGWC-7	0.002	0.0017	0.006	No	26	0.001925	0.0003285	92.31	None	No	0.01	NP (NDs)
Antimony (mg/L)	HGWC-8	0.002	0.00064	0.006	No	26	0.001948	0.0002667	96.15	None	No	0.01	NP (NDs)
Antimony (mg/L)	HGWC-9	0.002	0.00092	0.006	No	26	0.001773	0.0005516	84.62	None	No	0.01	NP (NDs)
Antimony (mg/L)	HGWC-10	0.002	0.0018	0.006	No	26	0.00194	0.0002661	92.31	None	No	0.01	NP (NDs)
Antimony (mg/L)	HGWC-11	0.002	0.00038	0.006	No	26	0.001938	0.0003177	96.15	None	No	0.01	NP (NDs)
Antimony (mg/L)	HGWC-13	0.002	0.00061	0.006	No	26	0.001567	0.0007315	73.08	None	No	0.01	NP (NDs)
Antimony (mg/L)	MW-24D	0.002	0.0017	0.006	No	17	0.001836	0.0004131	82.35	None	No	0.01	NP (NDs)
Antimony (mg/L)	MW-27D	0.002	0.00031	0.006	No	17	0.001401	0.0008369	64.71	None	No	0.01	NP (NDs)
Arsenic (mg/L)	HGWC-7	0.002	0.0019	0.01	No	28	0.001996	0.0000189	96.43	None	No	0.01	NP (NDs)
Arsenic (mg/L)	HGWC-8	0.002	0.002	0.01	No	28	0.002	1.8e-11	96.43	None	No	0.01	NP (NDs)
Arsenic (mg/L)	HGWC-9	0.002	0.0008	0.01	No	28	0.001858	0.0004348	85.71	None	No	0.01	NP (NDs)
Arsenic (mg/L)	HGWC-11	0.0022	0.002	0.01	No	28	0.00208	0.0009037	53.57	None	No	0.01	NP (NDs)
Arsenic (mg/L)	HGWC-12	0.00422	0.003059	0.01	No	28	0.003639	0.001242	10.71	None	No	0.01	Param.
Arsenic (mg/L)	**HGWC-13**	**0.4453**	**0.3769**	**0.01**	**Yes**	**28**	**0.4111**	**0.07317**	**0**	**None**	**No**	**0.01**	**Param.**
Arsenic (mg/L)	MW-19	0.002	0.00045	0.01	No	17	0.001909	0.0003759	94.12	None	No	0.01	NP (NDs)
Arsenic (mg/L)	MW-20	0.0023	0.00094	0.01	No	17	0.00186	0.000468	82.35	None	No	0.01	NP (NDs)
Arsenic (mg/L)	MW-27D	0.005	0.0013	0.01	No	17	0.004011	0.001849	76.47	None	No	0.01	NP (NDs)
Barium (mg/L)	HGWC-7	0.07535	0.06851	2	No	28	0.07193	0.007317	0	None	No	0.01	Param.
Barium (mg/L)	HGWC-8	0.07038	0.05841	2	No	28	0.06439	0.01281	0	None	No	0.01	Param.
Barium (mg/L)	HGWC-9	0.1126	0.08945	2	No	28	0.101	0.02477	0	None	No	0.01	Param.
Barium (mg/L)	HGWC-10	0.07904	0.05969	2	No	28	0.06937	0.02071	0	None	No	0.01	Param.
Barium (mg/L)	HGWC-11	0.04649	0.03238	2	No	28	0.04097	0.01777	0	None	x^(1/3)	0.01	Param.
Barium (mg/L)	HGWC-12	0.1039	0.08222	2	No	28	0.09304	0.02315	0	None	No	0.01	Param.
Barium (mg/L)	HGWC-13	0.08282	0.06336	2	No	28	0.07309	0.02082	0	None	No	0.01	Param.
Barium (mg/L)	MW-19	0.05589	0.03964	2	No	17	0.04776	0.01297	0	None	No	0.01	Param.
Barium (mg/L)	MW-20	0.09475	0.08784	2	No	17	0.09129	0.00552	0	None	No	0.01	Param.
Barium (mg/L)	MW-24D	0.056	0.043	2	No	17	0.05618	0.01926	0	None	No	0.01	NP (normality)
Barium (mg/L)	MW-27D	1.1	0.7446	2	No	17	0.9224	0.2836	0	None	No	0.01	Param.
Beryllium (mg/L)	HGWC-7	0.0004	0.00019	0.004	No	26	0.0003672	0.00009429	88.46	None	No	0.01	NP (NDs)
Beryllium (mg/L)	HGWC-8	0.0005	0.000087	0.004	No	26	0.0003501	0.0002003	61.54	None	No	0.01	NP (NDs)
Beryllium (mg/L)	HGWC-11	0.0004	0.00015	0.004	No	26	0.0003102	0.0001386	69.23	None	No	0.01	NP (NDs)
Beryllium (mg/L)	HGWC-13	0.0005	0.000099	0.004	No	26	0.0003313	0.0002018	57.69	None	No	0.01	NP (NDs)
Beryllium (mg/L)	MW-19	0.0004	0.000058	0.004	No	17	0.0003799	0.00008295	94.12	None	No	0.01	NP (NDs)
Cadmium (mg/L)	HGWC-7	0.0005	0.0002	0.005	No	26	0.0004381	0.0001306	80.77	None	No	0.01	NP (NDs)
Cadmium (mg/L)	HGWC-8	0.0003	0.00017	0.005	No	26	0.0003315	0.0003734	3.846	None	No	0.01	NP (normality)
Cadmium (mg/L)	HGWC-9	0.0005	0.0002	0.005	No	26	0.0004565	0.0001242	88.46	None	No	0.01	NP (NDs)
Cadmium (mg/L)	HGWC-10	0.0005	0.0002	0.005	No	26	0.0003967	0.0001745	73.08	None	No	0.01	NP (NDs)
Cadmium (mg/L)	HGWC-11	0.0005	0.0001	0.005	No	26	0.0004537	0.0001308	88.46	None	No	0.01	NP (NDs)
Cadmium (mg/L)	HGWC-12	0.0005	0.0003	0.005	No	26	0.0004515	0.0001199	84.62	None	No	0.01	NP (NDs)
Cadmium (mg/L)	MW-19	0.0005	0.00017	0.005	No	17	0.0003565	0.0002438	35.29	None	No	0.01	NP (normality)
Chromium (mg/L)	HGWC-7	0.005	0.0021	0.1	No	26	0.006678	0.01322	73.08	None	No	0.01	NP (NDs)
Chromium (mg/L)	HGWC-8	0.005	0.0015	0.1	No	26	0.004366	0.001523	84.62	None	No	0.01	NP (NDs)
Chromium (mg/L)	HGWC-9	0.005	0.0013	0.1	No	26	0.004369	0.001515	84.62	None	No	0.01	NP (NDs)
Chromium (mg/L)	HGWC-10	0.005	0.0014	0.1	No	26	0.005142	0.003269	84.62	None	No	0.01	NP (NDs)
Chromium (mg/L)	HGWC-11	0.005	0.0012	0.1	No	26	0.004504	0.001406	88.46	None	No	0.01	NP (NDs)
Chromium (mg/L)	HGWC-12	0.005	0.0025	0.1	No	26	0.00457	0.001254	88.46	None	No	0.01	NP (NDs)
Chromium (mg/L)	HGWC-13	0.005	0.00059	0.1	No	26	0.004483	0.001461	88.46	None	No	0.01	NP (NDs)
Chromium (mg/L)	MW-19	0.005	0.0011	0.1	No	17	0.003613	0.00197	64.71	None	No	0.01	NP (NDs)
Chromium (mg/L)	MW-20	0.005	0.00071	0.1	No	17	0.004229	0.001716	82.35	None	No	0.01	NP (NDs)
Chromium (mg/L)	MW-24D	0.005	0.0017	0.1	No	17	0.004536	0.001328	88.24	None	No	0.01	NP (NDs)
Chromium (mg/L)	MW-27D	0.005	0.00082	0.1	No	17	0.004501	0.001408	88.24	None	No	0.01	NP (NDs)
Cobalt (mg/L)	HGWC-7	0.0014	0.00067	0.038	No	28	0.001624	0.001666	17.86	None	No	0.01	NP (normality)
Cobalt (mg/L)	HGWC-8	0.0023	0.0018	0.038	No	28	0.002781	0.002777	7.143	None	No	0.01	NP (normality)
Cobalt (mg/L)	HGWC-9	0.001	0.00057	0.038	No	28	0.001462	0.001705	17.86	None	No	0.01	NP (normality)
Cobalt (mg/L)	HGWC-10	0.005	0.0012	0.038	No	28	0.004093	0.001772	78.57	None	No	0.01	NP (NDs)
Cobalt (mg/L)	HGWC-11	0.005	0.0014	0.038	No	28	0.00342	0.001823	53.57	None	No	0.01	NP (NDs)
Cobalt (mg/L)	HGWC-12	0.0016	0.0012	0.038	No	28	0.001486	0.0004378	10.71	None	No	0.01	NP (normality)
Cobalt (mg/L)	HGWC-13	0.005926	0.003012	0.038	No	28	0.005693	0.005398	3.571	None	ln(x)	0.01	Param.
Cobalt (mg/L)	MW-19	0.03731	0.02422	0.038	No	17	0.03076	0.01044	0	None	No	0.01	Param.
Cobalt (mg/L)	MW-20	0.005	0.0011	0.038	No	17	0.004771	0.0009459	94.12	None	No	0.01	NP (NDs)
Cobalt (mg/L)	MW-24D	0.005	0.0011	0.038	No	17	0.00423	0.001721	82.35	None	No	0.01	NP (NDs)
Cobalt (mg/L)	MW-27D	0.005	0.00045	0.038	No	17	0.004173	0.001843	82.35	None	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	HGWC-7	0.7863	0.4241	5	No	28	0.6525	0.4492	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	HGWC-8	0.8866	0.5939	5	No	28	0.7403	0.3132	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	HGWC-9	0.8307	0.5213	5	No	28	0.676	0.331	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	HGWC-10	0.9685	0.5599	5	No	28	0.7642	0.4372	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	HGWC-11	1.087	0.6629	5	No	28	0.8752	0.4543	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	HGWC-12	0.9371	0.5409	5	No	28	0.739	0.4239	0	None	No	0.01	Param.

Confidence Interval Summary Table - All Results

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 10/16/2025, 3:39 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Combined Radium 226 + 228 (pCi/L)	HGWC-13	0.877	0.5691	5	No	28	0.7514	0.354	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-19	0.8331	0.4522	5	No	17	0.6426	0.304	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-20	0.9028	0.442	5	No	17	0.6724	0.3677	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-24D	0.5318	0.2087	5	No	17	0.3962	0.2997	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-27D	1.327	0.7678	5	No	17	1.074	0.4918	0	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	HGWC-7	0.13	0.0828	4	No	30	0.1351	0.101	6.667	None	No	0.01	NP (normality)
Fluoride (mg/L)	HGWC-8	0.6031	0.4382	4	No	30	0.5206	0.1834	0	None	No	0.01	Param.
Fluoride (mg/L)	HGWC-9	0.2095	0.09953	4	No	29	0.1728	0.141	6.897	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	HGWC-10	0.1637	0.08406	4	No	29	0.154	0.1286	13.79	None	ln(x)	0.01	Param.
Fluoride (mg/L)	HGWC-11	0.3646	0.2323	4	No	29	0.3118	0.1564	0	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	HGWC-12	0.31	0.17	4	No	29	0.2928	0.2155	3.448	None	No	0.01	NP (normality)
Fluoride (mg/L)	HGWC-13	0.6415	0.4702	4	No	29	0.5558	0.187	0	None	No	0.01	Param.
Fluoride (mg/L)	MW-19	0.2037	0.1031	4	No	17	0.1691	0.1144	0	None	ln(x)	0.01	Param.
Fluoride (mg/L)	MW-20	0.1	0.081	4	No	17	0.09235	0.01303	70.59	None	No	0.01	NP (NDs)
Fluoride (mg/L)	MW-24D	0.09495	0.05882	4	No	17	0.08671	0.03265	23.53	Kaplan-Meier	sqrt(x)	0.01	Param.
Fluoride (mg/L)	MW-27D	0.289	0.2234	4	No	17	0.2576	0.05506	0	None	sqrt(x)	0.01	Param.
Lead (mg/L)	HGWC-7	0.001	0.00051	0.015	No	25	0.0007598	0.0004036	64	None	No	0.01	NP (NDs)
Lead (mg/L)	HGWC-8	0.001	0.0002	0.015	No	24	0.0008553	0.0003311	83.33	None	No	0.01	NP (NDs)
Lead (mg/L)	HGWC-9	0.001	0.00022	0.015	No	24	0.0007214	0.0004042	66.67	None	No	0.01	NP (NDs)
Lead (mg/L)	HGWC-10	0.001	0.00005	0.015	No	24	0.0009604	0.0001939	95.83	None	No	0.01	NP (NDs)
Lead (mg/L)	HGWC-11	0.001	0.0003	0.015	No	24	0.0007941	0.0003677	75	None	No	0.01	NP (NDs)
Lead (mg/L)	HGWC-12	0.001	0.00043	0.015	No	24	0.0008224	0.0003598	79.17	None	No	0.01	NP (NDs)
Lead (mg/L)	HGWC-13	0.001	0.00018	0.015	No	24	0.000755	0.0003923	70.83	None	No	0.01	NP (NDs)
Lead (mg/L)	MW-19	0.001	0.000085	0.015	No	15	0.0007536	0.0004232	73.33	None	No	0.01	NP (NDs)
Lead (mg/L)	MW-20	0.001	0.00013	0.015	No	15	0.0007626	0.0004083	73.33	None	No	0.01	NP (NDs)
Lead (mg/L)	MW-24D	0.001	0.000064	0.015	No	15	0.0006971	0.0004448	66.67	None	No	0.01	NP (NDs)
Lead (mg/L)	MW-27D	0.001	0.00043	0.015	No	15	0.000904	0.0002596	86.67	None	No	0.01	NP (NDs)
Lithium (mg/L)	HGWC-7	0.002595	0.002059	0.064	No	28	0.002327	0.0005736	3.571	None	No	0.01	Param.
Lithium (mg/L)	HGWC-8	0.002738	0.002232	0.064	No	28	0.002312	0.0007565	14.29	None	x^3	0.01	Param.
Lithium (mg/L)	HGWC-9	0.004221	0.003572	0.064	No	28	0.003823	0.0008345	3.571	None	x^2	0.01	Param.
Lithium (mg/L)	HGWC-12	0.0101	0.008081	0.064	No	28	0.009092	0.002163	0	None	No	0.01	Param.
Lithium (mg/L)	HGWC-13	0.0396	0.03226	0.064	No	28	0.03593	0.007852	0	None	No	0.01	Param.
Lithium (mg/L)	MW-19	0.01194	0.007558	0.064	No	17	0.009036	0.004392	11.76	None	x^2	0.01	Param.
Lithium (mg/L)	MW-20	0.002	0.00094	0.064	No	17	0.001459	0.000511	41.18	None	No	0.01	NP (normality)
Lithium (mg/L)	MW-24D	0.00297	0.002625	0.064	No	17	0.002798	0.0002752	0	None	No	0.01	Param.
Lithium (mg/L)	MW-27D	0.009199	0.006604	0.064	No	17	0.007901	0.002071	0	None	No	0.01	Param.
Mercury (mg/L)	HGWC-9	0.0002	0.00004	0.002	No	20	0.000192	0.00003578	95	None	No	0.01	NP (NDs)
Mercury (mg/L)	HGWC-10	0.0002	0.00005	0.002	No	21	0.0001929	0.00003273	95.24	None	No	0.01	NP (NDs)
Mercury (mg/L)	HGWC-11	0.0002	0.00005	0.002	No	20	0.0001925	0.00003354	95	None	No	0.01	NP (NDs)
Mercury (mg/L)	HGWC-13	0.0002	0.00005	0.002	No	20	0.0001845	0.00004774	90	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	HGWC-7	0.04093	0.03294	0.1	No	29	0.03693	0.008724	0	None	No	0.01	Param.
Molybdenum (mg/L)	**HGWC-8**	**0.4663**	**0.3799**	**0.1**	**Yes**	**29**	**0.4086**	**0.1203**	**0**	**None**	**x^2**	**0.01**	**Param.**
Molybdenum (mg/L)	HGWC-9	0.031	0.0229	0.1	No	28	0.04159	0.08568	0	None	No	0.01	NP (normality)
Molybdenum (mg/L)	HGWC-10	0.01	0.0014	0.1	No	28	0.006578	0.004338	60.71	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	HGWC-11	0.02596	0.01657	0.1	No	28	0.02127	0.01005	0	None	No	0.01	Param.
Molybdenum (mg/L)	HGWC-12	0.04856	0.04502	0.1	No	28	0.04679	0.003779	0	None	No	0.01	Param.
Molybdenum (mg/L)	HGWC-13	0.03333	0.02547	0.1	No	28	0.0294	0.008411	0	None	No	0.01	Param.
Molybdenum (mg/L)	MW-19	0.04574	0.02179	0.1	No	17	0.03376	0.01911	11.76	None	No	0.01	Param.
Molybdenum (mg/L)	MW-24D	0.01	0.00095	0.1	No	17	0.004073	0.004033	23.53	None	No	0.01	NP (normality)
Molybdenum (mg/L)	MW-27D	0.0058	0.0017	0.1	No	17	0.005841	0.00875	5.882	None	No	0.01	NP (normality)
Selenium (mg/L)	HGWC-8	0.005	0.0024	0.05	No	28	0.004907	0.0004914	96.43	None	No	0.01	NP (NDs)
Selenium (mg/L)	HGWC-9	0.005	0.0037	0.05	No	28	0.004954	0.0002457	96.43	None	No	0.01	NP (NDs)
Selenium (mg/L)	HGWC-10	0.005	0.0035	0.05	No	28	0.004186	0.001226	64.29	None	No	0.01	NP (NDs)
Selenium (mg/L)	HGWC-11	0.01383	0.007191	0.05	No	28	0.01051	0.007105	3.571	None	No	0.01	Param.
Selenium (mg/L)	HGWC-12	0.005	0.0011	0.05	No	28	0.004861	0.000737	96.43	None	No	0.01	NP (NDs)
Selenium (mg/L)	HGWC-13	0.005	0.0016	0.05	No	28	0.004706	0.001095	92.86	None	No	0.01	NP (NDs)
Selenium (mg/L)	MW-19	0.0082	0.0026	0.05	No	17	0.01215	0.01814	17.65	None	No	0.01	NP (normality)
Selenium (mg/L)	MW-27D	0.005	0.00012	0.05	No	17	0.004713	0.001184	94.12	None	No	0.01	NP (NDs)
Thallium (mg/L)	HGWC-8	0.0005	0.00018	0.002	No	28	0.0003989	0.0001794	75	None	No	0.01	NP (NDs)
Thallium (mg/L)	HGWC-11	0.0005	0.00008	0.002	No	28	0.00047	0.0001102	92.86	None	No	0.01	NP (NDs)
Thallium (mg/L)	HGWC-12	0.0005	0.0002	0.002	No	28	0.0004151	0.0001668	78.57	None	No	0.01	NP (NDs)
Thallium (mg/L)	HGWC-13	0.0004219	0.0003365	0.002	No	28	0.0003792	0.00009132	14.29	None	No	0.01	Param.
Thallium (mg/L)	MW-19	0.0005	0.00026	0.002	No	17	0.00038	0.0001256	47.06	None	No	0.01	NP (normality)

Appendix IV Trend Tests - Confidence Interval Exceedances - Significant Results

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 10/16/2025, 3:42 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Arsenic (mg/L)	**HGWC-13**	**0.01565**	**146**	**131**	**Yes**	**28**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Molybdenum (mg/L)	**HGWC-8**	**-0.02876**	**-222**	**-139**	**Yes**	**29**	**0**	**n/a**	**n/a**	**0.01**	**NP**

Appendix IV Trend Tests - Confidence Interval Exceedances - All Results

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 10/16/2025, 3:42 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Arsenic (mg/L)	HGWA-1 (bg)	0	5	139	No	29	89.66	n/a	n/a	0.01	NP
Arsenic (mg/L)	HGWA-2 (bg)	0	78	139	No	29	68.97	n/a	n/a	0.01	NP
Arsenic (mg/L)	HGWA-3 (bg)	0	86	139	No	29	68.97	n/a	n/a	0.01	NP
Arsenic (mg/L)	HGWA-43D (bg)	0	1	53	No	15	53.33	n/a	n/a	0.01	NP
Arsenic (mg/L)	HGWA-44D (bg)	0	-5	-53	No	15	66.67	n/a	n/a	0.01	NP
Arsenic (mg/L)	**HGWC-13**	**0.01565**	**146**	**131**	**Yes**	**28**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Molybdenum (mg/L)	HGWA-1 (bg)	0	0	146	No	30	100	n/a	n/a	0.01	NP
Molybdenum (mg/L)	HGWA-2 (bg)	0	0	139	No	29	100	n/a	n/a	0.01	NP
Molybdenum (mg/L)	HGWA-3 (bg)	0	0	146	No	30	100	n/a	n/a	0.01	NP
Molybdenum (mg/L)	HGWA-43D (bg)	-0.0007531	-35	-53	No	15	13.33	n/a	n/a	0.01	NP
Molybdenum (mg/L)	HGWA-44D (bg)	0.00006134	8	53	No	15	13.33	n/a	n/a	0.01	NP
Molybdenum (mg/L)	**HGWC-8**	**-0.02876**	**-222**	**-139**	**Yes**	**29**	**0**	**n/a**	**n/a**	**0.01**	**NP**

FIGURE A.

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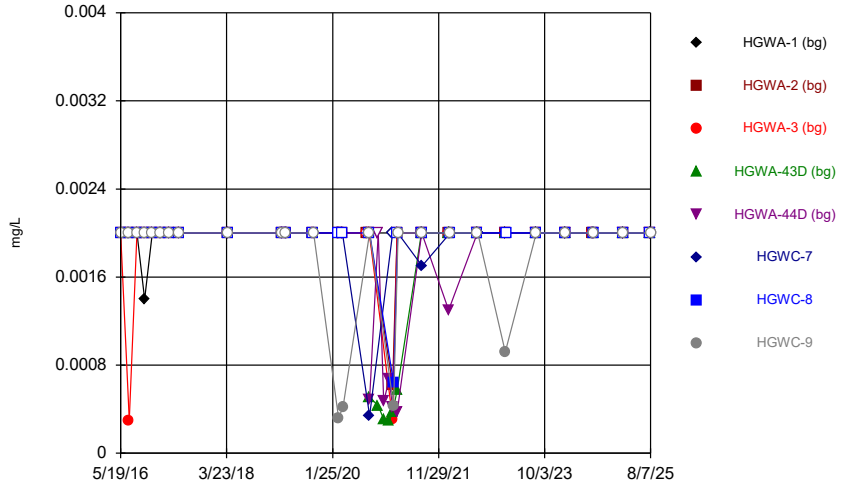
Hollow symbols indicate censored values.

Time Series



Constituent: Antimony Analysis Run 10/21/2025 3:37 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

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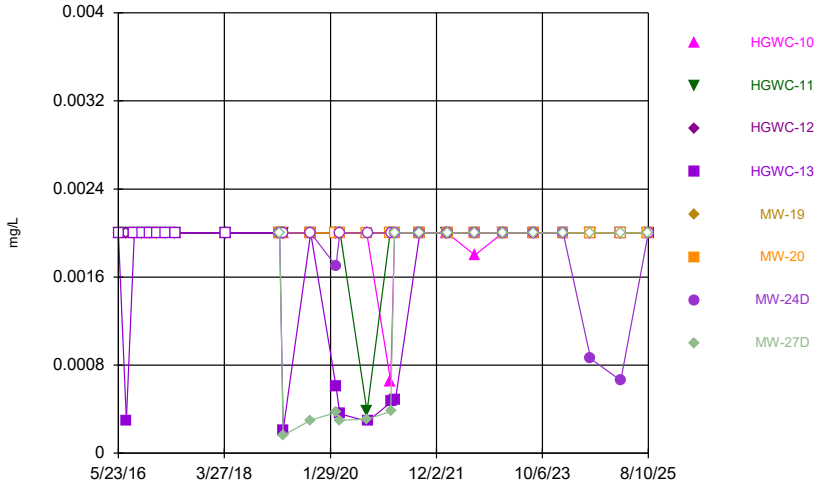

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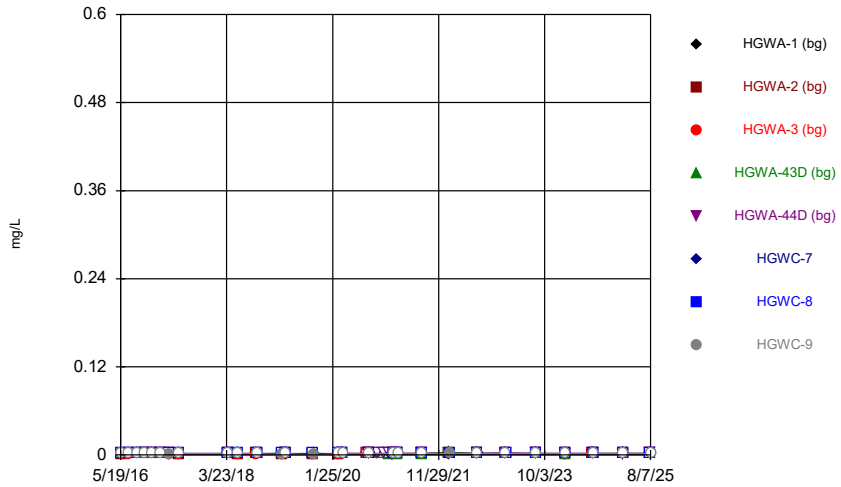

Constituent: Arsenic Analysis Run 10/21/2025 3:38 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

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Hollow symbols indicate censored values.

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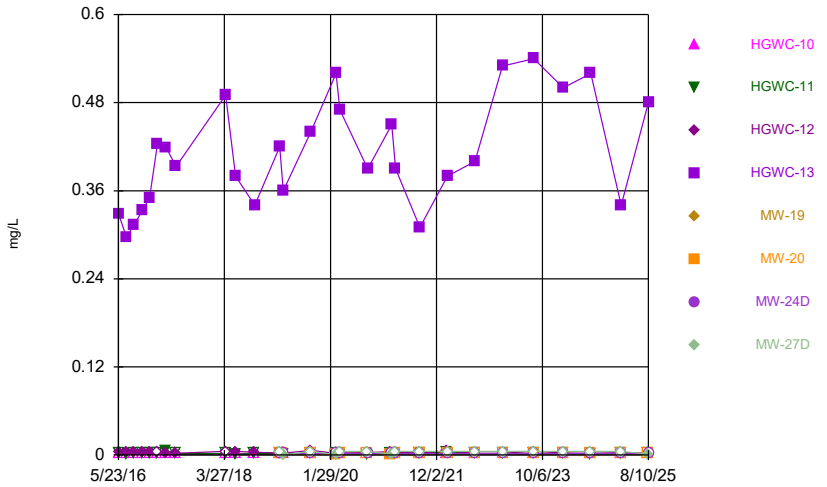

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Plant Hammond Client: Southern Company Data: Hammond AP-1

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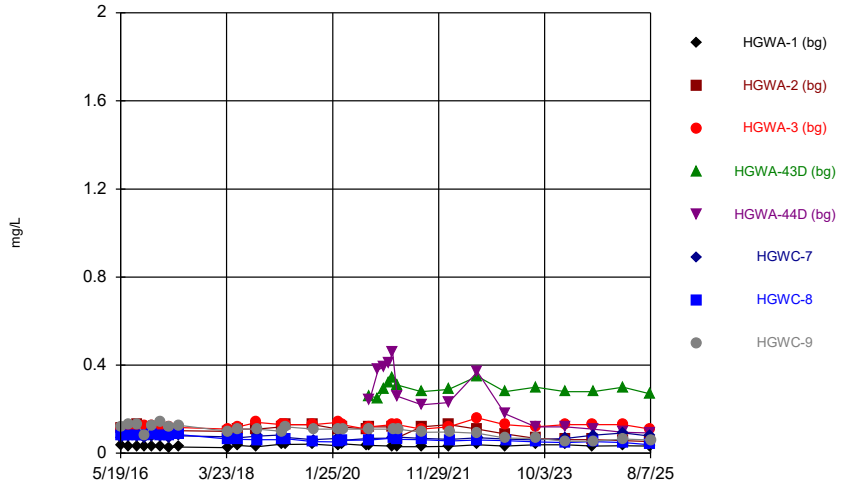
Time Series



Constituent: Barium Analysis Run 10/21/2025 3:38 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

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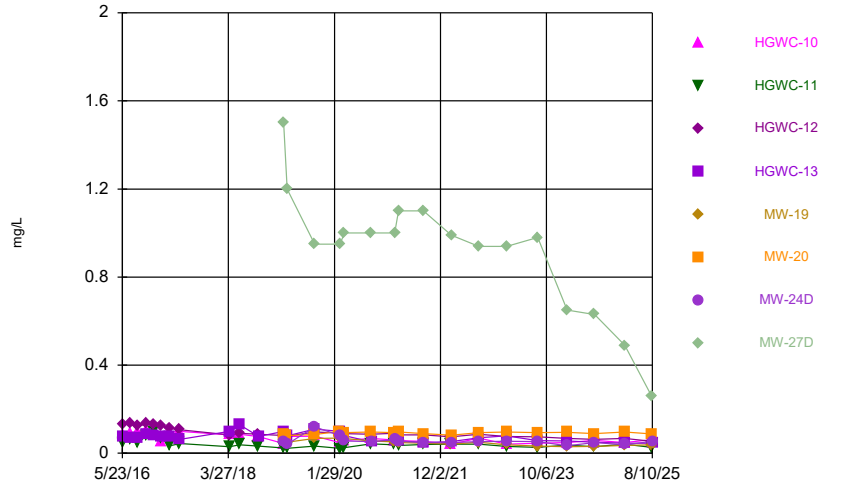
Time Series



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Plant Hammond Client: Southern Company Data: Hammond AP-1

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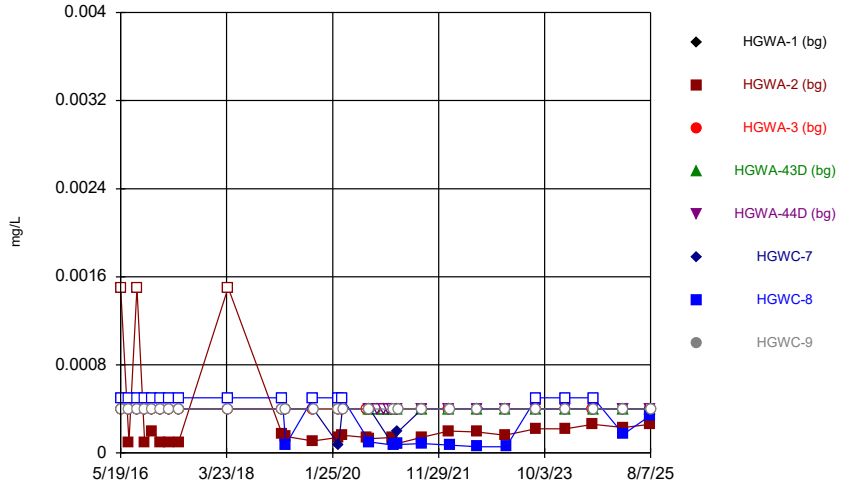

Constituent: Beryllium Analysis Run 10/21/2025 3:38 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

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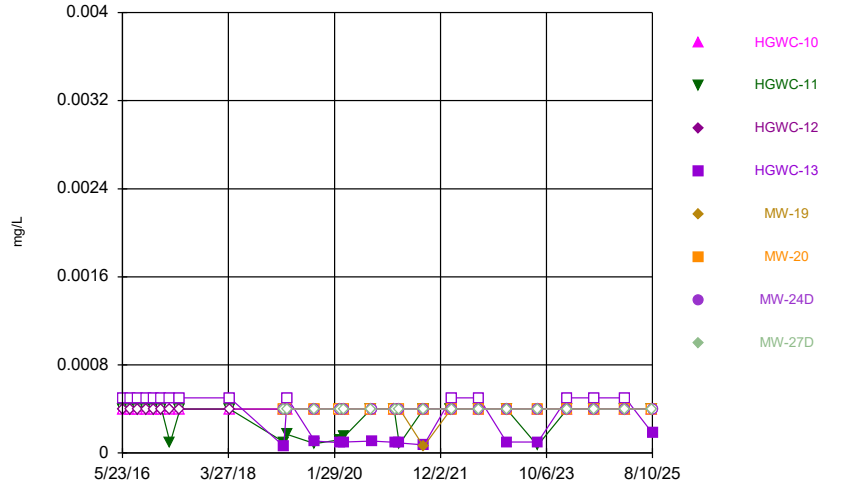

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Plant Hammond Client: Southern Company Data: Hammond AP-1

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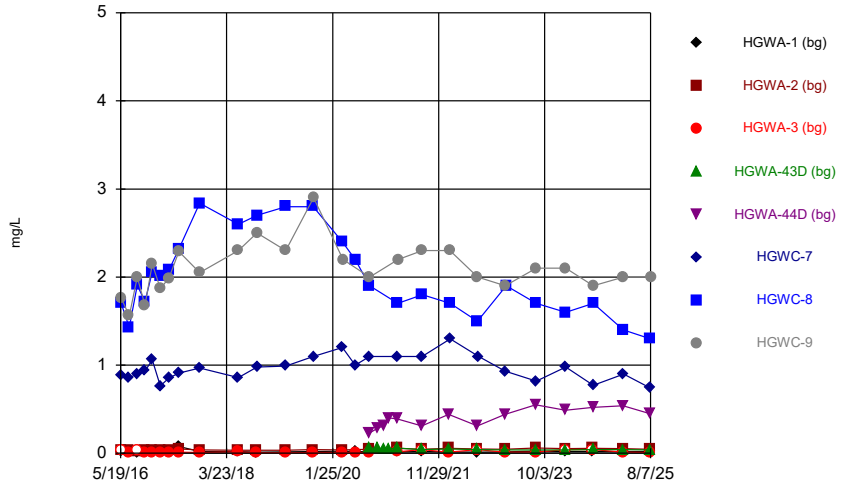

Constituent: Boron Analysis Run 10/21/2025 3:38 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

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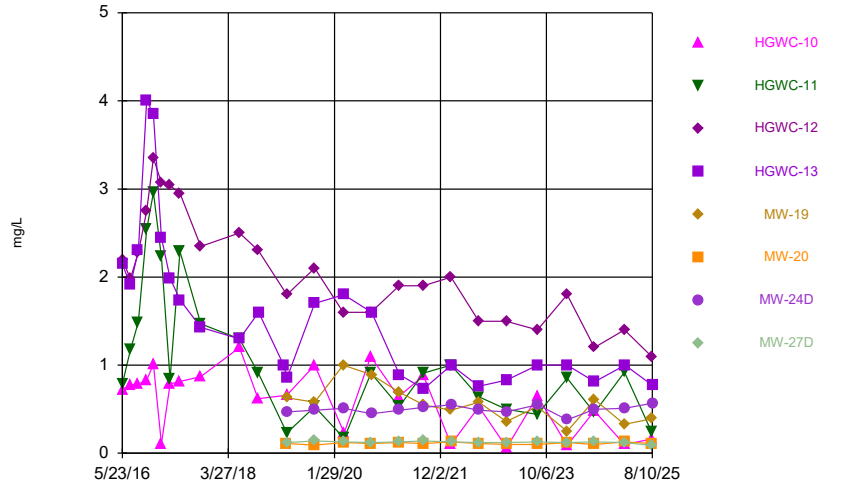
Time Series



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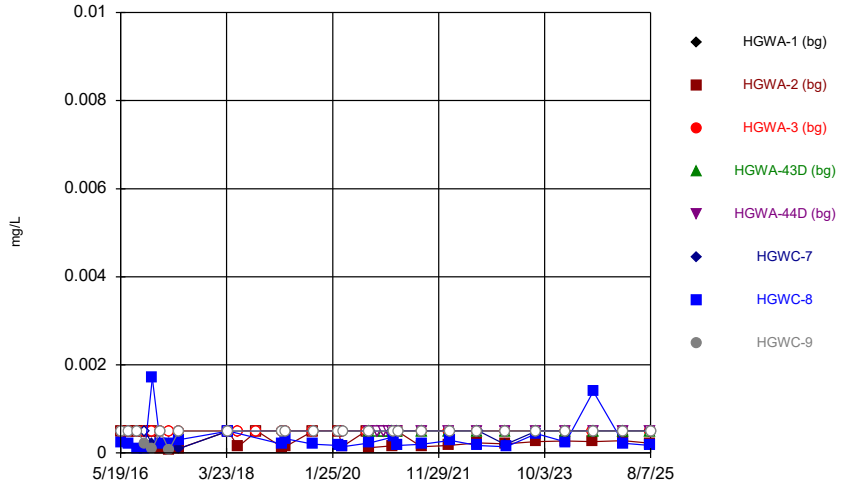

Constituent: Cadmium Analysis Run 10/21/2025 3:38 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

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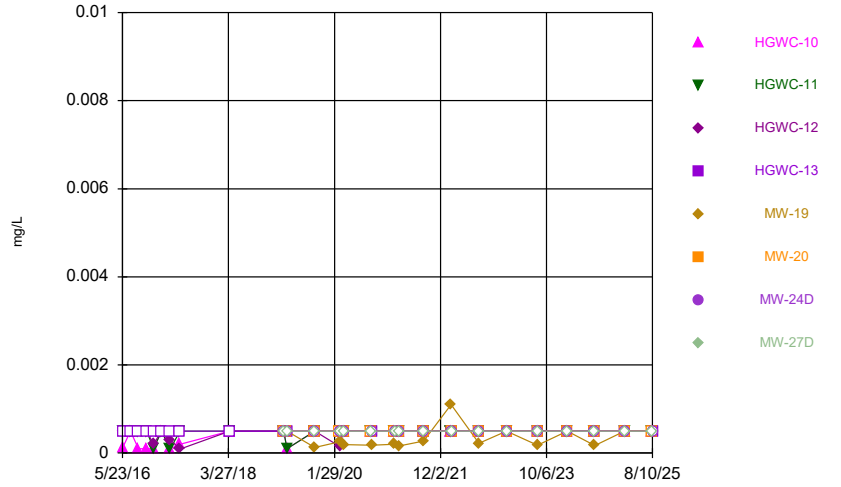
Time Series



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Plant Hammond Client: Southern Company Data: Hammond AP-1

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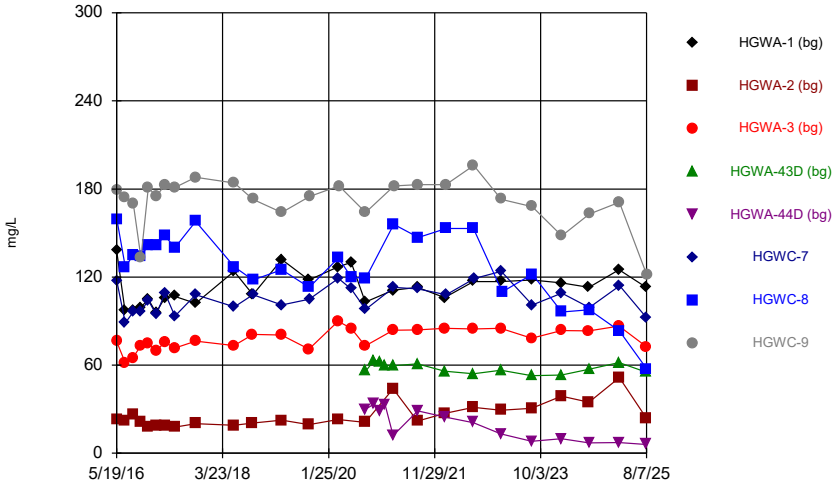

Constituent: Calcium Analysis Run 10/21/2025 3:38 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

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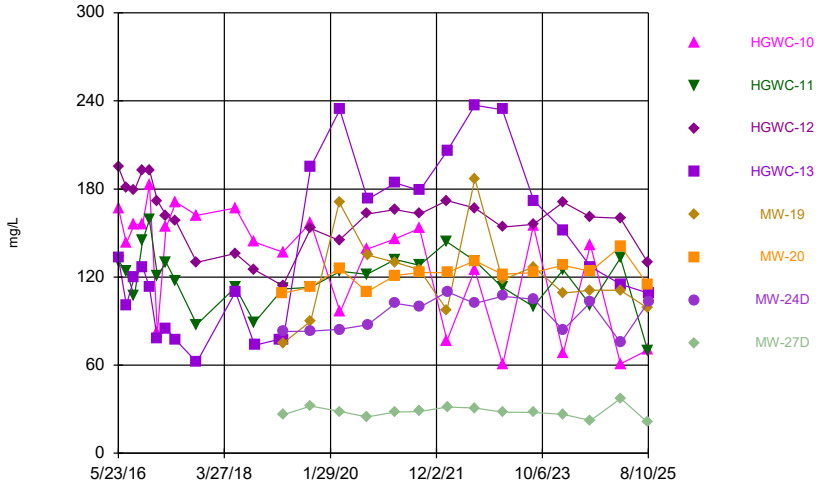

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Plant Hammond Client: Southern Company Data: Hammond AP-1

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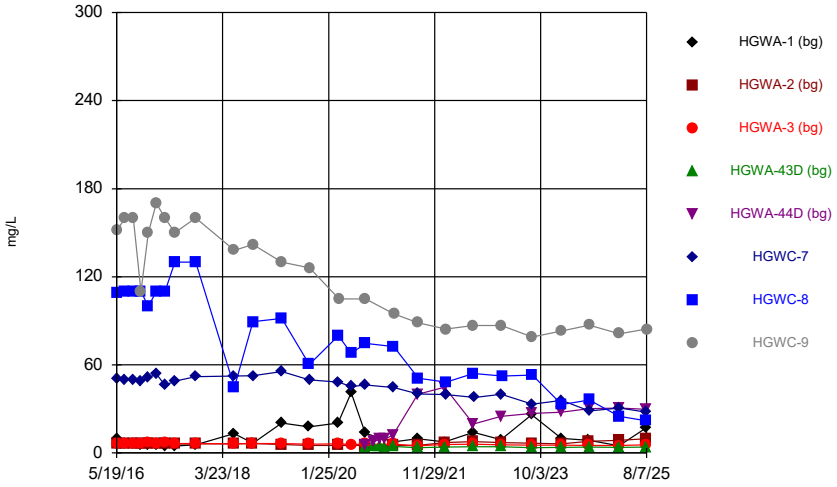

Constituent: Chloride Analysis Run 10/21/2025 3:38 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

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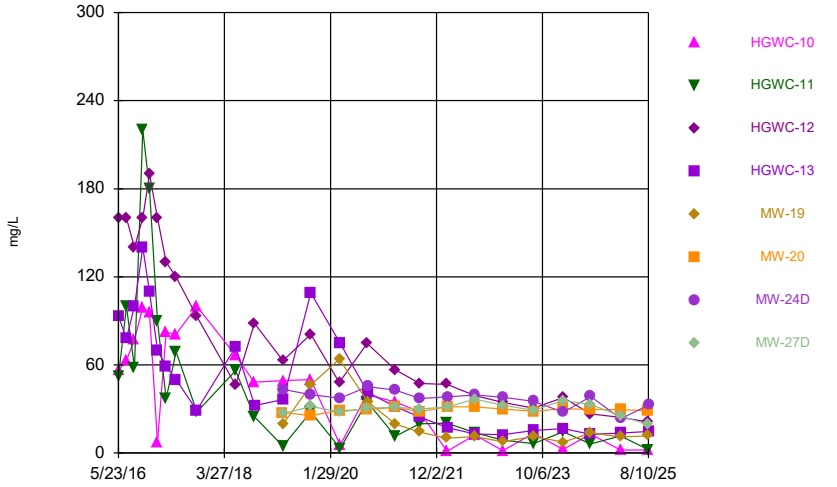
Time Series



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Plant Hammond Client: Southern Company Data: Hammond AP-1

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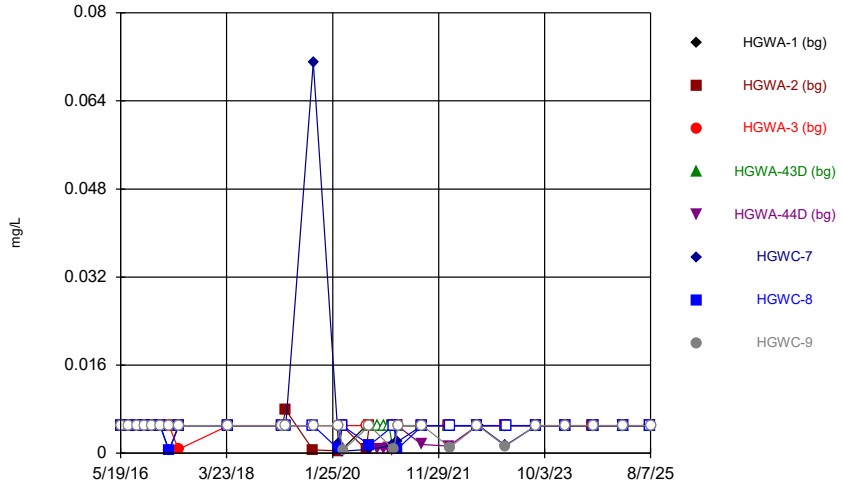

Constituent: Chromium Analysis Run 10/21/2025 3:38 PM View: Time Series & Box Plot
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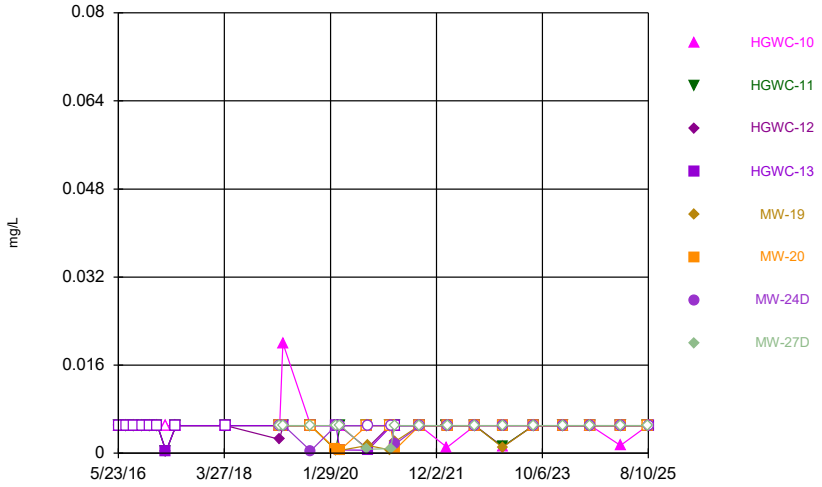

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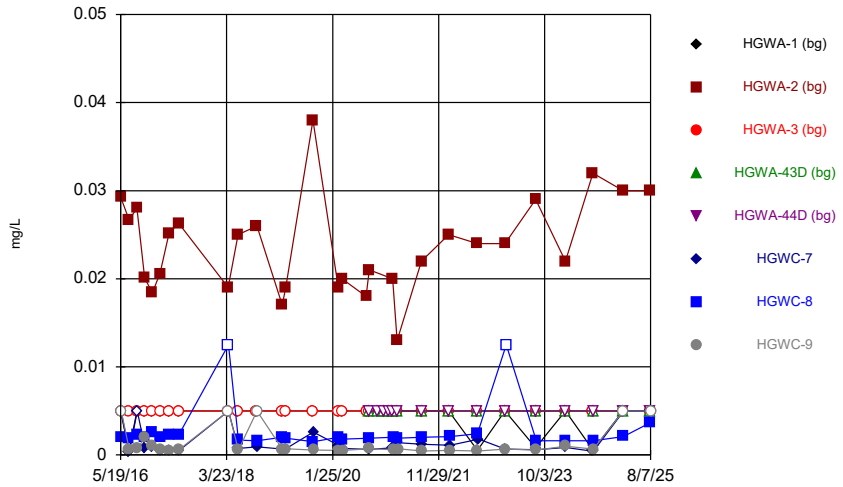

Constituent: Cobalt Analysis Run 10/21/2025 3:38 PM View: Time Series & Box Plot
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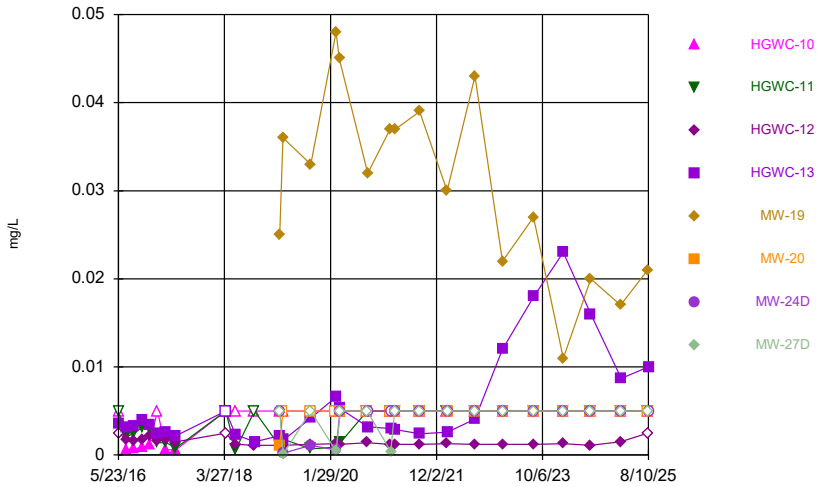

Constituent: Cobalt Analysis Run 10/21/2025 3:38 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

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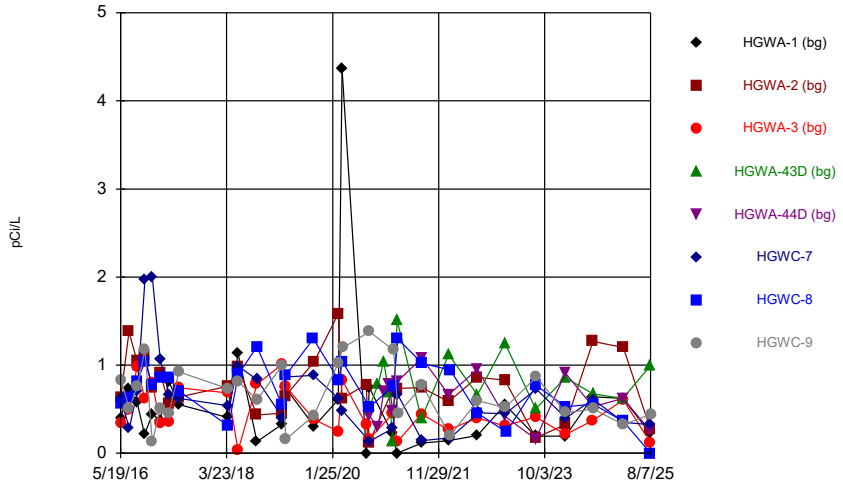
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 10/21/2025 3:38 PM View: Time Series & Box Plo
Plant Hammond Client: Southern Company Data: Hammond AP-1

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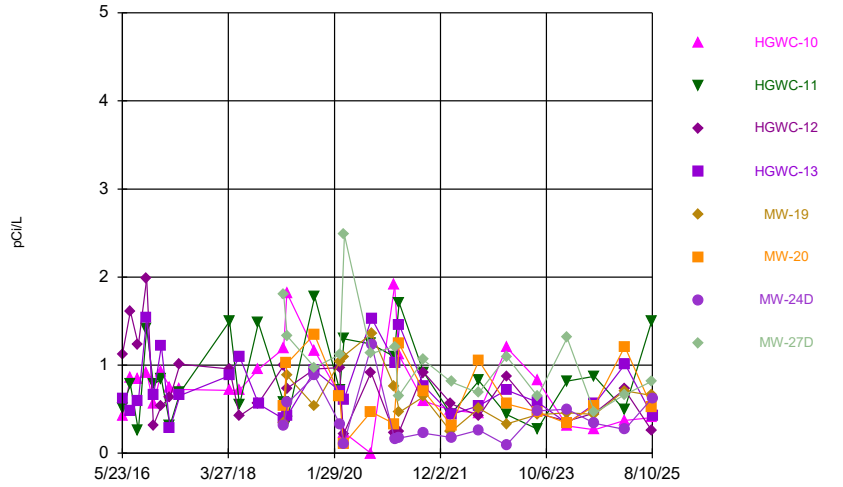
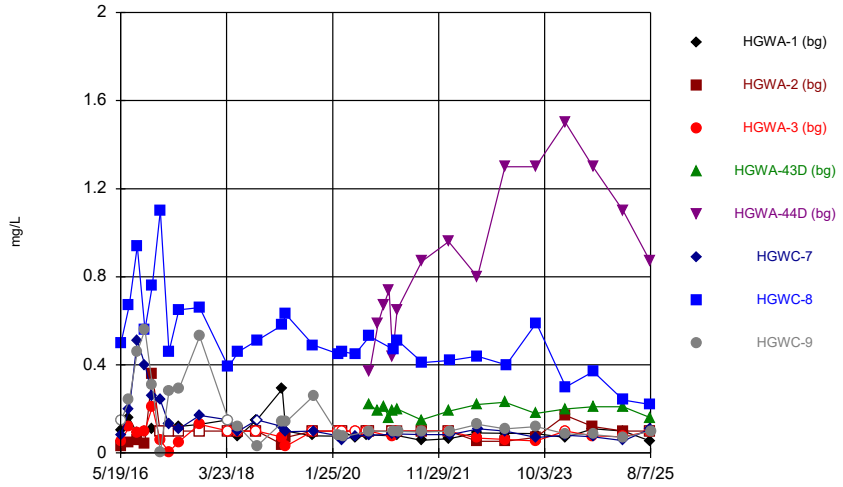
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 10/21/2025 3:38 PM View: Time Series & Box Plo
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.1.01 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

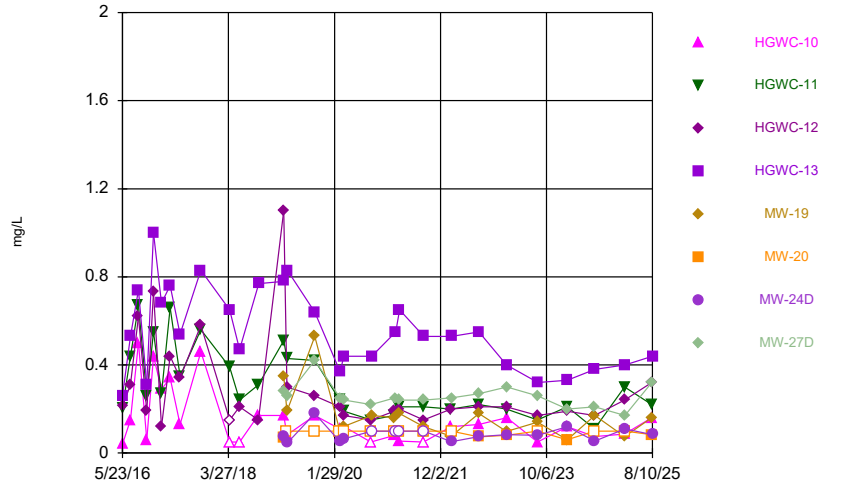
Time Series



Constituent: Fluoride Analysis Run 10/21/2025 3:38 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.1.01 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

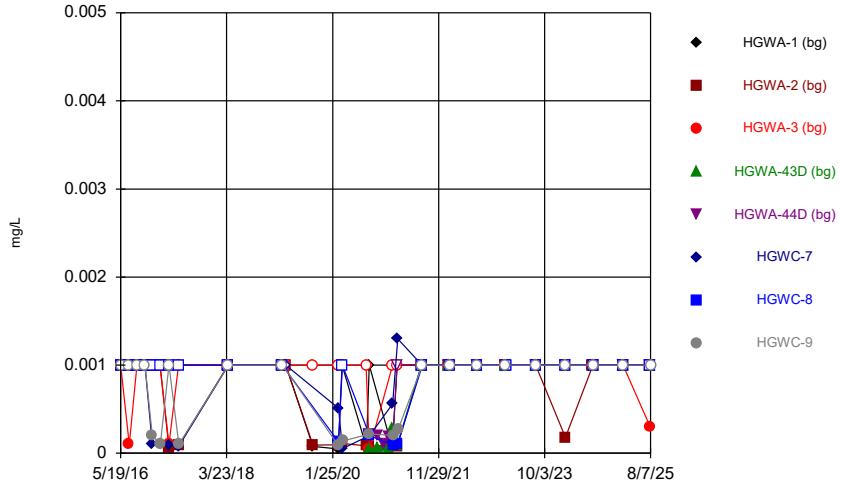
Time Series



Constituent: Fluoride Analysis Run 10/21/2025 3:38 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.1.01 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

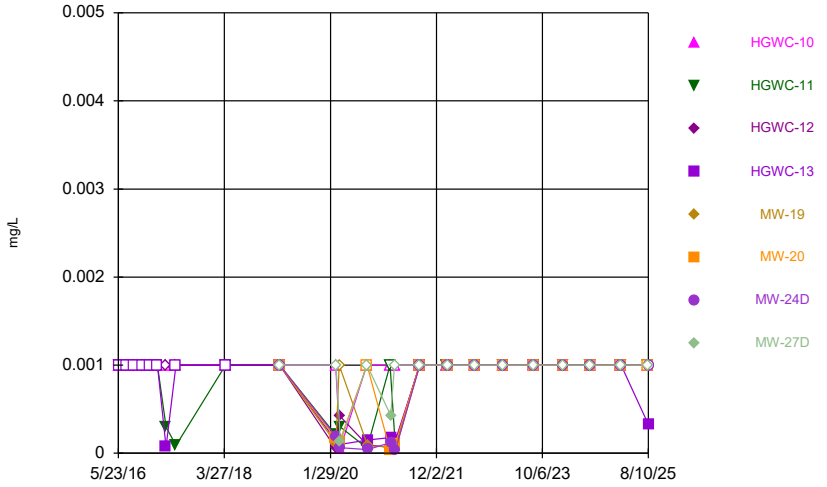
Time Series



Constituent: Lead Analysis Run 10/21/2025 3:38 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.1.01 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

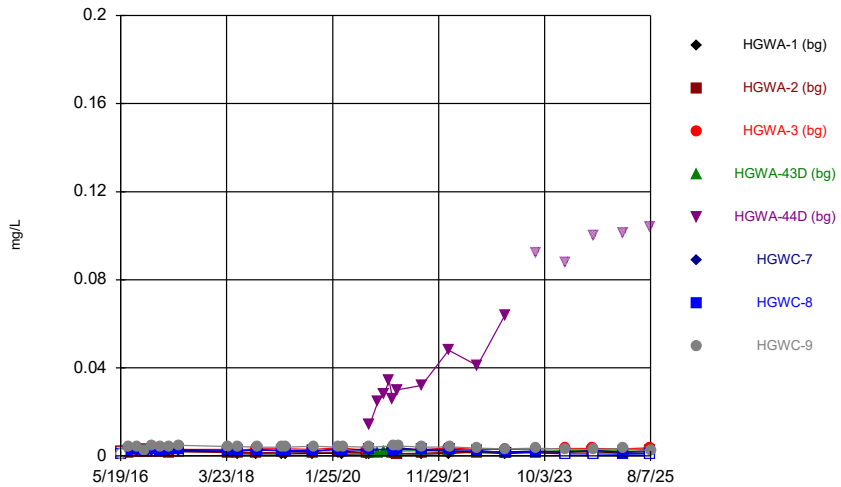
Time Series



Constituent: Lead Analysis Run 10/21/2025 3:38 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.1.01 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

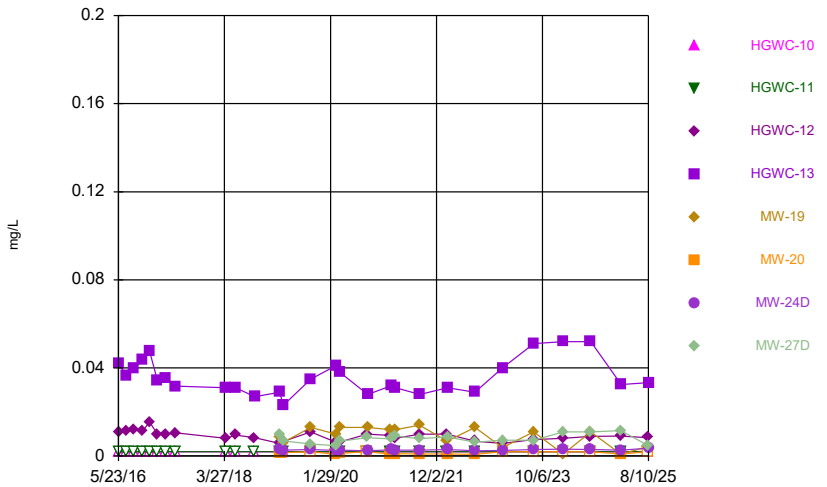
Time Series



Constituent: Lithium Analysis Run 10/21/2025 3:38 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.1.01 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

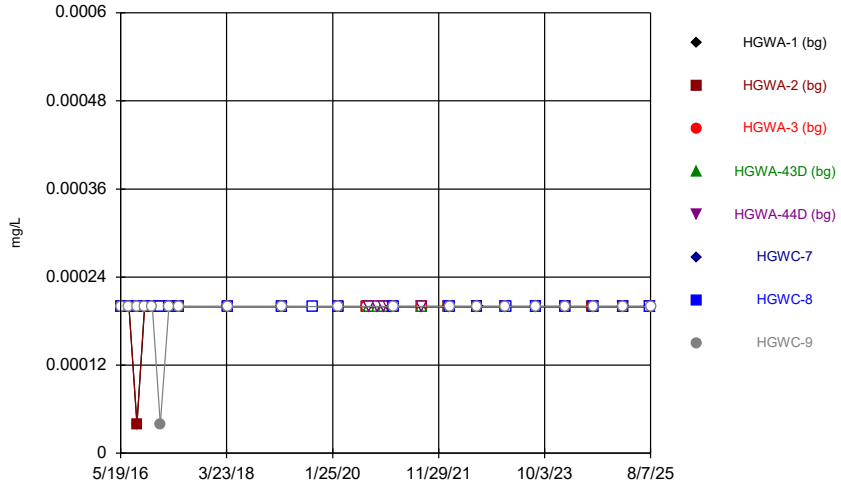
Time Series



Constituent: Lithium Analysis Run 10/21/2025 3:38 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.1.01 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

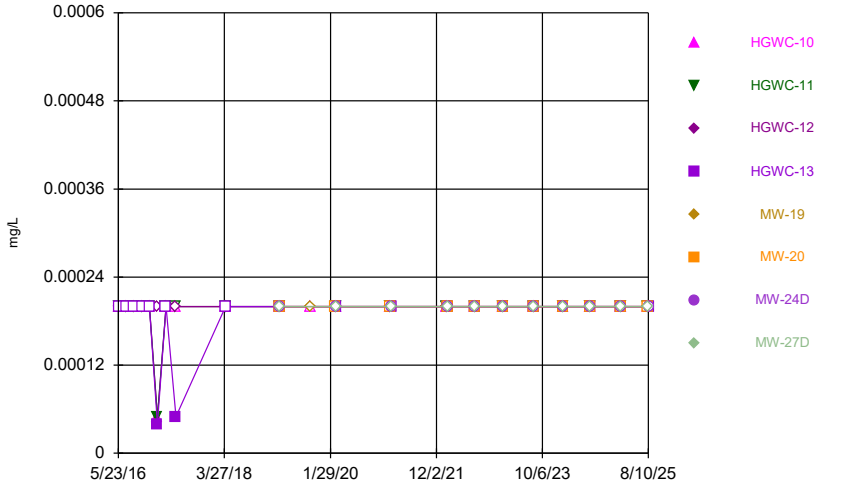
Time Series



Constituent: Mercury Analysis Run 10/21/2025 3:38 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.1.01 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

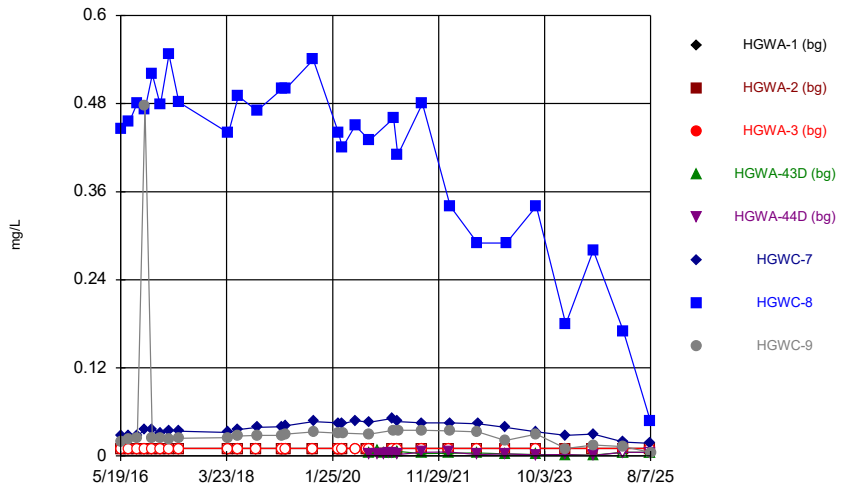
Time Series



Constituent: Mercury Analysis Run 10/21/2025 3:38 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.1.01 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

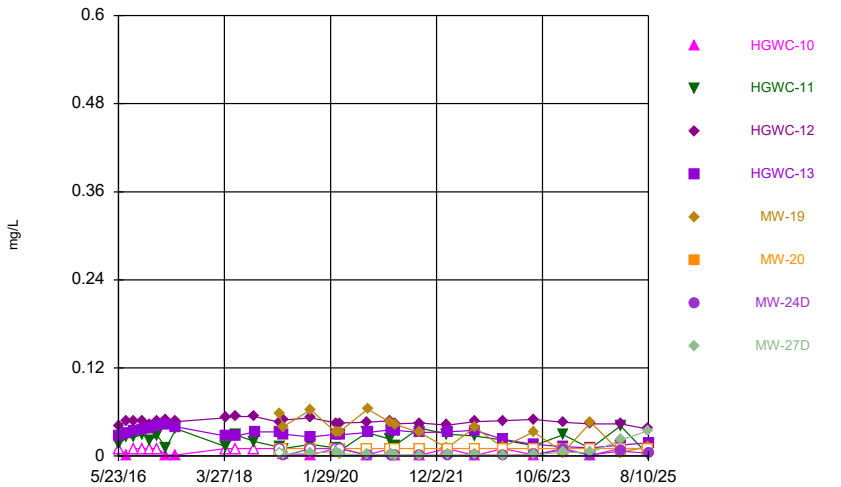
Time Series



Constituent: Molybdenum Analysis Run 10/21/2025 3:38 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.1.01 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

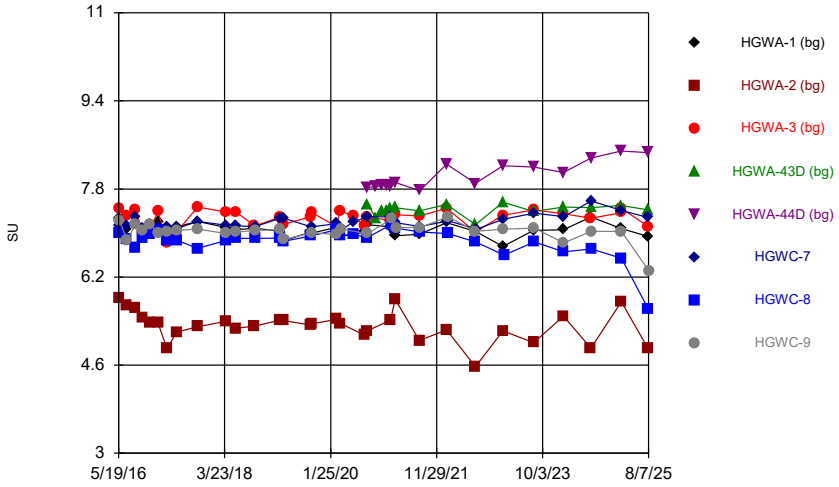
Time Series



Constituent: Molybdenum Analysis Run 10/21/2025 3:38 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.1.01 Software licensed to Groundwater Stats Consulting. UG

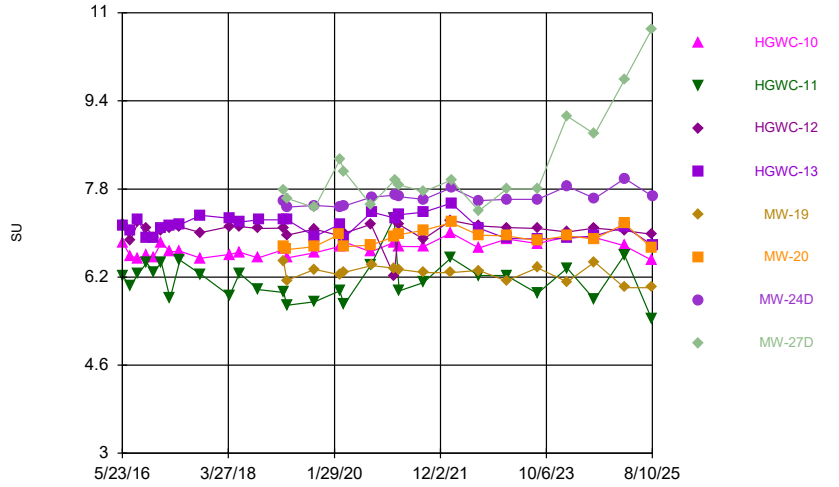
Time Series



Constituent: pH, Field Analysis Run 10/21/2025 3:38 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.1.01 Software licensed to Groundwater Stats Consulting. UG

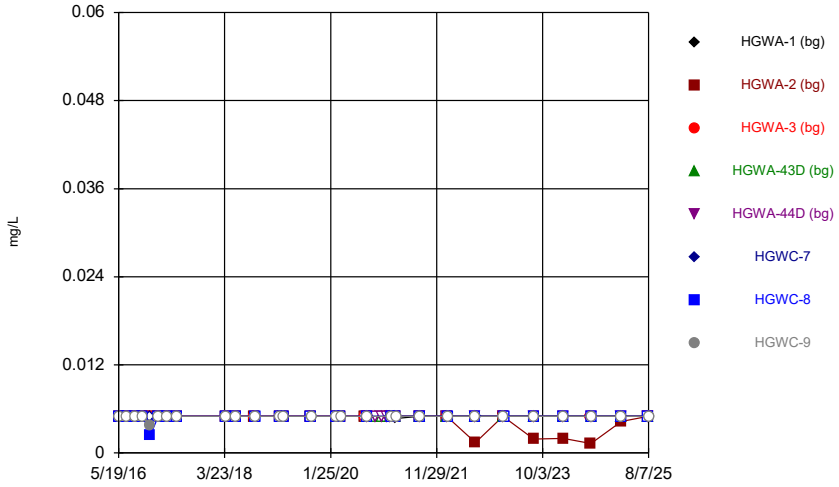
Time Series



Constituent: pH, Field Analysis Run 10/21/2025 3:38 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.1.01 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

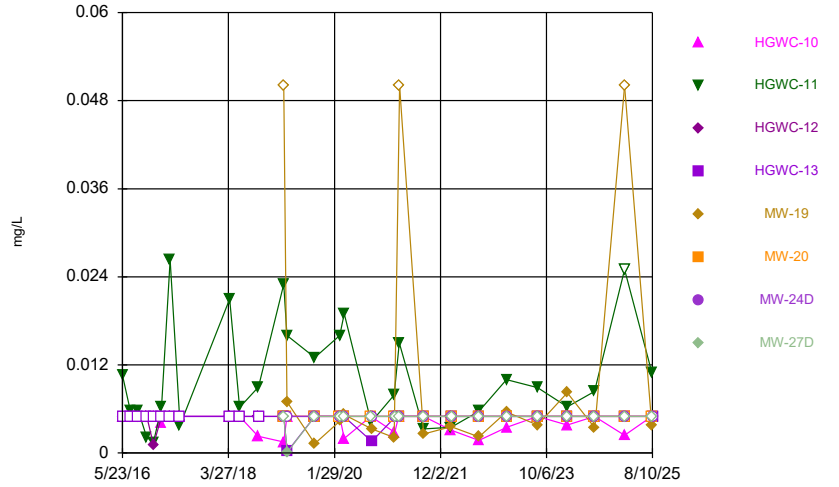
Time Series



Constituent: Selenium Analysis Run 10/21/2025 3:38 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.1.01 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

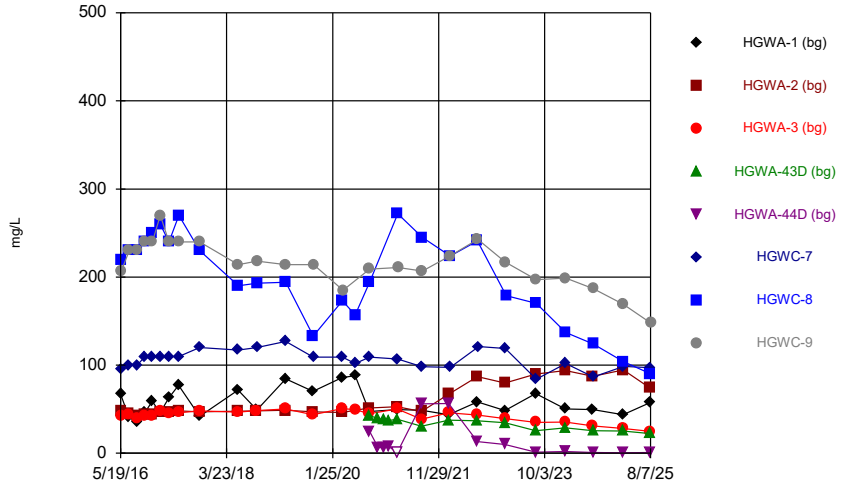
Time Series



Constituent: Selenium Analysis Run 10/21/2025 3:38 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.1.01 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

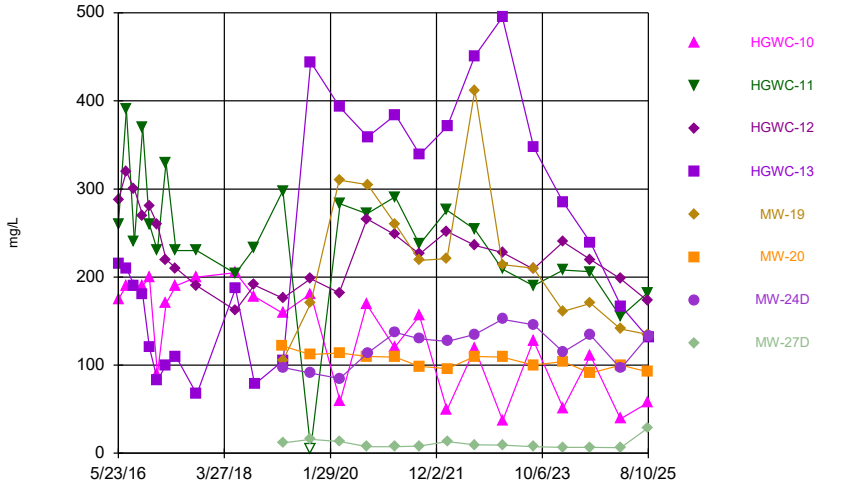
Time Series



Constituent: Sulfate Analysis Run 10/21/2025 3:38 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.1.01 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

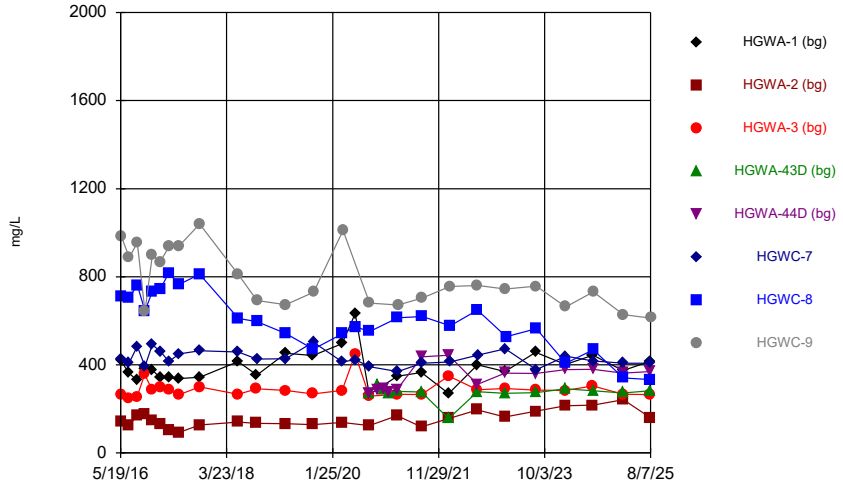
Time Series



Constituent: Sulfate Analysis Run 10/21/2025 3:38 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.1.01 Software licensed to Groundwater Stats Consulting. UG

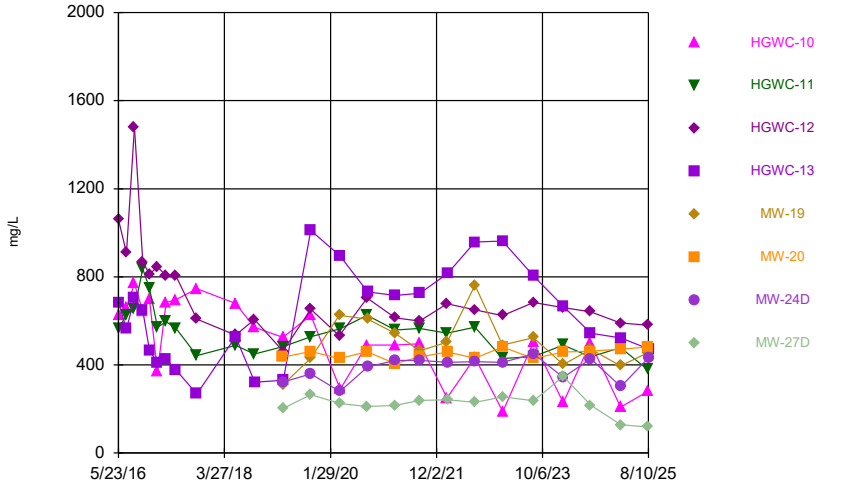
Time Series



Constituent: TDS Analysis Run 10/21/2025 3:38 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.1.01 Software licensed to Groundwater Stats Consulting. UG

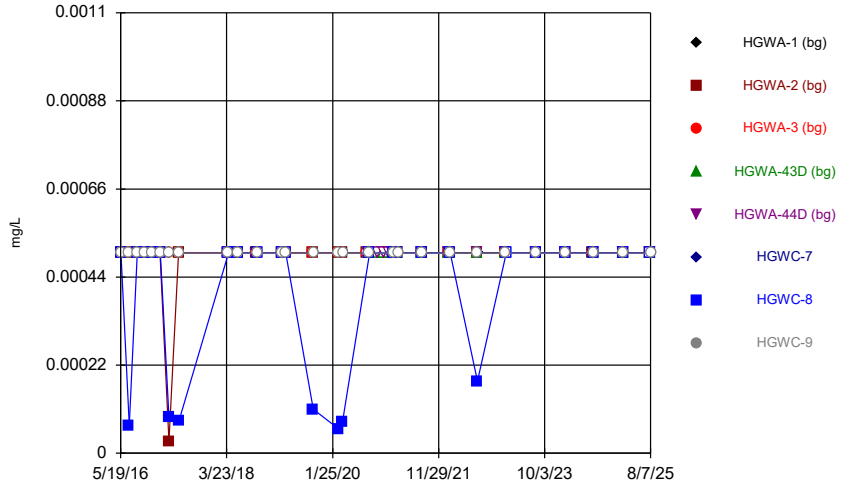
Time Series



Constituent: TDS Analysis Run 10/21/2025 3:38 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.1.01 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

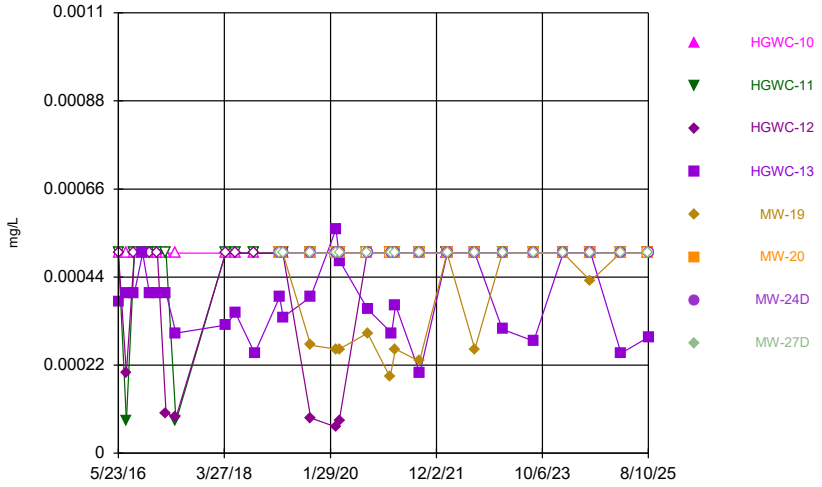
Time Series



Constituent: Thallium Analysis Run 10/21/2025 3:39 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.1.01 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Thallium Analysis Run 10/21/2025 3:39 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series

Constituent: Antimony (mg/L) Analysis Run 10/21/2025 3:40 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-7	HGWC-8	HGWC-9
5/19/2016	<0.002	<0.002	<0.002					
5/20/2016						<0.002	<0.002	
5/23/2016								<0.002
7/11/2016	<0.002	<0.002						
7/12/2016			0.0003 (J)			<0.002	<0.002	<0.002
8/30/2016	<0.002	<0.002	<0.002					
9/1/2016						<0.002	<0.002	<0.002
10/19/2016	0.0014 (J)	<0.002	<0.002					
10/20/2016						<0.002	<0.002	<0.002
12/6/2016	<0.002	<0.002	<0.002			<0.002	<0.002	<0.002
1/24/2017	<0.002	<0.002	<0.002					
1/25/2017						<0.002	<0.002	
1/26/2017								<0.002
3/21/2017	<0.002	<0.002	<0.002			<0.002	<0.002	
3/22/2017								<0.002
5/22/2017	<0.002	<0.002	<0.002					
5/23/2017						<0.002	<0.002	<0.002
4/2/2018	<0.002	<0.002						
4/3/2018			<0.002			<0.002	<0.002	<0.002
3/12/2019	<0.002	<0.002	<0.002				<0.002	
3/13/2019						<0.002		<0.002
4/1/2019			<0.002					
4/2/2019	<0.002	<0.002				<0.002		
4/3/2019							<0.002	<0.002
9/23/2019	<0.002	<0.002	<0.002					
9/24/2019							<0.002	
9/25/2019						<0.002		
9/27/2019								<0.002
3/2/2020	<0.002	<0.002	<0.002					
3/3/2020							<0.002	
3/4/2020						<0.002		0.00032 (J)
3/25/2020	<0.002	<0.002	<0.002					
3/27/2020						<0.002	<0.002	
3/31/2020								0.00042 (J)
8/25/2020		<0.002	<0.002					
8/28/2020	<0.002							
9/15/2020	<0.002	<0.002	<0.002					
9/16/2020				0.00051 (J)	0.00049 (J)	0.00034 (J)	<0.002	
9/17/2020								<0.002
11/10/2020				0.00043 (J)	<0.002			
12/15/2020				0.00031 (J)	0.00047 (J)			
1/19/2021				0.00029 (J)	0.00067 (J)			
2/8/2021	<0.002							
2/9/2021		0.00062 (J)	0.00031 (J)	0.00037 (J)	0.00042 (J)			
2/10/2021						<0.002		
2/16/2021							0.00064 (J)	0.00043 (J)
3/10/2021	<0.002				0.00037 (J)			
3/11/2021		<0.002	<0.002	0.00057 (J)				
3/15/2021						<0.002	<0.002	
3/16/2021								<0.002
8/11/2021	<0.002			<0.002				
8/12/2021		<0.002	<0.002					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 10/21/2025 3:40 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-7	HGWC-8	HGWC-9
8/13/2021					<0.002			
8/16/2021						0.0017 (J)		
8/17/2021								<0.002
8/18/2021							<0.002	
2/1/2022	<0.002	<0.002	<0.002	<0.002	0.0013 (J)			
2/9/2022								<0.002
2/10/2022						<0.002	<0.002	
8/2/2022	<0.002	<0.002	<0.002	<0.002	<0.002			
8/3/2022							<0.002	
8/4/2022								<0.002
8/11/2022						<0.002		
1/23/2023			<0.002					
1/24/2023	<0.002	<0.002		<0.002	<0.002			
1/26/2023								0.00092 (J)
1/27/2023						<0.002		
2/1/2023							<0.002	
8/8/2023	<0.002	<0.002	<0.002	<0.002	<0.002			
8/11/2023								<0.002
8/12/2023						<0.002	<0.002	
2/13/2024	<0.002	<0.002	<0.002	<0.002	<0.002			
2/14/2024						<0.002	<0.002	
2/15/2024								<0.002
8/5/2024	<0.002	<0.002	<0.002					
8/6/2024				<0.002	<0.002			
8/7/2024						<0.002	<0.002	<0.002
2/12/2025	<0.002		<0.002	<0.002	<0.002			
2/14/2025		<0.002						
2/15/2025							<0.002	<0.002
2/16/2025						<0.002		
8/5/2025	<0.002	<0.002	<0.002	<0.002	<0.002			
8/6/2025						<0.002	<0.002	
8/7/2025								<0.002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 10/21/2025 3:40 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-10	HGWC-11	HGWC-12	HGWC-13	MW-19	MW-20	MW-24D	MW-27D
5/23/2016	<0.002	<0.002	<0.002	<0.002				
7/12/2016	<0.002	<0.002	<0.002	0.0003 (J)				
9/1/2016	<0.002	<0.002	<0.002	<0.002				
10/24/2016	<0.002	<0.002	<0.002	<0.002				
12/7/2016	<0.002	<0.002	<0.002	<0.002				
1/26/2017	<0.002	<0.002	<0.002	<0.002				
3/22/2017	<0.002	<0.002	<0.002	<0.002				
5/24/2017	<0.002	<0.002	<0.002	<0.002				
4/4/2018	<0.002	<0.002	<0.002	<0.002				
3/13/2019	<0.002	<0.002		<0.002		<0.002	<0.002	<0.002
3/14/2019			<0.002		<0.002			
4/2/2019						<0.002		
4/3/2019	<0.002	<0.002	<0.002		<0.002			
4/4/2019								0.00016 (J)
4/5/2019				0.00021 (J)				
4/8/2019							<0.002	
9/25/2019						<0.002		
9/26/2019				<0.002			<0.002	0.0003 (J)
9/27/2019	<0.002	<0.002	<0.002		<0.002			
3/2/2020						<0.002		
3/3/2020	<0.002	<0.002	<0.002					
3/4/2020				0.00061 (J)	<0.002		0.0017 (J)	0.00037 (J)
3/26/2020			<0.002		<0.002			
3/27/2020						<0.002		
3/30/2020				0.00036 (J)			<0.002	
3/31/2020		<0.002						
4/1/2020	<0.002							
4/2/2020								0.0003 (J)
9/16/2020	<0.002							
9/17/2020						<0.002		
9/18/2020		0.00038 (J)	<0.002					0.00031 (J)
9/21/2020				0.00029 (J)	<0.002		<0.002	
2/11/2021						<0.002		
2/12/2021		<0.002	<0.002		<0.002			
2/15/2021	0.00065 (J)							
2/16/2021							<0.002	0.00038 (J)
2/22/2021				0.00047 (J)				
3/12/2021	<0.002							<0.002
3/15/2021						<0.002		
3/16/2021		<0.002	<0.002					
3/17/2021				0.00049 (J)	<0.002		<0.002	
8/17/2021	<0.002					<0.002		<0.002
8/18/2021		<0.002	<0.002		<0.002			
8/19/2021				<0.002			<0.002	
2/9/2022	<0.002	<0.002	<0.002		<0.002			
2/10/2022				<0.002		<0.002	<0.002	<0.002
8/3/2022	0.0018 (J)	<0.002	<0.002	<0.002			<0.002	<0.002
8/4/2022					<0.002	<0.002		
1/26/2023		<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	
1/27/2023	<0.002							<0.002
8/10/2023	<0.002	<0.002	<0.002		<0.002	<0.002		
8/12/2023				<0.002			<0.002	<0.002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 10/21/2025 3:40 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-10	HGWC-11	HGWC-12	HGWC-13	MW-19	MW-20	MW-24D	MW-27D
2/14/2024						<0.002		
2/15/2024	<0.002	<0.002	<0.002		<0.002		<0.002	
2/16/2024				<0.002				<0.002
8/7/2024	<0.002	<0.002	<0.002			<0.002		
8/8/2024				<0.002	<0.002		0.00086 (J)	<0.002
2/13/2025		<0.002	<0.002		<0.002			
2/14/2025	<0.002							
2/15/2025						<0.002		<0.002
2/16/2025							0.00066 (J)	
2/17/2025				<0.002				
8/6/2025	<0.002	<0.002	<0.002		<0.002	<0.002		<0.002
8/10/2025				<0.002			<0.002	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/21/2025 3:40 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-7	HGWC-8	HGWC-9
5/19/2016	<0.002	0.00127 (J)	<0.002					
5/20/2016						<0.002	<0.002	
5/23/2016								<0.002
7/11/2016	<0.002	0.002 (J)						
7/12/2016			0.0008 (J)			<0.002	<0.002	<0.002
8/30/2016	<0.002	0.0017 (J)	<0.002					
9/1/2016						<0.002	<0.002	<0.002
10/19/2016	<0.002	<0.002	<0.002					
10/20/2016						<0.002	<0.002	<0.002
12/6/2016	<0.002	<0.002	<0.002			<0.002	<0.002	<0.002
1/24/2017	<0.002	<0.002	<0.002					
1/25/2017						<0.002	<0.002	
1/26/2017								<0.002
3/21/2017	0.0005 (J)	<0.002	0.0007 (J)			<0.002	<0.002	
3/22/2017								0.0008 (J)
5/22/2017	<0.002	0.0006 (J)	0.0006 (J)					
5/23/2017						<0.002	<0.002	<0.002
4/2/2018	<0.002	<0.002						
4/3/2018			<0.002			<0.002	<0.002	<0.002
6/4/2018	<0.002	0.00088 (J)	0.0008 (J)					
6/5/2018						<0.002		
6/6/2018							<0.002	<0.002
10/1/2018	<0.002	<0.002	0.0011 (J)					
10/2/2018						0.0019 (J)	<0.002	<0.002
3/12/2019	<0.002	0.00069 (J)	0.00063 (J)				<0.002	
3/13/2019						<0.002		0.00075 (J)
4/1/2019			<0.002					
4/2/2019	<0.002	<0.002				<0.002		
4/3/2019							<0.002	<0.002
9/23/2019	0.00046 (J)	0.00067 (J)	0.0011 (J)					
9/24/2019							<0.002	
9/25/2019						<0.002		
9/27/2019								0.00037 (J)
3/2/2020	<0.002	0.00043 (J)	0.0004 (J)					
3/3/2020							<0.002	
3/4/2020						<0.002		<0.002
3/25/2020	<0.002	<0.002	<0.002					
3/27/2020						<0.002	<0.002	
3/31/2020								<0.002
8/25/2020		<0.002	<0.002					
8/28/2020	<0.002							
9/15/2020	<0.002	<0.002	<0.002					
9/16/2020				<0.002	<0.002	<0.002	<0.002	
9/17/2020								<0.002
11/10/2020				0.0021 (J)	<0.002			
12/15/2020				<0.002	<0.002			
1/19/2021				0.0011 (J)	<0.002			
2/8/2021	<0.002							
2/9/2021		<0.002	<0.002	0.0017 (J)	0.00083 (J)			
2/10/2021						<0.002		
2/16/2021							<0.002	<0.002
3/10/2021	<0.002				<0.002			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/21/2025 3:40 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-7	HGWC-8	HGWC-9
3/11/2021		<0.002	<0.002	0.0013 (J)				
3/15/2021						<0.002	<0.002	
3/16/2021								<0.002
8/11/2021	<0.002			0.0015 (J)				
8/12/2021		<0.002	<0.002					
8/13/2021					<0.002			
8/16/2021						<0.002		
8/17/2021								<0.002
8/18/2021							<0.002	
2/1/2022	0.0016 (J)	0.0023 (J)	0.0024 (J)	0.0036 (J)	0.0025 (J)			
2/9/2022								0.0021 (J)
2/10/2022						<0.002	0.002 (J)	
8/2/2022	<0.002	<0.002	<0.002	<0.002	<0.002			
8/3/2022							<0.002	
8/4/2022								<0.002
8/11/2022						<0.002		
1/23/2023			<0.002					
1/24/2023	<0.002	<0.002		<0.002	0.0027 (J)			
1/26/2023								<0.002
1/27/2023						<0.002		
2/1/2023							<0.002	
8/8/2023	<0.002	<0.002	<0.002	<0.002	<0.002			
8/11/2023								<0.002
8/12/2023						<0.002	<0.002	
2/13/2024	<0.002	<0.002	<0.002	0.00097 (J)	0.0014 (J)			
2/14/2024						<0.002	<0.002	
2/15/2024								<0.002
8/5/2024	<0.002	<0.002	<0.002					
8/6/2024				<0.002	<0.002			
8/7/2024						<0.002	<0.002	<0.002
2/12/2025	<0.002		<0.002	<0.002	0.0014 (J)			
2/14/2025		<0.002						
2/15/2025							<0.002	<0.002
2/16/2025						<0.002		
8/5/2025	<0.002	<0.002	<0.002	<0.002	<0.002			
8/6/2025						<0.002	<0.002	
8/7/2025								<0.002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/21/2025 3:40 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-10	HGWC-11	HGWC-12	HGWC-13	MW-19	MW-20	MW-24D	MW-27D
5/23/2016	<0.002	<0.002	0.0046 (J)	0.329				
7/12/2016	<0.002	0.0015 (J)	0.005	0.297				
9/1/2016	<0.002	<0.002	0.0043 (J)	0.314				
10/24/2016	<0.002	<0.002	0.0049 (J)	0.334				
12/7/2016	<0.002	<0.002	0.0046 (J)	0.35				
1/26/2017	<0.002	<0.002	<0.01	0.424				
3/22/2017	<0.002	0.0053	0.0019 (J)	0.419				
5/24/2017	<0.002	<0.002	0.0022 (J)	0.393				
4/4/2018	<0.002	<0.002	<0.01	0.49				
6/5/2018	<0.002	0.0012 (J)		0.38				
6/6/2018			0.0048 (J)					
10/2/2018	<0.002							
10/3/2018		<0.002	0.0037 (J)					
10/5/2018				0.34				
3/13/2019	<0.002	0.0024 (J)		0.42		0.0023 (J)	<0.002	<0.005
3/14/2019			0.0026 (J)		<0.002			
4/2/2019						<0.002		
4/3/2019	<0.002	0.00094 (J)	0.0022 (J)		<0.002			
4/4/2019								0.0002 (J)
4/5/2019				0.36				
4/8/2019							<0.002	
9/25/2019						<0.002		
9/26/2019				0.44			<0.002	<0.005
9/27/2019	<0.002	0.0018 (J)	0.0061		<0.002			
3/2/2020						0.00038 (J)		
3/3/2020	<0.002	0.0022 (J)	0.0023 (J)					
3/4/2020				0.52	0.00045 (J)		<0.002	0.00069 (J)
3/26/2020			0.0028 (J)		<0.002			
3/27/2020						<0.002		
3/30/2020				0.47			<0.002	
3/31/2020		0.0022 (J)						
4/1/2020	<0.002							
4/2/2020								<0.005
9/16/2020	<0.002							
9/17/2020						<0.002		
9/18/2020		0.00081 (J)	0.0031 (J)					<0.005
9/21/2020				0.39	<0.002		<0.002	
2/11/2021						0.00094 (J)		
2/12/2021		0.002 (J)	0.0045 (J)		<0.002			
2/15/2021	<0.002							
2/16/2021							<0.002	0.001 (J)
2/22/2021				0.45				
3/12/2021	<0.002							<0.005
3/15/2021						<0.002		
3/16/2021		0.0017 (J)	0.0038 (J)					
3/17/2021				0.39	<0.002		<0.002	
8/17/2021	<0.002					<0.002		<0.005
8/18/2021		<0.002	0.0028 (J)		<0.002			
8/19/2021				0.31			<0.002	
2/9/2022	<0.002	0.0047 (J)	0.0053		<0.002			
2/10/2022				0.38		<0.002	<0.002	<0.005
8/3/2022	<0.002	<0.002	0.0023 (J)	0.4			<0.002	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/21/2025 3:40 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-10	HGWC-11	HGWC-12	HGWC-13	MW-19	MW-20	MW-24D	MW-27D
8/4/2022					<0.002	<0.002		
1/26/2023		<0.002	0.0025 (J)	0.53	<0.002	<0.002	<0.002	
1/27/2023	<0.002							<0.005
8/10/2023	<0.002	<0.002	<0.01		<0.002	<0.002		
8/12/2023				0.54			<0.002	<0.005
2/14/2024						<0.002		
2/15/2024	<0.002	<0.002	0.0027 (J)		<0.002		<0.002	
2/16/2024				0.5				<0.005
8/7/2024	<0.002	0.0015 (J)	0.0024 (J)			<0.002		
8/8/2024				0.52	<0.002		<0.002	<0.005
2/13/2025		<0.002	0.0033 (J)		<0.002			
2/14/2025	<0.002							
2/15/2025						<0.002		<0.005
2/16/2025							<0.002	
2/17/2025				0.34				
8/6/2025	<0.002	<0.002	0.0022		<0.002	<0.002		0.0013 (J)
8/10/2025				0.48			<0.002	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Barium (mg/L) Analysis Run 10/21/2025 3:40 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-7	HGWC-8	HGWC-9
5/19/2016	0.0346	0.114	0.111					
5/20/2016						0.0687	0.0808	
5/23/2016								0.117
7/11/2016	0.0311	0.112						
7/12/2016			0.115			0.0731	0.083	0.13
8/30/2016	0.0293	0.131	0.113					
9/1/2016						0.0747	0.0829	0.13
10/19/2016	0.0293	0.111	0.123					
10/20/2016						0.072	0.0811	0.0806
12/6/2016	0.0304	0.108	0.127			0.0752	0.0845	0.128
1/24/2017	0.028	0.102	0.126					
1/25/2017						0.0747	0.078	
1/26/2017								0.142
3/21/2017	0.0275	0.095	0.12			0.0722	0.0791	
3/22/2017								0.122
5/22/2017	0.0281	0.103	0.117					
5/23/2017						0.0794	0.0846	0.127
4/2/2018	0.026	0.099						
4/3/2018			0.11			0.075	0.065	0.1
6/4/2018	0.035	0.11	0.12					
6/5/2018						0.071		
6/6/2018							0.063	0.11
10/1/2018	0.029	0.11	0.14					
10/2/2018						0.078	0.061	0.11
3/12/2019	0.042	0.12	0.13				0.062	
3/13/2019						0.083		0.1
4/1/2019			0.13					
4/2/2019	0.04	0.13				0.072		
4/3/2019							0.066	0.12
9/23/2019	0.042	0.13	0.13					
9/24/2019							0.053	
9/25/2019						0.061		
9/27/2019								0.11
3/2/2020	0.034	0.11	0.14					
3/3/2020							0.052	
3/4/2020						0.068		0.11
3/25/2020	0.043	0.12	0.13					
3/27/2020						0.059	0.059	
3/31/2020								0.11
8/25/2020		0.11	0.11					
8/28/2020	0.036							
9/15/2020	0.035	0.12	0.12					
9/16/2020				0.26	0.24	0.068	0.06	
9/17/2020								0.11
11/10/2020				0.25	0.38			
12/15/2020				0.29	0.39			
1/19/2021				0.32	0.41			
2/8/2021	0.032							
2/9/2021		0.12	0.13	0.34	0.46			
2/10/2021						0.069		
2/16/2021							0.069	0.11
3/10/2021	0.03				0.26			

Time Series

Constituent: Barium (mg/L) Analysis Run 10/21/2025 3:40 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-7	HGWC-8	HGWC-9
3/11/2021		0.07	0.13	0.31 (D)				
3/15/2021						0.074	0.063	
3/16/2021								0.11
8/11/2021	0.03			0.28				
8/12/2021		0.12	0.11					
8/13/2021					0.22			
8/16/2021						0.068		
8/17/2021								0.095
8/18/2021							0.062	
2/1/2022	0.031	0.13	0.12	0.29	0.23			
2/9/2022								0.096
2/10/2022						0.063	0.056	
8/2/2022	0.039	0.11	0.16	0.35	0.37			
8/3/2022							0.06	
8/4/2022								0.091
8/11/2022						0.071		
1/23/2023			0.13					
1/24/2023	0.033	0.088		0.28	0.18			
1/26/2023								0.069
1/27/2023						0.065		
2/1/2023							0.058	
8/8/2023	0.039	0.068	0.12	0.3	0.12			
8/11/2023								0.068
8/12/2023						0.06	0.052	
2/13/2024	0.039	0.062	0.13	0.28	0.12			
2/14/2024						0.067	0.048	
2/15/2024								0.054
8/5/2024	0.032	0.062	0.13					
8/6/2024				0.28	0.11			
8/7/2024						0.082	0.053	0.054
2/12/2025	0.034		0.13	0.3	0.095			
2/14/2025		0.057						
2/15/2025							0.048	0.065
2/16/2025						0.092		
8/5/2025	0.033	0.053	0.11	0.27	0.092			
8/6/2025						0.078	0.039	
8/7/2025								0.06

Time Series

Constituent: Barium (mg/L) Analysis Run 10/21/2025 3:40 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-10	HGWC-11	HGWC-12	HGWC-13	MW-19	MW-20	MW-24D	MW-27D
5/23/2016	0.0877	0.0466	0.133	0.0779				
7/12/2016	0.0926	0.0616	0.135	0.0697				
9/1/2016	0.0994	0.0497	0.123	0.07				
10/24/2016	0.101	0.0794	0.135	0.0882				
12/7/2016	0.107	0.1	0.13	0.0798				
1/26/2017	0.0538	0.0696	0.127	0.0738				
3/22/2017	0.0962	0.0346	0.112	0.0755				
5/24/2017	0.0996	0.0437	0.106	0.0627				
4/4/2018	0.084	0.029	0.083	0.099				
6/5/2018	0.086	0.039		0.13				
6/6/2018			0.09					
10/2/2018	0.076							
10/3/2018		0.033	0.087					
10/5/2018				0.076				
3/13/2019	0.044	0.024		0.1		0.087	0.053	1.5
3/14/2019			0.081		0.06			
4/2/2019						0.08		
4/3/2019	0.076	0.023	0.077		0.05			
4/4/2019								1.2
4/5/2019				0.079				
4/8/2019							0.043	
9/25/2019						0.085		
9/26/2019				0.11			0.12	0.95
9/27/2019	0.078	0.033	0.096		0.068			
3/2/2020						0.099		
3/3/2020	0.048	0.022	0.092					
3/4/2020				0.1	0.069		0.081	0.95
3/26/2020			0.089		0.067			
3/27/2020						0.093		
3/30/2020				0.08			0.056	
3/31/2020		0.026						
4/1/2020	0.058							
4/2/2020								1
9/16/2020	0.068							
9/17/2020						0.096		
9/18/2020		0.043	0.086					1
9/21/2020				0.052	0.056		0.053	
2/11/2021						0.093		
2/12/2021		0.039	0.09		0.051			
2/15/2021	0.06							
2/16/2021							0.062	1
2/22/2021				0.061				
3/12/2021	0.058							1.1
3/15/2021						0.096		
3/16/2021		0.035	0.084					
3/17/2021				0.056	0.049		0.055	
8/17/2021	0.055					0.089		1.1
8/18/2021		0.04	0.083		0.045			
8/19/2021				0.049			0.048	
2/9/2022	0.042	0.042	0.075		0.042			
2/10/2022				0.053		0.082	0.048	0.99
8/3/2022	0.069	0.041	0.086	0.07			0.053	0.94

Time Series

Constituent: Barium (mg/L) Analysis Run 10/21/2025 3:40 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-10	HGWC-11	HGWC-12	HGWC-13	MW-19	MW-20	MW-24D	MW-27D
8/4/2022					0.05	0.093		
1/26/2023		0.031	0.076	0.079	0.039	0.097	0.054	
1/27/2023	0.041							0.94
8/10/2023	0.045	0.027	0.075		0.032	0.093		
8/12/2023				0.057			0.053	0.98
2/14/2024						0.095		
2/15/2024	0.048	0.037	0.068		0.03		0.034	
2/16/2024				0.056				0.65
8/7/2024	0.059	0.029	0.063			0.089		
8/8/2024				0.05	0.031		0.048	0.63
2/13/2025		0.042	0.068		0.035			
2/14/2025	0.049							
2/15/2025						0.097		0.49
2/16/2025							0.039	
2/17/2025				0.046				
8/6/2025	0.061	0.027	0.055		0.038	0.088		0.26
8/10/2025				0.046			0.055	

Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/21/2025 3:40 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-7	HGWC-8	HGWC-9
5/19/2016	<0.0004	<0.003	<0.0004					
5/20/2016						<0.0004	<0.0005	
5/23/2016								<0.0004
7/11/2016	<0.0004	0.0001 (J)						
7/12/2016			<0.0004			<0.0004	<0.0005	<0.0004
8/30/2016	<0.0004	<0.003	<0.0004					
9/1/2016						<0.0004	<0.0005	<0.0004
10/19/2016	<0.0004	0.0001 (J)	<0.0004					
10/20/2016						<0.0004	<0.0005	<0.0004
12/6/2016	<0.0004	0.0002 (J)	<0.0004			<0.0004	<0.0005	<0.0004
1/24/2017	<0.0004	0.0001 (J)	<0.0004					
1/25/2017						<0.0004	<0.0005	
1/26/2017								<0.0004
3/21/2017	<0.0004	0.0001 (J)	<0.0004			<0.0004	<0.0005	
3/22/2017								<0.0004
5/22/2017	<0.0004	0.0001 (J)	<0.0004					
5/23/2017						<0.0004	<0.0005	<0.0004
4/2/2018	<0.0004	<0.003						
4/3/2018			<0.0004			<0.0004	<0.0005	<0.0004
3/12/2019	<0.0004	0.00017 (J)	<0.0004				<0.0005	
3/13/2019						<0.0004		<0.0004
4/1/2019			<0.0004					
4/2/2019	<0.0004	0.00015 (J)				<0.0004		
4/3/2019							7.4E-05 (J)	<0.0004
9/23/2019	<0.0004	0.00011 (J)	<0.0004					
9/24/2019							<0.0005	
9/25/2019						<0.0004		
9/27/2019								<0.0004
3/2/2020	<0.0004	0.00014 (J)	<0.0004					
3/3/2020							<0.0005	
3/4/2020						7.7E-05 (J)		<0.0004
3/25/2020	<0.0004	0.00016 (J)	<0.0004					
3/27/2020						<0.0004	<0.0005	
3/31/2020								<0.0004
8/25/2020		0.00014 (J)	<0.0004					
8/28/2020	<0.0004							
9/15/2020	<0.0004	0.00013 (J)	<0.0004					
9/16/2020				<0.0004	<0.0004	<0.0004	0.0001 (J)	
9/17/2020								<0.0004
11/10/2020				<0.0004	<0.0004			
12/15/2020				<0.0004	<0.0004			
1/19/2021				<0.0004	<0.0004			
2/8/2021	<0.0004							
2/9/2021		0.00014 (J)	<0.0004	<0.0004	<0.0004			
2/10/2021						8.1E-05 (J)		
2/16/2021							7.1E-05 (J)	<0.0004
3/10/2021	<0.0004				<0.0004			
3/11/2021		8.6E-05 (J)	<0.0004	<0.0004				
3/15/2021						0.00019 (J)	7.8E-05 (J)	
3/16/2021								<0.0004
8/11/2021	<0.0004			<0.0004				
8/12/2021		0.00014 (J)	<0.0004					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/21/2025 3:40 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-7	HGWC-8	HGWC-9
8/13/2021					<0.0004			
8/16/2021						<0.0004		
8/17/2021								<0.0004
8/18/2021							8.7E-05 (J)	
2/1/2022	<0.0004	0.0002 (J)	<0.0004	<0.0004	<0.0004			
2/9/2022								<0.0004
2/10/2022						<0.0004	7.1E-05 (J)	
8/2/2022	<0.0004	0.00019 (J)	<0.0004	<0.0004	<0.0004			
8/3/2022							5.6E-05 (J)	
8/4/2022								<0.0004
8/11/2022						<0.0004		
1/23/2023			<0.0004					
1/24/2023	<0.0004	0.00016 (J)		<0.0004	<0.0004			
1/26/2023								<0.0004
1/27/2023						<0.0004		
2/1/2023							5.6E-05 (J)	
8/8/2023	<0.0004	0.00022 (J)	<0.0004	<0.0004	<0.0004			
8/11/2023								<0.0004
8/12/2023						<0.0004	<0.0005	
2/13/2024	<0.0004	0.00022 (J)	<0.0004	<0.0004	<0.0004			
2/14/2024						<0.0004	<0.0005	
2/15/2024								<0.0004
8/5/2024	<0.0004	0.00026 (J)	<0.0004					
8/6/2024				<0.0004	<0.0004			
8/7/2024						<0.0004	<0.0005	<0.0004
2/12/2025	<0.0004		<0.0004	<0.0004	<0.0004			
2/14/2025		0.00023 (J)						
2/15/2025							0.00017 (J)	<0.0004
2/16/2025						<0.0004		
8/5/2025	<0.0004	0.00026 (J)	<0.0004	<0.0004	<0.0004			
8/6/2025						<0.0004	0.00034 (J)	
8/7/2025								<0.0004

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/21/2025 3:40 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-10	HGWC-11	HGWC-12	HGWC-13	MW-19	MW-20	MW-24D	MW-27D
5/23/2016	<0.0004	<0.0004	<0.0004	<0.0005				
7/12/2016	<0.0004	<0.0004	<0.0004	<0.0005				
9/1/2016	<0.0004	<0.0004	<0.0004	<0.0005				
10/24/2016	<0.0004	<0.0004	<0.0004	<0.0005				
12/7/2016	<0.0004	<0.0004	<0.0004	<0.0005				
1/26/2017	<0.0004	<0.0004	<0.0004	<0.0005				
3/22/2017	<0.0004	9E-05 (J)	<0.0004	<0.0005				
5/24/2017	<0.0004	<0.0004	<0.0004	<0.0005				
4/4/2018	<0.0004	<0.0004	<0.0004	<0.0005				
3/13/2019	<0.0004	0.0001 (J)		6.2E-05 (J)		<0.0004	<0.0004	<0.0004
3/14/2019			<0.0004		<0.0004			
4/2/2019						<0.0004		
4/3/2019	<0.0004	0.00017 (J)	<0.0004		<0.0004			
4/4/2019								<0.0004
4/5/2019				<0.0005				
4/8/2019							<0.0004	
9/25/2019						<0.0004		
9/26/2019				0.00011 (J)			<0.0004	<0.0004
9/27/2019	<0.0004	8.6E-05 (J)	<0.0004		<0.0004			
3/2/2020						<0.0004		
3/3/2020	<0.0004	0.00012 (J)	<0.0004					
3/4/2020				9.3E-05 (J)	<0.0004		<0.0004	<0.0004
3/26/2020			<0.0004		<0.0004			
3/27/2020						<0.0004		
3/30/2020				9.9E-05 (J)			<0.0004	
3/31/2020		0.00015 (J)						
4/1/2020	<0.0004							
4/2/2020								<0.0004
9/16/2020	<0.0004							
9/17/2020						<0.0004		
9/18/2020		<0.0004	<0.0004					<0.0004
9/21/2020				0.00011 (J)	<0.0004		<0.0004	
2/11/2021						<0.0004		
2/12/2021		<0.0004	<0.0004		<0.0004			
2/15/2021	<0.0004							
2/16/2021							<0.0004	<0.0004
2/22/2021				9.7E-05 (J)				
3/12/2021	<0.0004							<0.0004
3/15/2021						<0.0004		
3/16/2021		8.1E-05 (J)	<0.0004					
3/17/2021				9E-05 (J)	<0.0004		<0.0004	
8/17/2021	<0.0004					<0.0004		<0.0004
8/18/2021		<0.0004	<0.0004		5.8E-05 (J)			
8/19/2021				7.3E-05 (J)			<0.0004	
2/9/2022	<0.0004	<0.0004	<0.0004		<0.0004			
2/10/2022				<0.0005		<0.0004	<0.0004	<0.0004
8/3/2022	<0.0004	<0.0004	<0.0004	<0.0005			<0.0004	<0.0004
8/4/2022					<0.0004	<0.0004		
1/26/2023		<0.0004	<0.0004	9.9E-05 (J)	<0.0004	<0.0004	<0.0004	
1/27/2023	<0.0004							<0.0004
8/10/2023	<0.0004	6.9E-05 (J)	<0.0004		<0.0004	<0.0004		
8/12/2023				0.0001 (J)			<0.0004	<0.0004

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/21/2025 3:40 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-10	HGWC-11	HGWC-12	HGWC-13	MW-19	MW-20	MW-24D	MW-27D
2/14/2024						<0.0004		
2/15/2024	<0.0004	<0.0004	<0.0004		<0.0004		<0.0004	
2/16/2024				<0.0005				<0.0004
8/7/2024	<0.0004	<0.0004	<0.0004			<0.0004		
8/8/2024				<0.0005	<0.0004		<0.0004	<0.0004
2/13/2025		<0.0004	<0.0004		<0.0004			
2/14/2025	<0.0004							
2/15/2025						<0.0004		<0.0004
2/16/2025							<0.0004	
2/17/2025				<0.0005				
8/6/2025	<0.0004	<0.0004	<0.0004		<0.0004	<0.0004		<0.0004
8/10/2025				0.00018 (J)			<0.0004	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 10/21/2025 3:40 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-7	HGWC-8	HGWC-9
5/19/2016	0.0214 (J)	0.0321 (J)	<0.04					
5/20/2016						0.885	1.71	
5/23/2016								1.76
7/11/2016	0.0142 (J)	0.0337 (J)						
7/12/2016			0.0074 (J)			0.857	1.43	1.56
8/30/2016	0.0074 (J)	0.0173 (J)	<0.04					
9/1/2016						0.904	1.91	2
10/19/2016	0.0224 (J)	0.0341 (J)	0.0085 (J)					
10/20/2016						0.936	1.72	1.68
12/6/2016	0.0211 (J)	0.0326 (J)	0.0085 (J)			1.06	2.06	2.15
1/24/2017	0.0165 (J)	0.0365 (J)	0.01 (J)					
1/25/2017						0.764	2.01	
1/26/2017								1.87
3/21/2017	0.0187 (J)	0.0349 (J)	0.0079 (J)			0.857	2.08	
3/22/2017								1.99
5/22/2017	0.0782	0.0475	0.0131 (J)					
5/23/2017						0.91	2.32	2.29
10/3/2017	0.0198 (J)	0.0386 (J)	0.0097 (J)			0.967	2.84	2.05
6/4/2018	0.02 (J)	0.036 (J)	0.017 (J)					
6/5/2018						0.86		
6/6/2018							2.6	2.3
10/1/2018	0.013 (J)	0.035 (J)	0.0061 (J)					
10/2/2018						0.98	2.7	2.5
4/1/2019			0.0066 (J)					
4/2/2019	0.016 (J)	0.034 (J)				0.99		
4/3/2019							2.8	2.3
9/23/2019	0.021 (J)	0.04 (J)	0.0081 (J)					
9/24/2019							2.8	
9/25/2019						1.1		
9/27/2019								2.9
3/25/2020	0.025 (J)	0.039 (J)	0.0096 (J)					
3/27/2020						1.2	2.4	
3/31/2020								2.2
6/16/2020	0.021 (J)		0.01 (J)				2.2	
6/17/2020						1		
9/15/2020	0.017 (J)	0.044 (J)	0.0071 (J)					
9/16/2020				0.061 (J)	0.23	1.1	1.9	
9/17/2020								2
11/10/2020				0.057 (J)	0.29			
12/15/2020				0.052 (J)	0.31			
1/19/2021				0.049 (J)	0.4			
3/10/2021	0.015 (J)				0.39			
3/11/2021		0.056	0.015 (J)	0.06				
3/15/2021						1.1	1.7	
3/16/2021								2.2
8/11/2021	0.02 (J)			0.042				
8/12/2021		0.044	<0.04					
8/13/2021					0.31			
8/16/2021						1.1		
8/17/2021								2.3
8/18/2021							1.8	
2/1/2022	0.016 (J)	0.056	0.011 (J)	0.05	0.44			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 10/21/2025 3:40 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-7	HGWC-8	HGWC-9
2/9/2022								2.3
2/10/2022						1.3	1.7	
8/2/2022	0.012 (J)	0.047	<0.04	0.043	0.31			
8/3/2022							1.5	
8/4/2022								2
8/11/2022						1.1		
1/23/2023			0.012 (J)					
1/24/2023	0.015 (J)	0.046		0.037 (J)	0.44			
1/26/2023								1.9
1/27/2023						0.93		
2/1/2023							1.9	
8/8/2023	0.023 (J)	0.06	0.011 (J)	0.038 (J)	0.55			
8/11/2023								2.1
8/12/2023						0.82	1.7	
2/13/2024	0.02 (J)	0.051	<0.04	0.037 (J)	0.49			
2/14/2024						0.98	1.6	
2/15/2024								2.1
8/5/2024	0.02 (J)	0.057	<0.04					
8/6/2024				0.043	0.52			
8/7/2024						0.77	1.7	1.9
2/12/2025	0.021 (J)		0.011 (J)	0.04 (J)	0.54			
2/14/2025		0.053						
2/15/2025							1.4 (M1)	2
2/16/2025						0.9		
8/5/2025	0.019 (J)	0.044	0.009 (J)	0.039 (J)	0.45			
8/6/2025						0.74	1.3	
8/7/2025								2

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 10/21/2025 3:40 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-10	HGWC-11	HGWC-12	HGWC-13	MW-19	MW-20	MW-24D	MW-27D
5/23/2016	0.72	0.787	2.2	2.15				
7/12/2016	0.778	1.17	1.98	1.91				
9/1/2016	0.786	1.49	2.28	2.3				
10/24/2016	0.831	2.54	2.75	4.01				
12/7/2016	1.01	2.96	3.35	3.85				
1/26/2017	0.108	2.23	3.07	2.45				
3/22/2017	0.788	0.84	3.04	1.99				
5/24/2017	0.814	2.29	2.95	1.74				
10/3/2017	0.871	1.47	2.35	1.43				
6/5/2018	1.2	1.3		1.3				
6/6/2018			2.5					
10/2/2018	0.62							
10/3/2018		0.91	2.3					
10/5/2018				1.6				
3/13/2019				1				
4/2/2019						0.11		
4/3/2019	0.66	0.23	1.8		0.63			
4/4/2019								0.12 (J)
4/5/2019				0.86 (J)				
4/8/2019							0.47 (J)	
9/25/2019						0.091		
9/26/2019				1.7			0.49	0.14
9/27/2019	1	0.53	2.1		0.58			
3/26/2020			1.6		1			
3/27/2020						0.12		
3/30/2020				1.8			0.51	
3/31/2020		0.17						
4/1/2020	0.23							
4/2/2020								0.13
9/16/2020	1.1							
9/17/2020						0.11		
9/18/2020		0.91	1.6					0.12
9/21/2020				1.6	0.89		0.45	
3/12/2021	0.64							0.13
3/15/2021						0.12		
3/16/2021		0.53	1.9					
3/17/2021				0.89	0.69		0.49	
8/17/2021	0.88					0.11		0.14
8/18/2021		0.91	1.9		0.55			
8/19/2021				0.73			0.52	
2/9/2022	0.1	1	2		0.49			
2/10/2022				1		0.13	0.55	0.13
8/3/2022	0.53	0.64	1.5	0.76			0.49	0.12
8/4/2022					0.58	0.11		
1/26/2023		0.5	1.5	0.83	0.36	0.099	0.47	
1/27/2023	0.065							0.12
8/10/2023	0.65	0.44	1.4		0.53	0.1		
8/12/2023				1			0.55	0.13
2/14/2024						0.12		
2/15/2024	0.089	0.85	1.8		0.25		0.38	
2/16/2024				1				0.12
8/7/2024	0.48	0.46	1.2			0.1		

Time Series

Constituent: Boron (mg/L) Analysis Run 10/21/2025 3:40 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-10	HGWC-11	HGWC-12	HGWC-13	MW-19	MW-20	MW-24D	MW-27D
8/8/2024				0.81	0.61		0.5	0.13
2/13/2025		0.92	1.4		0.33 (JED)			
2/14/2025	0.1							
2/15/2025						0.13		0.12
2/16/2025							0.51	
2/17/2025				1				
8/6/2025	0.16	0.24	1.1		0.39 (J)	0.11		0.088
8/10/2025				0.77			0.57	

Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/21/2025 3:40 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-7	HGWC-8	HGWC-9
5/19/2016	<0.0005	<0.0005	<0.0005					
5/20/2016						<0.0005	0.00024 (J)	
5/23/2016								<0.0005
7/11/2016	<0.0005	<0.0005						
7/12/2016			<0.0005			<0.0005	0.0002 (J)	<0.0005
8/30/2016	<0.0005	<0.0005	<0.0005					
9/1/2016						<0.0005	0.0001 (J)	<0.0005
10/19/2016	<0.0005	<0.0005	<0.0005					
10/20/2016						<0.0005	0.0001 (J)	0.0002 (J)
12/6/2016	<0.0005	<0.0005	<0.0005			0.0002 (J)	0.0017	0.0001 (J)
1/24/2017	<0.0005	0.0001 (J)	<0.0005					
1/25/2017						0.0002 (J)	0.0002 (J)	
1/26/2017								<0.0005
3/21/2017	<0.0005	7E-05 (J)	<0.0005			0.0002 (J)	0.0002 (J)	
3/22/2017								7E-05 (J)
5/22/2017	<0.0005	0.0001 (J)	<0.0005					
5/23/2017						0.0001 (J)	0.0003 (J)	<0.0005
4/2/2018	<0.0005	<0.0005						
4/3/2018			<0.0005			<0.0005	<0.001	<0.0005
6/4/2018	<0.0005	0.00014 (J)	<0.0005					
10/1/2018	<0.0005	<0.0005	<0.0005					
3/12/2019	<0.0005	0.00013 (J)	<0.0005				0.0002 (J)	
3/13/2019						<0.0005		<0.0005
4/1/2019			<0.0005					
4/2/2019	<0.0005	0.00015 (J)				<0.0005		
4/3/2019							0.00032 (J)	<0.0005
9/23/2019	<0.0005	<0.0005 (D)	<0.0005					
9/24/2019							0.0002 (J)	
9/25/2019						<0.0005		
9/27/2019								<0.0005
3/2/2020	<0.0005	<0.0005	<0.0005					
3/3/2020							0.00017 (J)	
3/4/2020						<0.0005		<0.0005
3/25/2020	<0.0005	0.00014 (J)	<0.0005					
3/27/2020						<0.0005	0.00014 (J)	
3/31/2020								<0.0005
8/25/2020		<0.0005	<0.0005					
8/28/2020	<0.0005							
9/15/2020	<0.0005	0.00012 (J)	<0.0005					
9/16/2020				<0.0005	<0.0005	<0.0005	0.00023 (J)	
9/17/2020								<0.0005
11/10/2020				<0.0005	<0.0005			
12/15/2020				<0.0005	<0.0005			
1/19/2021				<0.0005	<0.0005			
2/8/2021	<0.0005							
2/9/2021		0.00016 (J)	<0.0005	<0.0005	<0.0005			
2/10/2021						<0.0005		
2/16/2021							0.00037 (J)	<0.0005
3/10/2021	<0.0005				<0.0005			
3/11/2021		<0.0005	<0.0005	<0.0005				
3/15/2021						<0.0005	0.00017 (J)	
3/16/2021								<0.0005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/21/2025 3:40 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-7	HGWC-8	HGWC-9
8/11/2021	<0.0005			<0.0005				
8/12/2021		0.00014 (J)	<0.0005					
8/13/2021					<0.0005			
8/16/2021						<0.0005		
8/17/2021								<0.0005
8/18/2021							0.0002 (J)	
2/1/2022	<0.0005	0.00017 (J)	<0.0005	<0.0005	<0.0005			
2/9/2022								<0.0005
2/10/2022						<0.0005	0.00029 (J)	
8/2/2022	<0.0005	0.00023 (J)	<0.0005	<0.0005	<0.0005			
8/3/2022							0.00017 (J)	
8/4/2022								<0.0005
8/11/2022						<0.0005		
1/23/2023			<0.0005					
1/24/2023	<0.0005	0.00021 (J)		<0.0005	<0.0005			
1/26/2023								<0.0005
1/27/2023						0.00019 (J)		
2/1/2023							0.00014 (J)	
8/8/2023	<0.0005	0.00026 (J)	<0.0005	<0.0005	<0.0005			
8/11/2023								<0.0005
8/12/2023						<0.0005	0.00044 (J)	
2/13/2024	<0.0005	0.00027 (J)	<0.0005	<0.0005	<0.0005			
2/14/2024						<0.0005	0.00025 (J)	
2/15/2024								<0.0005
8/5/2024	<0.0005	0.00026 (J)	<0.0005					
8/6/2024				<0.0005	<0.0005			
8/7/2024						<0.0005	0.0014	<0.0005
2/12/2025	<0.0005		<0.0005	<0.0005	<0.0005			
2/14/2025		0.00028 (J)						
2/15/2025							0.00022 (J)	<0.0005
2/16/2025						<0.0005		
8/5/2025	<0.0005	0.00022 (J)	<0.0005	<0.0005	<0.0005			
8/6/2025						<0.0005	0.00017 (J)	
8/7/2025								<0.0005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/21/2025 3:40 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-10	HGWC-11	HGWC-12	HGWC-13	MW-19	MW-20	MW-24D	MW-27D
5/23/2016	0.000115 (J)	<0.0005	<0.0005	<0.0005				
7/12/2016	<0.0005	<0.0005	<0.0005	<0.0005				
9/1/2016	0.0001 (J)	<0.0005	<0.0005	<0.0005				
10/24/2016	0.0001 (J)	<0.0005	<0.0005	<0.0005				
12/7/2016	0.0001 (J)	0.0001 (J)	0.0002 (J)	<0.0005				
1/26/2017	<0.0005	<0.0005	<0.0005	<0.0005				
3/22/2017	0.0001 (J)	0.0001 (J)	0.0003 (J)	<0.0005				
5/24/2017	0.0002 (J)	<0.0005	9E-05 (J)	<0.0005				
4/4/2018	<0.0005	<0.0005	<0.0005	<0.0005				
3/13/2019	<0.0005	<0.0005		<0.0005		<0.0005	<0.0005	<0.0005
3/14/2019			<0.0005		<0.0005			
4/2/2019						<0.0005		
4/3/2019	0.0001 (J)	9.6E-05 (J)	<0.0005		<0.0005			
4/4/2019								<0.0005
4/5/2019				<0.0005				
4/8/2019							<0.0005	
9/25/2019						<0.0005		
9/26/2019				<0.0005			<0.0005	<0.0005
9/27/2019	<0.0005	<0.0005	<0.0005		0.00013 (J)			
3/2/2020						<0.0005		
3/3/2020	<0.0005	<0.0005	0.00015 (J)					
3/4/2020				<0.0005	0.00026 (J)		<0.0005	<0.0005
3/26/2020			<0.0005		0.00019 (J)			
3/27/2020						<0.0005		
3/30/2020				<0.0005			<0.0005	
3/31/2020		<0.0005						
4/1/2020	<0.0005							
4/2/2020								<0.0005
9/16/2020	<0.0005							
9/17/2020						<0.0005		
9/18/2020		<0.0005	<0.0005					<0.0005
9/21/2020				<0.0005	0.00018 (J)		<0.0005	
2/11/2021						<0.0005		
2/12/2021		<0.0005	<0.0005		0.0002 (J)			
2/15/2021	<0.0005							
2/16/2021							<0.0005	<0.0005
2/22/2021				<0.0005				
3/12/2021	<0.0005							<0.0005
3/15/2021						<0.0005		
3/16/2021		<0.0005	<0.0005					
3/17/2021				<0.0005	0.00016 (J)		<0.0005	
8/17/2021	<0.0005					<0.0005		<0.0005
8/18/2021		<0.0005	<0.0005		0.00027 (J)			
8/19/2021				<0.0005			<0.0005	
2/9/2022	<0.0005	<0.0005	<0.0005		0.0011			
2/10/2022				<0.0005		<0.0005	<0.0005	<0.0005
8/3/2022	<0.0005	<0.0005	<0.0005	<0.0005			<0.0005	<0.0005
8/4/2022					0.00022 (J)	<0.0005		
1/26/2023		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
1/27/2023	<0.0005							<0.0005
8/10/2023	<0.0005	<0.0005	<0.0005		0.00018 (J)	<0.0005		
8/12/2023				<0.0005			<0.0005	<0.0005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/21/2025 3:40 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-10	HGWC-11	HGWC-12	HGWC-13	MW-19	MW-20	MW-24D	MW-27D
2/14/2024						<0.0005		
2/15/2024	<0.0005	<0.0005	<0.0005		<0.0005		<0.0005	
2/16/2024				<0.0005				<0.0005
8/7/2024	<0.0005	<0.0005	<0.0005			<0.0005		
8/8/2024				<0.0005	0.00017 (J)		<0.0005	<0.0005
2/13/2025		<0.0005	<0.0005		<0.0005			
2/14/2025	<0.0005							
2/15/2025						<0.0005		<0.0005
2/16/2025							<0.0005	
2/17/2025				<0.0005				
8/6/2025	<0.0005	<0.0005	<0.0005		<0.0005	<0.0005		<0.0005
8/10/2025				<0.0005			<0.0005	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Calcium (mg/L) Analysis Run 10/21/2025 3:40 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-7	HGWC-8	HGWC-9
5/19/2016	138	22.9	76.2					
5/20/2016						117	159	
5/23/2016								179
7/11/2016	97.2	22.3						
7/12/2016			61.5			88.8	127	174
8/30/2016	97.5	26.4	65.1					
9/1/2016						96.3	135	170
10/19/2016	99.2	21.7	73.2					
10/20/2016						96.9	134	133
12/6/2016	105	18.2	74.9			104	142	181
1/24/2017	95.7	18.5	69.6					
1/25/2017						94.5	142	
1/26/2017								175
3/21/2017	106	18.6	75.7			109	148	
3/22/2017								183
5/22/2017	107	17.8	71.5					
5/23/2017						93.3	140	181
10/3/2017	102	20.2	76.3			108	158	188
6/4/2018	124	19.1	73.4					
6/5/2018						99.8		
6/6/2018							127	184
10/1/2018	108	20.5 (J)	80.9					
10/2/2018						108	118	173
4/1/2019			80.5					
4/2/2019	132	22.5 (J)				101		
4/3/2019							125	164
9/23/2019	118	19.5	71					
9/24/2019							113	
9/25/2019						105		
9/27/2019								175
3/25/2020	127	23	89.8					
3/27/2020						119	133	
3/31/2020								182
6/16/2020	130		85.1				120	
6/17/2020						112		
9/15/2020	103	21.1	73.1					
9/16/2020				56	30	98	119	
9/17/2020								164
11/10/2020				63.3	33.6			
12/15/2020				62.6	28.7			
1/19/2021				60.1	33			
3/10/2021	111				12.1 (D)			
3/11/2021		43.8	83.8	59.6				
3/15/2021						113	156	
3/16/2021								182
8/11/2021	113			61				
8/12/2021		21.9	84					
8/13/2021					28.9			
8/16/2021						112		
8/17/2021								183
8/18/2021							147	
2/1/2022	106	27.2	85.1	55.9	24.8			

Time Series

Constituent: Calcium (mg/L) Analysis Run 10/21/2025 3:40 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-7	HGWC-8	HGWC-9
2/9/2022								183
2/10/2022						108	153	
8/2/2022	117	31.2	84.6	54.1	20.9			
8/3/2022							153	
8/4/2022								196
8/11/2022						119		
1/23/2023			85					
1/24/2023	117	29.4		56.6	13.2			
1/26/2023								173
1/27/2023						124		
2/1/2023							110	
8/8/2023	118	30.7	78.3	52.8	8.1			
8/11/2023								168
8/12/2023						101	122	
2/13/2024	116	38.8	83.6	53.3	9.9			
2/14/2024						109	96.2	
2/15/2024								148
8/5/2024	113	34.7	83.3					
8/6/2024				57.2	7.1			
8/7/2024						99.2	97.7	163
2/12/2025	125		86.6	61.8	7.2			
2/14/2025		51.5						
2/15/2025							83.3 (M1)	171
2/16/2025						114		
8/5/2025	113	24.1	72.6	55.2	6			
8/6/2025						92.3	57.6	
8/7/2025								122

Time Series

Constituent: Calcium (mg/L) Analysis Run 10/21/2025 3:40 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-10	HGWC-11	HGWC-12	HGWC-13	MW-19	MW-20	MW-24D	MW-27D
5/23/2016	167	131	195	133				
7/12/2016	143	124	181	101				
9/1/2016	156	107	179	120				
10/24/2016	156	145	193	127				
12/7/2016	183	159	193	113				
1/26/2017	82.6	121	172	77.9				
3/22/2017	154	130	162	85.1				
5/24/2017	171	117	158	77.1				
10/3/2017	162	87.7	130	62				
6/5/2018	167	113		110				
6/6/2018			136					
10/2/2018	144							
10/3/2018		89	125					
10/5/2018				73.6				
3/13/2019				77.7				
4/2/2019						109		
4/3/2019	137	112	114		74.9			
4/4/2019								26.3
4/5/2019				77.1				
4/8/2019							83	
9/25/2019						113		
9/26/2019				195			83.1	32.1
9/27/2019	157	113	153		90			
3/26/2020			145		171			
3/27/2020						126		
3/30/2020				234			84.4	
3/31/2020		124						
4/1/2020	96.2							
4/2/2020								28.4
9/16/2020	139							
9/17/2020						110		
9/18/2020		122	163					24.8
9/21/2020				173	135		87.6	
3/12/2021	146							28
3/15/2021						121		
3/16/2021		132	166					
3/17/2021				184	130		102	
8/17/2021	153					123		28.5
8/18/2021		128	163		125			
8/19/2021				179			99.5	
2/9/2022	76.8	144	172		97.6			
2/10/2022				206		123	110	31.4
8/3/2022	125	131	167	237			102	30.8
8/4/2022					187	131		
1/26/2023		113	154	234	118	122	107	
1/27/2023	60.4							28.1
8/10/2023	155	100	156		127	123		
8/12/2023				172			105	27.8
2/14/2024						128		
2/15/2024	68.4	125	171		109		84	
2/16/2024				152				26.5
8/7/2024	142	101	161			124		

Time Series

Constituent: Calcium (mg/L) Analysis Run 10/21/2025 3:40 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-10	HGWC-11	HGWC-12	HGWC-13	MW-19	MW-20	MW-24D	MW-27D
8/8/2024				127	111		103	22.4
2/13/2025		133	160		111			
2/14/2025	61							
2/15/2025						141		37.4
2/16/2025							75.4	
2/17/2025				115				
8/6/2025	70.3	70	130		98.9	115		21
8/10/2025				109			103	

Time Series

Constituent: Chloride (mg/L) Analysis Run 10/21/2025 3:40 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-7	HGWC-8	HGWC-9
5/19/2016	9.94	6.14	5.93					
5/20/2016						50.4	109	
5/23/2016								152
7/11/2016	6.3	5.9						
7/12/2016			6.2			50	110	160
8/30/2016	6	6.2	6.4					
9/1/2016						50	110	160
10/19/2016	5.8	6.1	6.5					
10/20/2016						49	110	110
12/6/2016	5.4	6	7.2			51	100	150
1/24/2017	5.2	6.1	6.4					
1/25/2017						54	110	
1/26/2017								170
3/21/2017	4.6	5.9	7.5			46	110	
3/22/2017								160
5/22/2017	4.6	5.9	6.5					
5/23/2017						49	130	150
10/3/2017	5.6	6.3	6.5			52	130	160
6/4/2018	13.1	6.1	6.3					
6/5/2018						52.3		
6/6/2018							44.8	138
10/1/2018	6.6	6.4	6.4					
10/2/2018						52.6	89.4	142
4/1/2019			6.5					
4/2/2019	20.3	5.8				55.5		
4/3/2019							91.6	130
9/23/2019	17.7	5.1	5.9					
9/24/2019							60.2	
9/25/2019						49.8		
9/27/2019								126
3/25/2020	20.4	5.2	6.1					
3/27/2020						48.3	79.8	
3/31/2020								105
6/16/2020	41.1		5.8				67.9	
6/17/2020						45.2		
9/15/2020	13.4	5	6					
9/16/2020				4.1	5.65 (D)	46.4	74.6	
9/17/2020								105
11/10/2020				4.4	7.8			
12/15/2020				4.7	9.4			
1/19/2021				4.1	9.5			
3/10/2021	7.4				12.3			
3/11/2021		5.1	5.9	4.5				
3/15/2021						44.5	72.4	
3/16/2021								94.7
8/11/2021	9.6			3.5				
8/12/2021		5.2	4.8					
8/13/2021					39.9			
8/16/2021						40.3		
8/17/2021								88.6
8/18/2021							50.9	
2/1/2022	7.5	7	5.7	4.1	44.8			

Time Series

Constituent: Chloride (mg/L) Analysis Run 10/21/2025 3:40 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-7	HGWC-8	HGWC-9
2/9/2022								84.4
2/10/2022						39.8	48.2	
8/2/2022	14.1	7.8	5.9	4.3	19.8			
8/3/2022							54.1	
8/4/2022								86.8
8/11/2022						37.7		
1/23/2023			5.6					
1/24/2023	9	7.1		4.3	24.9			
1/26/2023								86.9
1/27/2023						40		
2/1/2023							52.4	
8/8/2023	26	6.6	5.3	3.5	27			
8/11/2023								78.9
8/12/2023						33.3	53.1	
2/13/2024	10	6.3	5.3	3.9	27.7			
2/14/2024						35.8	32.9	
2/15/2024								83.2
8/5/2024	8.7	7.9	5.2					
8/6/2024				4	30.2			
8/7/2024						28.6	36.1	87.1
2/12/2025	4.8		5	3.8	30.7			
2/14/2025		8.5						
2/15/2025							25	81.2
2/16/2025						30.7		
8/5/2025	17.2	9.6	5.5	4	29.7			
8/6/2025						27.7	21.9	
8/7/2025								84.4

Time Series

Constituent: Chloride (mg/L) Analysis Run 10/21/2025 3:40 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-10	HGWC-11	HGWC-12	HGWC-13	MW-19	MW-20	MW-24D	MW-27D
5/23/2016	56.1	51.9	160	93.2				
7/12/2016	63	100	160	78				
9/1/2016	77	58	140	100				
10/24/2016	99	220	160	140				
12/7/2016	96	180	190	110				
1/26/2017	7	90	160	70				
3/22/2017	82	37	130	59				
5/24/2017	81	69	120	50				
10/3/2017	100	28	93	29				
6/5/2018	66.6	56.1		72.3				
6/6/2018			46.4					
10/2/2018	48.3							
10/3/2018		24.8	88.4					
10/5/2018				32.3				
4/2/2019						27.5		
4/3/2019	49.3	4.6	62.8		19.5			
4/4/2019								26.9
4/5/2019				36.4				
4/8/2019							43.3	
9/25/2019						25.7		
9/26/2019				109			39.7	31.8
9/27/2019	49.9	27.9	81		46.2			
3/26/2020			48		64			
3/27/2020						28.8		
3/30/2020				75.1			37.4	
3/31/2020		3.2						
4/1/2020	5.4							
4/2/2020								27.9
9/16/2020	39.7							
9/17/2020						29.7		
9/18/2020		34.9	74.6					30.4
9/21/2020				41.2	35		45.2	
3/12/2021	35							31.3
3/15/2021						31.1		
3/16/2021		11.5	56.8					
3/17/2021				31.4	19.8		42.9	
8/17/2021	28.3					28.3		30
8/18/2021		19.9	47.3		14.3			
8/19/2021				24.4			37.2	
2/9/2022	1.2	20.4	46.8		10.2			
2/10/2022				17.4		31.4	38.2	31.4
8/3/2022	12.3	13.8	39.2	13			39.6	36.7
8/4/2022					11.3	31.4		
1/26/2023		8.8	34.6	12.5	7.7	30	38	
1/27/2023	1.6							32.5
8/10/2023	13.4	6.5	30.6		11.2	28.4		
8/12/2023				15.3			35.1	29
2/14/2024						30.2		
2/15/2024	2.6	14.5	37.7		7.5		27.8	
2/16/2024				16.7				35.8
8/7/2024	12.9	6.3	26.7			29.8		
8/8/2024				12.8	13.7		38.5	33.1

Time Series

Constituent: Chloride (mg/L) Analysis Run 10/21/2025 3:40 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-10	HGWC-11	HGWC-12	HGWC-13	MW-19	MW-20	MW-24D	MW-27D
2/13/2025		11.7	24.3		10.9			
2/14/2025	2.1							
2/15/2025						29.6		25.2
2/16/2025							23.4	
2/17/2025				13.5				
8/6/2025	2.1	2.5	21.3		11.7	28.8		19.5
8/10/2025				14.8			32.6	

Time Series

Constituent: Chromium (mg/L) Analysis Run 10/21/2025 3:40 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-7	HGWC-8	HGWC-9
5/19/2016	<0.005	<0.005	<0.005					
5/20/2016						<0.005	<0.005	
5/23/2016								<0.005
7/11/2016	<0.005	<0.005						
7/12/2016			<0.005			<0.005	<0.005	<0.005
8/30/2016	<0.005	<0.005	<0.005					
9/1/2016						<0.005	<0.005	<0.005
10/19/2016	<0.005	<0.005	<0.005					
10/20/2016						<0.005	<0.005	<0.005
12/6/2016	<0.005	<0.005	<0.005			<0.005	<0.005	<0.005
1/24/2017	<0.005	<0.005	<0.005					
1/25/2017						<0.005	<0.005	
1/26/2017								<0.005
3/21/2017	0.0005 (J)	<0.005	<0.005			<0.005	0.0005 (J)	
3/22/2017								<0.005
5/22/2017	<0.005	<0.005	0.0007 (J)					
5/23/2017						<0.005	<0.005	<0.005
4/2/2018	<0.005	<0.005						
4/3/2018			<0.005			<0.005	<0.005	<0.005
3/12/2019	<0.005	<0.005	<0.005				<0.005	
3/13/2019						<0.005		<0.005
4/1/2019			<0.005					
4/2/2019	<0.005	0.0079 (J)				<0.005		
4/3/2019							<0.005	<0.005
9/23/2019	<0.005	0.00058 (J)	<0.005					
9/24/2019							<0.005	
9/25/2019						0.071		
9/27/2019								<0.005
3/2/2020	<0.005	0.00041 (J)	<0.005					
3/3/2020							0.0007 (J)	
3/4/2020						0.0016 (J)		<0.005
3/25/2020	0.00072 (J)	<0.005	<0.005					
3/27/2020						0.0004 (J)	<0.005	
3/31/2020								0.00052 (J)
8/25/2020		0.00067 (J)	<0.005					
8/28/2020	<0.005							
9/15/2020	<0.005	<0.005	<0.005					
9/16/2020				<0.005	0.0012 (J)	0.00074 (J)	0.0015 (J)	
9/17/2020								<0.005
11/10/2020				<0.005	0.00089 (J)			
12/15/2020				<0.005	0.00072 (J)			
1/19/2021				<0.005	0.0011 (J)			
2/8/2021	<0.005							
2/9/2021		<0.005	<0.005	0.00095 (J)	0.00066 (J)			
2/10/2021						0.0014 (J)		
2/16/2021							<0.005	0.00067 (J)
3/10/2021	<0.005				<0.005			
3/11/2021		<0.005	<0.005	<0.005				
3/15/2021						0.0021 (J)	0.00082 (J)	
3/16/2021								<0.005
8/11/2021	<0.005			<0.005				
8/12/2021		<0.005	<0.005					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 10/21/2025 3:40 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-7	HGWC-8	HGWC-9
8/13/2021					0.0016 (J)			
8/16/2021						<0.005		
8/17/2021								<0.005
8/18/2021							<0.005	
2/1/2022	<0.005	<0.005	<0.005	<0.005	0.0013 (J)			
2/9/2022								0.0011 (J)
2/10/2022						<0.005	<0.005	
8/2/2022	<0.005	<0.005	<0.005	<0.005	<0.005			
8/3/2022							<0.005	
8/4/2022								<0.005
8/11/2022						<0.005		
1/23/2023			<0.005					
1/24/2023	<0.005	<0.005		<0.005	<0.005			
1/26/2023								0.0013 (J)
1/27/2023						0.0014 (J)		
2/1/2023							<0.005	
8/8/2023	<0.005	<0.005	<0.005	<0.005	<0.005			
8/11/2023								<0.005
8/12/2023						<0.005	<0.005	
2/13/2024	<0.005	<0.005	<0.005	<0.005	<0.005			
2/14/2024						<0.005	<0.005	
2/15/2024								<0.005
8/5/2024	<0.005	<0.005	<0.005					
8/6/2024				<0.005	<0.005			
8/7/2024						<0.005	<0.005	<0.005
2/12/2025	<0.005		<0.005	<0.005	<0.005			
2/14/2025		<0.005						
2/15/2025							<0.005	<0.005
2/16/2025						<0.005		
8/5/2025	<0.005	<0.005	<0.005	<0.005	<0.005			
8/6/2025						<0.005	<0.005	
8/7/2025								<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 10/21/2025 3:40 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-10	HGWC-11	HGWC-12	HGWC-13	MW-19	MW-20	MW-24D	MW-27D
5/23/2016	<0.005	<0.005	<0.005	<0.005				
7/12/2016	<0.005	<0.005	<0.005	<0.005				
9/1/2016	<0.005	<0.005	<0.005	<0.005				
10/24/2016	<0.005	<0.005	<0.005	<0.005				
12/7/2016	<0.005	<0.005	<0.005	<0.005				
1/26/2017	<0.005	<0.005	<0.005	<0.005				
3/22/2017	<0.005	0.0003 (J)	0.0004 (J)	0.0004 (J)				
5/24/2017	<0.005	<0.005	<0.005	<0.005				
4/4/2018	<0.005	<0.005	<0.005	<0.005				
3/13/2019	<0.005	<0.005		<0.005		<0.005	<0.005	<0.005
3/14/2019			0.0025 (J)		<0.005			
4/2/2019						<0.005		
4/3/2019	0.02	<0.005	<0.005		<0.005			
4/4/2019								<0.005
4/5/2019				<0.005				
4/8/2019							<0.005	
9/25/2019						<0.005		
9/26/2019				<0.005			0.00042 (J)	<0.005
9/27/2019	<0.005	<0.005	<0.005		<0.005			
3/2/2020						0.00071 (J)		
3/3/2020	<0.005	0.00061 (J)	<0.005					
3/4/2020				<0.005	0.00066 (J)		<0.005	<0.005
3/26/2020			<0.005		0.00047 (J)			
3/27/2020						0.00051 (J)		
3/30/2020				0.00059 (J)			<0.005	
3/31/2020		<0.005						
4/1/2020	<0.005							
4/2/2020								<0.005
9/16/2020	<0.005							
9/17/2020						<0.005		
9/18/2020		<0.005	0.00091 (J)					0.0007 (J)
9/21/2020				0.00056 (J)	0.0014 (J)		<0.005	
2/11/2021						<0.005		
2/12/2021		<0.005	<0.005		0.00059 (J)			
2/15/2021	<0.005							
2/16/2021							<0.005	0.00082 (J)
2/22/2021				<0.005				
3/12/2021	<0.005							<0.005
3/15/2021						0.00068 (J)		
3/16/2021		<0.005	<0.005					
3/17/2021				<0.005	0.0022 (J)		0.0017 (J)	
8/17/2021	<0.005					<0.005		<0.005
8/18/2021		<0.005	<0.005		<0.005			
8/19/2021				<0.005			<0.005	
2/9/2022	0.0011 (J)	<0.005	<0.005		<0.005			
2/10/2022				<0.005		<0.005	<0.005	<0.005
8/3/2022	<0.005	<0.005	<0.005	<0.005			<0.005	<0.005
8/4/2022					<0.005	<0.005		
1/26/2023		0.0012 (J)	<0.005	<0.005	0.0011 (J)	<0.005	<0.005	
1/27/2023	0.0012 (J)							<0.005
8/10/2023	<0.005	<0.005	<0.005		<0.005	<0.005		
8/12/2023				<0.005			<0.005	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 10/21/2025 3:40 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-10	HGWC-11	HGWC-12	HGWC-13	MW-19	MW-20	MW-24D	MW-27D
2/14/2024						<0.005		
2/15/2024	<0.005	<0.005	<0.005		<0.005		<0.005	
2/16/2024				<0.005				<0.005
8/7/2024	<0.005	<0.005	<0.005			<0.005		
8/8/2024				<0.005	<0.005		<0.005	<0.005
2/13/2025		<0.005	<0.005		<0.005			
2/14/2025	0.0014 (J)							
2/15/2025						<0.005		<0.005
2/16/2025							<0.005	
2/17/2025				<0.005				
8/6/2025	<0.005	<0.005	<0.005		<0.005	<0.005		<0.005
8/10/2025				<0.005			<0.005	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/21/2025 3:40 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-7	HGWC-8	HGWC-9
5/19/2016	<0.005	0.0293	<0.005					
5/20/2016						<0.005	0.00207 (J)	
5/23/2016								<0.005
7/11/2016	0.0004 (J)	0.0267						
7/12/2016			<0.005			0.0003 (J)	0.0019 (J)	0.0006 (J)
8/30/2016	<0.005	0.028	<0.005					
9/1/2016						<0.005	0.0023 (J)	0.0007 (J)
10/19/2016	<0.005	0.0201	<0.005					
10/20/2016						0.0008 (J)	0.002 (J)	0.002 (J)
12/6/2016	<0.005	0.0184	<0.005			0.0009 (J)	0.0026 (J)	0.0011 (J)
1/24/2017	<0.005	0.0206	<0.005					
1/25/2017						0.0005 (J)	0.002 (J)	
1/26/2017								0.0006 (J)
3/21/2017	<0.005	0.0251	<0.005			0.0005 (J)	0.0023 (J)	
3/22/2017								0.0005 (J)
5/22/2017	<0.005	0.0263	<0.005					
5/23/2017						0.0005 (J)	0.0023 (J)	0.0006 (J)
4/2/2018	<0.005	0.019						
4/3/2018			<0.005			<0.005	<0.025	<0.005
6/4/2018	<0.005	0.025	<0.005					
6/5/2018						0.00074 (J)		
6/6/2018							0.0017 (J)	0.00056 (J)
10/1/2018	<0.005	0.026	<0.005					
10/2/2018						0.00091 (J)	0.0016 (J)	<0.005
3/12/2019	<0.005	0.017	<0.005				0.002 (J)	
3/13/2019						0.00067 (J)		0.00065 (J)
4/1/2019			<0.005					
4/2/2019	<0.005	0.019				0.00069 (J)		
4/3/2019							0.0019 (J)	0.00069 (J)
9/23/2019	<0.005	0.038	<0.005					
9/24/2019							0.0015 (J)	
9/25/2019						0.0026 (J)		
9/27/2019								0.00057 (J)
3/2/2020	<0.005	0.019	<0.005					
3/3/2020							0.002 (J)	
3/4/2020						0.0011 (J)		0.00053 (J)
3/25/2020	<0.005	0.02	<0.005					
3/27/2020						0.00074 (J)	0.0018 (J)	
3/31/2020								0.00051 (J)
8/25/2020		0.018	<0.005					
8/28/2020	<0.005							
9/15/2020	<0.005	0.021	<0.005					
9/16/2020				<0.005	<0.005	0.00065 (J)	0.0019 (J)	
9/17/2020								0.0007 (J)
11/10/2020				<0.005	<0.005			
12/15/2020				<0.005	<0.005			
1/19/2021				<0.005	<0.005			
2/8/2021	<0.005							
2/9/2021		0.02	<0.005	<0.005	<0.005			
2/10/2021						0.00081 (J)		
2/16/2021							0.002 (J)	0.00061 (J)
3/10/2021	<0.005				<0.005			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/21/2025 3:40 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-7	HGWC-8	HGWC-9
3/11/2021		0.013	<0.005	<0.005				
3/15/2021						0.0014 (J)	0.0019 (J)	
3/16/2021								0.00069 (J)
8/11/2021	<0.005			<0.005				
8/12/2021		0.022	<0.005					
8/13/2021					<0.005			
8/16/2021						0.0012 (J)		
8/17/2021								0.00045 (J)
8/18/2021							0.002 (J)	
2/1/2022	<0.005	0.025	<0.005	<0.005	<0.005			
2/9/2022								0.00051 (J)
2/10/2022						0.0011 (J)	0.0021 (J)	
8/2/2022	0.00054 (J)	0.024	<0.005	<0.005	<0.005			
8/3/2022							0.0024 (J)	
8/4/2022								0.00046 (J)
8/11/2022						0.0018 (J)		
1/23/2023			<0.005					
1/24/2023	<0.005	0.024		<0.005	<0.005			
1/26/2023								0.00068 (J)
1/27/2023						0.00067 (J)		
2/1/2023							<0.025	
8/8/2023	0.0008 (J)	0.029	<0.005	<0.005	<0.005			
8/11/2023								0.00057 (J)
8/12/2023						0.00061 (J)	0.0016 (J)	
2/13/2024	<0.005	0.022	<0.005	<0.005	<0.005			
2/14/2024						0.00084 (J)	0.0016 (J)	
2/15/2024								0.001 (J)
8/5/2024	0.00055 (J)	0.032	<0.005					
8/6/2024				<0.005	<0.005			
8/7/2024						0.00043 (J)	0.0016 (J)	0.00066 (J)
2/12/2025	<0.005		<0.005	<0.005	<0.005			
2/14/2025		0.03						
2/15/2025							0.0021 (J)	<0.005
2/16/2025						<0.005		
8/5/2025	<0.005	0.03	<0.005	<0.005	<0.005			
8/6/2025						<0.005	0.0037 (J)	
8/7/2025								<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/21/2025 3:40 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-10	HGWC-11	HGWC-12	HGWC-13	MW-19	MW-20	MW-24D	MW-27D
5/23/2016	<0.005	<0.005	<0.005	0.00361 (J)				
7/12/2016	0.0006 (J)	0.0021 (J)	0.0018 (J)	0.0032 (J)				
9/1/2016	0.0007 (J)	0.0025 (J)	0.0016 (J)	0.0033 (J)				
10/24/2016	0.0009 (J)	0.0032 (J)	0.0017 (J)	0.004 (J)				
12/7/2016	0.0012 (J)	0.003 (J)	0.0021 (J)	0.0034 (J)				
1/26/2017	<0.005	0.0014 (J)	0.0016 (J)	0.0024 (J)				
3/22/2017	0.0006 (J)	0.0014 (J)	0.0018 (J)	0.0026 (J)				
5/24/2017	0.0006 (J)	0.0008 (J)	0.0015 (J)	0.0022 (J)				
4/4/2018	<0.005	<0.005	<0.005	<0.01				
6/5/2018	<0.005	0.00061 (J)		0.0023 (J)				
6/6/2018			0.0012 (J)					
10/2/2018	<0.005							
10/3/2018		<0.005	0.0011 (J)					
10/5/2018				0.0015 (J)				
3/13/2019	<0.005	0.00098 (J)		0.0022 (J)		0.0011 (J)	<0.005	<0.005
3/14/2019			0.0011 (J)		0.025			
4/2/2019						<0.005		
4/3/2019	<0.005	0.0018 (J)	0.0011 (J)		0.036			
4/4/2019								9.1E-05 (J)
4/5/2019				0.0017 (J)				
4/8/2019							0.00025 (J)	
9/25/2019						<0.005		
9/26/2019				0.0042 (J)			0.0011 (J)	<0.005
9/27/2019	<0.005	0.00071 (J)	0.0012 (J)		0.033			
3/2/2020						<0.005		
3/3/2020	<0.005	0.00087 (J)	0.0013 (J)					
3/4/2020				0.0066	0.048		0.00056 (J)	0.00045 (J)
3/26/2020			0.0012 (J)		0.045			
3/27/2020						<0.005		
3/30/2020				0.0053			<0.005	
3/31/2020		0.0014 (J)						
4/1/2020	<0.005							
4/2/2020								<0.005
9/16/2020	<0.005							
9/17/2020						<0.005		
9/18/2020		<0.005	0.0014 (J)					<0.005
9/21/2020				0.0032 (J)	0.032		<0.005	
2/11/2021						<0.005		
2/12/2021		<0.005	0.0012 (J)		0.037			
2/15/2021	<0.005							
2/16/2021							<0.005	0.0004 (J)
2/22/2021				0.003 (J)				
3/12/2021	<0.005							<0.005
3/15/2021						<0.005		
3/16/2021		<0.005	0.0012 (J)					
3/17/2021				0.0029 (J)	0.037		<0.005	
8/17/2021	<0.005					<0.005		<0.005
8/18/2021		<0.005	0.0012 (J)		0.039			
8/19/2021				0.0024 (J)			<0.005	
2/9/2022	<0.005	<0.005	0.0013 (J)		0.03			
2/10/2022				0.0026 (J)		<0.005	<0.005	<0.005
8/3/2022	<0.005	<0.005	0.0012 (J)	0.0041 (J)			<0.005	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/21/2025 3:40 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-10	HGWC-11	HGWC-12	HGWC-13	MW-19	MW-20	MW-24D	MW-27D
8/4/2022					0.043	<0.005		
1/26/2023		<0.005	0.0012 (J)	0.012	0.022	<0.005	<0.005	
1/27/2023	<0.005							<0.005
8/10/2023	<0.005	<0.005	0.0012 (J)		0.027	<0.005		
8/12/2023				0.018			<0.005	<0.005
2/14/2024						<0.005		
2/15/2024	<0.005	<0.005	0.0013 (J)		0.011		<0.005	
2/16/2024				0.023				<0.005
8/7/2024	<0.005	<0.005	0.0011 (J)			<0.005		
8/8/2024				0.016	0.02		<0.005	<0.005
2/13/2025		<0.005	0.0015 (J)		0.017			
2/14/2025	<0.005							
2/15/2025						<0.005		<0.005
2/16/2025							<0.005	
2/17/2025				0.0087				
8/6/2025	<0.005	<0.005	<0.005		0.021	<0.005		<0.005
8/10/2025				0.01			<0.005	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/21/2025 3:40 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-7	HGWC-8	HGWC-9
5/19/2016	0.397	0.627	0.342					
5/20/2016						0.62	0.56	
5/23/2016								0.826
7/11/2016	0.738	1.38						
7/12/2016			0.499			0.283	0.636	0.511
8/30/2016	0.581	1.05	0.976					
9/1/2016						0.703	0.818	0.762
10/19/2016	0.213	1.11	0.626					
10/20/2016						1.97	1.04	1.17
12/6/2016	0.444	0.741	0.805			2	0.771	0.126
1/24/2017	0.373	0.908	0.336					
1/25/2017						1.06	0.859	
1/26/2017								0.515
3/21/2017	0.816	0.567	0.358			0.668	0.851	
3/22/2017								0.451
5/22/2017	0.554 (U)	0.638 (U)	0.744 (U)					
5/23/2017						0.621 (U)	0.705 (U)	0.924 (U)
4/2/2018	0.405	0.761						
4/3/2018			0.684			0.538	0.311	0.732
6/4/2018	1.13 (U)	0.975 (U)	0.0291 (U)					
6/5/2018						0.985 (U)		
6/6/2018							0.896 (U)	0.813 (U)
10/1/2018	0.132 (U)	0.434 (U)	0.781 (U)					
10/2/2018						0.837 (U)	1.21	0.61 (U)
3/12/2019	0.327 (U)	0.454 (U)	1.01 (U)				0.544 (U)	
3/13/2019						0.403 (U)		1 (U)
4/1/2019			0.76 (U)					
4/2/2019	0.739 (U)	0.651 (U)				0.865 (U)		
4/3/2019							0.885 (U)	0.156 (U)
9/24/2019							1.3	
9/25/2019						0.884 (U)		
9/27/2019								0.428 (U)
9/30/2019	0.306 (U)	1.04 (U)	0.384 (U)					
3/2/2020	0.61 (U)	1.58	0.249 (U)					
3/3/2020							0.835 (U)	
3/4/2020						0.624 (U)		1.03
3/25/2020	4.36	0.621 (U)	0.833 (U)					
3/27/2020						0.485 (U)	1.04 (U)	
3/31/2020								1.2 (U)
8/25/2020		0.778 (U)	0.33 (U)					
8/28/2020	0 (U)							
9/15/2020	0.748 (U)	0.124 (U)	0.161 (U)					
9/16/2020				0.531 (U)	0.422 (U)	0.135 (U)	0.526 (U)	
9/17/2020								1.38 (U)
11/10/2020				0.788 (U)	0.293 (U)			
12/15/2020				1.04 (U)	0.7 (U)			
1/19/2021				0.685 (U)	0.79 (U)			
2/8/2021	0.223 (U)							
2/9/2021		0.721 (U)	0.447 (U)	0.138 (U)	0.486 (U)			
2/10/2021						0.281 (U)		
2/16/2021							0.764 (U)	1.17 (U)
3/10/2021	0 (U)				0.811 (U)			

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/21/2025 3:40 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-7	HGWC-8	HGWC-9
3/11/2021		0.737 (U)	0.128 (U)	1.51 (U)				
3/15/2021						0.666 (U)	1.3 (U)	
3/16/2021								0.446 (U)
8/11/2021	0.115 (U)			0.394 (U)				
8/12/2021		0.746 (U)	0.4435 (UD)					
8/13/2021					1.0795 (UD)			
8/16/2021						0.143 (U)		
8/17/2021								0.771 (U)
8/18/2021							1.02 (U)	
2/1/2022	0.143 (U)	0.588 (U)	0.266 (U)	1.12	0.665 (U)			
2/9/2022								0.198 (U)
2/10/2022						0.175 (U)	0.945 (U)	
8/2/2022	0.203 (U)	0.861 (U)	0.4 (U)	0.662 (U)	0.952 (U)			
8/3/2022							0.455 (U)	
8/4/2022								0.597 (U)
8/11/2022						0.461 (U)		
1/23/2023			0.311 (U)					
1/24/2023	0.549 (U)	0.829 (U)		1.25	0.421 (U)			
1/26/2023								0.516 (U)
1/27/2023						0.45 (U)		
2/1/2023							0.241 (U)	
8/8/2023	0.195 (U)	0.175 (U)	0.411 (U)	0.503 (U)	0.163 (U)			
8/11/2023								0.867 (U)
8/12/2023						0.729 (U)	0.767 (U)	
2/13/2024	0.194 (U)	0.325 (U)	0.213 (U)	0.86 (U)	0.909			
2/14/2024						0.401 (U)	0.529 (U)	
2/15/2024								0.461 (U)
8/5/2024	0.64 (U)	1.27	0.371 (U)					
8/6/2024				0.674 (U)	0.529 (U)			
8/7/2024						0.611 (U)	0.556 (U)	0.502 (U)
2/12/2025	0.624 (U)			0.624 (U)	0.622 (U)			
2/14/2025		1.2 (U)	0.606 (U)					
2/15/2025							0.363 (U)	0.324 (U)
2/16/2025						0.349 (U)		
8/5/2025	0.226 (U)	0.278 (U)	0.125 (U)	0.994 (U)	0.255 (U)			
8/6/2025						0.324 (U)	0 (U)	
8/7/2025								0.441 (U)

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/21/2025 3:40 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-10	HGWC-11	HGWC-12	HGWC-13	MW-19	MW-20	MW-24D	MW-27D
5/23/2016	0.419	0.509	1.12	0.625				
7/12/2016	0.855	0.784	1.61	0.478				
9/1/2016	0.844	0.261	1.23	0.595				
10/24/2016	0.917	1.42	1.98	1.54				
12/7/2016	0.558	0.781	0.319	0.657				
1/26/2017	0.922	0.842	0.54	1.22				
3/22/2017	0.751	0.318	0.635	0.285				
5/24/2017	0.725 (U)	0.687 (U)	1.01	0.655 (U)				
4/4/2018	0.715	1.5	0.956	0.882 (U)				
6/5/2018	0.718 (U)	0.549 (U)		1.1 (U)				
6/6/2018			0.424 (U)					
10/2/2018	0.948							
10/3/2018		1.48	0.57 (U)					
10/5/2018				0.558 (U)				
3/13/2019	1.19 (U)	0.584 (U)		0.39 (U)		0.538 (U)	0.311 (U)	1.81
3/14/2019			0.992 (U)		0.347 (U)			
4/2/2019						1.02 (U)		
4/3/2019	1.82 (U)	0.36 (U)	0.734 (U)		0.884 (U)			
4/4/2019								1.33
4/5/2019				0.422 (U)				
4/8/2019							0.573 (U)	
9/25/2019						1.35 (U)		
9/26/2019				0.939 (U)			0.878 (U)	0.974 (U)
9/27/2019	1.16 (U)	1.78	0.958 (U)		0.534 (U)			
3/2/2020						0.653 (U)		
3/3/2020	0.667 (U)	0.716 (U)	0.971 (U)					
3/4/2020				0.708 (U)	1.04		0.333 (U)	1.12
3/26/2020			0.209 (U)		1.1 (U)			
3/27/2020						0.1 (U)		
3/30/2020				0.602 (U)			0.107 (U)	
3/31/2020		1.3 (U)						
4/1/2020	0.235 (U)							
4/2/2020								2.48
9/16/2020	0 (U)							
9/17/2020						0.469 (U)		
9/18/2020		1.24 (U)	0.916 (U)					1.13 (U)
9/21/2020				1.53	1.36 (U)		1.23 (U)	
2/11/2021						0.334 (U)		
2/12/2021		1.1	0.236 (U)		0.764 (U)			
2/15/2021	1.91							
2/16/2021							0.156 (U)	1.21
2/22/2021				1.02				
3/12/2021	1.12 (U)							0.649 (U)
3/15/2021						1.24 (U)		
3/16/2021		1.71	0.245 (U)					
3/17/2021				1.45 (U)	0.466 (U)		0.174 (U)	
8/17/2021	0.595 (U)					0.709 (U)		1.06 (U)
8/18/2021		0.919 (U)	0.919 (U)		0.642 (U)			
8/19/2021				0.764 (U)			0.227 (U)	
2/9/2022	0.49 (U)	0.444 (U)	0.564 (U)		0.245 (U)			
2/10/2022				0.442 (U)		0.32 (U)	0.178 (U)	0.809 (U)
8/3/2022	0.454 (U)	0.823 (U)	0.418 (U)	0.54 (U)			0.263 (U)	0.685 (U)

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/21/2025 3:40 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-10	HGWC-11	HGWC-12	HGWC-13	MW-19	MW-20	MW-24D	MW-27D
8/4/2022					0.509 (U)	1.05 (U)		
1/26/2023		0.441 (U)	0.877	0.719	0.333 (U)	0.561 (U)	0.0906 (U)	
1/27/2023	1.2							1.1
8/10/2023	0.831 (U)	0.273 (U)	0.453 (U)		0.437 (U)	0.469 (U)		
8/12/2023				0.58 (U)			0.481 (U)	0.645 (U)
2/14/2024						0.341 (U)		
2/15/2024	0.31 (U)	0.819 (U)	0.364 (U)		0.459 (U)		0.5 (U)	
2/16/2024				0.338 (U)				1.31
8/7/2024	0.268 (U)	0.874 (U)	0.455 (U)			0.54 (U)		
8/8/2024				0.561 (U)	0.44 (U)		0.338 (U)	0.461 (U)
2/13/2025		0.491 (U)	0.725 (U)		0.709 (U)			
2/14/2025	0.372 (U)							
2/15/2025						1.21 (U)		0.666 (U)
2/16/2025							0.271 (U)	
2/17/2025				1.01 (U)				
8/6/2025	0.404 (U)	1.5 (U)	0.261 (U)		0.656 (U)	0.527 (U)		0.816 (U)
8/10/2025				0.428 (U)			0.625 (U)	

Time Series

Constituent: Fluoride (mg/L) Analysis Run 10/21/2025 3:40 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-7	HGWC-8	HGWC-9
5/19/2016	0.105 (J)	0.0303 (J)	0.0513 (J)					
5/20/2016						0.0828 (J)	0.499	
5/23/2016								<0.3
7/11/2016	0.16 (J)	0.05 (J)						
7/12/2016			0.12 (J)			0.2 (J)	0.67	0.24 (J)
8/30/2016	0.09 (J)	0.06 (J)	0.09 (J)					
9/1/2016						0.51	0.94	0.46
10/19/2016	0.1 (J)	0.04 (J)	0.1 (J)					
10/20/2016						0.4	0.56	0.56
12/6/2016	0.11 (J)	0.36	0.21 (J)			0.26 (J)	0.76	0.31
1/24/2017	0.09 (J)	<0.1	0.06 (J)					
1/25/2017						0.24 (J)	1.1	
1/26/2017								0.004 (J)
3/21/2017	0.13 (J)	<0.1	0.005 (J)			0.13 (J)	0.46	
3/22/2017								0.28 (J)
5/22/2017	0.12 (J)	<0.1	0.05 (J)					
5/23/2017						0.11 (J)	0.65	0.29 (J)
10/3/2017	0.13 (J)	<0.1	0.13 (J)			0.17 (J)	0.66	0.53
4/2/2018	<0.3	<0.1						
4/3/2018			<0.1			<0.3	0.39	<0.3
6/4/2018	0.074 (J)	<0.1	<0.1					
6/5/2018						0.099 (J)		
6/6/2018							0.46	0.12 (J)
10/1/2018	<0.3	<0.1	<0.1					
10/2/2018						<0.3	0.51	0.031 (J)
3/12/2019	0.29 (J)	0.038 (J)	0.072 (J)				0.58	
3/13/2019						0.12 (J)		0.14 (J)
4/1/2019			0.029 (J)					
4/2/2019	0.1 (J)	0.071 (J)				0.097 (J)		
4/3/2019							0.63	0.14 (J)
9/23/2019	0.078 (J)	<0.1	<0.1					
9/24/2019							0.49	
9/25/2019						0.1 (J)		
9/27/2019								0.26 (J)
3/2/2020	0.076 (J)	<0.1	<0.1					
3/3/2020							0.45	
3/4/2020						0.077 (J)		0.08 (J)
3/25/2020	0.098 (J)	<0.1	<0.1					
3/27/2020						0.059 (J)	0.46	
3/31/2020								0.074 (J)
6/16/2020	0.071 (J)		<0.1				0.45	
6/17/2020						0.077 (J)		
8/25/2020		<0.1	<0.1					
8/28/2020	0.08 (J)							
9/15/2020	0.082 (J)	<0.1	<0.1					
9/16/2020				0.22	0.37 (D)	0.081 (J)	0.53	
9/17/2020								0.1
11/10/2020				0.19	0.59			
12/15/2020				0.21	0.67			
1/19/2021				0.16	0.74			
2/8/2021	0.078 (J)							
2/9/2021		<0.1	0.074 (J)	0.19	0.44			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 10/21/2025 3:40 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-7	HGWC-8	HGWC-9
2/10/2021						0.085 (J)		
2/16/2021							0.47	0.096 (J)
3/10/2021	0.079 (J)				0.65			
3/11/2021		0.1	<0.1	0.2				
3/15/2021						0.086 (J)	0.51	
3/16/2021								0.098 (J)
8/11/2021	0.058 (J)			0.15				
8/12/2021		<0.1	<0.1					
8/13/2021					0.87			
8/16/2021						0.084 (J)		
8/17/2021								0.095 (J)
8/18/2021							0.41	
2/1/2022	0.064 (J)	<0.1	<0.1	0.19	0.96			
2/9/2022								0.1
2/10/2022						0.083 (J)	0.42	
8/2/2022	0.09 (J)	0.053 (J)	0.067 (J)	0.22	0.8			
8/3/2022							0.44	
8/4/2022								0.13
8/11/2022						0.11		
1/23/2023			0.061 (J)					
1/24/2023	0.089 (J)	0.053 (J)		0.23	1.3			
1/26/2023								0.11
1/27/2023						0.1		
2/1/2023							0.4	
8/8/2023	0.088 (J)	0.07 (J)	0.055 (J)	0.18	1.3			
8/11/2023								0.12
8/12/2023						0.071 (J)	0.59	
2/13/2024	0.071 (J)	0.17	<0.1	0.2	1.5			
2/14/2024						0.081 (J)	0.3	
2/15/2024								0.087 (J)
8/5/2024	0.11	0.12	0.077 (J)					
8/6/2024				0.21	1.3			
8/7/2024						0.074 (J)	0.37	0.084 (J)
2/12/2025	0.1		0.073 (J)	0.21	1.1			
2/14/2025		0.1						
2/15/2025							0.24	0.071 (J)
2/16/2025						0.056 (J)		
8/5/2025	0.055 (J)	<0.1	<0.1	0.16	0.87			
8/6/2025						0.11	0.22	
8/7/2025								0.1

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 10/21/2025 3:40 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-10	HGWC-11	HGWC-12	HGWC-13	MW-19	MW-20	MW-24D	MW-27D
5/23/2016	0.0394 (J)	0.203 (J)	0.212 (J)	0.2587 (J)				
7/12/2016	0.15 (J)	0.44	0.31	0.53				
9/1/2016	0.5	0.67	0.62	0.74				
10/24/2016	0.06 (J)	0.26 (J)	0.19 (J)	0.31				
12/7/2016	0.44	0.55	0.73	1				
1/26/2017	0.29 (J)	0.27 (J)	0.12 (J)	0.68				
3/22/2017	0.34	0.66	0.44	0.76				
5/24/2017	0.13 (J)	0.35	0.34	0.54				
10/3/2017	0.46	0.56	0.58	0.83				
4/4/2018	<0.1	0.39	<0.3	0.65				
6/5/2018	<0.1	0.24 (J)		0.47				
6/6/2018			0.21 (J)					
10/2/2018	0.17 (J)							
10/3/2018		0.31	0.15 (J)					
10/5/2018				0.77				
3/13/2019	0.17 (J)	0.51		0.78		0.072 (J)	0.074 (J)	0.28 (J)
3/14/2019			1.1		0.35			
4/2/2019						<0.1		
4/3/2019	0.082 (J)	0.43	0.3 (J)		0.19 (J)			
4/4/2019								0.26 (J)
4/5/2019				0.83				
4/8/2019							0.048 (J)	
9/25/2019						<0.1		
9/26/2019				0.64			0.18 (J)	0.42
9/27/2019	0.17 (J)	0.42	0.26 (J)		0.53			
3/2/2020						<0.1		
3/3/2020	0.11 (J)	0.24 (J)	0.21 (J)					
3/4/2020				0.37	0.096 (J)		0.051 (J)	0.25 (J)
3/26/2020			0.17 (J)		0.12 (J)			
3/27/2020						<0.1		
3/30/2020				0.44			0.064 (J)	
3/31/2020		0.19 (J)						
4/1/2020	0.12 (J)							
4/2/2020								0.24 (J)
9/16/2020	<0.1							
9/17/2020						<0.1		
9/18/2020		0.15	0.15					0.22
9/21/2020				0.44	0.17		<0.1	
2/11/2021						<0.1		
2/12/2021		0.17	0.19		0.16			
2/15/2021	0.08 (J)							
2/16/2021							<0.1	0.25
2/22/2021				0.55				
3/12/2021	0.054 (J)							0.24
3/15/2021						<0.1		
3/16/2021		0.21	0.2					
3/17/2021				0.65	0.18		<0.1	
8/17/2021	<0.1					<0.1		0.24
8/18/2021		0.21	0.15		0.12			
8/19/2021				0.53			<0.1	
2/9/2022	0.12	0.2	0.2		0.076 (J)			
2/10/2022				0.53		<0.1	0.051 (J)	0.25

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 10/21/2025 3:40 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-10	HGWC-11	HGWC-12	HGWC-13	MW-19	MW-20	MW-24D	MW-27D
8/3/2022	0.13	0.22	0.21	0.55			0.075 (J)	0.27
8/4/2022					0.18	0.074 (J)		
1/26/2023		0.2	0.21	0.4	0.098 (J)	0.081 (J)	0.083 (J)	
1/27/2023	0.16							0.3
8/10/2023	0.05 (J)	0.15	0.17		0.14	<0.1		
8/12/2023				0.32			0.08 (J)	0.26
2/14/2024						0.06 (J)		
2/15/2024	0.12	0.21	0.19		0.06 (J)		0.12	
2/16/2024				0.33				0.2
8/7/2024	0.075 (J)	0.11	0.17			<0.1		
8/8/2024				0.38	0.17		0.054 (J)	0.21
2/13/2025		0.3 (M1)	0.24		0.075 (J)			
2/14/2025	0.086 (J)							
2/15/2025						<0.1		0.17
2/16/2025							0.11	
2/17/2025				0.4				
8/6/2025	0.16	0.22	0.32		0.16	0.083 (J)		0.32
8/10/2025				0.44			0.084 (J)	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 10/21/2025 3:40 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-7	HGWC-8	HGWC-9
5/19/2016	<0.001	<0.001	<0.001					
5/20/2016						<0.001	<0.001	
5/23/2016								<0.001
7/11/2016	<0.001	<0.001						
7/12/2016			0.0001 (J)			<0.001	<0.001	<0.001
8/30/2016	<0.001	<0.001	<0.001					
9/1/2016						<0.001	<0.001	<0.001
10/19/2016	<0.001	<0.001	<0.001					
10/20/2016						<0.001	<0.001	<0.001
12/6/2016	<0.001	<0.001	<0.001			0.0001 (J)	<0.001	0.0002 (J)
1/24/2017	<0.001	<0.001	<0.001					
1/25/2017						0.0001 (J)	<0.001	
1/26/2017								0.0001 (J)
3/21/2017	<0.001	6E-05 (J)	0.0001 (J)			9E-05 (J)	<0.001	
3/22/2017								<0.001
5/22/2017	<0.001	9E-05 (J)	<0.001					
5/23/2017						8E-05 (J)	<0.001	0.0001 (J)
4/2/2018	<0.001	<0.001						
4/3/2018			<0.001			<0.001	<0.001	<0.001
3/12/2019	<0.001	<0.001	<0.001				<0.001	
3/13/2019						<0.001		<0.001
4/1/2019			<0.001					
4/2/2019	<0.001	<0.001				<0.001		
9/23/2019	7.8E-05 (J)	9.2E-05 (J)	<0.001					
3/2/2020	4.8E-05 (J)	9.5E-05 (J)	<0.001					
3/3/2020							0.00013 (J)	
3/4/2020						0.00051 (J)		8.4E-05 (J)
3/25/2020	<0.001	0.00011 (J)	<0.001					
3/27/2020						5.4E-05 (J)	<0.001	
3/31/2020								0.00014 (J)
8/25/2020		8.5E-05 (J)	<0.001					
8/28/2020	7E-05 (J)							
9/15/2020	<0.001	8E-05 (J)	4.2E-05 (J)					
9/16/2020				5E-05 (J)	0.00021 (J)	0.0002 (J)	0.0002 (J)	
9/17/2020								0.00022 (J)
11/10/2020				6.9E-05 (J)	0.0002 (J)			
12/15/2020				8.2E-05 (J)	0.00011 (J)			
1/19/2021				4.4E-05 (J)	0.00019 (J)			
2/8/2021	5.8E-05 (J)							
2/9/2021		9.4E-05 (J)	<0.001	0.00029 (J)	0.0001 (J)			
2/10/2021						0.00056 (J)		
2/16/2021							8.6E-05 (J)	0.0002 (J)
3/10/2021	<0.001				<0.001			
3/11/2021		7.6E-05 (J)	<0.001	9.4E-05 (J)				
3/15/2021						0.0013	0.00011 (J)	
3/16/2021								0.00027 (J)
8/11/2021	<0.001			<0.001				
8/12/2021		<0.001	<0.001					
8/13/2021					<0.001			
8/16/2021						<0.001		
8/17/2021								<0.001
8/18/2021							<0.001	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 10/21/2025 3:40 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-7	HGWC-8	HGWC-9
2/1/2022	<0.001	<0.001	<0.001	<0.001	<0.001			
2/9/2022								<0.001
2/10/2022						<0.001	<0.001	
8/2/2022	<0.001	<0.001	<0.001	<0.001	<0.001			
8/3/2022							<0.001	
8/4/2022								<0.001
8/11/2022						<0.001		
1/23/2023			<0.001					
1/24/2023	<0.001	<0.001		<0.001	<0.001			
1/26/2023								<0.001
1/27/2023						<0.001		
2/1/2023							<0.001	
8/8/2023	<0.001	<0.001	<0.001	<0.001	<0.001			
8/11/2023								<0.001
8/12/2023						<0.001	<0.001	
2/13/2024	<0.001	0.00018 (J)	<0.001	<0.001	<0.001			
2/14/2024						<0.001	<0.001	
2/15/2024								<0.001
8/5/2024	<0.001	<0.001	<0.001					
8/6/2024				<0.001	<0.001			
8/7/2024						<0.001	<0.001	<0.001
2/12/2025	<0.001		<0.001	<0.001	<0.001			
2/14/2025		<0.001						
2/15/2025							<0.001	<0.001
2/16/2025						<0.001		
8/5/2025	<0.001	<0.001	0.0003 (J)	<0.001	<0.001			
8/6/2025						<0.001	<0.001	
8/7/2025								<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 10/21/2025 3:40 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-10	HGWC-11	HGWC-12	HGWC-13	MW-19	MW-20	MW-24D	MW-27D
5/23/2016	<0.001	<0.001	<0.001	<0.001				
7/12/2016	<0.001	<0.001	<0.001	<0.001				
9/1/2016	<0.001	<0.001	<0.001	<0.001				
10/24/2016	<0.001	<0.001	<0.001	<0.001				
12/7/2016	<0.001	<0.001	<0.001	<0.001				
1/26/2017	<0.001	<0.001	<0.001	<0.001				
3/22/2017	<0.001	0.0003 (J)	<0.001	7E-05 (J)				
5/24/2017	<0.001	9E-05 (J)	<0.001	<0.001				
4/4/2018	<0.001	<0.001	<0.001	<0.001				
3/13/2019	<0.001	<0.001		<0.001		<0.001	<0.001	<0.001
3/14/2019			<0.001		<0.001			
3/2/2020						0.00017 (J)		
3/3/2020	<0.001	0.00021 (J)	5.6E-05 (J)					
3/4/2020				0.00014 (J)	0.00011 (J)		0.00019 (J)	<0.001
3/26/2020			0.00043 (J)		<0.001			
3/27/2020						0.00013 (J)		
3/30/2020				0.0001 (J)			6.4E-05 (J)	
3/31/2020		0.0003 (J)						
4/1/2020	5E-05 (J)							
4/2/2020								0.00013 (J)
9/16/2020	<0.001							
9/17/2020						<0.001		
9/18/2020		6E-05 (J)	9.6E-05 (J)					<0.001
9/21/2020				0.00015 (J)	8.5E-05 (J)		4.2E-05 (J)	
2/11/2021						3.9E-05 (J)		
2/12/2021		<0.001	6.7E-05 (J)		7.1E-05 (J)			
2/15/2021	<0.001							
2/16/2021							0.00012 (J)	0.00043 (J)
2/22/2021				0.00018 (J)				
3/12/2021	<0.001							<0.001
3/15/2021						0.0001 (J)		
3/16/2021		9.9E-05 (J)	8.9E-05 (J)					
3/17/2021				0.00015 (J)	3.8E-05 (J)		4E-05 (J)	
8/17/2021	<0.001					<0.001		<0.001
8/18/2021		<0.001	<0.001		<0.001			
8/19/2021				<0.001			<0.001	
2/9/2022	<0.001	<0.001	<0.001		<0.001			
2/10/2022				<0.001		<0.001	<0.001	<0.001
8/3/2022	<0.001	<0.001	<0.001	<0.001			<0.001	<0.001
8/4/2022					<0.001	<0.001		
1/26/2023		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
1/27/2023	<0.001							<0.001
8/10/2023	<0.001	<0.001	<0.001		<0.001	<0.001		
8/12/2023				<0.001			<0.001	<0.001
2/14/2024						<0.001		
2/15/2024	<0.001	<0.001	<0.001		<0.001		<0.001	
2/16/2024				<0.001				<0.001
8/7/2024	<0.001	<0.001	<0.001			<0.001		
8/8/2024				<0.001	<0.001		<0.001	<0.001
2/13/2025		<0.001	<0.001		<0.001			
2/14/2025	<0.001							
2/15/2025						<0.001		<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 10/21/2025 3:40 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-10	HGWC-11	HGWC-12	HGWC-13	MW-19	MW-20	MW-24D	MW-27D
2/16/2025							<0.001	
2/17/2025				<0.001				
8/6/2025	<0.001	<0.001	<0.001		<0.001	<0.001		<0.001
8/10/2025				0.00033 (J)			<0.001	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 10/21/2025 3:40 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-7	HGWC-8	HGWC-9
5/19/2016	<0.002	<0.002	<0.002					
5/20/2016						<0.002	<0.002	
5/23/2016								<0.002
7/11/2016	<0.002	0.0014 (J)						
7/12/2016			0.0024 (J)			0.0021 (J)	0.0023 (J)	0.004 (J)
8/30/2016	<0.002	<0.002	0.0025 (J)					
9/1/2016						0.0025 (J)	0.0029 (J)	0.0044 (J)
10/19/2016	<0.002	<0.002	0.003 (J)					
10/20/2016						0.0021 (J)	0.0027 (J)	0.0027 (J)
12/6/2016	<0.002	<0.002	0.0033 (J)			0.0026 (J)	0.0032 (J)	0.005 (J)
1/24/2017	<0.002	<0.002	0.003 (J)					
1/25/2017						0.0024 (J)	0.0026 (J)	
1/26/2017								0.0042 (J)
3/21/2017	<0.002	0.0012 (J)	0.0034 (J)			0.0026 (J)	0.0029 (J)	
3/22/2017								0.0043 (J)
5/22/2017	<0.002	<0.002	0.003 (J)					
5/23/2017						0.0026 (J)	0.0029 (J)	0.0048 (J)
4/2/2018	<0.002	0.0015 (J)						
4/3/2018			0.003 (J)			0.0023 (J)	0.0025 (J)	0.0043 (J)
6/4/2018	0.001 (J)	0.0016 (J)	0.0027 (J)					
6/5/2018						0.0022 (J)		
6/6/2018							0.0023 (J)	0.0043 (J)
10/1/2018	0.00099 (J)	0.0013 (J)	0.0032 (J)					
10/2/2018						0.003 (J)	0.0025 (J)	0.004 (J)
3/12/2019	0.001 (J)	0.0018 (J)	0.0032 (J)				0.0025 (J)	
3/13/2019						0.0024 (J)		0.004 (J)
4/1/2019			0.0032 (J)					
4/2/2019	0.001 (J)	0.0018 (J)				0.002 (J)		
4/3/2019							0.0025 (J)	0.004 (J)
9/23/2019	0.0011 (J)	0.0016 (J)	0.0029 (J)					
9/24/2019							0.0024 (J)	
9/25/2019						0.0019 (J)		
9/27/2019								0.0044 (J)
3/2/2020	0.0012 (J)	0.0017 (J)	0.0037 (J)					
3/3/2020							0.0028 (J)	
3/4/2020						0.0034 (J)		0.004 (J)
3/25/2020	0.00083 (J)	0.0017 (J)	0.0035 (J)					
3/27/2020						0.002 (J)	0.0026 (J)	
3/31/2020								0.0043 (J)
8/25/2020		0.0015 (J)	0.0027 (J)					
8/28/2020	0.00087 (J)							
9/15/2020	0.00087 (J)	0.0015 (J)	0.0026 (J)					
9/16/2020				0.0018 (J)	0.014 (J)	0.0026 (J)	0.0033 (J)	
9/17/2020								0.004 (J)
11/10/2020				0.0013 (J)	0.025 (J)			
12/15/2020				0.0019 (J)	0.028 (J)			
1/19/2021				0.0025 (J)	0.034			
2/8/2021	0.00086 (J)							
2/9/2021		0.0012 (J)	0.0032 (J)	0.0026 (J)	0.026 (J)			
2/10/2021						0.0032 (J)		
2/16/2021							0.0027 (J)	0.0045 (J)
3/10/2021	0.0009 (J)				0.03			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 10/21/2025 3:40 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-7	HGWC-8	HGWC-9
3/11/2021		0.0011 (J)	0.0035 (J)	0.0022 (J)				
3/15/2021						0.0038 (J)	0.0029 (J)	
3/16/2021								0.0046 (J)
8/11/2021	0.00078 (J)			0.0024 (J)				
8/12/2021		0.0012 (J)	0.0028 (J)					
8/13/2021					0.032			
8/16/2021						0.0025 (J)		
8/17/2021								0.004 (J)
8/18/2021							0.0029 (J)	
2/1/2022	0.0011 (J)	0.0017 (J)	0.0037 (J)	0.0024 (J)	0.048			
2/9/2022								0.0041 (J)
2/10/2022						0.0022 (J)	0.003 (J)	
8/2/2022	<0.002	0.0013 (J)	0.003 (J)	0.0019 (J)	0.041			
8/3/2022							0.0026 (J)	
8/4/2022								0.0036 (J)
8/11/2022						0.0019 (J)		
1/23/2023			0.003 (J)					
1/24/2023	0.00092 (J)	0.0014 (J)		0.002 (J)	0.064			
1/26/2023								0.0032 (J)
1/27/2023						0.0018 (J)		
2/1/2023							0.0015 (J)	
8/8/2023	<0.002	0.0017 (J)	0.0031 (J)	0.0021 (J)	0.092			
8/11/2023								0.0035 (J)
8/12/2023						0.0023 (J)	0.0014 (J)	
2/13/2024	<0.002	0.0017 (J)	0.0034 (J)	0.0024 (J)	0.088			
2/14/2024						0.0016 (J)	<0.002	
2/15/2024								0.0031 (J)
8/5/2024	<0.002	0.0019 (J)	0.0034 (J)					
8/6/2024				0.0025 (J)	0.1			
8/7/2024						0.0026 (J)	<0.002	0.003 (J)
2/12/2025	0.00119 (J)		0.00331 (J)	0.00266 (J)	0.101			
2/14/2025		0.00183 (J)						
2/15/2025							0.000838 (J)	0.00343 (J)
2/16/2025						0.00167 (J)		
8/5/2025	0.00116 (J)	0.0026	0.00374	0.00308	0.104			
8/6/2025						0.00189 (J)	<0.002	
8/7/2025								0.00232

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 10/21/2025 3:40 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-10	HGWC-11	HGWC-12	HGWC-13	MW-19	MW-20	MW-24D	MW-27D
5/23/2016	<0.002	<0.002	0.0107 (J)	0.0422 (J)				
7/12/2016	<0.002	<0.002	0.0113 (J)	0.0366 (J)				
9/1/2016	<0.002	<0.002	0.0118 (J)	0.04 (J)				
10/24/2016	<0.002	<0.002	0.0114 (J)	0.0435 (J)				
12/7/2016	<0.002	<0.002	0.0155 (J)	0.0477 (J)				
1/26/2017	<0.002	<0.002	0.0099 (J)	0.0342 (J)				
3/22/2017	<0.002	<0.002	0.0098 (J)	0.0353 (J)				
5/24/2017	<0.002	<0.002	0.0105 (J)	0.0317 (J)				
4/4/2018	<0.002	<0.002	0.008 (J)	0.031 (J)				
6/5/2018	<0.002	<0.002		0.031 (J)				
6/6/2018			0.0095 (J)					
10/2/2018	<0.002							
10/3/2018		<0.002	0.0083 (J)					
10/5/2018				0.027 (J)				
3/13/2019	<0.002	<0.002		0.029 (J)		0.0016 (J)	0.0029 (J)	0.0097 (J)
3/14/2019			0.0058 (J)		0.0089 (J)			
4/2/2019						0.0015 (J)		
4/3/2019	<0.002	<0.002	0.0066 (J)		0.0061 (J)			
4/4/2019								0.0069 (J)
4/5/2019				0.023 (J)				
4/8/2019							0.0027 (J)	
9/25/2019						<0.002		
9/26/2019				0.035			0.003 (J)	0.0055 (J)
9/27/2019	<0.002	<0.002	0.011 (J)		0.013 (J)			
3/2/2020						0.00082 (J)		
3/3/2020	<0.002	<0.002	0.0063 (J)					
3/4/2020				0.041	0.01 (J)		0.0026 (J)	0.0047 (J)
3/26/2020			0.0063 (J)		0.013 (J)			
3/27/2020						0.0012 (J)		
3/30/2020				0.038			0.0027 (J)	
3/31/2020		<0.002						
4/1/2020	<0.002							
4/2/2020								0.0068 (J)
9/16/2020	<0.002							
9/17/2020						<0.002		
9/18/2020		<0.002	0.01 (J)					0.0084 (J)
9/21/2020				0.028 (J)	0.013 (J)		0.0024 (J)	
2/11/2021						0.001 (J)		
2/12/2021		<0.002	0.0094 (J)		0.012 (J)			
2/15/2021	<0.002							
2/16/2021							0.0028 (J)	0.0078 (J)
2/22/2021				0.032				
3/12/2021	<0.002							0.009 (J)
3/15/2021						0.0011 (J)		
3/16/2021		<0.002	0.0081 (J)					
3/17/2021				0.031	0.012 (J)		0.0027 (J)	
8/17/2021	<0.002					0.00091 (J)		0.0079 (J)
8/18/2021		<0.002	0.0099 (J)		0.014 (J)			
8/19/2021				0.028 (J)			0.0027 (J)	
2/9/2022	<0.002	<0.002	0.01 (J)		0.0067 (J)			
2/10/2022				0.031		0.00099 (J)	0.0029 (J)	0.0086 (J)
8/3/2022	<0.002	<0.002	0.0068 (J)	0.029 (J)			0.0024 (J)	0.0063 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 10/21/2025 3:40 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-10	HGWC-11	HGWC-12	HGWC-13	MW-19	MW-20	MW-24D	MW-27D
8/4/2022					0.013 (J)	0.00075 (J)		
1/26/2023		<0.002	0.0058 (J)	0.04	0.0038 (J)	<0.002	0.0025 (J)	
1/27/2023	<0.002							0.0072 (J)
8/10/2023	<0.002	<0.002	0.0075 (J)		0.011 (J)	<0.002		
8/12/2023				0.051			0.003 (J)	0.0072 (J)
2/14/2024						<0.002		
2/15/2024	<0.002	<0.002	0.008 (J)		<0.002		0.0031 (J)	
2/16/2024				0.052				0.011 (J)
8/7/2024	<0.002	<0.002	0.0089 (J)			<0.002		
8/8/2024				0.052	0.011 (J)		0.0029 (J)	0.011 (J)
2/13/2025		<0.002	0.00909 (J)		<0.002			
2/14/2025	<0.002							
2/15/2025						0.00094 (J)		0.0115 (J)
2/16/2025							0.00274 (J)	
2/17/2025				0.0325				
8/6/2025	<0.002	<0.002	0.00838		0.00411	<0.002		0.00482
8/10/2025				0.0333			0.00352	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 10/21/2025 3:40 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-7	HGWC-8	HGWC-9
5/19/2016	<0.0002	<0.0002	<0.0002					
5/20/2016						<0.0002	<0.0002	
5/23/2016								<0.0002
7/11/2016	<0.0002	<0.0002						
7/12/2016			<0.0002			<0.0002	<0.0002	<0.0002
8/30/2016	4E-05 (J)	4E-05 (J)	<0.0002					
9/1/2016						<0.0002	<0.0002	<0.0002
10/19/2016	<0.0002	<0.0002	<0.0002					
10/20/2016						<0.0002	<0.0002	<0.0002
12/6/2016	<0.0002	<0.0002	<0.0002			<0.0002	<0.0002	<0.0002
1/24/2017	<0.0002	<0.0002	<0.0002					
1/25/2017						<0.0002	<0.0002	
1/26/2017								4E-05 (J)
3/21/2017	<0.0002	<0.0002	<0.0002			<0.0002	<0.0002	
3/22/2017								<0.0002
5/22/2017	<0.0002	<0.0002	<0.0002					
5/23/2017						<0.0002	<0.0002	<0.0002
4/2/2018	<0.0002	<0.0002						
4/3/2018			<0.0002			<0.0002	<0.0002	<0.0002
3/12/2019	<0.0002	<0.0002	<0.0002				<0.0002	
3/13/2019						<0.0002		<0.0002
9/24/2019							<0.0002	
3/2/2020	<0.0002	<0.0002	<0.0002					
3/3/2020							<0.0002	
3/4/2020						<0.0002		<0.0002
8/25/2020		<0.0002	<0.0002					
8/28/2020	<0.0002							
9/16/2020				<0.0002	<0.0002			
11/10/2020				<0.0002	<0.0002			
12/15/2020				<0.0002	<0.0002			
1/19/2021				<0.0002	<0.0002			
2/8/2021	<0.0002							
2/9/2021		<0.0002	<0.0002	<0.0002	<0.0002			
2/10/2021						<0.0002		
2/16/2021							<0.0002	<0.0002
8/11/2021	<0.0002			<0.0002				
8/12/2021		<0.0002	<0.0002					
8/13/2021					<0.0002			
2/1/2022	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002			
2/9/2022								<0.0002
2/10/2022						<0.0002	<0.0002	
8/2/2022	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002			
8/3/2022							<0.0002	
8/4/2022								<0.0002
8/11/2022						<0.0002		
1/23/2023			<0.0002					
1/24/2023	<0.0002	<0.0002		<0.0002	<0.0002			
1/26/2023								<0.0002
1/27/2023						<0.0002		
2/1/2023							<0.0002	
8/8/2023	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002			
8/11/2023								<0.0002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 10/21/2025 3:40 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-7	HGWC-8	HGWC-9
8/12/2023						<0.0002	<0.0002	
2/13/2024	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002			
2/14/2024						<0.0002	<0.0002	
2/15/2024								<0.0002
8/5/2024	<0.0002	<0.0002	<0.0002					
8/6/2024				<0.0002	<0.0002			
8/7/2024						<0.0002	<0.0002	<0.0002
2/12/2025	<0.0002		<0.0002	<0.0002	<0.0002			
2/14/2025		<0.0002						
2/15/2025							<0.0002	<0.0002
2/16/2025						<0.0002		
8/5/2025	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002			
8/6/2025						<0.0002	<0.0002	
8/7/2025								<0.0002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 10/21/2025 3:40 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-10	HGWC-11	HGWC-12	HGWC-13	MW-19	MW-20	MW-24D	MW-27D
5/23/2016	<0.0002	<0.0002	<0.0002	<0.0002				
7/12/2016	<0.0002	<0.0002	<0.0002	<0.0002				
9/1/2016	<0.0002	<0.0002	<0.0002	<0.0002				
10/24/2016	<0.0002	<0.0002	<0.0002	<0.0002				
12/7/2016	<0.0002	<0.0002	<0.0002	<0.0002				
1/26/2017	5E-05 (J)	5E-05 (J)	<0.0002	4E-05 (J)				
3/22/2017	<0.0002	<0.0002	<0.0002	<0.0002				
5/24/2017	<0.0002	<0.0002	<0.0002	5E-05 (J)				
4/4/2018	<0.0002	<0.0002	<0.0002	<0.0002				
3/13/2019	<0.0002	<0.0002		<0.0002		<0.0002	<0.0002	<0.0002
3/14/2019			<0.0002		<0.0002			
9/27/2019	<0.0002				<0.0002			
3/2/2020						<0.0002		
3/3/2020	<0.0002	<0.0002	<0.0002					
3/4/2020				<0.0002	<0.0002		<0.0002	<0.0002
2/11/2021						<0.0002		
2/12/2021		<0.0002	<0.0002		<0.0002			
2/15/2021	<0.0002							
2/16/2021							<0.0002	<0.0002
2/22/2021				<0.0002				
2/9/2022	<0.0002	<0.0002	<0.0002		<0.0002			
2/10/2022				<0.0002		<0.0002	<0.0002	<0.0002
8/3/2022	<0.0002	<0.0002	<0.0002	<0.0002			<0.0002	<0.0002
8/4/2022					<0.0002	<0.0002		
1/26/2023		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
1/27/2023	<0.0002							<0.0002
8/10/2023	<0.0002	<0.0002	<0.0002		<0.0002	<0.0002		
8/12/2023				<0.0002			<0.0002	<0.0002
2/14/2024						<0.0002		
2/15/2024	<0.0002	<0.0002	<0.0002		<0.0002		<0.0002	
2/16/2024				<0.0002				<0.0002
8/7/2024	<0.0002	<0.0002	<0.0002			<0.0002		
8/8/2024				<0.0002	<0.0002		<0.0002	<0.0002
2/13/2025		<0.0002	<0.0002		<0.0002			
2/14/2025	<0.0002							
2/15/2025						<0.0002		<0.0002
2/16/2025							<0.0002	
2/17/2025				<0.0002				
8/6/2025	<0.0002	<0.0002	<0.0002		<0.0002	<0.0002		<0.0002
8/10/2025				<0.0002			<0.0002	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 10/21/2025 3:40 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-7	HGWC-8	HGWC-9
5/19/2016	<0.01	<0.01	<0.01					
5/20/2016						0.028	0.446	
5/23/2016								0.0187
7/11/2016	<0.01	<0.01						
7/12/2016			<0.01			0.0273	0.455	0.0229
8/30/2016	<0.01	<0.01	<0.01					
9/1/2016						0.0274	0.481	0.0239
10/19/2016	<0.01	<0.01	<0.01					
10/20/2016						0.036	0.472	0.477
12/6/2016	<0.01	<0.01	<0.01			0.0365	0.52	0.0236
1/24/2017	<0.01	<0.01	<0.01					
1/25/2017						0.0317	0.478	
1/26/2017								0.0234
3/21/2017	<0.01	<0.01	<0.01			0.0346	0.547	
3/22/2017								0.0219
5/22/2017	<0.01	<0.01	<0.01					
5/23/2017						0.0336	0.482	0.0242
4/2/2018	<0.01	<0.01						
4/3/2018			<0.01			0.032	0.44	0.025
6/4/2018	<0.01	<0.01	<0.01					
6/5/2018						0.036		
6/6/2018							0.49	0.027
10/1/2018	<0.01	<0.01	<0.01					
10/2/2018						0.039	0.47	0.028
3/12/2019	<0.01	<0.01	<0.01				0.5	
3/13/2019						0.04		0.028
4/1/2019			<0.01					
4/2/2019	<0.01	<0.01				0.041		
4/3/2019							0.5	0.03
9/23/2019	<0.01	<0.01	<0.01					
9/24/2019							0.54	
9/25/2019						0.047		
9/27/2019								0.033
3/2/2020	<0.01	<0.01	<0.01					
3/3/2020							0.44	
3/4/2020						0.045		0.031
3/25/2020	<0.01	<0.01	<0.01					
3/27/2020						0.044	0.42	
3/31/2020								0.031
6/16/2020	<0.01		<0.01				0.45	
6/17/2020						0.048		
8/25/2020		<0.01	<0.01					
8/28/2020	<0.01							
9/15/2020	<0.01	<0.01	<0.01					
9/16/2020				0.0044 (J)	0.0019 (J)	0.046	0.43	
9/17/2020								0.03
11/10/2020				0.0072 (J)	0.0018 (J)			
12/15/2020				0.0044 (J)	0.0019 (J)			
1/19/2021				0.0038 (J)	0.0035 (J)			
2/8/2021	<0.01							
2/9/2021		<0.01	<0.01	0.0045 (J)	0.0038 (J)			
2/10/2021						0.051		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 10/21/2025 3:40 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-7	HGWC-8	HGWC-9
2/16/2021							0.46	0.035
3/10/2021	<0.01				0.0019 (J)			
3/11/2021		<0.01	<0.01	0.0064 (J)				
3/15/2021						0.047	0.41	
3/16/2021								0.035
8/11/2021	<0.01			0.0034 (J)				
8/12/2021		<0.01	<0.01					
8/13/2021					0.0051 (J)			
8/16/2021						0.045		
8/17/2021								0.035
8/18/2021							0.48	
2/1/2022	<0.01	<0.01	<0.01	0.0036 (J)	0.0055 (J)			
2/9/2022								0.034
2/10/2022						0.045	0.34	
8/2/2022	<0.01	<0.01	<0.01	0.0042 (J)	0.002 (J)			
8/3/2022							0.29	
8/4/2022								0.033
8/11/2022						0.044		
1/23/2023			<0.01					
1/24/2023	<0.01	<0.01		0.0027 (J)	0.0026 (J)			
1/26/2023								0.021
1/27/2023						0.039		
2/1/2023							0.29	
8/8/2023	<0.01	<0.01	<0.01	0.0019 (J)	0.0013 (J)			
8/11/2023								0.03
8/12/2023						0.033	0.34	
2/13/2024	<0.01	<0.01	<0.01	0.0015 (J)	0.0018 (J)			
2/14/2024						0.028	0.18	
2/15/2024								0.01
8/5/2024	<0.01	<0.01	<0.01					
8/6/2024				0.001 (J)	0.00079 (J)			
8/7/2024						0.03	0.28	0.015
2/12/2025	<0.01		<0.01	<0.01	<0.01			
2/14/2025		<0.01						
2/15/2025							0.17	0.013
2/16/2025						0.019		
8/5/2025	<0.01	<0.01	<0.01	<0.01	<0.01			
8/6/2025						0.017	0.047	
8/7/2025								0.005 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 10/21/2025 3:40 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-10	HGWC-11	HGWC-12	HGWC-13	MW-19	MW-20	MW-24D	MW-27D
5/23/2016	<0.01	0.0164	0.0413 (J)	0.027				
7/12/2016	0.0013 (J)	0.0251	0.0484	0.0316				
9/1/2016	<0.01	0.0259	0.0474	0.0336				
10/24/2016	<0.01	0.0293	0.047	0.0352				
12/7/2016	<0.01	0.0209	0.0432	0.0383				
1/26/2017	<0.01	0.0277	0.0484	0.041				
3/22/2017	0.0013 (J)	0.011	0.0494	0.0426				
5/24/2017	0.0014 (J)	0.0373	0.047	0.04				
4/4/2018	<0.01	0.013	0.052	0.027				
6/5/2018	<0.01	0.029		0.027				
6/6/2018			0.054					
10/2/2018	<0.01							
10/3/2018		0.02	0.054					
10/5/2018				0.033				
3/13/2019	<0.01	0.012		0.033		<0.01	<0.01	<0.01
3/14/2019			0.046		0.057			
4/2/2019						<0.01		
4/3/2019	0.0021 (J)	0.01	0.049		0.04			
4/4/2019								0.0018 (J)
4/5/2019				0.03				
4/8/2019							0.00027 (J)	
9/25/2019						<0.01		
9/26/2019				0.026			<0.01	0.0042 (J)
9/27/2019	0.0014 (J)	0.016	0.052		0.063			
3/2/2020						<0.01		
3/3/2020	<0.01	0.011	0.045					
3/4/2020				0.03	0.032		<0.01	0.0058 (J)
3/26/2020			0.045		0.033			
3/27/2020						<0.01		
3/30/2020				0.029			<0.01	
3/31/2020		0.0074 (J)						
4/1/2020	<0.01							
4/2/2020								0.003 (J)
9/16/2020	0.0014 (J)							
9/17/2020						<0.01		
9/18/2020		0.032	0.046					0.0018 (J)
9/21/2020				0.032	0.064		0.00099 (J)	
2/11/2021						<0.01		
2/12/2021		0.023	0.048		0.046			
2/15/2021	<0.01							
2/16/2021							0.00096 (J)	0.0019 (J)
2/22/2021				0.036				
3/12/2021	0.0007 (J)							0.0008 (J)
3/15/2021						<0.01		
3/16/2021		0.015	0.044					
3/17/2021				0.035	0.043		0.001 (J)	
8/17/2021	0.0012 (J)					<0.01		0.0016 (J)
8/18/2021		0.038	0.045		0.032			
8/19/2021				0.032			0.00087 (J)	
2/9/2022	<0.01	0.03	0.042		0.011			
2/10/2022				0.033		<0.01	0.0008 (J)	0.0017 (J)
8/3/2022	0.00079 (J)	0.027	0.047	0.035			0.00095 (J)	0.002 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 10/21/2025 3:40 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-10	HGWC-11	HGWC-12	HGWC-13	MW-19	MW-20	MW-24D	MW-27D
8/4/2022					0.039	<0.01		
1/26/2023		0.022	0.048	0.023	0.012	<0.01	0.0012 (J)	
1/27/2023	<0.01							0.0014 (J)
8/10/2023	0.0014 (J)	0.014	0.05		0.033	<0.01		
8/12/2023				0.016			0.0019 (J)	0.0019 (J)
2/14/2024						<0.01		
2/15/2024	<0.01	0.029	0.046		<0.01		0.0085 (J)	
2/16/2024				0.013				0.0052 (J)
8/7/2024	0.0012 (J)	0.01 (J)	0.044			<0.01		
8/8/2024				0.011	0.046		0.0016 (J)	0.0052 (J)
2/13/2025		0.041	0.044		<0.01			
2/14/2025	<0.01							
2/15/2025						<0.01		0.022
2/16/2025							0.0067 (J)	
2/17/2025				0.015				
8/6/2025	<0.01	0.0025 (J)	0.037		0.013	<0.01		0.034
8/10/2025				0.018			0.0035 (J)	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: pH, Field (SU) Analysis Run 10/21/2025 3:40 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-7	HGWC-8	HGWC-9
5/19/2016	7.27	5.81	7.45					
5/20/2016						7.14	6.99	
5/23/2016								7.23
7/11/2016	7.06	5.68						
7/12/2016			7.32			7.13	6.88	6.87
8/30/2016	7.28	5.63	7.43					
9/1/2016						7.29	6.73	7.15
10/19/2016	7.02	5.46	7.03					
10/20/2016						7.1	6.9	7.05
12/6/2016	7.09	5.38	7.08			7.15	6.98	7.15
1/24/2017	7.2	5.37	7.39					
1/25/2017						7.11	7.04	
1/26/2017								6.99
3/21/2017	7.01	4.9	6.83			7.12	6.87	
3/22/2017								7.03
5/22/2017	7.11	5.2	7.02					
5/23/2017						7.08	6.87	7.05
10/3/2017	7.21	5.3	7.47			7.21	6.72	7.07
4/2/2018	7.1	5.4						
4/3/2018			7.38			7.14	6.87	6.99
6/4/2018	7.06	5.27	7.38					
6/5/2018						7.13		
6/6/2018							6.9	7.02
10/1/2018	7.09	5.31	7.13					
10/2/2018						7.12	6.9	7.05
3/12/2019	7.03	5.42	7.29				6.91	
3/13/2019						7.27		7.06
4/1/2019			7.16					
4/2/2019	6.86	5.41				7.27		
4/3/2019							6.85	6.88
9/23/2019	7.02	5.33	7.3					
9/24/2019							6.95	
9/25/2019						7.11		
9/27/2019								7.01
9/30/2019	7	5.35	7.37					
3/2/2020	7.1	5.43	7.12					
3/3/2020							7.06	
3/4/2020						7.17		6.97
3/25/2020	6.95	5.36	7.4					
3/27/2020						7.05	6.95	
3/31/2020								7.07
6/16/2020	6.97		7.31				6.97	
6/17/2020						7.2		
8/25/2020		5.15	7.14					
8/28/2020	7.02							
9/15/2020	7.15	5.22	7.29					
9/16/2020				7.52	7.83	7.3	6.92	
9/17/2020								6.99
11/10/2020				7.27	7.84			
12/15/2020				7.39	7.87			
1/19/2021				7.39	7.86			
2/8/2021	7.11							

Time Series

Constituent: pH, Field (SU) Analysis Run 10/21/2025 3:40 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-7	HGWC-8	HGWC-9
2/9/2021		5.42	7.23	7.44	7.84			
2/10/2021						7.29		
2/16/2021							7.16	7.26
3/10/2021	6.95				7.92			
3/11/2021		5.8	7.33	7.46				
3/15/2021						7.19	7.09	
3/16/2021								7.1
8/11/2021	6.98			7.4				
8/12/2021		5.05	7.31					
8/13/2021					7.77			
8/16/2021						7.12		
8/17/2021								7.1
8/18/2021							7.02	
2/1/2022	7.19	5.24	7.45	7.52	8.25			
2/9/2022								7.3
2/10/2022						7.22	6.99	
8/2/2022	7.03	4.57	7.02	7.15	7.9			
8/3/2022							6.84	
8/4/2022								7.03
8/11/2022						7.07		
1/23/2023			7.32					
1/24/2023	6.76	5.22		7.56	8.22			
1/26/2023								7.07
1/27/2023						7.25		
2/1/2023							6.6	
8/8/2023	7.05	5.01	7.42	7.39	8.2			
8/11/2023								7.09
8/12/2023						7.36	6.84	
2/13/2024	7.06	5.49	7.35	7.47	8.1			
2/14/2024						7.3	6.66	
2/15/2024								6.82
8/5/2024	7.29	4.91	7.27					
8/6/2024				7.46	8.36			
8/7/2024						7.58	6.71	7.03
2/12/2025	7.08		7.37	7.5	8.49			
2/14/2025		5.75	7.45					
2/15/2025							6.54	7.03
2/16/2025						7.41		
8/5/2025	6.94	4.9	7.12	7.42	8.46			
8/6/2025						7.28	5.61	
8/7/2025								6.32

Time Series

Constituent: pH, Field (SU) Analysis Run 10/21/2025 3:40 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-10	HGWC-11	HGWC-12	HGWC-13	MW-19	MW-20	MW-24D	MW-27D
5/23/2016	6.83	6.22	7.15	7.14				
7/12/2016	6.58	6.04	6.87	7.04				
9/1/2016	6.54	6.26	7.2	7.24				
10/24/2016	6.59	6.46	7.1	6.9				
12/7/2016	6.56	6.29	6.92	6.91				
1/26/2017	6.83	6.46	7.05	7.08				
3/22/2017	6.66	5.81	7.08	7.13				
5/24/2017	6.67	6.51	7.11	7.15				
10/3/2017	6.54	6.25	7.01	7.32				
4/4/2018	6.61	5.86	7.12	7.27				
6/5/2018	6.65	6.27		7.2				
6/6/2018			7.12					
10/2/2018	6.55							
10/3/2018		5.97	7.08					
10/5/2018				7.24				
3/13/2019	6.7	5.92		7.24		6.75	7.58	7.78
3/14/2019			7.09		6.48			
4/2/2019						6.7		
4/3/2019	6.55	5.69	6.96		6.14			
4/4/2019								7.63
4/5/2019				7.24				
4/8/2019							7.47	
9/25/2019						6.75		
9/26/2019				6.94			7.5	7.46
9/27/2019	6.64	5.75	7.07		6.34			
3/2/2020						6.98		
3/3/2020	6.76	5.95	6.95					
3/4/2020				7.16	6.24		7.47	8.33
3/26/2020			6.99		6.28			
3/27/2020						6.75		
3/30/2020				6.91			7.49	
3/31/2020		5.7						
4/1/2020	6.84							
4/2/2020								8.11
9/16/2020	6.66							
9/17/2020						6.78		
9/18/2020		6.42	7.16					7.51
9/21/2020				7.38	6.41		7.65	
2/11/2021						6.93		
2/12/2021		7.27	6.23		6.36			
2/15/2021	6.83							
2/16/2021							7.69	7.96
2/22/2021				7.27				
3/12/2021	6.76							7.88
3/15/2021						6.97		
3/16/2021		5.95	7.15					
3/17/2021				7.33	6.34		7.66	
8/17/2021	6.75					7.05		7.75
8/18/2021		6.1	6.89		6.28			
8/19/2021				7.38			7.61	
2/9/2022	7	6.55	7.23		6.28			
2/10/2022				7.54		7.19	7.82	7.96

Time Series

Constituent: pH, Field (SU) Analysis Run 10/21/2025 3:40 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-10	HGWC-11	HGWC-12	HGWC-13	MW-19	MW-20	MW-24D	MW-27D
8/3/2022	6.73	6.23	7.13	7.09			7.59	7.4
8/4/2022					6.32	6.96		
1/26/2023		6.23	7.1	6.9	6.13	6.95	7.61	
1/27/2023	6.89							7.8
8/10/2023	6.81	5.9	7.08		6.37	6.86		
8/12/2023				6.89			7.61	7.8
2/14/2024						6.95		
2/15/2024	6.93	6.36	7.02		6.11		7.85	
2/16/2024				6.9				9.12
8/7/2024	6.92	5.79	7.09			6.89		
8/8/2024				6.95	6.47		7.63	8.8
2/13/2025		6.6	7.04		6.01			
2/14/2025	6.77							
2/15/2025						7.17		9.79
2/16/2025							7.99	
2/17/2025				7.11				
8/6/2025	6.51	5.44	6.98		6.01	6.73		10.7
8/10/2025				6.78			7.67	

Time Series

Constituent: Selenium (mg/L) Analysis Run 10/21/2025 3:40 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-7	HGWC-8	HGWC-9
5/19/2016	<0.005	<0.005	<0.005					
5/20/2016						<0.005	<0.005	
5/23/2016								<0.005
7/11/2016	<0.005	<0.005						
7/12/2016			<0.005			<0.005	<0.005	<0.005
8/30/2016	<0.005	<0.005	<0.005					
9/1/2016						<0.005	<0.005	<0.005
10/19/2016	<0.005	<0.005	<0.005					
10/20/2016						<0.005	<0.005	<0.005
12/6/2016	<0.005	<0.005	<0.005			<0.005	0.0024 (J)	0.0037 (J)
1/24/2017	<0.005	<0.005	<0.005					
1/25/2017						<0.005	<0.005	
1/26/2017								<0.005
3/21/2017	<0.005	<0.005	<0.005			<0.005	<0.005	
3/22/2017								<0.005
5/22/2017	<0.005	<0.005	<0.005					
5/23/2017						<0.005	<0.005	<0.005
4/2/2018	<0.005	<0.005						
4/3/2018			<0.005			<0.005	<0.005	<0.005
6/4/2018	<0.005	<0.005	<0.005					
6/5/2018						<0.005		
6/6/2018							<0.005	<0.005
10/1/2018	<0.005	<0.005	<0.005					
10/2/2018						<0.005	<0.005	<0.005
3/12/2019	<0.005	<0.005	<0.005				<0.005	
3/13/2019						<0.005		<0.005
4/1/2019			<0.005					
4/2/2019	<0.005	<0.005				<0.005		
4/3/2019							<0.005	<0.005
9/23/2019	<0.005	<0.005	<0.005					
9/24/2019							<0.005	
9/25/2019						<0.005		
9/27/2019								<0.005
3/2/2020	<0.005	<0.005	<0.005					
3/3/2020							<0.005	
3/4/2020						<0.005		<0.005
3/25/2020	<0.005	<0.005	<0.005					
3/27/2020						<0.005	<0.005	
3/31/2020								<0.005
8/25/2020		<0.005	<0.005					
8/28/2020	<0.005							
9/15/2020	<0.005	<0.005	<0.005					
9/16/2020				<0.005	<0.005	<0.005	<0.005	
9/17/2020								<0.005
11/10/2020				<0.005	<0.005			
12/15/2020				<0.005	<0.005			
1/19/2021				<0.005	<0.005			
2/8/2021	<0.005							
2/9/2021		<0.005	<0.005	<0.005	<0.005			
2/10/2021						<0.005		
2/16/2021							<0.005	<0.005
3/10/2021	0.0047 (J)				<0.005			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 10/21/2025 3:40 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-7	HGWC-8	HGWC-9
3/11/2021		<0.005	<0.005	<0.005				
3/15/2021						<0.005	<0.005	
3/16/2021								<0.005
8/11/2021	<0.005			<0.005				
8/12/2021		<0.005	<0.005					
8/13/2021					<0.005			
8/16/2021						<0.005		
8/17/2021								<0.005
8/18/2021							<0.005	
2/1/2022	<0.005	<0.005	<0.005	<0.005	<0.005			
2/9/2022								<0.005
2/10/2022						<0.005	<0.005	
8/2/2022	<0.005	0.0014 (J)	<0.005	<0.005	<0.005			
8/3/2022							<0.005	
8/4/2022								<0.005
8/11/2022						<0.005		
1/23/2023			<0.005					
1/24/2023	<0.005	<0.005		<0.005	<0.005			
1/26/2023								<0.005
1/27/2023						<0.005		
2/1/2023							<0.005	
8/8/2023	<0.005	0.0019 (J)	<0.005	<0.005	<0.005			
8/11/2023								<0.005
8/12/2023						<0.005	<0.005	
2/13/2024	<0.005	0.002 (J)	<0.005	<0.005	<0.005			
2/14/2024						<0.005	<0.005	
2/15/2024								<0.005
8/5/2024	<0.005	0.0013 (J)	<0.005					
8/6/2024				<0.005	<0.005			
8/7/2024						<0.005	<0.005	<0.005
2/12/2025	<0.005		<0.005	<0.005	<0.005			
2/14/2025		0.0043 (J)						
2/15/2025							<0.005	<0.005
2/16/2025						<0.005		
8/5/2025	<0.005	<0.005	<0.005	<0.005	<0.005			
8/6/2025						<0.005	<0.005	
8/7/2025								<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 10/21/2025 3:40 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-10	HGWC-11	HGWC-12	HGWC-13	MW-19	MW-20	MW-24D	MW-27D
5/23/2016	<0.005	0.0106	<0.005	<0.005				
7/12/2016	<0.005	0.0057 (J)	<0.005	<0.005				
9/1/2016	<0.005	0.0057 (J)	<0.005	<0.005				
10/24/2016	<0.005	0.0021 (J)	<0.005	<0.005				
12/7/2016	<0.005	0.0015 (J)	0.0011 (J)	<0.005				
1/26/2017	0.0041 (J)	0.0062 (J)	<0.005	<0.005				
3/22/2017	<0.005	0.0263	<0.005	<0.005				
5/24/2017	<0.005	0.0038 (J)	<0.005	<0.005				
4/4/2018	<0.005	0.021	<0.005	<0.005				
6/5/2018	<0.005	0.0062 (J)		<0.005				
6/6/2018			<0.005					
10/2/2018	0.0023 (J)							
10/3/2018		0.009 (J)	<0.005					
10/5/2018				<0.005				
3/13/2019	0.0015 (J)	0.023		<0.005		<0.005	<0.005	<0.005
3/14/2019			<0.005		<0.05			
4/2/2019						<0.005		
4/3/2019	<0.005	0.016	<0.005		0.007 (J)			
4/4/2019								0.00012 (J)
4/5/2019				0.00018 (J)				
4/8/2019							<0.005	
9/25/2019						<0.005		
9/26/2019				<0.005			<0.005	<0.005
9/27/2019	<0.005	0.013	<0.005		0.0013 (J)			
3/2/2020						<0.005		
3/3/2020	<0.005	0.016	<0.005					
3/4/2020				<0.005	0.0044 (J)		<0.005	<0.005
3/26/2020			<0.005		0.0053 (J)			
3/27/2020						<0.005		
3/30/2020				<0.005			<0.005	
3/31/2020		0.019						
4/1/2020	0.002 (J)							
4/2/2020								<0.005
9/16/2020	<0.005							
9/17/2020						<0.005		
9/18/2020		0.0042 (J)	<0.005					<0.005
9/21/2020				0.0016 (J)	0.0033 (J)		<0.005	
2/11/2021						<0.005		
2/12/2021		0.0079 (J)	<0.005		0.0021 (J)			
2/15/2021	0.0028 (J)							
2/16/2021							<0.005	<0.005
2/22/2021				<0.005				
3/12/2021	<0.005							<0.005
3/15/2021						<0.005		
3/16/2021		0.015	<0.005					
3/17/2021				<0.005	<0.05		<0.005	
8/17/2021	<0.005					<0.005		<0.005
8/18/2021		0.0033 (J)	<0.005		0.0026 (J)			
8/19/2021				<0.005			<0.005	
2/9/2022	0.0031 (J)	0.0035 (J)	<0.005		0.0036 (J)			
2/10/2022				<0.005		<0.005	<0.005	<0.005
8/3/2022	0.0017 (J)	0.0057	<0.005	<0.005			<0.005	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 10/21/2025 3:40 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-10	HGWC-11	HGWC-12	HGWC-13	MW-19	MW-20	MW-24D	MW-27D
8/4/2022					0.0022 (J)	<0.005		
1/26/2023		0.01	<0.005	<0.005	0.0056	<0.005	<0.005	
1/27/2023	0.0035 (J)							<0.005
8/10/2023	<0.005	0.0089	<0.005		0.0038 (J)	<0.005		
8/12/2023				<0.005			<0.005	<0.005
2/14/2024						<0.005		
2/15/2024	0.0038 (J)	0.0063	<0.005		0.0082		<0.005	
2/16/2024				<0.005				<0.005
8/7/2024	<0.005	0.0084	<0.005			<0.005		
8/8/2024				<0.005	0.0034 (J)		<0.005	<0.005
2/13/2025		<0.05	<0.005		<0.05			
2/14/2025	0.0024 (J)							
2/15/2025						<0.005		<0.005
2/16/2025							<0.005	
2/17/2025				<0.005				
8/6/2025	<0.005	0.011	<0.005		0.0038 (J)	<0.005		<0.005
8/10/2025				<0.005			<0.005	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Sulfate (mg/L) Analysis Run 10/21/2025 3:40 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-7	HGWC-8	HGWC-9
5/19/2016	66.9	48.6	42.3					
5/20/2016						96	219	
5/23/2016								207
7/11/2016	41	45						
7/12/2016			44			100	230	230
8/30/2016	36	42	40					
9/1/2016						100	230	230
10/19/2016	46	44	43					
10/20/2016						110	240	240
12/6/2016	59	44	43			110	250	240
1/24/2017	46	46	48					
1/25/2017						110	260	
1/26/2017								270
3/21/2017	63	46	45			110	240	
3/22/2017								240
5/22/2017	77	48	46					
5/23/2017						110	270	240
10/3/2017	42	47	48			120	230	240
6/4/2018	71.8	47.8	46.6					
6/5/2018						117		
6/6/2018							190	214
10/1/2018	49.1	48.1	48.6					
10/2/2018						120	193	218
4/1/2019			50.4					
4/2/2019	84.3	48.7				127		
4/3/2019							194	214
9/23/2019	70.2	47.2	43.9					
9/24/2019							133	
9/25/2019						109		
9/27/2019								214
3/25/2020	85.9	46.3	50.5					
3/27/2020						109	173	
3/31/2020								185
6/16/2020	88.2		49.5				157	
6/17/2020						102		
9/15/2020	47.3	51.5	44.7					
9/16/2020				43	24.95 (D)	109	194	
9/17/2020								209
11/10/2020				39	6.3			
12/15/2020				38.8	6.7			
1/19/2021				37.3	7.4			
3/10/2021	49.6				<1			
3/11/2021		52.9	50.4	38.6				
3/15/2021						107	272	
3/16/2021								211
8/11/2021	48.9			30.5				
8/12/2021		47.4	38.6					
8/13/2021					56.1			
8/16/2021						98.1		
8/17/2021								207
8/18/2021							245	
2/1/2022	43.7	67.1	46	37.5	56.3			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Sulfate (mg/L) Analysis Run 10/21/2025 3:40 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-7	HGWC-8	HGWC-9
2/9/2022								224
2/10/2022						97.5	224	
8/2/2022	58.1	86.9	43.5	37	13.2			
8/3/2022							241	
8/4/2022								243
8/11/2022						121		
1/23/2023			39.5					
1/24/2023	48.3	79.7		34.7	10.1			
1/26/2023								217
1/27/2023						119		
2/1/2023							179	
8/8/2023	67.7	89.9	35	25.6	1.3			
8/11/2023								197
8/12/2023						84.2	170	
2/13/2024	50.4	93.9	35.5	28.9	2			
2/14/2024						102	137	
2/15/2024								199
8/5/2024	49.4	87.2	31.1					
8/6/2024				25.5	0.86 (J)			
8/7/2024						86.5	124	187
2/12/2025	43.8		28	25.2	0.51 (J)			
2/14/2025		94.5 (M1)						
2/15/2025							104	169
2/16/2025						98.5 (M1)		
8/5/2025	57.6	74	24.9	22.4	0.85 (J)			
8/6/2025						97.2	90.3	
8/7/2025								148

Time Series

Constituent: Sulfate (mg/L) Analysis Run 10/21/2025 3:40 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-10	HGWC-11	HGWC-12	HGWC-13	MW-19	MW-20	MW-24D	MW-27D
5/23/2016	175	260	288	215				
7/12/2016	190	390	320	210				
9/1/2016	190	240	300	190				
10/24/2016	190	370	270	180				
12/7/2016	200	260	280	120				
1/26/2017	90	230	260	83				
3/22/2017	170	330	220	100				
5/24/2017	190	230	210	110				
10/3/2017	200	230	190	67				
6/5/2018	205	204		187				
6/6/2018			162					
10/2/2018	178							
10/3/2018		233	191					
10/5/2018				78.3				
4/2/2019						122		
4/3/2019	159	298	176		105			
4/4/2019								11.8
4/5/2019				105				
4/8/2019							97.3	
9/25/2019						112		
9/26/2019				444			91	15.6
9/27/2019	181	<10	198		170			
3/26/2020			182		310			
3/27/2020						114		
3/30/2020				393			84.9	
3/31/2020		283						
4/1/2020	59							
4/2/2020								13.3
9/16/2020	169							
9/17/2020						110		
9/18/2020		272	266					7.5
9/21/2020				359	305		114	
3/12/2021	120							7.4
3/15/2021						109		
3/16/2021		291	248					
3/17/2021				384	260		137	
8/17/2021	156					98.6		8.2
8/18/2021		237	226		219			
8/19/2021				339			130	
2/9/2022	49.2	276	252		221			
2/10/2022				371		95.9	127	13.2
8/3/2022	119	254	236	451			135	9.5
8/4/2022					412	110		
1/26/2023		209	228	495	214	109	152	
1/27/2023	37.3							9.1
8/10/2023	128	190	209		210	100		
8/12/2023				347			146	7.6
2/14/2024						104		
2/15/2024	51.2	208	240		161		115	
2/16/2024				285				6.7
8/7/2024	111	206	220			91.1		
8/8/2024				239	170		134	6.6

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Sulfate (mg/L) Analysis Run 10/21/2025 3:40 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-10	HGWC-11	HGWC-12	HGWC-13	MW-19	MW-20	MW-24D	MW-27D
2/13/2025		155 (M1)	198		141			
2/14/2025	39.2							
2/15/2025						100		6.5
2/16/2025							96.2	
2/17/2025				167 (M1)				
8/6/2025	57.2	182	173		135	92.3		28.5
8/10/2025				131			133	

Time Series

Constituent: TDS (mg/L) Analysis Run 10/21/2025 3:40 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-7	HGWC-8	HGWC-9
5/19/2016	421	143	267					
5/20/2016						427	711	
5/23/2016								984
7/11/2016	363	125						
7/12/2016			249			410	704	887
8/30/2016	330	168	254					
9/1/2016						484	763	956
10/19/2016	380	176	357					
10/20/2016						393	644	642
12/6/2016	377	145	285			492	733	899
1/24/2017	342	129	300					
1/25/2017						461	744	
1/26/2017								869
3/21/2017	340	103	288			415	818	
3/22/2017								936
5/22/2017	338	92	263					
5/23/2017						450	765	939
10/3/2017	343	127	300			464	812	1040
6/4/2018	415	140	266					
6/5/2018						459		
6/6/2018							611	810
10/1/2018	354	135	291					
10/2/2018						426	597	693
4/1/2019			284					
4/2/2019	452	133				428		
4/3/2019							543	673
9/23/2019	442	129	268					
9/24/2019							471.5 (D)	
9/25/2019						503		
9/27/2019								730
3/25/2020	496	138	284					
3/27/2020						413	541	
3/31/2020								1010
6/16/2020	632		448				573	
6/17/2020						423		
9/15/2020	265	124	258					
9/16/2020				272	270	392	552	
9/17/2020								680
11/10/2020				307	287			
12/15/2020				289	295			
1/19/2021				270	278			
3/10/2021	348				289			
3/11/2021		169	267	279				
3/15/2021						370	614	
3/16/2021								672
8/11/2021	366			277				
8/12/2021		118	265					
8/13/2021					436			
8/16/2021						407		
8/17/2021								704
8/18/2021							620	
2/1/2022	270	156	350	156	444			

Time Series

Constituent: TDS (mg/L) Analysis Run 10/21/2025 3:40 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-7	HGWC-8	HGWC-9
2/9/2022								756
2/10/2022						414	578	
8/2/2022	400	196	287	278	311			
8/3/2022							648	
8/4/2022								760
8/11/2022						445		
1/23/2023			293					
1/24/2023	369	164		271	363			
1/26/2023								745
1/27/2023						473		
2/1/2023							528	
8/8/2023	457	189	285	274	361			
8/11/2023								757
8/12/2023						378	564	
2/13/2024	402	214	284	291	379			
2/14/2024						440	407	
2/15/2024								663
8/5/2024	444	217	304					
8/6/2024				283	380			
8/7/2024						417	469	731
2/12/2025	374		267	273	363			
2/14/2025		242						
2/15/2025							340	628
2/16/2025						408		
8/5/2025	416	160	265	282	370			
8/6/2025						407	333	
8/7/2025								613

Time Series

Constituent: TDS (mg/L) Analysis Run 10/21/2025 3:40 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-10	HGWC-11	HGWC-12	HGWC-13	MW-19	MW-20	MW-24D	MW-27D
5/23/2016	629	564	1060	683				
7/12/2016	661	627	909	563				
9/1/2016	769	656	1480	702				
10/24/2016	643	836	868	647				
12/7/2016	697	748	811	465				
1/26/2017	368	571	846	411				
3/22/2017	683	597	804	427				
5/24/2017	696	566	803	377				
10/3/2017	746	443	608	268				
6/5/2018	679	489		528				
6/6/2018			535					
10/2/2018	572							
10/3/2018		449	607					
10/5/2018				322				
4/2/2019						435		
4/3/2019	525	483	462		310			
4/4/2019								203
4/5/2019				331				
4/8/2019							323	
9/25/2019						461		
9/26/2019				1010			360	265
9/27/2019	625 (D)	528	653		431 (D)			
3/26/2020			533		626			
3/27/2020						429		
3/30/2020				895			280	
3/31/2020		565						
4/1/2020	290							
4/2/2020								224
9/16/2020	490							
9/17/2020						460		
9/18/2020		626	704					211
9/21/2020				732	608		391	
3/12/2021	490							215
3/15/2021						406		
3/16/2021		558	614					
3/17/2021				716	543		420	
8/17/2021	496					437		239
8/18/2021		566	600		464			
8/19/2021				726			420	
2/9/2022	250	544	678		503			
2/10/2022				814		459	412	242
8/3/2022	433	572	650	958			415	230
8/4/2022					762	431		
1/26/2023		429	624	962	490	482	412	
1/27/2023	188							255
8/10/2023	504	438	683		524	429		
8/12/2023				803			449	238
2/14/2024						459		
2/15/2024	229	491	660		402		343	
2/16/2024				666				348
8/7/2024	501	437	642			462		
8/8/2024				544	472		428	217

Time Series

Constituent: TDS (mg/L) Analysis Run 10/21/2025 3:40 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-10	HGWC-11	HGWC-12	HGWC-13	MW-19	MW-20	MW-24D	MW-27D
2/13/2025		478	590		396			
2/14/2025	208							
2/15/2025						472		128
2/16/2025							301	
2/17/2025				522				
8/6/2025	280	379	581		455	482		118
8/10/2025				473			432	

Time Series

Constituent: Thallium (mg/L) Analysis Run 10/21/2025 3:40 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-7	HGWC-8	HGWC-9
5/19/2016	<0.0005	<0.0005	<0.0005					
5/20/2016						<0.0005	<0.0005	
5/23/2016								<0.0005
7/11/2016	<0.0005	<0.0005						
7/12/2016			<0.0005			<0.0005	7E-05 (J)	<0.0005
8/30/2016	<0.0005	<0.0005	<0.0005					
9/1/2016						<0.0005	<0.0005	<0.0005
10/19/2016	<0.0005	<0.0005	<0.0005					
10/20/2016						<0.0005	<0.0005	<0.0005
12/6/2016	<0.0005	<0.0005	<0.0005			<0.0005	<0.0005	<0.0005
1/24/2017	<0.0005	<0.0005	<0.0005					
1/25/2017						<0.0005	<0.0005	
1/26/2017								<0.0005
3/21/2017	<0.0005	3E-05 (J)	<0.0005			<0.0005	9E-05 (J)	
3/22/2017								<0.0005
5/22/2017	<0.0005	<0.0005	<0.0005					
5/23/2017						<0.0005	8E-05 (J)	<0.0005
4/2/2018	<0.0005	<0.0005						
4/3/2018			<0.0005			<0.0005	<0.0005	<0.0005
6/4/2018	<0.0005	<0.0005	<0.0005					
6/5/2018						<0.0005		
6/6/2018							<0.0005	<0.0005
10/1/2018	<0.0005	<0.0005	<0.0005					
10/2/2018						<0.0005	<0.0005	<0.0005
3/12/2019	<0.0005	<0.0005	<0.0005				<0.0005	
3/13/2019						<0.0005		<0.0005
4/1/2019			<0.0005					
4/2/2019	<0.0005	<0.0005				<0.0005		
4/3/2019							<0.0005	<0.0005
9/23/2019	<0.0005	<0.0005	<0.0005					
9/24/2019							0.00011 (J)	
9/25/2019						<0.0005		
9/27/2019								<0.0005
3/2/2020	<0.0005	<0.0005	<0.0005					
3/3/2020							6.1E-05 (J)	
3/4/2020						<0.0005		<0.0005
3/25/2020	<0.0005	<0.0005	<0.0005					
3/27/2020						<0.0005	7.7E-05 (J)	
3/31/2020								<0.0005
8/25/2020		<0.0005	<0.0005					
8/28/2020	<0.0005							
9/15/2020	<0.0005	<0.0005	<0.0005					
9/16/2020				<0.0005	<0.0005	<0.0005	<0.0005	
9/17/2020								<0.0005
11/10/2020				<0.0005	<0.0005			
12/15/2020				<0.0005	<0.0005			
1/19/2021				<0.0005	<0.0005			
2/8/2021	<0.0005							
2/9/2021		<0.0005	<0.0005	<0.0005	<0.0005			
2/10/2021						<0.0005		
2/16/2021							<0.0005	<0.0005
3/10/2021	<0.0005				<0.0005			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 10/21/2025 3:40 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-7	HGWC-8	HGWC-9
3/11/2021		<0.0005	<0.0005	<0.0005				
3/15/2021						<0.0005	<0.0005	
3/16/2021								<0.0005
8/11/2021	<0.0005			<0.0005				
8/12/2021		<0.0005	<0.0005					
8/13/2021					<0.0005			
8/16/2021						<0.0005		
8/17/2021								<0.0005
8/18/2021							<0.0005	
2/1/2022	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005			
2/9/2022								<0.0005
2/10/2022						<0.0005	<0.0005	
8/2/2022	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005			
8/3/2022							0.00018 (J)	
8/4/2022								<0.0005
8/11/2022						<0.0005		
1/23/2023			<0.0005					
1/24/2023	<0.0005	<0.0005		<0.0005	<0.0005			
1/26/2023								<0.0005
1/27/2023						<0.0005		
2/1/2023							<0.0005	
8/8/2023	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005			
8/11/2023								<0.0005
8/12/2023						<0.0005	<0.0005	
2/13/2024	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005			
2/14/2024						<0.0005	<0.0005	
2/15/2024								<0.0005
8/5/2024	<0.0005	<0.0005	<0.0005					
8/6/2024				<0.0005	<0.0005			
8/7/2024						<0.0005	<0.0005	<0.0005
2/12/2025	<0.0005		<0.0005	<0.0005	<0.0005			
2/14/2025		<0.0005						
2/15/2025							<0.0005	<0.0005
2/16/2025						<0.0005		
8/5/2025	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005			
8/6/2025						<0.0005	<0.0005	
8/7/2025								<0.0005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 10/21/2025 3:40 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-10	HGWC-11	HGWC-12	HGWC-13	MW-19	MW-20	MW-24D	MW-27D
5/23/2016	<0.0005	<0.0005	<0.0005	0.000378 (J)				
7/12/2016	<0.0005	8E-05 (J)	0.0002 (J)	0.0004 (J)				
9/1/2016	<0.0005	<0.0005	<0.0005	0.0004 (J)				
10/24/2016	<0.0005	<0.0005	<0.0005	0.0005 (J)				
12/7/2016	<0.0005	<0.0005	<0.0005	0.0004 (J)				
1/26/2017	<0.0005	<0.0005	<0.0005	0.0004 (J)				
3/22/2017	<0.0005	<0.0005	0.0001 (J)	0.0004 (J)				
5/24/2017	<0.0005	8E-05 (J)	9E-05 (J)	0.0003 (J)				
4/4/2018	<0.0005	<0.0005	<0.0005	0.00032 (J)				
6/5/2018	<0.0005	<0.0005		0.00035 (J)				
6/6/2018			<0.0005					
10/2/2018	<0.0005							
10/3/2018		<0.0005	<0.0005					
10/5/2018				0.00025 (J)				
3/13/2019	<0.0005	<0.0005		0.00039 (J)		<0.0005	<0.0005	<0.0005
3/14/2019			<0.0005		<0.0005			
4/2/2019						<0.0005		
4/3/2019	<0.0005	<0.0005	<0.0005		<0.0005			
4/4/2019								<0.0005
4/5/2019				0.00034 (J)				
4/8/2019							<0.0005	
9/25/2019						<0.0005		
9/26/2019				0.00039 (J)			<0.0005	<0.0005
9/27/2019	<0.0005	<0.0005	8.8E-05 (J)		0.00027 (J)			
3/2/2020						<0.0005		
3/3/2020	<0.0005	<0.0005	6.6E-05 (J)					
3/4/2020				0.00056 (J)	0.00026 (J)		<0.0005	<0.0005
3/26/2020			8E-05 (J)		0.00026 (J)			
3/27/2020						<0.0005		
3/30/2020				0.00048 (J)			<0.0005	
3/31/2020		<0.0005						
4/1/2020	<0.0005							
4/2/2020								<0.0005
9/16/2020	<0.0005							
9/17/2020						<0.0005		
9/18/2020		<0.0005	<0.0005					<0.0005
9/21/2020				0.00036 (J)	0.0003 (J)		<0.0005	
2/11/2021						<0.0005		
2/12/2021		<0.0005	<0.0005		0.00019 (J)			
2/15/2021	<0.0005							
2/16/2021							<0.0005	<0.0005
2/22/2021				0.0003 (J)				
3/12/2021	<0.0005							<0.0005
3/15/2021						<0.0005		
3/16/2021		<0.0005	<0.0005					
3/17/2021				0.00037 (J)	0.00026 (J)		<0.0005	
8/17/2021	<0.0005					<0.0005		<0.0005
8/18/2021		<0.0005	<0.0005		0.00023 (J)			
8/19/2021				0.0002 (J)			<0.0005	
2/9/2022	<0.0005	<0.0005	<0.0005		<0.0005			
2/10/2022				<0.001		<0.0005	<0.0005	<0.0005
8/3/2022	<0.0005	<0.0005	<0.0005	<0.001			<0.0005	<0.0005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 10/21/2025 3:40 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-10	HGWC-11	HGWC-12	HGWC-13	MW-19	MW-20	MW-24D	MW-27D
8/4/2022					0.00026 (J)	<0.0005		
1/26/2023		<0.0005	<0.0005	0.00031 (J)	<0.0005	<0.0005	<0.0005	
1/27/2023	<0.0005							<0.0005
8/10/2023	<0.0005	<0.0005	<0.0005		<0.0005	<0.0005		
8/12/2023				0.00028 (J)			<0.0005	<0.0005
2/14/2024						<0.0005		
2/15/2024	<0.0005	<0.0005	<0.0005		<0.0005		<0.0005	
2/16/2024				<0.001				<0.0005
8/7/2024	<0.0005	<0.0005	<0.0005			<0.0005		
8/8/2024				<0.001	0.00043 (J)		<0.0005	<0.0005
2/13/2025		<0.0005	<0.0005		<0.0005			
2/14/2025	<0.0005							
2/15/2025						<0.0005		<0.0005
2/16/2025							<0.0005	
2/17/2025				0.00025 (J)				
8/6/2025	<0.0005	<0.0005	<0.0005		<0.0005	<0.0005		<0.0005
8/10/2025				0.00029 (J)			<0.0005	

ND substitution: RL or RL/2 if <15% NDs.

FIGURE B.

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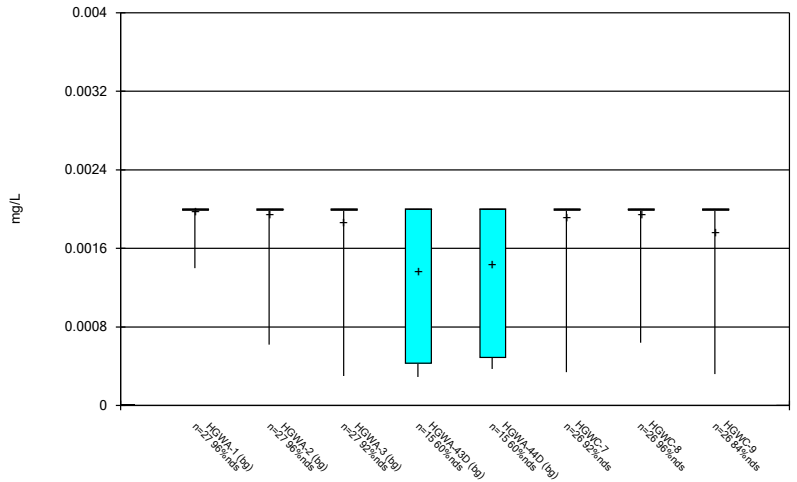
Box & Whiskers Plot



Constituent: Antimony Analysis Run 10/21/2025 3:41 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

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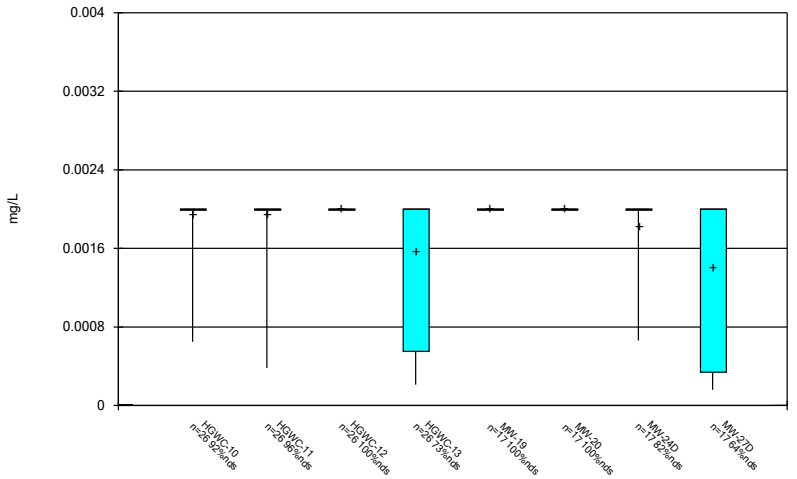
Box & Whiskers Plot



Constituent: Antimony Analysis Run 10/21/2025 3:41 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

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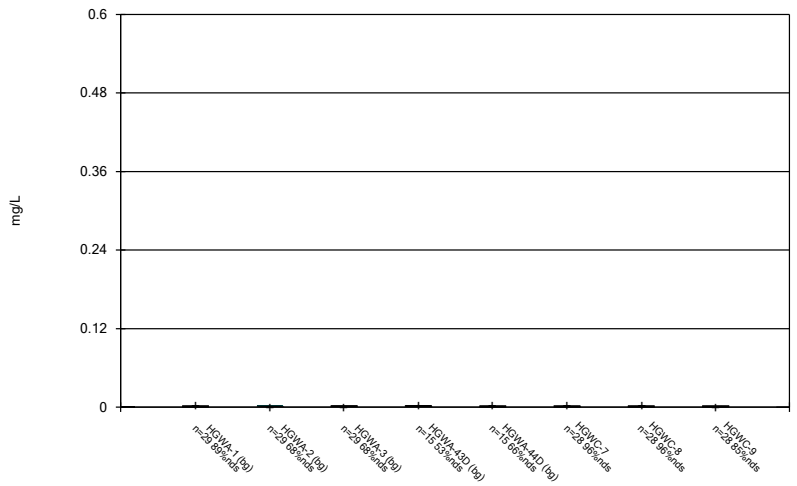
Box & Whiskers Plot



Constituent: Arsenic Analysis Run 10/21/2025 3:41 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

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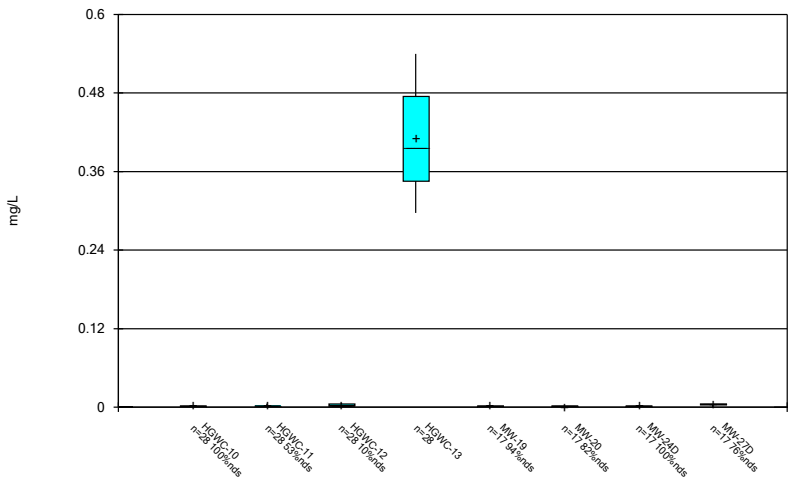
Box & Whiskers Plot



Constituent: Arsenic Analysis Run 10/21/2025 3:41 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

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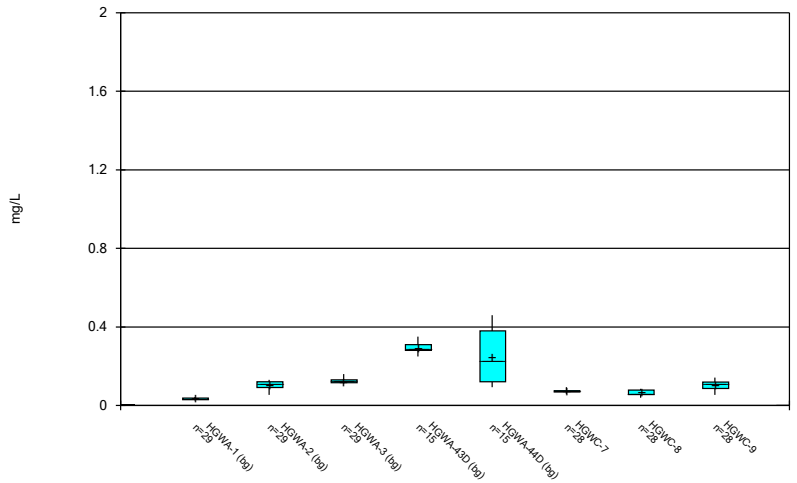
Box & Whiskers Plot



Constituent: Barium Analysis Run 10/21/2025 3:41 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

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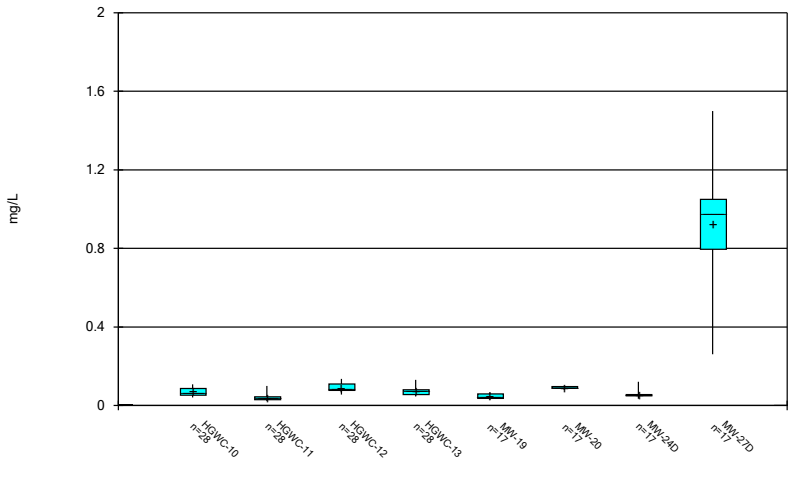
Box & Whiskers Plot



Constituent: Barium Analysis Run 10/21/2025 3:41 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

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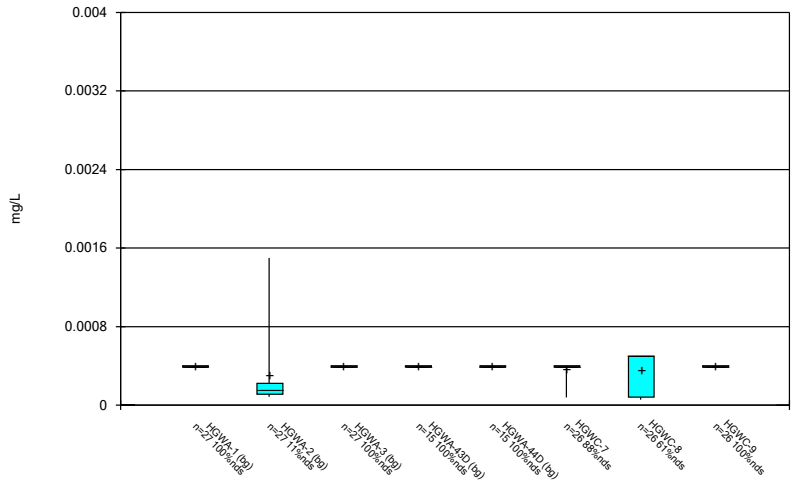
Box & Whiskers Plot



Constituent: Beryllium Analysis Run 10/21/2025 3:41 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

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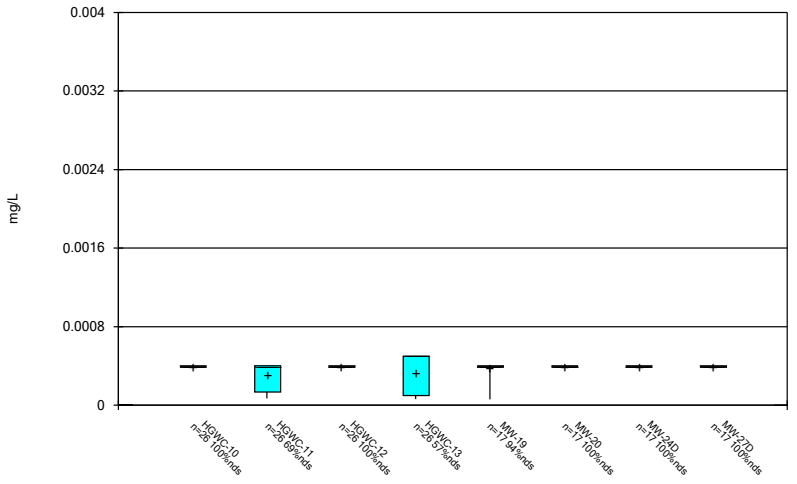
Box & Whiskers Plot



Constituent: Beryllium Analysis Run 10/21/2025 3:41 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

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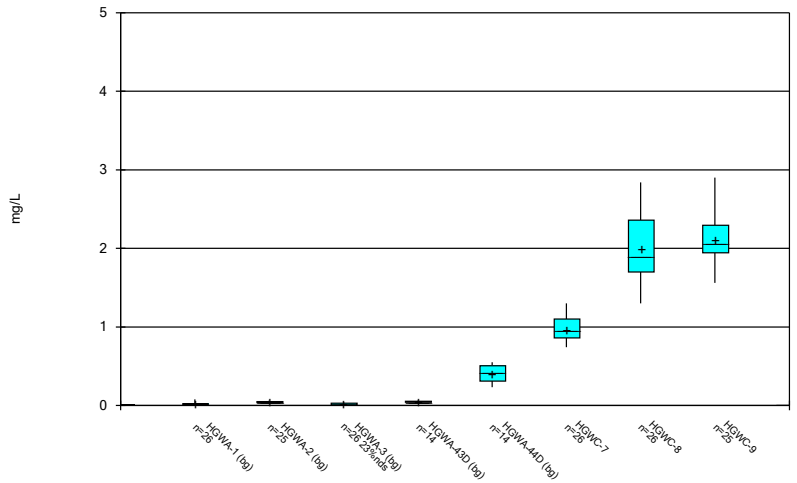
Box & Whiskers Plot



Constituent: Boron Analysis Run 10/21/2025 3:41 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

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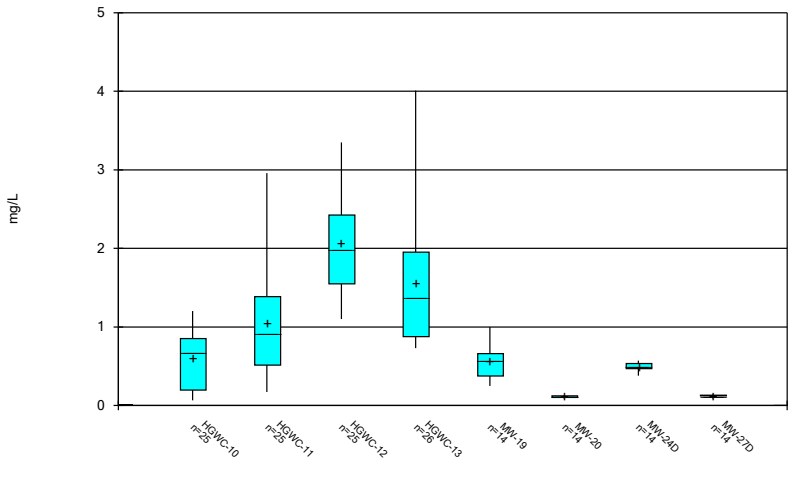
Box & Whiskers Plot



Constituent: Boron Analysis Run 10/21/2025 3:41 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

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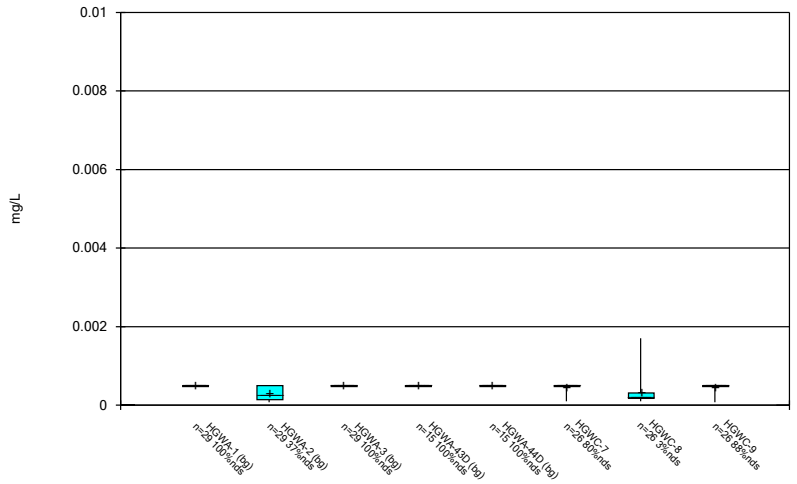
Box & Whiskers Plot



Constituent: Cadmium Analysis Run 10/21/2025 3:41 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

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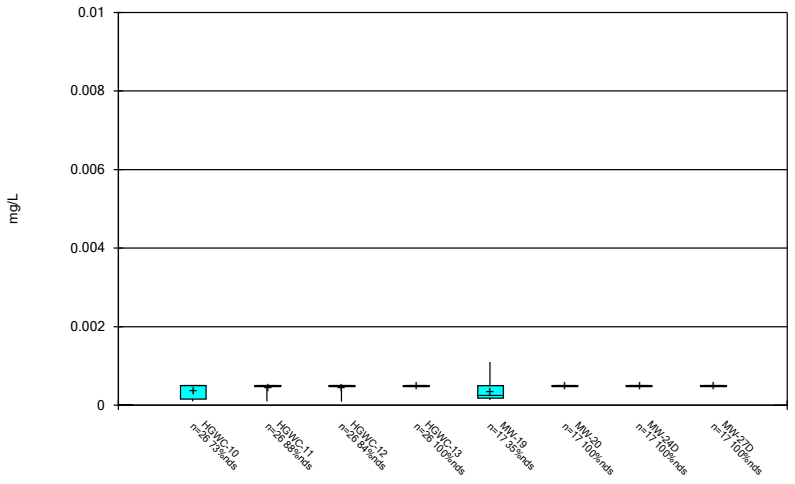
Box & Whiskers Plot



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Plant Hammond Client: Southern Company Data: Hammond AP-1

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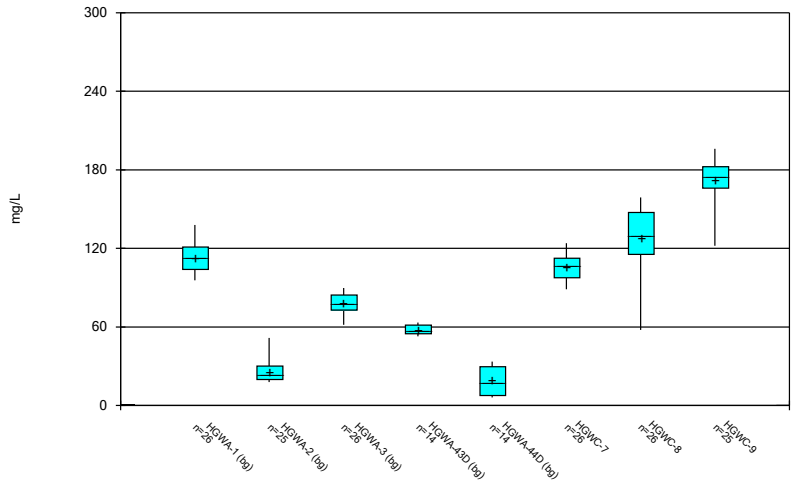
Box & Whiskers Plot



Constituent: Calcium Analysis Run 10/21/2025 3:41 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

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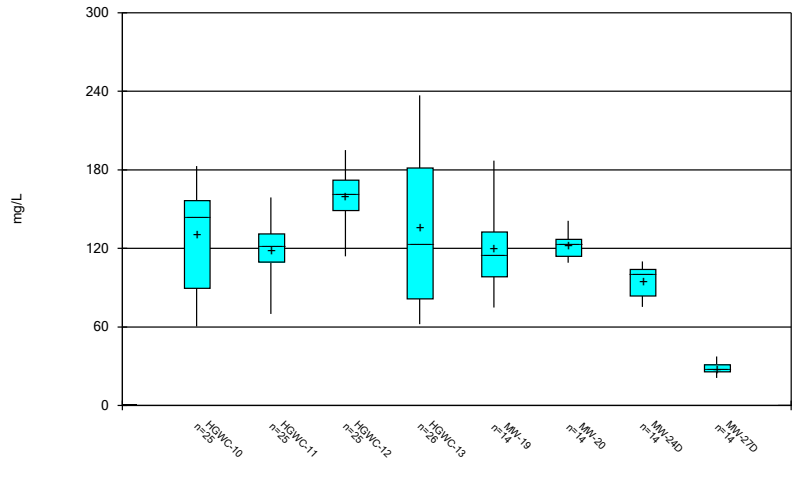
Box & Whiskers Plot



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Plant Hammond Client: Southern Company Data: Hammond AP-1

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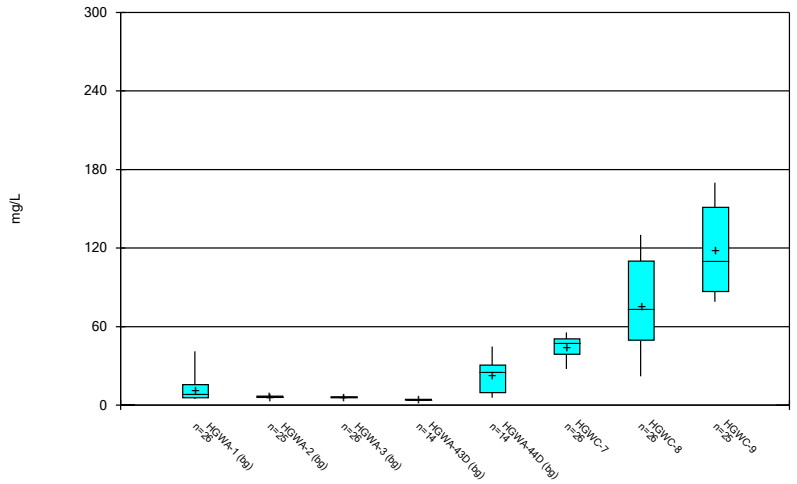
Box & Whiskers Plot



Constituent: Chloride Analysis Run 10/21/2025 3:41 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

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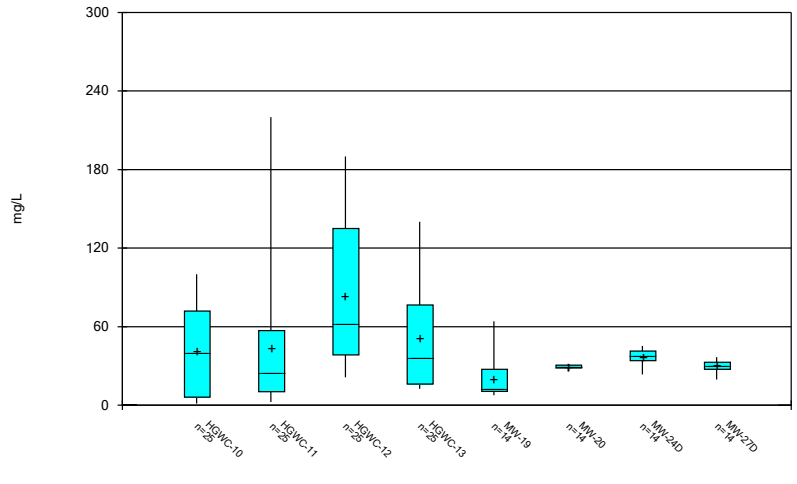
Box & Whiskers Plot



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Plant Hammond Client: Southern Company Data: Hammond AP-1

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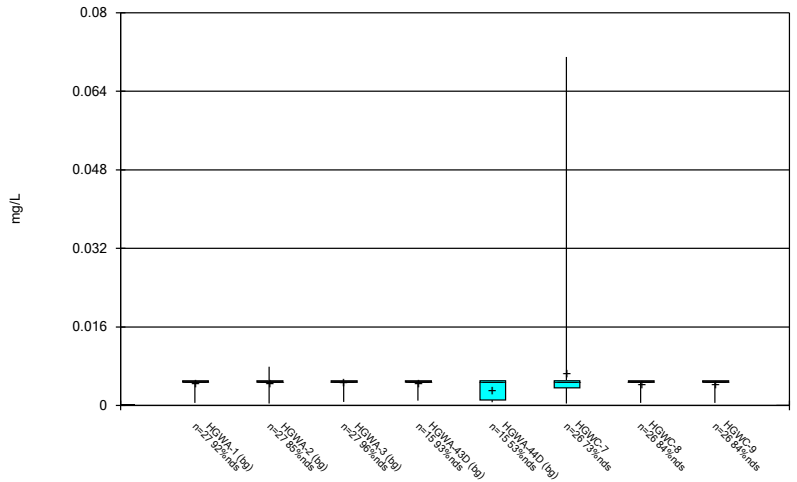
Box & Whiskers Plot



Constituent: Chromium Analysis Run 10/21/2025 3:41 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

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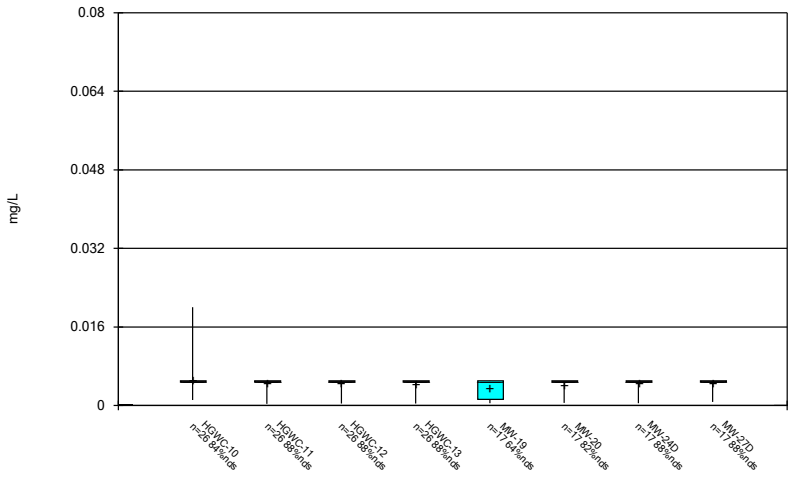
Box & Whiskers Plot



Constituent: Chromium Analysis Run 10/21/2025 3:41 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

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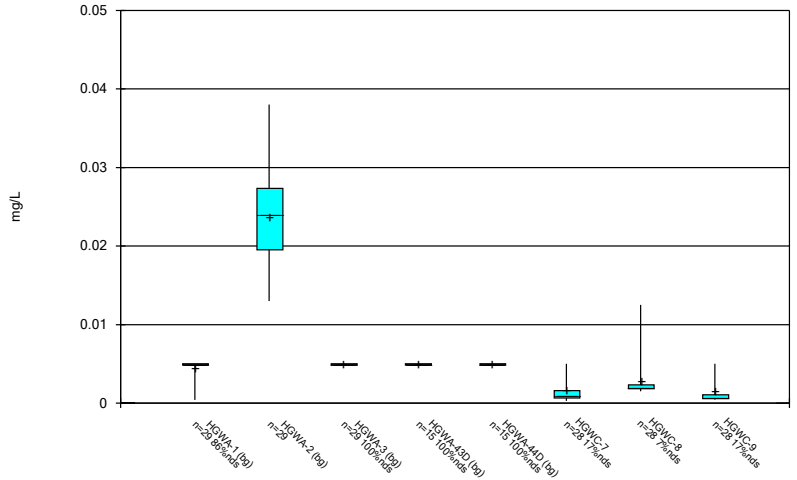
Box & Whiskers Plot



Constituent: Cobalt Analysis Run 10/21/2025 3:41 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

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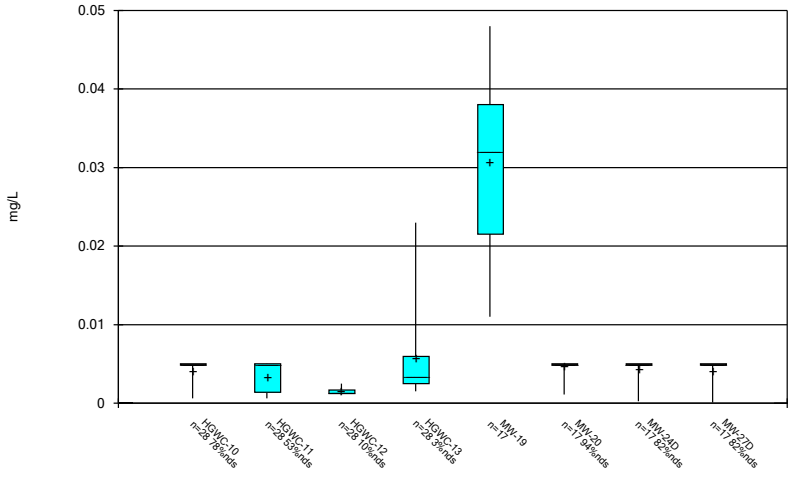
Box & Whiskers Plot



Constituent: Cobalt Analysis Run 10/21/2025 3:41 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

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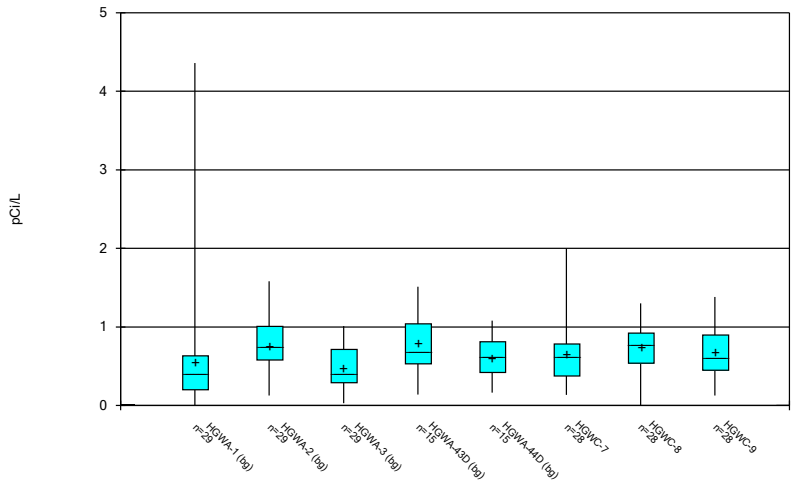
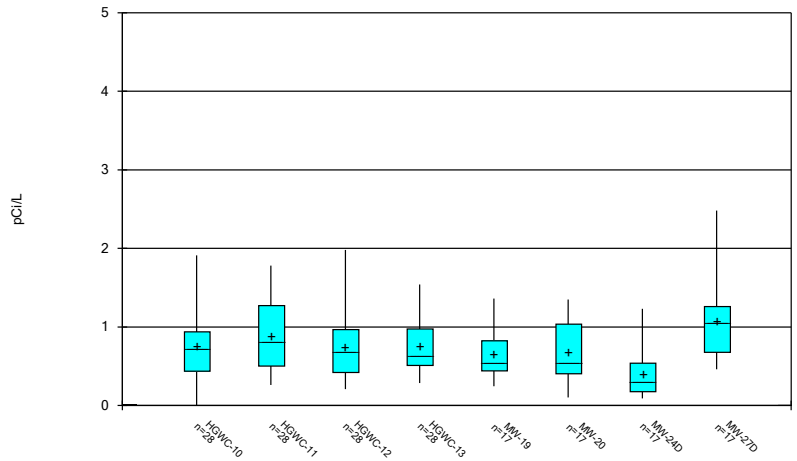
Box & Whiskers Plot



Constituent: Combined Radium 226 + 228 Analysis Run 10/21/2025 3:41 PM View: Time Series & Box Plo
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.1.01 Software licensed to Groundwater Stats Consulting. UG

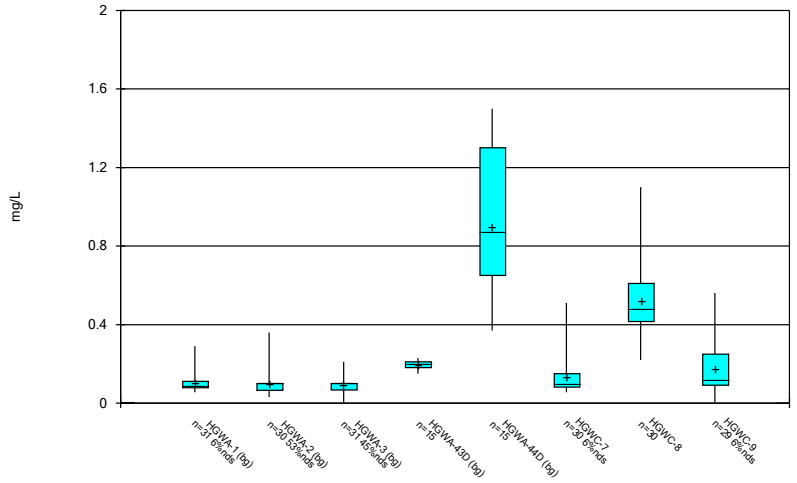
Box & Whiskers Plot



Constituent: Combined Radium 226 + 228 Analysis Run 10/21/2025 3:41 PM View: Time Series & Box Plo
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.1.01 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Fluoride Analysis Run 10/21/2025 3:41 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

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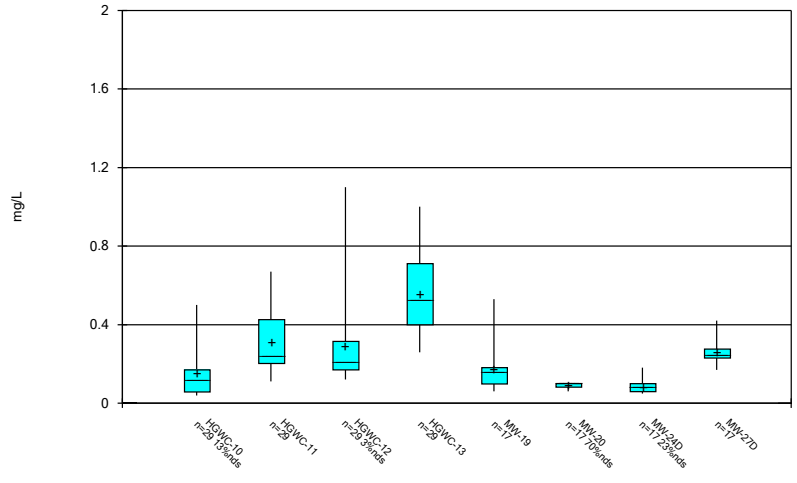
Box & Whiskers Plot



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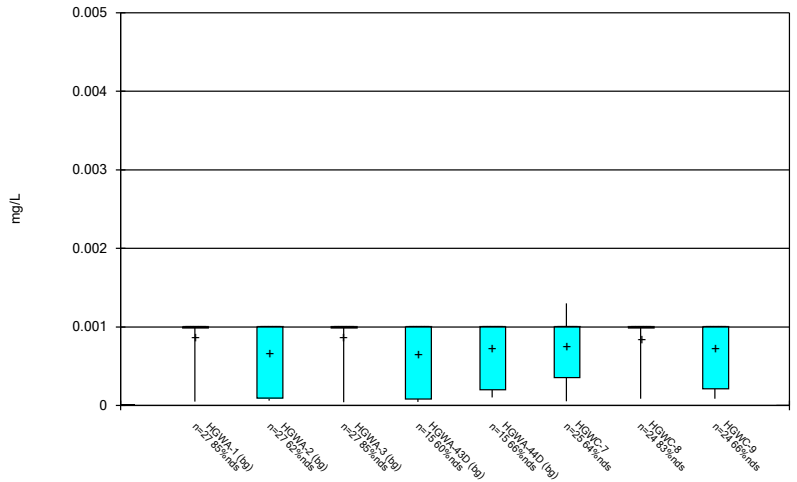
Box & Whiskers Plot



Constituent: Lead Analysis Run 10/21/2025 3:41 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

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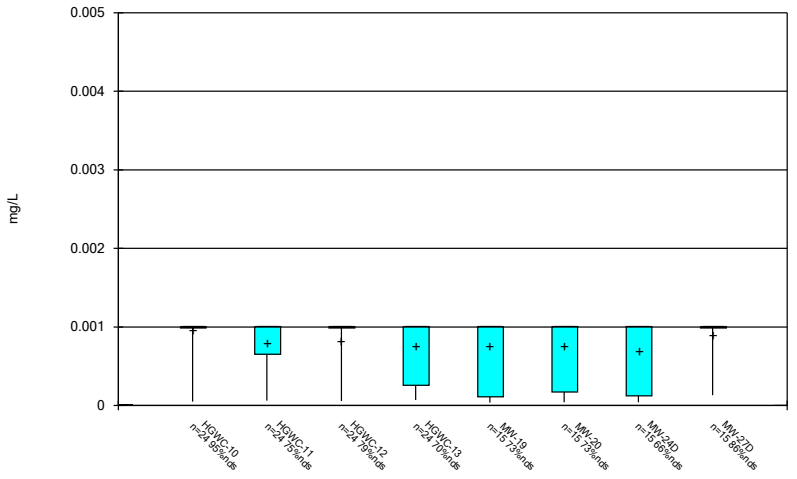
Box & Whiskers Plot



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Plant Hammond Client: Southern Company Data: Hammond AP-1

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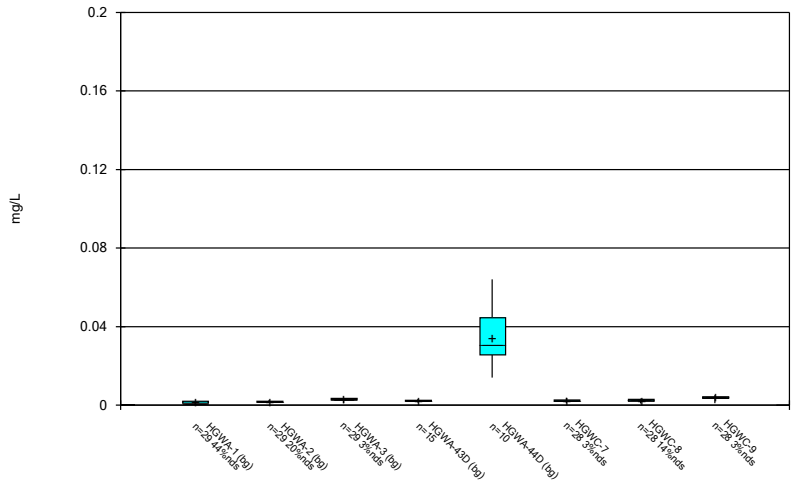
Box & Whiskers Plot



Constituent: Lithium Analysis Run 10/21/2025 3:41 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

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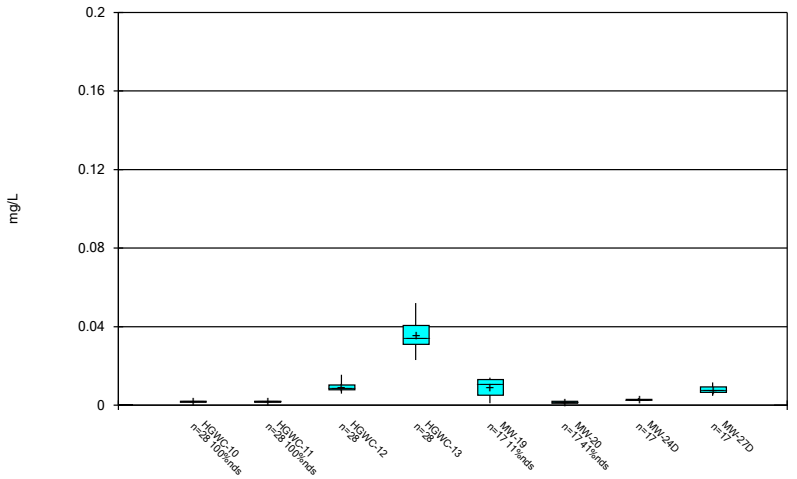
Box & Whiskers Plot



Constituent: Lithium Analysis Run 10/21/2025 3:41 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

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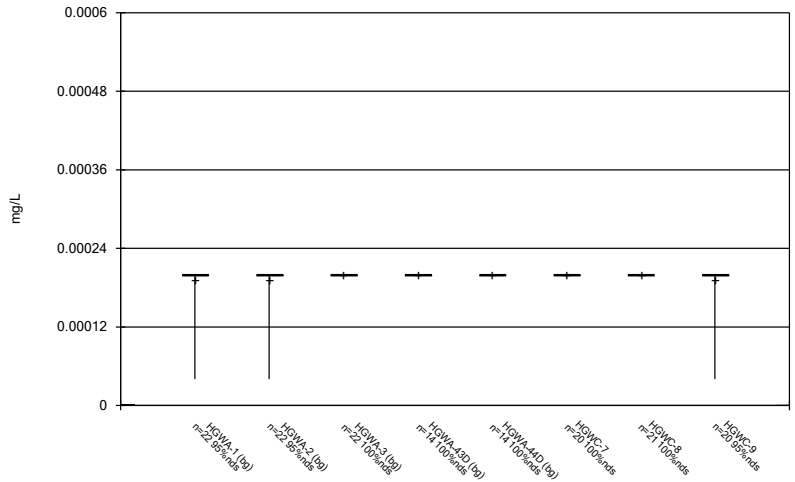
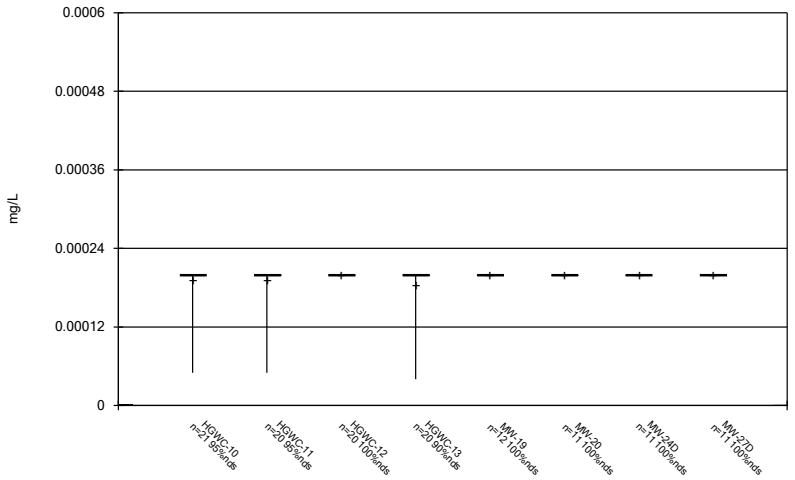
Box & Whiskers Plot



Constituent: Mercury Analysis Run 10/21/2025 3:41 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.1.01 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Mercury Analysis Run 10/21/2025 3:41 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

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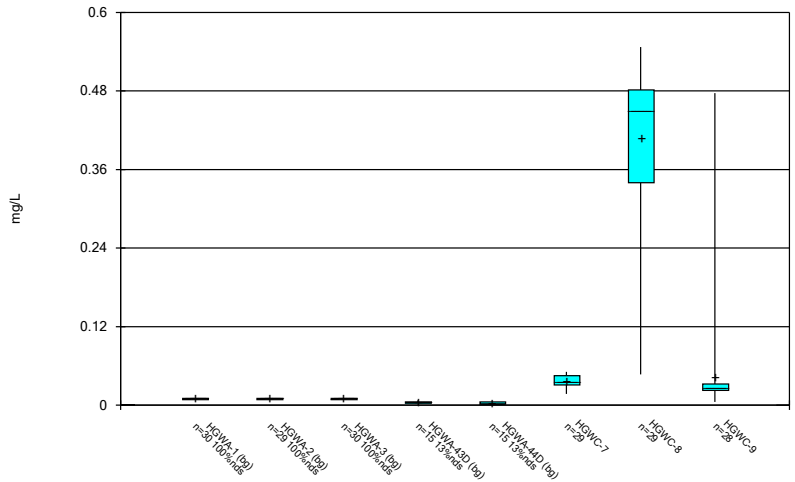
Box & Whiskers Plot



Constituent: Molybdenum Analysis Run 10/21/2025 3:41 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

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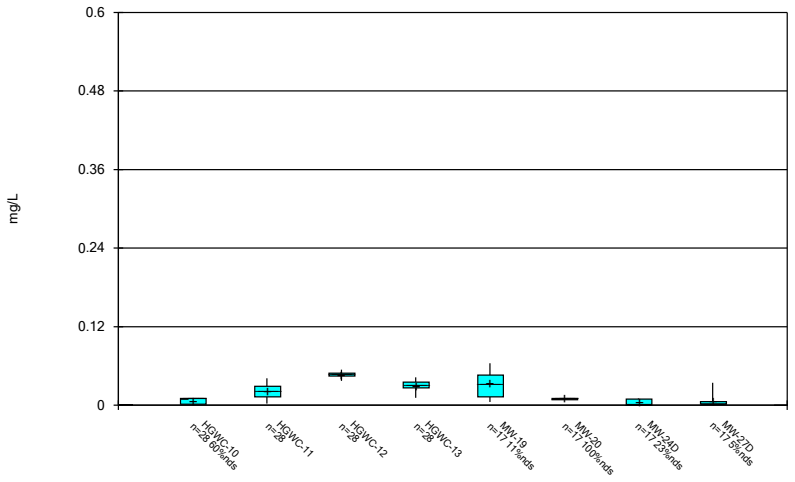
Box & Whiskers Plot



Constituent: Molybdenum Analysis Run 10/21/2025 3:41 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

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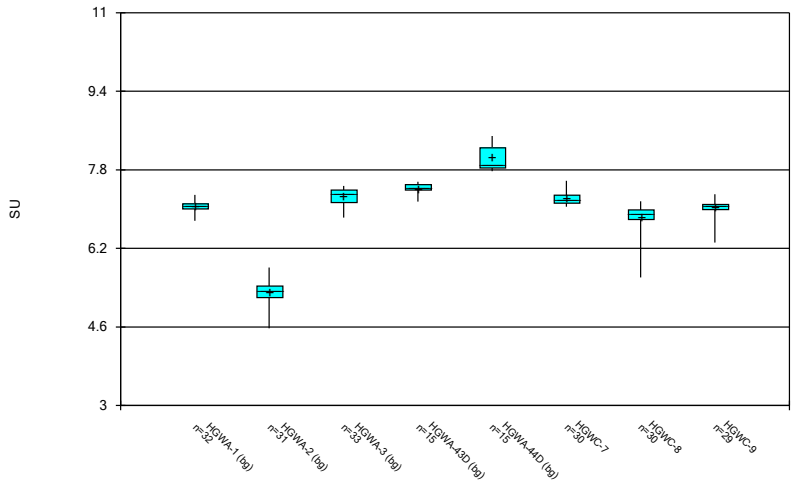
Box & Whiskers Plot



Constituent: pH, Field Analysis Run 10/21/2025 3:41 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

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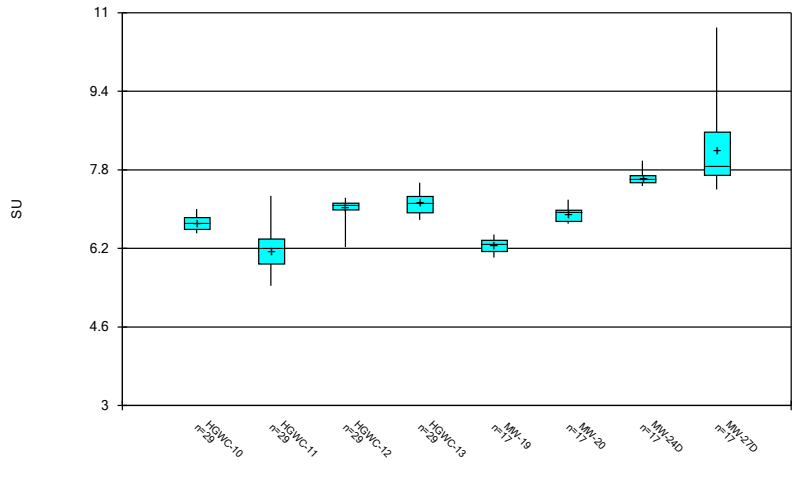
Box & Whiskers Plot



Constituent: pH, Field Analysis Run 10/21/2025 3:41 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

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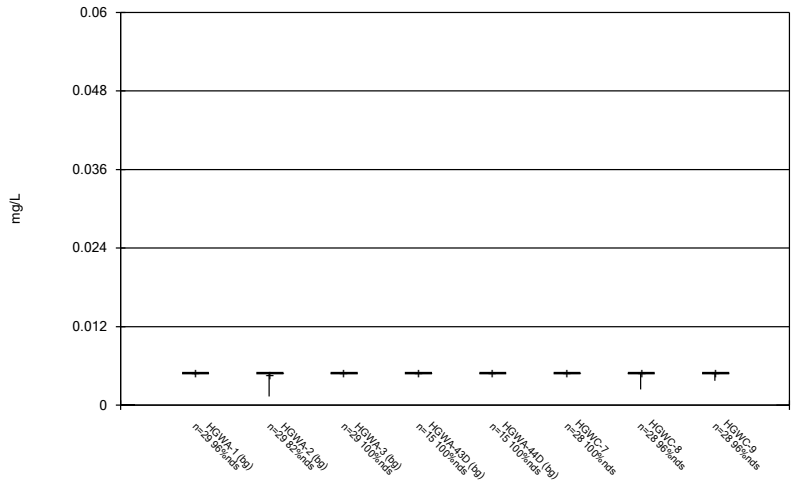
Box & Whiskers Plot



Constituent: Selenium Analysis Run 10/21/2025 3:41 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

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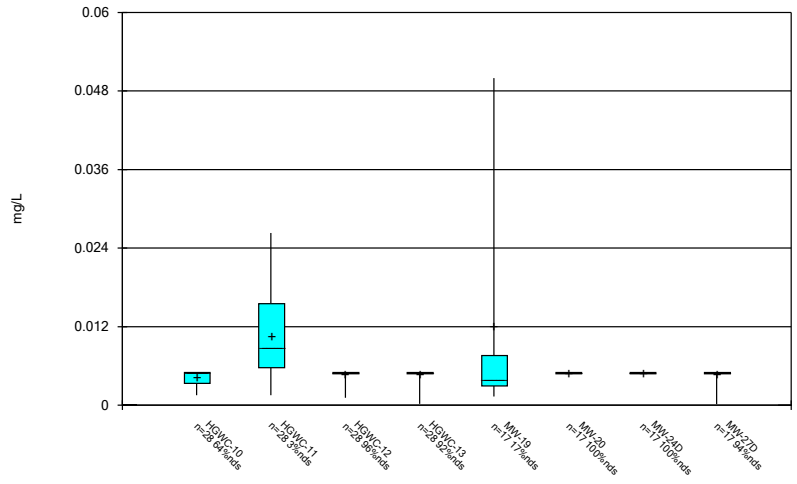
Box & Whiskers Plot



Constituent: Selenium Analysis Run 10/21/2025 3:41 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

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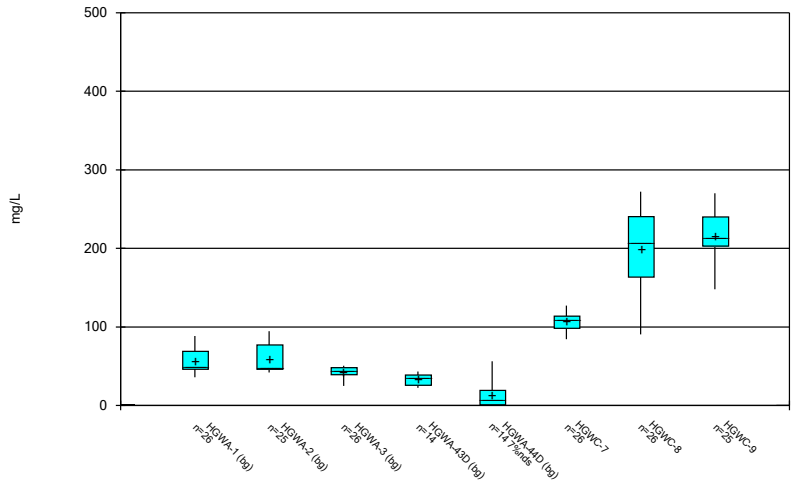
Box & Whiskers Plot



Constituent: Sulfate Analysis Run 10/21/2025 3:41 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

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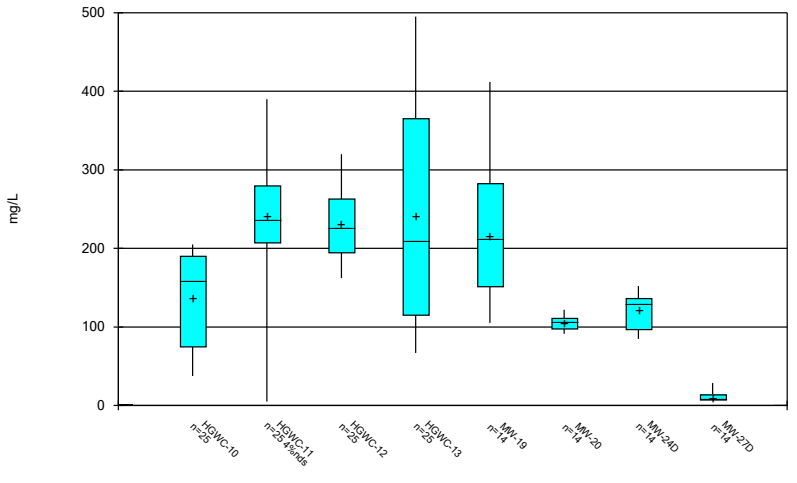
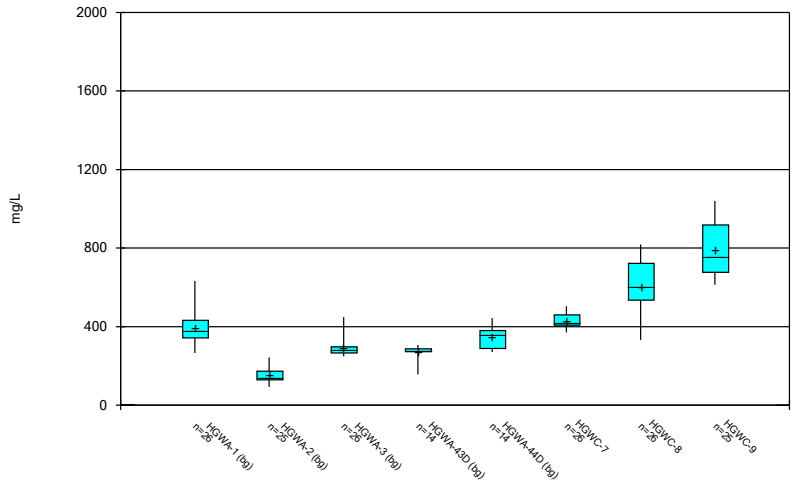
Box & Whiskers Plot



Constituent: Sulfate Analysis Run 10/21/2025 3:41 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.1.01 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: TDS Analysis Run 10/21/2025 3:41 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

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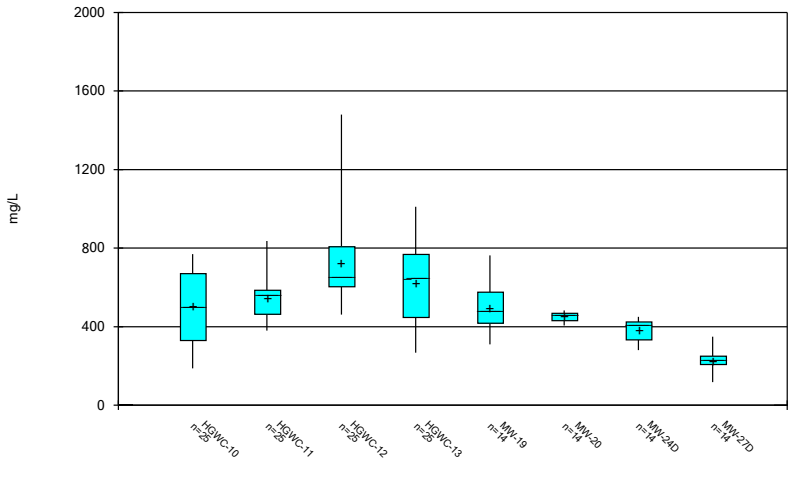
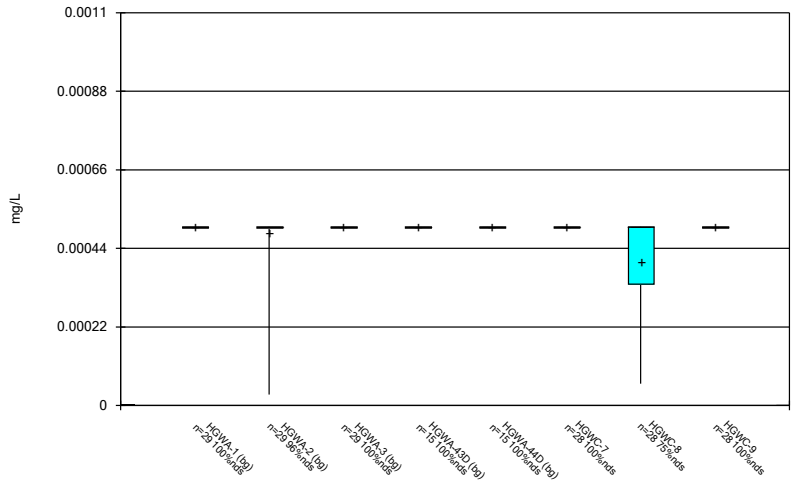
Box & Whiskers Plot



Constituent: TDS Analysis Run 10/21/2025 3:41 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.1.01 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Thallium Analysis Run 10/21/2025 3:41 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

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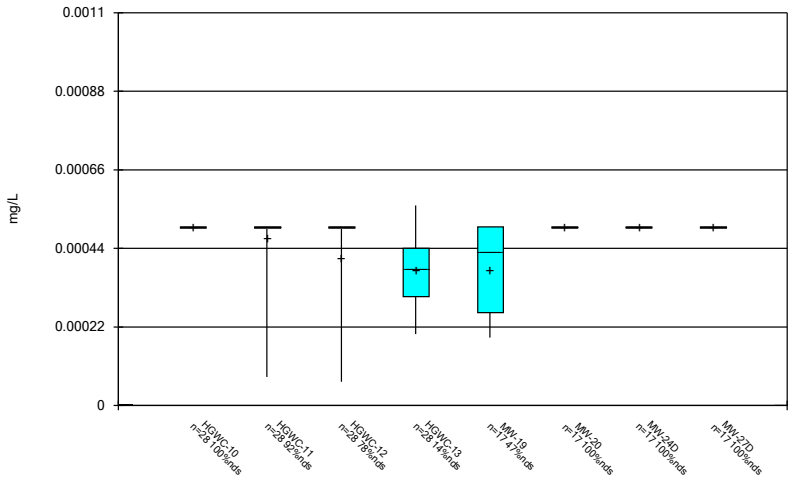
Box & Whiskers Plot



Constituent: Thallium Analysis Run 10/21/2025 3:41 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-1

FIGURE C.

Outlier Summary

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 10/14/2025, 4:18 PM

No values were flagged as outliers.

FIGURE D.

Appendix III - Interwell Prediction Limits - Significant Results

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 10/14/2025, 4:22 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	**HGWC-7**	**0.55**	**n/a**	**8/6/2025**	**0.74**	**Yes**	**105**	**n/a**	**n/a**	**5.714**	**n/a**	**n/a**	**0.0001784**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**HGWC-8**	**0.55**	**n/a**	**8/6/2025**	**1.3**	**Yes**	**105**	**n/a**	**n/a**	**5.714**	**n/a**	**n/a**	**0.0001784**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**HGWC-9**	**0.55**	**n/a**	**8/7/2025**	**2**	**Yes**	**105**	**n/a**	**n/a**	**5.714**	**n/a**	**n/a**	**0.0001784**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**HGWC-12**	**0.55**	**n/a**	**8/6/2025**	**1.1**	**Yes**	**105**	**n/a**	**n/a**	**5.714**	**n/a**	**n/a**	**0.0001784**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**HGWC-13**	**0.55**	**n/a**	**8/10/2025**	**0.77**	**Yes**	**105**	**n/a**	**n/a**	**5.714**	**n/a**	**n/a**	**0.0001784**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**HGWC-9**	**44.8**	**n/a**	**8/7/2025**	**84.4**	**Yes**	**105**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001784**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**HGWC-7**	**94.5**	**n/a**	**8/6/2025**	**97.2**	**Yes**	**105**	**n/a**	**n/a**	**0.9524**	**n/a**	**n/a**	**0.0001784**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**HGWC-9**	**94.5**	**n/a**	**8/7/2025**	**148**	**Yes**	**105**	**n/a**	**n/a**	**0.9524**	**n/a**	**n/a**	**0.0001784**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**HGWC-11**	**94.5**	**n/a**	**8/6/2025**	**182**	**Yes**	**105**	**n/a**	**n/a**	**0.9524**	**n/a**	**n/a**	**0.0001784**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**HGWC-12**	**94.5**	**n/a**	**8/6/2025**	**173**	**Yes**	**105**	**n/a**	**n/a**	**0.9524**	**n/a**	**n/a**	**0.0001784**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**HGWC-13**	**94.5**	**n/a**	**8/10/2025**	**131**	**Yes**	**105**	**n/a**	**n/a**	**0.9524**	**n/a**	**n/a**	**0.0001784**	**NP Inter (normality) 1 of 2**

Appendix III - Interwell Prediction Limits - All Results

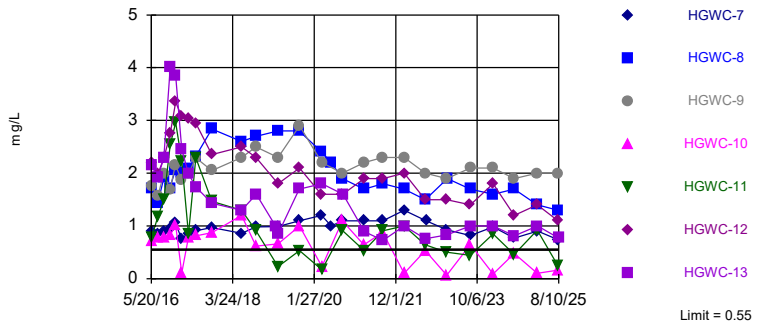
Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 10/14/2025, 4:22 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	**HGWC-7**	**0.55**	**n/a**	**8/6/2025**	**0.74**	**Yes**	**105**	**n/a**	**n/a**	**5.714**	**n/a**	**n/a**	**0.0001784**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**HGWC-8**	**0.55**	**n/a**	**8/6/2025**	**1.3**	**Yes**	**105**	**n/a**	**n/a**	**5.714**	**n/a**	**n/a**	**0.0001784**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**HGWC-9**	**0.55**	**n/a**	**8/7/2025**	**2**	**Yes**	**105**	**n/a**	**n/a**	**5.714**	**n/a**	**n/a**	**0.0001784**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	HGWC-10	0.55	n/a	8/6/2025	0.16	No	105	n/a	n/a	5.714	n/a	n/a	0.0001784	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-11	0.55	n/a	8/6/2025	0.24	No	105	n/a	n/a	5.714	n/a	n/a	0.0001784	NP Inter (normality) 1 of 2
Boron (mg/L)	**HGWC-12**	**0.55**	**n/a**	**8/6/2025**	**1.1**	**Yes**	**105**	**n/a**	**n/a**	**5.714**	**n/a**	**n/a**	**0.0001784**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**HGWC-13**	**0.55**	**n/a**	**8/10/2025**	**0.77**	**Yes**	**105**	**n/a**	**n/a**	**5.714**	**n/a**	**n/a**	**0.0001784**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	HGWC-7	138	n/a	8/6/2025	92.3	No	105	n/a	n/a	0	n/a	n/a	0.0001784	NP Inter (normality) 1 of 2
Calcium (mg/L)	HGWC-8	138	n/a	8/6/2025	57.6	No	105	n/a	n/a	0	n/a	n/a	0.0001784	NP Inter (normality) 1 of 2
Calcium (mg/L)	HGWC-9	138	n/a	8/7/2025	122	No	105	n/a	n/a	0	n/a	n/a	0.0001784	NP Inter (normality) 1 of 2
Calcium (mg/L)	HGWC-10	138	n/a	8/6/2025	70.3	No	105	n/a	n/a	0	n/a	n/a	0.0001784	NP Inter (normality) 1 of 2
Calcium (mg/L)	HGWC-11	138	n/a	8/6/2025	70	No	105	n/a	n/a	0	n/a	n/a	0.0001784	NP Inter (normality) 1 of 2
Calcium (mg/L)	HGWC-12	138	n/a	8/6/2025	130	No	105	n/a	n/a	0	n/a	n/a	0.0001784	NP Inter (normality) 1 of 2
Calcium (mg/L)	HGWC-13	138	n/a	8/10/2025	109	No	105	n/a	n/a	0	n/a	n/a	0.0001784	NP Inter (normality) 1 of 2
Chloride (mg/L)	HGWC-7	44.8	n/a	8/6/2025	27.7	No	105	n/a	n/a	0	n/a	n/a	0.0001784	NP Inter (normality) 1 of 2
Chloride (mg/L)	HGWC-8	44.8	n/a	8/6/2025	21.9	No	105	n/a	n/a	0	n/a	n/a	0.0001784	NP Inter (normality) 1 of 2
Chloride (mg/L)	**HGWC-9**	**44.8**	**n/a**	**8/7/2025**	**84.4**	**Yes**	**105**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0001784**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	HGWC-10	44.8	n/a	8/6/2025	2.1	No	105	n/a	n/a	0	n/a	n/a	0.0001784	NP Inter (normality) 1 of 2
Chloride (mg/L)	HGWC-11	44.8	n/a	8/6/2025	2.5	No	105	n/a	n/a	0	n/a	n/a	0.0001784	NP Inter (normality) 1 of 2
Chloride (mg/L)	HGWC-12	44.8	n/a	8/6/2025	21.3	No	105	n/a	n/a	0	n/a	n/a	0.0001784	NP Inter (normality) 1 of 2
Chloride (mg/L)	HGWC-13	44.8	n/a	8/10/2025	14.8	No	105	n/a	n/a	0	n/a	n/a	0.0001784	NP Inter (normality) 1 of 2
Fluoride (mg/L)	HGWC-7	1.5	n/a	8/6/2025	0.11	No	122	n/a	n/a	26.23	n/a	n/a	0.0001314	NP Inter (normality) 1 of 2
Fluoride (mg/L)	HGWC-8	1.5	n/a	8/6/2025	0.22	No	122	n/a	n/a	26.23	n/a	n/a	0.0001314	NP Inter (normality) 1 of 2
Fluoride (mg/L)	HGWC-9	1.5	n/a	8/7/2025	0.1	No	122	n/a	n/a	26.23	n/a	n/a	0.0001314	NP Inter (normality) 1 of 2
Fluoride (mg/L)	HGWC-10	1.5	n/a	8/6/2025	0.16	No	122	n/a	n/a	26.23	n/a	n/a	0.0001314	NP Inter (normality) 1 of 2
Fluoride (mg/L)	HGWC-11	1.5	n/a	8/6/2025	0.22	No	122	n/a	n/a	26.23	n/a	n/a	0.0001314	NP Inter (normality) 1 of 2
Fluoride (mg/L)	HGWC-12	1.5	n/a	8/6/2025	0.32	No	122	n/a	n/a	26.23	n/a	n/a	0.0001314	NP Inter (normality) 1 of 2
Fluoride (mg/L)	HGWC-13	1.5	n/a	8/10/2025	0.44	No	122	n/a	n/a	26.23	n/a	n/a	0.0001314	NP Inter (normality) 1 of 2
pH, Field (SU)	HGWC-7	8.49	4.57	8/6/2025	7.28	No	126	n/a	n/a	0	n/a	n/a	0.0002486	NP Inter (normality) 1 of 2
pH, Field (SU)	HGWC-8	8.49	4.57	8/6/2025	5.61	No	126	n/a	n/a	0	n/a	n/a	0.0002486	NP Inter (normality) 1 of 2
pH, Field (SU)	HGWC-9	8.49	4.57	8/7/2025	6.32	No	126	n/a	n/a	0	n/a	n/a	0.0002486	NP Inter (normality) 1 of 2
pH, Field (SU)	HGWC-10	8.49	4.57	8/6/2025	6.51	No	126	n/a	n/a	0	n/a	n/a	0.0002486	NP Inter (normality) 1 of 2
pH, Field (SU)	HGWC-11	8.49	4.57	8/6/2025	5.44	No	126	n/a	n/a	0	n/a	n/a	0.0002486	NP Inter (normality) 1 of 2
pH, Field (SU)	HGWC-12	8.49	4.57	8/6/2025	6.98	No	126	n/a	n/a	0	n/a	n/a	0.0002486	NP Inter (normality) 1 of 2
pH, Field (SU)	HGWC-13	8.49	4.57	8/10/2025	6.78	No	126	n/a	n/a	0	n/a	n/a	0.0002486	NP Inter (normality) 1 of 2
Sulfate (mg/L)	**HGWC-7**	**94.5**	**n/a**	**8/6/2025**	**97.2**	**Yes**	**105**	**n/a**	**n/a**	**0.9524**	**n/a**	**n/a**	**0.0001784**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	HGWC-8	94.5	n/a	8/6/2025	90.3	No	105	n/a	n/a	0.9524	n/a	n/a	0.0001784	NP Inter (normality) 1 of 2
Sulfate (mg/L)	**HGWC-9**	**94.5**	**n/a**	**8/7/2025**	**148**	**Yes**	**105**	**n/a**	**n/a**	**0.9524**	**n/a**	**n/a**	**0.0001784**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	HGWC-10	94.5	n/a	8/6/2025	57.2	No	105	n/a	n/a	0.9524	n/a	n/a	0.0001784	NP Inter (normality) 1 of 2
Sulfate (mg/L)	**HGWC-11**	**94.5**	**n/a**	**8/6/2025**	**182**	**Yes**	**105**	**n/a**	**n/a**	**0.9524**	**n/a**	**n/a**	**0.0001784**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**HGWC-12**	**94.5**	**n/a**	**8/6/2025**	**173**	**Yes**	**105**	**n/a**	**n/a**	**0.9524**	**n/a**	**n/a**	**0.0001784**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**HGWC-13**	**94.5**	**n/a**	**8/10/2025**	**131**	**Yes**	**105**	**n/a**	**n/a**	**0.9524**	**n/a**	**n/a**	**0.0001784**	**NP Inter (normality) 1 of 2**
TDS (mg/L)	HGWC-7	632	n/a	8/6/2025	407	No	105	n/a	n/a	0	n/a	n/a	0.0001784	NP Inter (normality) 1 of 2
TDS (mg/L)	HGWC-8	632	n/a	8/6/2025	333	No	105	n/a	n/a	0	n/a	n/a	0.0001784	NP Inter (normality) 1 of 2
TDS (mg/L)	HGWC-9	632	n/a	8/7/2025	613	No	105	n/a	n/a	0	n/a	n/a	0.0001784	NP Inter (normality) 1 of 2
TDS (mg/L)	HGWC-10	632	n/a	8/6/2025	280	No	105	n/a	n/a	0	n/a	n/a	0.0001784	NP Inter (normality) 1 of 2
TDS (mg/L)	HGWC-11	632	n/a	8/6/2025	379	No	105	n/a	n/a	0	n/a	n/a	0.0001784	NP Inter (normality) 1 of 2
TDS (mg/L)	HGWC-12	632	n/a	8/6/2025	581	No	105	n/a	n/a	0	n/a	n/a	0.0001784	NP Inter (normality) 1 of 2
TDS (mg/L)	HGWC-13	632	n/a	8/10/2025	473	No	105	n/a	n/a	0	n/a	n/a	0.0001784	NP Inter (normality) 1 of 2

Exceeds Limit: HGWC-7, HGWC-8, HGWC-9, HGWC-12, HGWC-13

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 105 background values. 5.714% NDs. Annual per-constituent alpha = 0.002495. Individual comparison alpha = 0.0001784 (1 of 2). Comparing 7 points to limit.

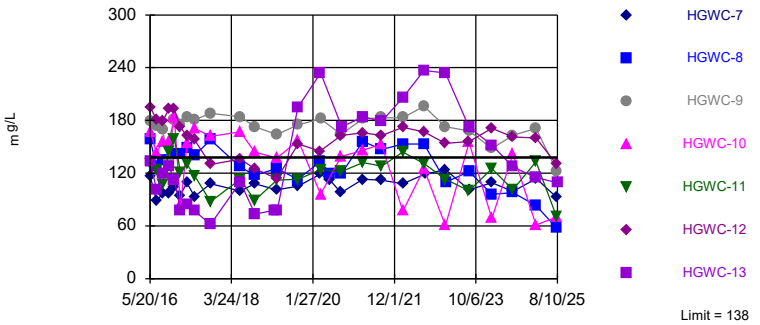
Constituent: Boron Analysis Run 10/14/2025 4:20 PM View: Appendix III
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.1.01 Sanitas software utilized by Groundwater Stats Consulting. UG

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 105 background values. Annual per-constituent alpha = 0.002495. Individual comparison alpha = 0.0001784 (1 of 2). Comparing 7 points to limit.

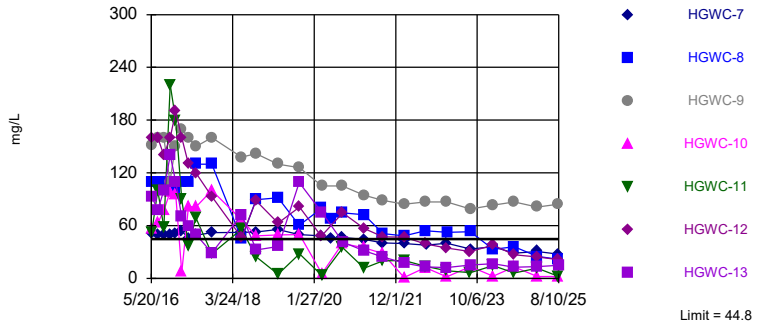
Constituent: Calcium Analysis Run 10/14/2025 4:20 PM View: Appendix III
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.1.01 Sanitas software utilized by Groundwater Stats Consulting. UG

Exceeds Limit: HGWC-9

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 105 background values. Annual per-constituent alpha = 0.002495. Individual comparison alpha = 0.0001784 (1 of 2). Comparing 7 points to limit.

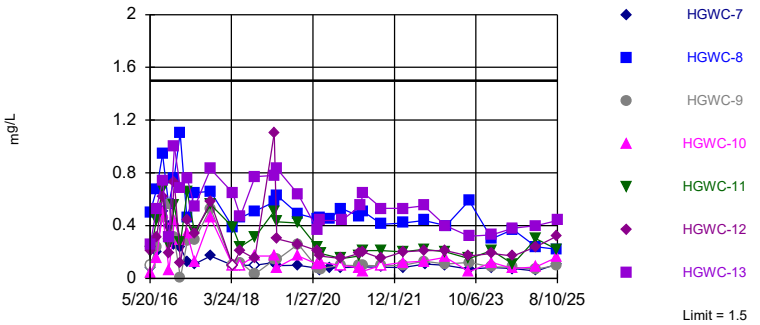
Constituent: Chloride Analysis Run 10/14/2025 4:20 PM View: Appendix III
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.1.01 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 122 background values. 26.23% NDs. Annual per-constituent alpha = 0.001838. Individual comparison alpha = 0.0001314 (1 of 2). Comparing 7 points to limit.

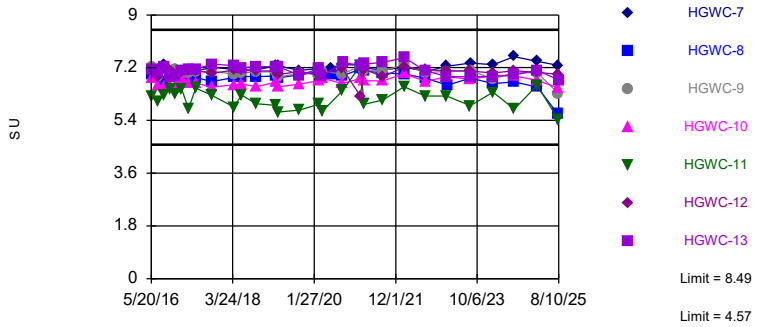
Constituent: Fluoride Analysis Run 10/14/2025 4:20 PM View: Appendix III
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.1.01 Sanitas software utilized by Groundwater Stats Consulting. UG

Within Limits

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 126 background values. Annual per-constituent alpha = 0.003478. Individual comparison alpha = 0.0002486 (1 of 2). Comparing 7 points to limit.

Constituent: pH, Field Analysis Run 10/14/2025 4:20 PM View: Appendix III

Plant Hammond Client: Southern Company Data: Hammond AP-1

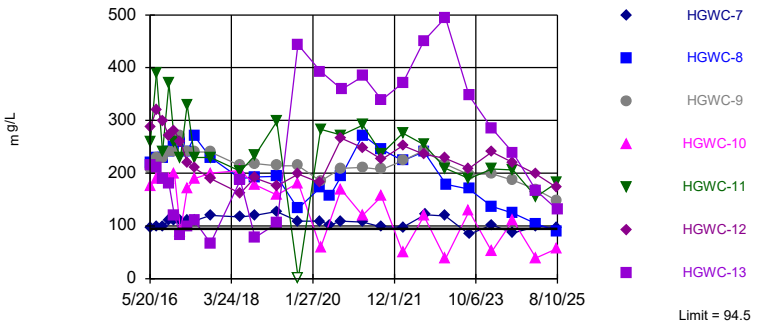
Sanitas™ v.10.1.01 Sanitas software utilized by Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Exceeds Limit: HGWC-7, HGWC-9, HGWC-11, HGWC-12, HGWC-13

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 105 background values. 0.9524% NDs. Annual per-constituent alpha = 0.002495. Individual comparison alpha = 0.0001784 (1 of 2). Comparing 7 points to limit.

Constituent: Sulfate Analysis Run 10/14/2025 4:20 PM View: Appendix III

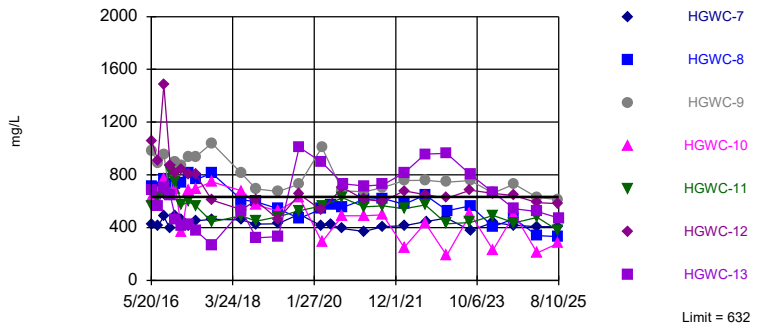
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.1.01 Sanitas software utilized by Groundwater Stats Consulting. UG

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 105 background values. Annual per-constituent alpha = 0.002495. Individual comparison alpha = 0.0001784 (1 of 2). Comparing 7 points to limit.

Constituent: TDS Analysis Run 10/14/2025 4:20 PM View: Appendix III

Plant Hammond Client: Southern Company Data: Hammond AP-1

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 10/14/2025 4:22 PM View: Appendix III

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-3 (bg)	HGWA-2 (bg)	HGWC-8	HGWC-7	HGWC-12	HGWC-11	HGWC-10	HGWC-9
5/19/2016	0.0214 (J)	<0.04	0.0321 (J)						
5/20/2016				1.71	0.885				
5/23/2016						2.2	0.787	0.72	1.76
7/11/2016	0.0142 (J)		0.0337 (J)						
7/12/2016		0.0074 (J)		1.43	0.857	1.98	1.17	0.778	1.56
8/30/2016	0.0074 (J)	<0.04	0.0173 (J)						
9/1/2016				1.91	0.904	2.28	1.49	0.786	2
10/19/2016	0.0224 (J)	0.0085 (J)	0.0341 (J)						
10/20/2016				1.72	0.936				1.68
10/24/2016						2.75	2.54	0.831	
12/6/2016	0.0211 (J)	0.0085 (J)	0.0326 (J)	2.06	1.06				2.15
12/7/2016						3.35	2.96	1.01	
1/24/2017	0.0165 (J)	0.01 (J)	0.0365 (J)						
1/25/2017				2.01	0.764				
1/26/2017						3.07	2.23	0.108	1.87
3/21/2017	0.0187 (J)	0.0079 (J)	0.0349 (J)	2.08	0.857				
3/22/2017						3.04	0.84	0.788	1.99
5/22/2017	0.0782	0.0131 (J)	0.0475						
5/23/2017				2.32	0.91				2.29
5/24/2017						2.95	2.29	0.814	
10/3/2017	0.0198 (J)	0.0097 (J)	0.0386 (J)	2.84	0.967	2.35	1.47	0.871	2.05
6/4/2018	0.02 (J)	0.017 (J)	0.036 (J)						
6/5/2018					0.86		1.3	1.2	
6/6/2018				2.6		2.5			2.3
10/1/2018	0.013 (J)	0.0061 (J)	0.035 (J)						
10/2/2018				2.7	0.98			0.62	2.5
10/3/2018						2.3	0.91		
10/5/2018									
3/13/2019									
4/1/2019		0.0066 (J)							
4/2/2019	0.016 (J)		0.034 (J)		0.99				
4/3/2019				2.8		1.8	0.23	0.66	2.3
4/5/2019									
9/23/2019	0.021 (J)	0.0081 (J)	0.04 (J)						
9/24/2019				2.8					
9/25/2019					1.1				
9/26/2019									
9/27/2019						2.1	0.53	1	2.9
3/25/2020	0.025 (J)	0.0096 (J)	0.039 (J)						
3/26/2020						1.6			
3/27/2020				2.4	1.2				
3/30/2020									
3/31/2020							0.17		2.2
4/1/2020								0.23	
6/16/2020	0.021 (J)	0.01 (J)		2.2					
6/17/2020					1				
9/15/2020	0.017 (J)	0.0071 (J)	0.044 (J)						
9/16/2020				1.9	1.1			1.1	
9/17/2020									2
9/18/2020						1.6	0.91		
9/21/2020									
11/10/2020									

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 10/14/2025 4:22 PM View: Appendix III

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-3 (bg)	HGWA-2 (bg)	HGWC-8	HGWC-7	HGWC-12	HGWC-11	HGWC-10	HGWC-9
12/15/2020									
1/19/2021									
3/10/2021	0.015 (J)								
3/11/2021		0.015 (J)	0.056						
3/12/2021								0.64	
3/15/2021				1.7	1.1				
3/16/2021						1.9	0.53		2.2
3/17/2021									
8/11/2021	0.02 (J)								
8/12/2021		<0.04	0.044						
8/13/2021									
8/16/2021					1.1				
8/17/2021								0.88	2.3
8/18/2021				1.8		1.9	0.91		
8/19/2021									
2/1/2022	0.016 (J)	0.011 (J)	0.056						
2/9/2022						2	1	0.1	2.3
2/10/2022				1.7	1.3				
8/2/2022	0.012 (J)	<0.04	0.047						
8/3/2022				1.5		1.5	0.64	0.53	
8/4/2022									2
8/11/2022					1.1				
1/23/2023		0.012 (J)							
1/24/2023	0.015 (J)		0.046						
1/26/2023						1.5	0.5		1.9
1/27/2023					0.93			0.065	
2/1/2023				1.9					
8/8/2023	0.023 (J)	0.011 (J)	0.06						
8/10/2023						1.4	0.44	0.65	
8/11/2023									2.1
8/12/2023				1.7	0.82				
2/13/2024	0.02 (J)	<0.04	0.051						
2/14/2024				1.6	0.98				
2/15/2024						1.8	0.85	0.089	2.1
2/16/2024									
8/5/2024	0.02 (J)	<0.04	0.057						
8/6/2024									
8/7/2024				1.7	0.77	1.2	0.46	0.48	1.9
8/8/2024									
2/12/2025	0.021 (J)	0.011 (J)							
2/13/2025						1.4	0.92		
2/14/2025			0.053					0.1	
2/15/2025				1.4 (M1)					2
2/16/2025					0.9				
2/17/2025									
8/5/2025	0.019 (J)	0.009 (J)	0.044						
8/6/2025				1.3	0.74	1.1	0.24	0.16	
8/7/2025									2
8/10/2025									

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 10/14/2025 4:22 PM View: Appendix III

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-13	HGWA-44D (bg)	HGWA-43D (bg)
5/19/2016			
5/20/2016			
5/23/2016	2.15		
7/11/2016			
7/12/2016	1.91		
8/30/2016			
9/1/2016	2.3		
10/19/2016			
10/20/2016			
10/24/2016	4.01		
12/6/2016			
12/7/2016	3.85		
1/24/2017			
1/25/2017			
1/26/2017	2.45		
3/21/2017			
3/22/2017	1.99		
5/22/2017			
5/23/2017			
5/24/2017	1.74		
10/3/2017	1.43		
6/4/2018			
6/5/2018	1.3		
6/6/2018			
10/1/2018			
10/2/2018			
10/3/2018			
10/5/2018	1.6		
3/13/2019	1		
4/1/2019			
4/2/2019			
4/3/2019			
4/5/2019	0.86 (J)		
9/23/2019			
9/24/2019			
9/25/2019			
9/26/2019	1.7		
9/27/2019			
3/25/2020			
3/26/2020			
3/27/2020			
3/30/2020	1.8		
3/31/2020			
4/1/2020			
6/16/2020			
6/17/2020			
9/15/2020			
9/16/2020		0.23	0.061 (J)
9/17/2020			
9/18/2020			
9/21/2020	1.6		
11/10/2020		0.29	0.057 (J)

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 10/14/2025 4:22 PM View: Appendix III

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-13	HGWA-44D (bg)	HGWA-43D (bg)
12/15/2020		0.31	0.052 (J)
1/19/2021		0.4	0.049 (J)
3/10/2021		0.39	
3/11/2021			0.06
3/12/2021			
3/15/2021			
3/16/2021			
3/17/2021	0.89		
8/11/2021			0.042
8/12/2021			
8/13/2021		0.31	
8/16/2021			
8/17/2021			
8/18/2021			
8/19/2021	0.73		
2/1/2022		0.44	0.05
2/9/2022			
2/10/2022	1		
8/2/2022		0.31	0.043
8/3/2022	0.76		
8/4/2022			
8/11/2022			
1/23/2023			
1/24/2023		0.44	0.037 (J)
1/26/2023	0.83		
1/27/2023			
2/1/2023			
8/8/2023		0.55	0.038 (J)
8/10/2023			
8/11/2023			
8/12/2023	1		
2/13/2024		0.49	0.037 (J)
2/14/2024			
2/15/2024			
2/16/2024	1		
8/5/2024			
8/6/2024		0.52	0.043
8/7/2024			
8/8/2024	0.81		
2/12/2025		0.54	0.04 (J)
2/13/2025			
2/14/2025			
2/15/2025			
2/16/2025			
2/17/2025	1		
8/5/2025		0.45	0.039 (J)
8/6/2025			
8/7/2025			
8/10/2025	0.77		

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 10/14/2025 4:22 PM View: Appendix III

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-3 (bg)	HGWA-2 (bg)	HGWC-8	HGWC-7	HGWC-12	HGWC-11	HGWC-10	HGWC-9
5/19/2016	138	76.2	22.9						
5/20/2016				159	117				
5/23/2016						195	131	167	179
7/11/2016	97.2		22.3						
7/12/2016		61.5		127	88.8	181	124	143	174
8/30/2016	97.5	65.1	26.4						
9/1/2016				135	96.3	179	107	156	170
10/19/2016	99.2	73.2	21.7						
10/20/2016				134	96.9				133
10/24/2016						193	145	156	
12/6/2016	105	74.9	18.2	142	104				181
12/7/2016						193	159	183	
1/24/2017	95.7	69.6	18.5						
1/25/2017				142	94.5				
1/26/2017						172	121	82.6	175
3/21/2017	106	75.7	18.6	148	109				
3/22/2017						162	130	154	183
5/22/2017	107	71.5	17.8						
5/23/2017				140	93.3				181
5/24/2017						158	117	171	
10/3/2017	102	76.3	20.2	158	108	130	87.7	162	188
6/4/2018	124	73.4	19.1						
6/5/2018					99.8		113	167	
6/6/2018				127		136			184
10/1/2018	108	80.9	20.5 (J)						
10/2/2018				118	108			144	173
10/3/2018						125	89		
10/5/2018									
3/13/2019									
4/1/2019		80.5							
4/2/2019	132		22.5 (J)		101				
4/3/2019				125		114	112	137	164
4/5/2019									
9/23/2019	118	71	19.5						
9/24/2019				113					
9/25/2019					105				
9/26/2019									
9/27/2019						153	113	157	175
3/25/2020	127	89.8	23						
3/26/2020						145			
3/27/2020				133	119				
3/30/2020									
3/31/2020							124		182
4/1/2020								96.2	
6/16/2020	130	85.1		120					
6/17/2020					112				
9/15/2020	103	73.1	21.1						
9/16/2020				119	98			139	
9/17/2020									164
9/18/2020						163	122		
9/21/2020									
11/10/2020									

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 10/14/2025 4:22 PM View: Appendix III

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-3 (bg)	HGWA-2 (bg)	HGWC-8	HGWC-7	HGWC-12	HGWC-11	HGWC-10	HGWC-9
12/15/2020									
1/19/2021									
3/10/2021	111								
3/11/2021		83.8	43.8						
3/12/2021								146	
3/15/2021				156	113				
3/16/2021						166	132		182
3/17/2021									
8/11/2021	113								
8/12/2021		84	21.9						
8/13/2021									
8/16/2021					112				
8/17/2021								153	183
8/18/2021				147		163	128		
8/19/2021									
2/1/2022	106	85.1	27.2						
2/9/2022						172	144	76.8	183
2/10/2022				153	108				
8/2/2022	117	84.6	31.2						
8/3/2022				153		167	131	125	
8/4/2022									196
8/11/2022					119				
1/23/2023		85							
1/24/2023	117		29.4						
1/26/2023						154	113		173
1/27/2023					124			60.4	
2/1/2023				110					
8/8/2023	118	78.3	30.7						
8/10/2023						156	100	155	
8/11/2023									168
8/12/2023				122	101				
2/13/2024	116	83.6	38.8						
2/14/2024				96.2	109				
2/15/2024						171	125	68.4	148
2/16/2024									
8/5/2024	113	83.3	34.7						
8/6/2024									
8/7/2024				97.7	99.2	161	101	142	163
8/8/2024									
2/12/2025	125	86.6							
2/13/2025						160	133		
2/14/2025			51.5					61	
2/15/2025				83.3 (M1)					171
2/16/2025					114				
2/17/2025									
8/5/2025	113	72.6	24.1						
8/6/2025				57.6	92.3	130	70	70.3	
8/7/2025									122
8/10/2025									

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 10/14/2025 4:22 PM View: Appendix III

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-13	HGWA-44D (bg)	HGWA-43D (bg)
5/19/2016			
5/20/2016			
5/23/2016	133		
7/11/2016			
7/12/2016	101		
8/30/2016			
9/1/2016	120		
10/19/2016			
10/20/2016			
10/24/2016	127		
12/6/2016			
12/7/2016	113		
1/24/2017			
1/25/2017			
1/26/2017	77.9		
3/21/2017			
3/22/2017	85.1		
5/22/2017			
5/23/2017			
5/24/2017	77.1		
10/3/2017	62		
6/4/2018			
6/5/2018	110		
6/6/2018			
10/1/2018			
10/2/2018			
10/3/2018			
10/5/2018	73.6		
3/13/2019	77.7		
4/1/2019			
4/2/2019			
4/3/2019			
4/5/2019	77.1		
9/23/2019			
9/24/2019			
9/25/2019			
9/26/2019	195		
9/27/2019			
3/25/2020			
3/26/2020			
3/27/2020			
3/30/2020	234		
3/31/2020			
4/1/2020			
6/16/2020			
6/17/2020			
9/15/2020			
9/16/2020		30	56
9/17/2020			
9/18/2020			
9/21/2020	173		
11/10/2020		33.6	63.3

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 10/14/2025 4:22 PM View: Appendix III

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-13	HGWA-44D (bg)	HGWA-43D (bg)
12/15/2020		28.7	62.6
1/19/2021		33	60.1
3/10/2021		12.1 (D)	
3/11/2021			59.6
3/12/2021			
3/15/2021			
3/16/2021			
3/17/2021	184		
8/11/2021			61
8/12/2021			
8/13/2021		28.9	
8/16/2021			
8/17/2021			
8/18/2021			
8/19/2021	179		
2/1/2022		24.8	55.9
2/9/2022			
2/10/2022	206		
8/2/2022		20.9	54.1
8/3/2022	237		
8/4/2022			
8/11/2022			
1/23/2023			
1/24/2023		13.2	56.6
1/26/2023	234		
1/27/2023			
2/1/2023			
8/8/2023		8.1	52.8
8/10/2023			
8/11/2023			
8/12/2023	172		
2/13/2024		9.9	53.3
2/14/2024			
2/15/2024			
2/16/2024	152		
8/5/2024			
8/6/2024		7.1	57.2
8/7/2024			
8/8/2024	127		
2/12/2025		7.2	61.8
2/13/2025			
2/14/2025			
2/15/2025			
2/16/2025			
2/17/2025	115		
8/5/2025		6	55.2
8/6/2025			
8/7/2025			
8/10/2025	109		

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 10/14/2025 4:22 PM View: Appendix III

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-3 (bg)	HGWA-2 (bg)	HGWC-8	HGWC-7	HGWC-11	HGWC-13	HGWC-12	HGWC-9
5/19/2016	9.94	5.93	6.14						
5/20/2016				109	50.4				
5/23/2016						51.9	93.2	160	152
7/11/2016	6.3		5.9						
7/12/2016		6.2		110	50	100	78	160	160
8/30/2016	6	6.4	6.2						
9/1/2016				110	50	58	100	140	160
10/19/2016	5.8	6.5	6.1						
10/20/2016				110	49				110
10/24/2016						220	140	160	
12/6/2016	5.4	7.2	6	100	51				150
12/7/2016						180	110	190	
1/24/2017	5.2	6.4	6.1						
1/25/2017				110	54				
1/26/2017						90	70	160	170
3/21/2017	4.6	7.5	5.9	110	46				
3/22/2017						37	59	130	160
5/22/2017	4.6	6.5	5.9						
5/23/2017				130	49				150
5/24/2017						69	50	120	
10/3/2017	5.6	6.5	6.3	130	52	28	29	93	160
6/4/2018	13.1	6.3	6.1						
6/5/2018					52.3	56.1	72.3		
6/6/2018				44.8				46.4	138
10/1/2018	6.6	6.4	6.4						
10/2/2018				89.4	52.6				142
10/3/2018						24.8		88.4	
10/5/2018							32.3		
4/1/2019		6.5							
4/2/2019	20.3		5.8		55.5				
4/3/2019				91.6		4.6		62.8	130
4/5/2019							36.4		
9/23/2019	17.7	5.9	5.1						
9/24/2019				60.2					
9/25/2019					49.8				
9/26/2019							109		
9/27/2019						27.9		81	126
3/25/2020	20.4	6.1	5.2						
3/26/2020								48	
3/27/2020				79.8	48.3				
3/30/2020							75.1		
3/31/2020						3.2			105
4/1/2020									
6/16/2020	41.1	5.8		67.9					
6/17/2020					45.2				
9/15/2020	13.4	6	5						
9/16/2020				74.6	46.4				
9/17/2020									105
9/18/2020						34.9		74.6	
9/21/2020							41.2		
11/10/2020									
12/15/2020									

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 10/14/2025 4:22 PM View: Appendix III

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-3 (bg)	HGWA-2 (bg)	HGWC-8	HGWC-7	HGWC-11	HGWC-13	HGWC-12	HGWC-9
1/19/2021									
3/10/2021	7.4								
3/11/2021		5.9	5.1						
3/12/2021									
3/15/2021				72.4	44.5				
3/16/2021						11.5		56.8	94.7
3/17/2021							31.4		
8/11/2021	9.6								
8/12/2021		4.8	5.2						
8/13/2021									
8/16/2021					40.3				
8/17/2021									88.6
8/18/2021				50.9		19.9		47.3	
8/19/2021							24.4		
2/1/2022	7.5	5.7	7						
2/9/2022						20.4		46.8	84.4
2/10/2022				48.2	39.8		17.4		
8/2/2022	14.1	5.9	7.8						
8/3/2022				54.1		13.8	13	39.2	
8/4/2022									86.8
8/11/2022					37.7				
1/23/2023		5.6							
1/24/2023	9		7.1						
1/26/2023						8.8	12.5	34.6	86.9
1/27/2023					40				
2/1/2023				52.4					
8/8/2023	26	5.3	6.6						
8/10/2023						6.5		30.6	
8/11/2023									78.9
8/12/2023				53.1	33.3		15.3		
2/13/2024	10	5.3	6.3						
2/14/2024				32.9	35.8				
2/15/2024						14.5		37.7	83.2
2/16/2024							16.7		
8/5/2024	8.7	5.2	7.9						
8/6/2024									
8/7/2024				36.1	28.6	6.3		26.7	87.1
8/8/2024							12.8		
2/12/2025	4.8	5							
2/13/2025						11.7		24.3	
2/14/2025			8.5						
2/15/2025				25					81.2
2/16/2025					30.7				
2/17/2025							13.5		
8/5/2025	17.2	5.5	9.6						
8/6/2025				21.9	27.7	2.5		21.3	
8/7/2025									84.4
8/10/2025							14.8		

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 10/14/2025 4:22 PM View: Appendix III

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-10	HGWA-43D (bg)	HGWA-44D (bg)
5/19/2016			
5/20/2016			
5/23/2016	56.1		
7/11/2016			
7/12/2016	63		
8/30/2016			
9/1/2016	77		
10/19/2016			
10/20/2016			
10/24/2016	99		
12/6/2016			
12/7/2016	96		
1/24/2017			
1/25/2017			
1/26/2017	7		
3/21/2017			
3/22/2017	82		
5/22/2017			
5/23/2017			
5/24/2017	81		
10/3/2017	100		
6/4/2018			
6/5/2018	66.6		
6/6/2018			
10/1/2018			
10/2/2018	48.3		
10/3/2018			
10/5/2018			
4/1/2019			
4/2/2019			
4/3/2019	49.3		
4/5/2019			
9/23/2019			
9/24/2019			
9/25/2019			
9/26/2019			
9/27/2019	49.9		
3/25/2020			
3/26/2020			
3/27/2020			
3/30/2020			
3/31/2020			
4/1/2020	5.4		
6/16/2020			
6/17/2020			
9/15/2020			
9/16/2020	39.7	4.1	5.65 (D)
9/17/2020			
9/18/2020			
9/21/2020			
11/10/2020		4.4	7.8
12/15/2020		4.7	9.4

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 10/14/2025 4:22 PM View: Appendix III

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-10	HGWA-43D (bg)	HGWA-44D (bg)
1/19/2021		4.1	9.5
3/10/2021			12.3
3/11/2021		4.5	
3/12/2021	35		
3/15/2021			
3/16/2021			
3/17/2021			
8/11/2021		3.5	
8/12/2021			
8/13/2021			39.9
8/16/2021			
8/17/2021	28.3		
8/18/2021			
8/19/2021			
2/1/2022		4.1	44.8
2/9/2022	1.2		
2/10/2022			
8/2/2022		4.3	19.8
8/3/2022	12.3		
8/4/2022			
8/11/2022			
1/23/2023			
1/24/2023		4.3	24.9
1/26/2023			
1/27/2023	1.6		
2/1/2023			
8/8/2023		3.5	27
8/10/2023	13.4		
8/11/2023			
8/12/2023			
2/13/2024		3.9	27.7
2/14/2024			
2/15/2024	2.6		
2/16/2024			
8/5/2024			
8/6/2024		4	30.2
8/7/2024	12.9		
8/8/2024			
2/12/2025		3.8	30.7
2/13/2025			
2/14/2025	2.1		
2/15/2025			
2/16/2025			
2/17/2025			
8/5/2025		4	29.7
8/6/2025	2.1		
8/7/2025			
8/10/2025			

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 10/14/2025 4:22 PM View: Appendix III

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-3 (bg)	HGWA-2 (bg)	HGWC-8	HGWC-7	HGWC-10	HGWC-13	HGWC-9	HGWC-12
5/19/2016	0.105 (J)	0.0513 (J)	0.0303 (J)						
5/20/2016				0.499	0.0828 (J)				
5/23/2016						0.0394 (J)	0.2587 (J)	<0.1	0.212 (J)
7/11/2016	0.16 (J)		0.05 (J)						
7/12/2016		0.12 (J)		0.67	0.2 (J)	0.15 (J)	0.53	0.24 (J)	0.31
8/30/2016	0.09 (J)	0.09 (J)	0.06 (J)						
9/1/2016				0.94	0.51	0.5	0.74	0.46	0.62
10/19/2016	0.1 (J)	0.1 (J)	0.04 (J)						
10/20/2016				0.56	0.4			0.56	
10/24/2016						0.06 (J)	0.31		0.19 (J)
12/6/2016	0.11 (J)	0.21 (J)	0.36	0.76	0.26 (J)			0.31	
12/7/2016						0.44	1		0.73
1/24/2017	0.09 (J)	0.06 (J)	<0.1						
1/25/2017				1.1	0.24 (J)				
1/26/2017						0.29 (J)	0.68	0.004 (J)	0.12 (J)
3/21/2017	0.13 (J)	0.005 (J)	<0.1	0.46	0.13 (J)				
3/22/2017						0.34	0.76	0.28 (J)	0.44
5/22/2017	0.12 (J)	0.05 (J)	<0.1						
5/23/2017				0.65	0.11 (J)			0.29 (J)	
5/24/2017						0.13 (J)	0.54		0.34
10/3/2017	0.13 (J)	0.13 (J)	<0.1	0.66	0.17 (J)	0.46	0.83	0.53	0.58
4/2/2018	<0.1		<0.1						
4/3/2018		<0.1		0.39	<0.1			<0.1	
4/4/2018						<0.1	0.65		<0.1
6/4/2018	0.074 (J)	<0.1	<0.1						
6/5/2018					0.099 (J)	<0.1	0.47		
6/6/2018				0.46				0.12 (J)	0.21 (J)
10/1/2018	<0.1	<0.1	<0.1						
10/2/2018				0.51	<0.1	0.17 (J)		0.031 (J)	
10/3/2018									0.15 (J)
10/5/2018							0.77		
3/12/2019	0.29 (J)	0.072 (J)	0.038 (J)	0.58					
3/13/2019					0.12 (J)	0.17 (J)	0.78	0.14 (J)	
3/14/2019									1.1
4/1/2019		0.029 (J)							
4/2/2019	0.1 (J)		0.071 (J)		0.097 (J)				
4/3/2019				0.63		0.082 (J)		0.14 (J)	0.3 (J)
4/5/2019							0.83		
9/23/2019	0.078 (J)	<0.1	<0.1						
9/24/2019				0.49					
9/25/2019					0.1 (J)				
9/26/2019							0.64		
9/27/2019						0.17 (J)		0.26 (J)	0.26 (J)
3/2/2020	0.076 (J)	<0.1	<0.1						
3/3/2020				0.45		0.11 (J)			0.21 (J)
3/4/2020					0.077 (J)		0.37	0.08 (J)	
3/25/2020	0.098 (J)	<0.1	<0.1						
3/26/2020									0.17 (J)
3/27/2020				0.46	0.059 (J)				
3/30/2020							0.44		
3/31/2020								0.074 (J)	
4/1/2020						0.12 (J)			

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 10/14/2025 4:22 PM View: Appendix III

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-3 (bg)	HGWA-2 (bg)	HGWC-8	HGWC-7	HGWC-10	HGWC-13	HGWC-9	HGWC-12
6/16/2020	0.071 (J)	<0.1		0.45					
6/17/2020					0.077 (J)				
8/25/2020		<0.1	<0.1						
8/28/2020	0.08 (J)								
9/15/2020	0.082 (J)	<0.1	<0.1						
9/16/2020				0.53	0.081 (J)	<0.1			
9/17/2020								0.1	
9/18/2020									0.15
9/21/2020							0.44		
11/10/2020									
12/15/2020									
1/19/2021									
2/8/2021	0.078 (J)								
2/9/2021		0.074 (J)	<0.1						
2/10/2021					0.085 (J)				
2/12/2021									0.19
2/15/2021						0.08 (J)			
2/16/2021				0.47				0.096 (J)	
2/22/2021							0.55		
3/10/2021	0.079 (J)								
3/11/2021		<0.1	0.1						
3/12/2021						0.054 (J)			
3/15/2021				0.51	0.086 (J)				
3/16/2021								0.098 (J)	0.2
3/17/2021							0.65		
8/11/2021	0.058 (J)								
8/12/2021		<0.1	<0.1						
8/13/2021									
8/16/2021					0.084 (J)				
8/17/2021						<0.1		0.095 (J)	
8/18/2021				0.41					0.15
8/19/2021							0.53		
2/1/2022	0.064 (J)	<0.1	<0.1						
2/9/2022						0.12		0.1	0.2
2/10/2022				0.42	0.083 (J)		0.53		
8/2/2022	0.09 (J)	0.067 (J)	0.053 (J)						
8/3/2022				0.44		0.13	0.55		0.21
8/4/2022								0.13	
8/11/2022					0.11				
1/23/2023		0.061 (J)							
1/24/2023	0.089 (J)		0.053 (J)						
1/26/2023							0.4	0.11	0.21
1/27/2023					0.1	0.16			
2/1/2023				0.4					
8/8/2023	0.088 (J)	0.055 (J)	0.07 (J)						
8/10/2023						0.05 (J)			0.17
8/11/2023								0.12	
8/12/2023				0.59	0.071 (J)		0.32		
2/13/2024	0.071 (J)	<0.1	0.17						
2/14/2024				0.3	0.081 (J)				
2/15/2024						0.12		0.087 (J)	0.19
2/16/2024							0.33		

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 10/14/2025 4:22 PM View: Appendix III

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-3 (bg)	HGWA-2 (bg)	HGWC-8	HGWC-7	HGWC-10	HGWC-13	HGWC-9	HGWC-12
8/5/2024	0.11	0.077 (J)	0.12						
8/6/2024									
8/7/2024				0.37	0.074 (J)	0.075 (J)		0.084 (J)	0.17
8/8/2024							0.38		
2/12/2025	0.1	0.073 (J)							
2/13/2025									0.24
2/14/2025			0.1			0.086 (J)			
2/15/2025				0.24				0.071 (J)	
2/16/2025					0.056 (J)				
2/17/2025							0.4		
8/5/2025	0.055 (J)	<0.1	<0.1						
8/6/2025				0.22	0.11	0.16			0.32
8/7/2025								0.1	
8/10/2025							0.44		

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 10/14/2025 4:22 PM View: Appendix III

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-11	HGWA-44D (bg)	HGWA-43D (bg)
5/19/2016			
5/20/2016			
5/23/2016	0.203 (J)		
7/11/2016			
7/12/2016	0.44		
8/30/2016			
9/1/2016	0.67		
10/19/2016			
10/20/2016			
10/24/2016	0.26 (J)		
12/6/2016			
12/7/2016	0.55		
1/24/2017			
1/25/2017			
1/26/2017	0.27 (J)		
3/21/2017			
3/22/2017	0.66		
5/22/2017			
5/23/2017			
5/24/2017	0.35		
10/3/2017	0.56		
4/2/2018			
4/3/2018			
4/4/2018	0.39		
6/4/2018			
6/5/2018	0.24 (J)		
6/6/2018			
10/1/2018			
10/2/2018			
10/3/2018	0.31		
10/5/2018			
3/12/2019			
3/13/2019	0.51		
3/14/2019			
4/1/2019			
4/2/2019			
4/3/2019	0.43		
4/5/2019			
9/23/2019			
9/24/2019			
9/25/2019			
9/26/2019			
9/27/2019	0.42		
3/2/2020			
3/3/2020	0.24 (J)		
3/4/2020			
3/25/2020			
3/26/2020			
3/27/2020			
3/30/2020			
3/31/2020	0.19 (J)		
4/1/2020			

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 10/14/2025 4:22 PM View: Appendix III

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-11	HGWA-44D (bg)	HGWA-43D (bg)
6/16/2020			
6/17/2020			
8/25/2020			
8/28/2020			
9/15/2020			
9/16/2020		0.37 (D)	0.22
9/17/2020			
9/18/2020	0.15		
9/21/2020			
11/10/2020		0.59	0.19
12/15/2020		0.67	0.21
1/19/2021		0.74	0.16
2/8/2021			
2/9/2021		0.44	0.19
2/10/2021			
2/12/2021	0.17		
2/15/2021			
2/16/2021			
2/22/2021			
3/10/2021		0.65	
3/11/2021			0.2
3/12/2021			
3/15/2021			
3/16/2021	0.21		
3/17/2021			
8/11/2021			0.15
8/12/2021			
8/13/2021		0.87	
8/16/2021			
8/17/2021			
8/18/2021	0.21		
8/19/2021			
2/1/2022		0.96	0.19
2/9/2022	0.2		
2/10/2022			
8/2/2022		0.8	0.22
8/3/2022	0.22		
8/4/2022			
8/11/2022			
1/23/2023			
1/24/2023		1.3	0.23
1/26/2023	0.2		
1/27/2023			
2/1/2023			
8/8/2023		1.3	0.18
8/10/2023	0.15		
8/11/2023			
8/12/2023			
2/13/2024		1.5	0.2
2/14/2024			
2/15/2024	0.21		
2/16/2024			

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 10/14/2025 4:22 PM View: Appendix III

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-11	HGWA-44D (bg)	HGWA-43D (bg)
8/5/2024			
8/6/2024		1.3	0.21
8/7/2024	0.11		
8/8/2024			
2/12/2025		1.1	0.21
2/13/2025	0.3 (M1)		
2/14/2025			
2/15/2025			
2/16/2025			
2/17/2025			
8/5/2025		0.87	0.16
8/6/2025	0.22		
8/7/2025			
8/10/2025			

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 10/14/2025 4:22 PM View: Appendix III

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-3 (bg)	HGWA-2 (bg)	HGWC-8	HGWC-7	HGWC-11	HGWC-10	HGWC-9	HGWC-13
5/19/2016	7.27	7.45	5.81						
5/20/2016				6.99	7.14				
5/23/2016						6.22	6.83	7.23	7.14
7/11/2016	7.06		5.68						
7/12/2016		7.32		6.88	7.13	6.04	6.58	6.87	7.04
8/30/2016	7.28	7.43	5.63						
9/1/2016				6.73	7.29	6.26	6.54	7.15	7.24
10/19/2016	7.02	7.03	5.46						
10/20/2016				6.9	7.1			7.05	
10/24/2016						6.46	6.59		6.9
12/6/2016	7.09	7.08	5.38	6.98	7.15			7.15	
12/7/2016						6.29	6.56		6.91
1/24/2017	7.2	7.39	5.37						
1/25/2017				7.04	7.11				
1/26/2017						6.46	6.83	6.99	7.08
3/21/2017	7.01	6.83	4.9	6.87	7.12				
3/22/2017						5.81	6.66	7.03	7.13
5/22/2017	7.11	7.02	5.2						
5/23/2017				6.87	7.08			7.05	
5/24/2017						6.51	6.67		7.15
10/3/2017	7.21	7.47	5.3	6.72	7.21	6.25	6.54	7.07	7.32
4/2/2018	7.1		5.4						
4/3/2018		7.38		6.87	7.14			6.99	
4/4/2018						5.86	6.61		7.27
6/4/2018	7.06	7.38	5.27						
6/5/2018					7.13	6.27	6.65		7.2
6/6/2018				6.9				7.02	
10/1/2018	7.09	7.13	5.31						
10/2/2018				6.9	7.12		6.55	7.05	
10/3/2018						5.97			
10/5/2018									7.24
3/12/2019	7.03	7.29	5.42	6.91					
3/13/2019					7.27	5.92	6.7	7.06	7.24
3/14/2019									
4/1/2019		7.16							
4/2/2019	6.86		5.41		7.27				
4/3/2019				6.85		5.69	6.55	6.88	
4/5/2019									7.24
9/23/2019	7.02	7.3	5.33						
9/24/2019				6.95					
9/25/2019					7.11				
9/26/2019									6.94
9/27/2019						5.75	6.64	7.01	
9/30/2019	7	7.37	5.35						
3/2/2020	7.1	7.12	5.43						
3/3/2020				7.06		5.95	6.76		
3/4/2020					7.17			6.97	7.16
3/25/2020	6.95	7.4	5.36						
3/26/2020									
3/27/2020				6.95	7.05				
3/30/2020									6.91
3/31/2020						5.7		7.07	

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 10/14/2025 4:22 PM View: Appendix III

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-3 (bg)	HGWA-2 (bg)	HGWC-8	HGWC-7	HGWC-11	HGWC-10	HGWC-9	HGWC-13
4/1/2020							6.84		
6/16/2020	6.97	7.31		6.97					
6/17/2020					7.2				
8/25/2020		7.14	5.15						
8/28/2020	7.02								
9/15/2020	7.15	7.29	5.22						
9/16/2020				6.92	7.3		6.66		
9/17/2020								6.99	
9/18/2020						6.42			
9/21/2020									7.38
11/10/2020									
12/15/2020									
1/19/2021									
2/8/2021	7.11								
2/9/2021		7.23	5.42						
2/10/2021					7.29				
2/12/2021						7.27			
2/15/2021							6.83		
2/16/2021				7.16				7.26	
2/22/2021									7.27
3/10/2021	6.95								
3/11/2021		7.33	5.8						
3/12/2021							6.76		
3/15/2021				7.09	7.19				
3/16/2021						5.95		7.1	
3/17/2021									7.33
8/11/2021	6.98								
8/12/2021		7.31	5.05						
8/13/2021									
8/16/2021					7.12				
8/17/2021							6.75	7.1	
8/18/2021				7.02		6.1			
8/19/2021									7.38
2/1/2022	7.19	7.45	5.24						
2/9/2022						6.55	7	7.3	
2/10/2022				6.99	7.22				7.54
8/2/2022	7.03	7.02	4.57						
8/3/2022				6.84		6.23	6.73		7.09
8/4/2022								7.03	
8/11/2022					7.07				
1/23/2023		7.32							
1/24/2023	6.76		5.22						
1/26/2023						6.23		7.07	6.9
1/27/2023					7.25		6.89		
2/1/2023				6.6					
8/8/2023	7.05	7.42	5.01						
8/10/2023						5.9	6.81		
8/11/2023								7.09	
8/12/2023				6.84	7.36				6.89
2/13/2024	7.06	7.35	5.49						
2/14/2024				6.66	7.3				
2/15/2024						6.36	6.93	6.82	

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 10/14/2025 4:22 PM View: Appendix III

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-3 (bg)	HGWA-2 (bg)	HGWC-8	HGWC-7	HGWC-11	HGWC-10	HGWC-9	HGWC-13
2/16/2024									6.9
8/5/2024	7.29	7.27	4.91						
8/6/2024									
8/7/2024				6.71	7.58	5.79	6.92	7.03	
8/8/2024									6.95
2/12/2025	7.08	7.37							
2/13/2025						6.6			
2/14/2025		7.45	5.75				6.77		
2/15/2025				6.54				7.03	
2/16/2025					7.41				
2/17/2025									7.11
8/5/2025	6.94	7.12	4.9						
8/6/2025				5.61	7.28	5.44	6.51		
8/7/2025								6.32	
8/10/2025									6.78

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 10/14/2025 4:22 PM View: Appendix III

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-12	HGWA-43D (bg)	HGWA-44D (bg)
5/19/2016			
5/20/2016			
5/23/2016	7.15		
7/11/2016			
7/12/2016	6.87		
8/30/2016			
9/1/2016	7.2		
10/19/2016			
10/20/2016			
10/24/2016	7.1		
12/6/2016			
12/7/2016	6.92		
1/24/2017			
1/25/2017			
1/26/2017	7.05		
3/21/2017			
3/22/2017	7.08		
5/22/2017			
5/23/2017			
5/24/2017	7.11		
10/3/2017	7.01		
4/2/2018			
4/3/2018			
4/4/2018	7.12		
6/4/2018			
6/5/2018			
6/6/2018	7.12		
10/1/2018			
10/2/2018			
10/3/2018	7.08		
10/5/2018			
3/12/2019			
3/13/2019			
3/14/2019	7.09		
4/1/2019			
4/2/2019			
4/3/2019	6.96		
4/5/2019			
9/23/2019			
9/24/2019			
9/25/2019			
9/26/2019			
9/27/2019	7.07		
9/30/2019			
3/2/2020			
3/3/2020	6.95		
3/4/2020			
3/25/2020			
3/26/2020	6.99		
3/27/2020			
3/30/2020			
3/31/2020			

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 10/14/2025 4:22 PM View: Appendix III

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-12	HGWA-43D (bg)	HGWA-44D (bg)
4/1/2020			
6/16/2020			
6/17/2020			
8/25/2020			
8/28/2020			
9/15/2020			
9/16/2020		7.52	7.83
9/17/2020			
9/18/2020	7.16		
9/21/2020			
11/10/2020		7.27	7.84
12/15/2020		7.39	7.87
1/19/2021		7.39	7.86
2/8/2021			
2/9/2021		7.44	7.84
2/10/2021			
2/12/2021	6.23		
2/15/2021			
2/16/2021			
2/22/2021			
3/10/2021			7.92
3/11/2021		7.46	
3/12/2021			
3/15/2021			
3/16/2021	7.15		
3/17/2021			
8/11/2021		7.4	
8/12/2021			
8/13/2021			7.77
8/16/2021			
8/17/2021			
8/18/2021	6.89		
8/19/2021			
2/1/2022		7.52	8.25
2/9/2022	7.23		
2/10/2022			
8/2/2022		7.15	7.9
8/3/2022	7.13		
8/4/2022			
8/11/2022			
1/23/2023			
1/24/2023		7.56	8.22
1/26/2023	7.1		
1/27/2023			
2/1/2023			
8/8/2023		7.39	8.2
8/10/2023	7.08		
8/11/2023			
8/12/2023			
2/13/2024		7.47	8.1
2/14/2024			
2/15/2024	7.02		

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 10/14/2025 4:22 PM View: Appendix III

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-12	HGWA-43D (bg)	HGWA-44D (bg)
2/16/2024			
8/5/2024			
8/6/2024		7.46	8.36
8/7/2024	7.09		
8/8/2024			
2/12/2025		7.5	8.49
2/13/2025	7.04		
2/14/2025			
2/15/2025			
2/16/2025			
2/17/2025			
8/5/2025		7.42	8.46
8/6/2025	6.98		
8/7/2025			
8/10/2025			

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 10/14/2025 4:22 PM View: Appendix III

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-3 (bg)	HGWA-2 (bg)	HGWC-8	HGWC-7	HGWC-11	HGWC-13	HGWC-12	HGWC-9
5/19/2016	66.9	42.3	48.6						
5/20/2016				219	96				
5/23/2016						260	215	288	207
7/11/2016	41		45						
7/12/2016		44		230	100	390	210	320	230
8/30/2016	36	40	42						
9/1/2016				230	100	240	190	300	230
10/19/2016	46	43	44						
10/20/2016				240	110				240
10/24/2016						370	180	270	
12/6/2016	59	43	44	250	110				240
12/7/2016						260	120	280	
1/24/2017	46	48	46						
1/25/2017				260	110				
1/26/2017						230	83	260	270
3/21/2017	63	45	46	240	110				
3/22/2017						330	100	220	240
5/22/2017	77	46	48						
5/23/2017				270	110				240
5/24/2017						230	110	210	
10/3/2017	42	48	47	230	120	230	67	190	240
6/4/2018	71.8	46.6	47.8						
6/5/2018					117	204	187		
6/6/2018				190				162	214
10/1/2018	49.1	48.6	48.1						
10/2/2018				193	120				218
10/3/2018						233		191	
10/5/2018							78.3		
4/1/2019		50.4							
4/2/2019	84.3		48.7		127				
4/3/2019				194		298		176	214
4/5/2019							105		
9/23/2019	70.2	43.9	47.2						
9/24/2019				133					
9/25/2019					109				
9/26/2019							444		
9/27/2019						<1		198	214
3/25/2020	85.9	50.5	46.3						
3/26/2020								182	
3/27/2020				173	109				
3/30/2020							393		
3/31/2020						283			185
4/1/2020									
6/16/2020	88.2	49.5		157					
6/17/2020					102				
9/15/2020	47.3	44.7	51.5						
9/16/2020				194	109				
9/17/2020									209
9/18/2020						272		266	
9/21/2020							359		
11/10/2020									
12/15/2020									

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 10/14/2025 4:22 PM View: Appendix III

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-3 (bg)	HGWA-2 (bg)	HGWC-8	HGWC-7	HGWC-11	HGWC-13	HGWC-12	HGWC-9
1/19/2021									
3/10/2021	49.6								
3/11/2021		50.4	52.9						
3/12/2021									
3/15/2021				272	107				
3/16/2021						291		248	211
3/17/2021							384		
8/11/2021	48.9								
8/12/2021		38.6	47.4						
8/13/2021									
8/16/2021					98.1				
8/17/2021									207
8/18/2021				245		237		226	
8/19/2021							339		
2/1/2022	43.7	46	67.1						
2/9/2022						276		252	224
2/10/2022				224	97.5		371		
8/2/2022	58.1	43.5	86.9						
8/3/2022				241		254	451	236	
8/4/2022									243
8/11/2022					121				
1/23/2023		39.5							
1/24/2023	48.3		79.7						
1/26/2023						209	495	228	217
1/27/2023					119				
2/1/2023				179					
8/8/2023	67.7	35	89.9						
8/10/2023						190		209	
8/11/2023									197
8/12/2023				170	84.2		347		
2/13/2024	50.4	35.5	93.9						
2/14/2024				137	102				
2/15/2024						208		240	199
2/16/2024							285		
8/5/2024	49.4	31.1	87.2						
8/6/2024									
8/7/2024				124	86.5	206		220	187
8/8/2024							239		
2/12/2025	43.8	28							
2/13/2025						155 (M1)		198	
2/14/2025			94.5 (M1)						
2/15/2025				104					169
2/16/2025					98.5 (M1)				
2/17/2025							167 (M1)		
8/5/2025	57.6	24.9	74						
8/6/2025				90.3	97.2	182		173	
8/7/2025									148
8/10/2025							131		

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 10/14/2025 4:22 PM View: Appendix III

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-10	HGWA-43D (bg)	HGWA-44D (bg)
5/19/2016			
5/20/2016			
5/23/2016	175		
7/11/2016			
7/12/2016	190		
8/30/2016			
9/1/2016	190		
10/19/2016			
10/20/2016			
10/24/2016	190		
12/6/2016			
12/7/2016	200		
1/24/2017			
1/25/2017			
1/26/2017	90		
3/21/2017			
3/22/2017	170		
5/22/2017			
5/23/2017			
5/24/2017	190		
10/3/2017	200		
6/4/2018			
6/5/2018	205		
6/6/2018			
10/1/2018			
10/2/2018	178		
10/3/2018			
10/5/2018			
4/1/2019			
4/2/2019			
4/3/2019	159		
4/5/2019			
9/23/2019			
9/24/2019			
9/25/2019			
9/26/2019			
9/27/2019	181		
3/25/2020			
3/26/2020			
3/27/2020			
3/30/2020			
3/31/2020			
4/1/2020	59		
6/16/2020			
6/17/2020			
9/15/2020			
9/16/2020	169	43	24.95 (D)
9/17/2020			
9/18/2020			
9/21/2020			
11/10/2020		39	6.3
12/15/2020		38.8	6.7

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 10/14/2025 4:22 PM View: Appendix III

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-10	HGWA-43D (bg)	HGWA-44D (bg)
1/19/2021		37.3	7.4
3/10/2021			<1
3/11/2021		38.6	
3/12/2021	120		
3/15/2021			
3/16/2021			
3/17/2021			
8/11/2021		30.5	
8/12/2021			
8/13/2021			56.1
8/16/2021			
8/17/2021	156		
8/18/2021			
8/19/2021			
2/1/2022		37.5	56.3
2/9/2022	49.2		
2/10/2022			
8/2/2022		37	13.2
8/3/2022	119		
8/4/2022			
8/11/2022			
1/23/2023			
1/24/2023		34.7	10.1
1/26/2023			
1/27/2023	37.3		
2/1/2023			
8/8/2023		25.6	1.3
8/10/2023	128		
8/11/2023			
8/12/2023			
2/13/2024		28.9	2
2/14/2024			
2/15/2024	51.2		
2/16/2024			
8/5/2024			
8/6/2024		25.5	0.86 (J)
8/7/2024	111		
8/8/2024			
2/12/2025		25.2	0.51 (J)
2/13/2025			
2/14/2025	39.2		
2/15/2025			
2/16/2025			
2/17/2025			
8/5/2025		22.4	0.85 (J)
8/6/2025	57.2		
8/7/2025			
8/10/2025			

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 10/14/2025 4:22 PM View: Appendix III

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-3 (bg)	HGWA-2 (bg)	HGWC-8	HGWC-7	HGWC-11	HGWC-13	HGWC-12	HGWC-9
5/19/2016	421	267	143						
5/20/2016				711	427				
5/23/2016						564	683	1060	984
7/11/2016	363		125						
7/12/2016		249		704	410	627	563	909	887
8/30/2016	330	254	168						
9/1/2016				763	484	656	702	1480	956
10/19/2016	380	357	176						
10/20/2016				644	393				642
10/24/2016						836	647	868	
12/6/2016	377	285	145	733	492				899
12/7/2016						748	465	811	
1/24/2017	342	300	129						
1/25/2017				744	461				
1/26/2017						571	411	846	869
3/21/2017	340	288	103	818	415				
3/22/2017						597	427	804	936
5/22/2017	338	263	92						
5/23/2017				765	450				939
5/24/2017						566	377	803	
10/3/2017	343	300	127	812	464	443	268	608	1040
6/4/2018	415	266	140						
6/5/2018					459	489	528		
6/6/2018				611				535	810
10/1/2018	354	291	135						
10/2/2018				597	426				693
10/3/2018						449		607	
10/5/2018							322		
4/1/2019		284							
4/2/2019	452		133		428				
4/3/2019				543		483		462	673
4/5/2019							331		
9/23/2019	442	268	129						
9/24/2019				471.5 (D)					
9/25/2019					503				
9/26/2019							1010		
9/27/2019						528		653	730
3/25/2020	496	284	138						
3/26/2020								533	
3/27/2020				541	413				
3/30/2020							895		
3/31/2020						565			1010
4/1/2020									
6/16/2020	632	448		573					
6/17/2020					423				
9/15/2020	265	258	124						
9/16/2020				552	392				
9/17/2020									680
9/18/2020						626		704	
9/21/2020							732		
11/10/2020									
12/15/2020									

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 10/14/2025 4:22 PM View: Appendix III

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-3 (bg)	HGWA-2 (bg)	HGWC-8	HGWC-7	HGWC-11	HGWC-13	HGWC-12	HGWC-9
1/19/2021									
3/10/2021	348								
3/11/2021		267	169						
3/12/2021									
3/15/2021				614	370				
3/16/2021						558		614	672
3/17/2021							716		
8/11/2021	366								
8/12/2021		265	118						
8/13/2021									
8/16/2021					407				
8/17/2021									704
8/18/2021				620		566		600	
8/19/2021							726		
2/1/2022	270	350	156						
2/9/2022						544		678	756
2/10/2022				578	414		814		
8/2/2022	400	287	196						
8/3/2022				648		572	958	650	
8/4/2022									760
8/11/2022					445				
1/23/2023		293							
1/24/2023	369		164						
1/26/2023						429	962	624	745
1/27/2023					473				
2/1/2023				528					
8/8/2023	457	285	189						
8/10/2023						438		683	
8/11/2023									757
8/12/2023				564	378		803		
2/13/2024	402	284	214						
2/14/2024				407	440				
2/15/2024						491		660	663
2/16/2024							666		
8/5/2024	444	304	217						
8/6/2024									
8/7/2024				469	417	437		642	731
8/8/2024							544		
2/12/2025	374	267							
2/13/2025						478		590	
2/14/2025			242						
2/15/2025				340					628
2/16/2025					408				
2/17/2025							522		
8/5/2025	416	265	160						
8/6/2025				333	407	379		581	
8/7/2025									613
8/10/2025							473		

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 10/14/2025 4:22 PM View: Appendix III

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-10	HGWA-43D (bg)	HGWA-44D (bg)
5/19/2016			
5/20/2016			
5/23/2016	629		
7/11/2016			
7/12/2016	661		
8/30/2016			
9/1/2016	769		
10/19/2016			
10/20/2016			
10/24/2016	643		
12/6/2016			
12/7/2016	697		
1/24/2017			
1/25/2017			
1/26/2017	368		
3/21/2017			
3/22/2017	683		
5/22/2017			
5/23/2017			
5/24/2017	696		
10/3/2017	746		
6/4/2018			
6/5/2018	679		
6/6/2018			
10/1/2018			
10/2/2018	572		
10/3/2018			
10/5/2018			
4/1/2019			
4/2/2019			
4/3/2019	525		
4/5/2019			
9/23/2019			
9/24/2019			
9/25/2019			
9/26/2019			
9/27/2019	625 (D)		
3/25/2020			
3/26/2020			
3/27/2020			
3/30/2020			
3/31/2020			
4/1/2020	290		
6/16/2020			
6/17/2020			
9/15/2020			
9/16/2020	490	272	270
9/17/2020			
9/18/2020			
9/21/2020			
11/10/2020		307	287
12/15/2020		289	295

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 10/14/2025 4:22 PM View: Appendix III

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-10	HGWA-43D (bg)	HGWA-44D (bg)
1/19/2021		270	278
3/10/2021			289
3/11/2021		279	
3/12/2021	490		
3/15/2021			
3/16/2021			
3/17/2021			
8/11/2021		277	
8/12/2021			
8/13/2021			436
8/16/2021			
8/17/2021	496		
8/18/2021			
8/19/2021			
2/1/2022		156	444
2/9/2022	250		
2/10/2022			
8/2/2022		278	311
8/3/2022	433		
8/4/2022			
8/11/2022			
1/23/2023			
1/24/2023		271	363
1/26/2023			
1/27/2023	188		
2/1/2023			
8/8/2023		274	361
8/10/2023	504		
8/11/2023			
8/12/2023			
2/13/2024		291	379
2/14/2024			
2/15/2024	229		
2/16/2024			
8/5/2024			
8/6/2024		283	380
8/7/2024	501		
8/8/2024			
2/12/2025		273	363
2/13/2025			
2/14/2025	208		
2/15/2025			
2/16/2025			
2/17/2025			
8/5/2025		282	370
8/6/2025	280		
8/7/2025			
8/10/2025			

FIGURE E.

Appendix III Trend Tests - Prediction Limit Exceedances - Significant Results

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 10/14/2025, 4:26 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	**HGWA-2 (bg)**	**0.002437**	**196**	**111**	**Yes**	**25**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**HGWA-43D (bg)**	**-0.004011**	**-55**	**-48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**HGWA-44D (bg)**	**0.05214**	**61**	**48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**HGWC-12**	**-0.1628**	**-193**	**-111**	**Yes**	**25**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**HGWC-13**	**-0.1762**	**-200**	**-118**	**Yes**	**26**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**HGWA-3 (bg)**	**-0.158**	**-198**	**-118**	**Yes**	**26**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**HGWA-44D (bg)**	**5.375**	**59**	**48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**HGWC-9**	**-9.996**	**-223**	**-111**	**Yes**	**25**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**HGWA-2 (bg)**	**4.265**	**212**	**111**	**Yes**	**25**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**HGWA-43D (bg)**	**-3.534**	**-79**	**-48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**HGWC-9**	**-5.359**	**-143**	**-111**	**Yes**	**25**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**HGWC-11**	**-10.86**	**-124**	**-111**	**Yes**	**25**	**4**	**n/a**	**n/a**	**0.01**	**NP**

Appendix III Trend Tests - Prediction Limit Exceedances - All Results

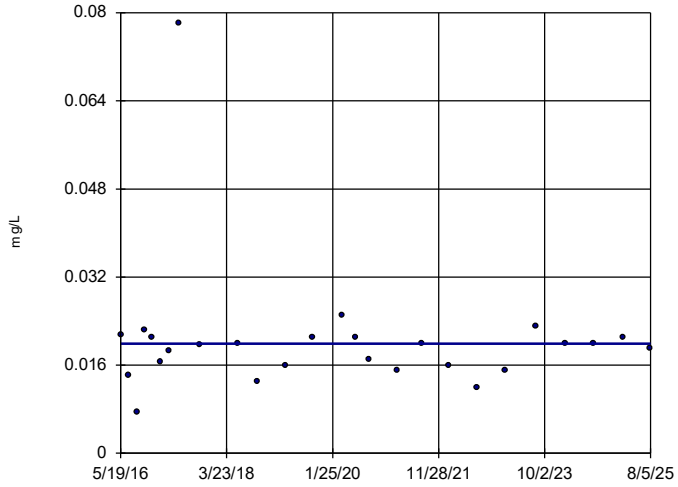
Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 10/14/2025, 4:26 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	HGWA-1 (bg)	0	-6	-118	No	26	0	n/a	n/a	0.01	NP
Boron (mg/L)	**HGWA-2 (bg)**	**0.002437**	**196**	**111**	**Yes**	**25**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	HGWA-3 (bg)	0.0003332	61	118	No	26	23.08	n/a	n/a	0.01	NP
Boron (mg/L)	**HGWA-43D (bg)**	**-0.004011**	**-55**	**-48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**HGWA-44D (bg)**	**0.05214**	**61**	**48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	HGWC-7	0.008295	41	118	No	26	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWC-8	-0.05153	-99	-118	No	26	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWC-9	0.008191	39	111	No	25	0	n/a	n/a	0.01	NP
Boron (mg/L)	**HGWC-12**	**-0.1628**	**-193**	**-111**	**Yes**	**25**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**HGWC-13**	**-0.1762**	**-200**	**-118**	**Yes**	**26**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	HGWA-1 (bg)	0.5362	82	118	No	26	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWA-2 (bg)	0.1567	83	111	No	25	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**HGWA-3 (bg)**	**-0.158**	**-198**	**-118**	**Yes**	**26**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	HGWA-43D (bg)	-0.09838	-33	-48	No	14	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**HGWA-44D (bg)**	**5.375**	**59**	**48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**HGWC-9**	**-9.996**	**-223**	**-111**	**Yes**	**25**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	HGWA-1 (bg)	0.3568	22	118	No	26	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**HGWA-2 (bg)**	**4.265**	**212**	**111**	**Yes**	**25**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	HGWA-3 (bg)	-1.043	-79	-118	No	26	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**HGWA-43D (bg)**	**-3.534**	**-79**	**-48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	HGWA-44D (bg)	-1.694	-33	-48	No	14	7.143	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWC-7	-0.4475	-67	-118	No	26	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**HGWC-9**	**-5.359**	**-143**	**-111**	**Yes**	**25**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**HGWC-11**	**-10.86**	**-124**	**-111**	**Yes**	**25**	**4**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	HGWC-12	-8.346	-104	-111	No	25	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWC-13	13.14	54	111	No	25	0	n/a	n/a	0.01	NP

Sanitas™ v.10.1.01 Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

HGWA-1 (bg)



n = 26

Slope = 0 units per year.

Mann-Kendall statistic = -6
critical = -118

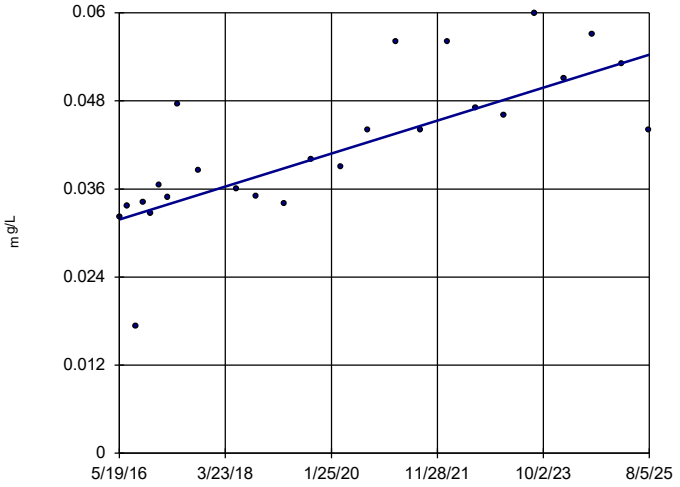
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/14/2025 4:23 PM View: Appendix III Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.1.01 Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

HGWA-2 (bg)



n = 25

Slope = 0.002437 units per year.

Mann-Kendall statistic = 196
critical = 111

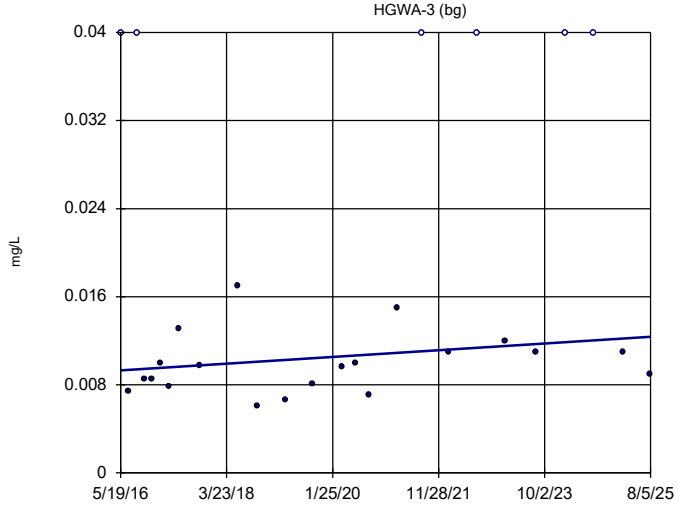
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/14/2025 4:24 PM View: Appendix III Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.1.01 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

HGWA-3 (bg)



n = 26

Slope = 0.0003332 units per year.

Mann-Kendall statistic = 61
critical = 118

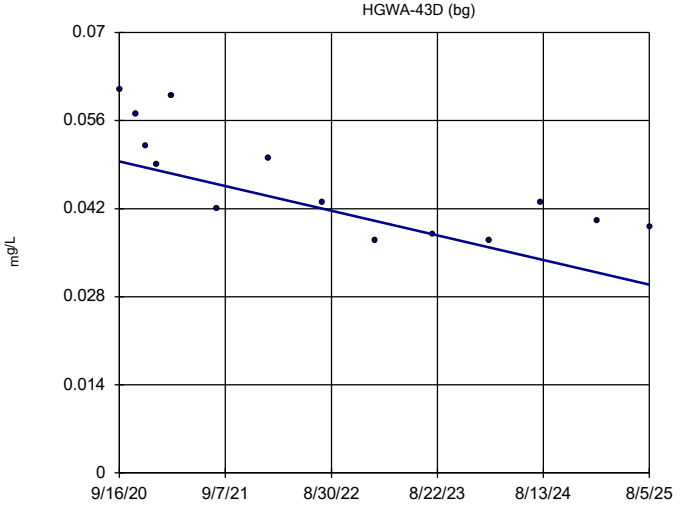
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/14/2025 4:24 PM View: Appendix III Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.1.01 Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

HGWA-43D (bg)



n = 14

Slope = -0.004011 units per year.

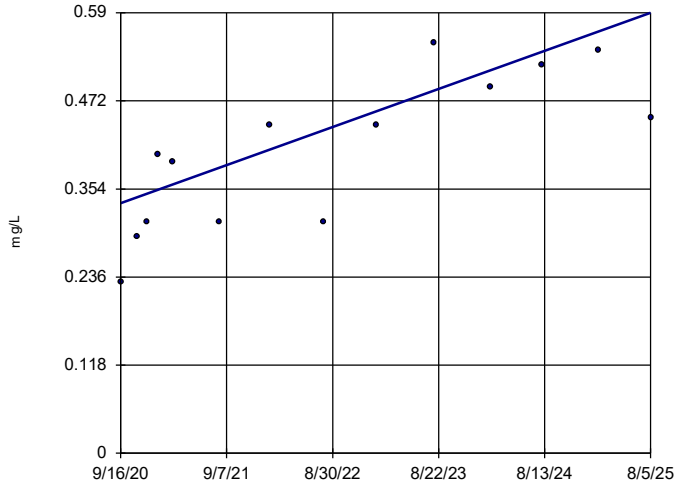
Mann-Kendall statistic = -55
critical = -48

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/14/2025 4:24 PM View: Appendix III Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

HGWA-44D (bg)



n = 14

Slope = 0.05214 units per year.

Mann-Kendall statistic = 61 critical = 48

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

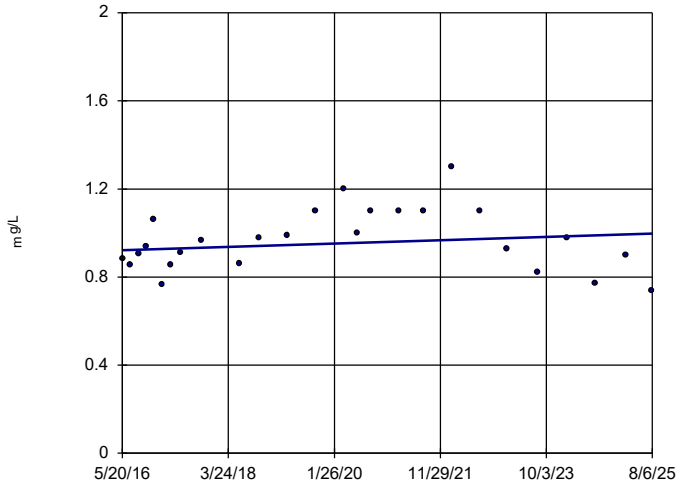
Constituent: Boron Analysis Run 10/14/2025 4:24 PM View: Appendix III Trend Test

Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.1.01 Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

HGWC-7



n = 26

Slope = 0.008295 units per year.

Mann-Kendall statistic = 41 critical = 118

Trend not significant at 99% confidence level (α = 0.005 per tail).

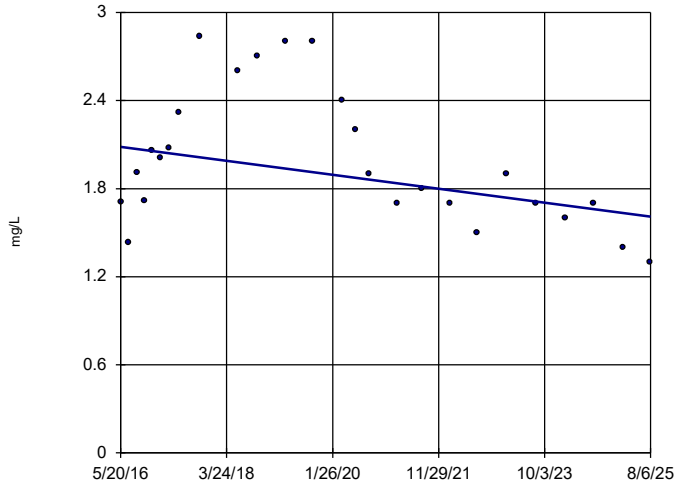
Constituent: Boron Analysis Run 10/14/2025 4:24 PM View: Appendix III Trend Test

Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.1.01 Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

HGWC-8



n = 26

Slope = -0.05153 units per year.

Mann-Kendall statistic = -99 critical = -118

Trend not significant at 99% confidence level (α = 0.005 per tail).

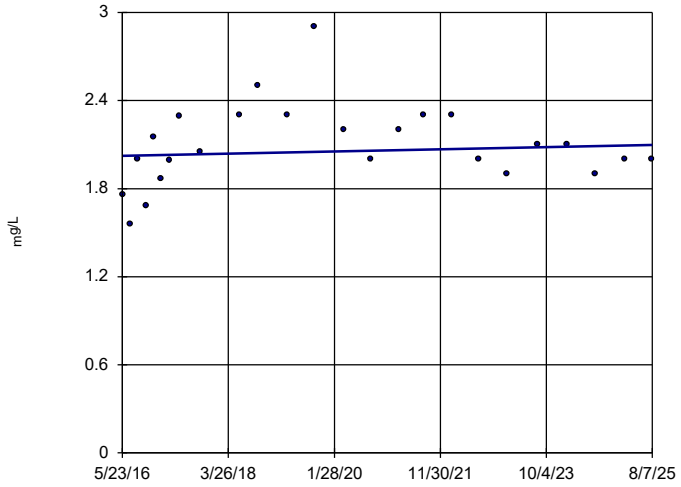
Constituent: Boron Analysis Run 10/14/2025 4:24 PM View: Appendix III Trend Test

Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.1.01 Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

HGWC-9



n = 25

Slope = 0.008191 units per year.

Mann-Kendall statistic = 39 critical = 111

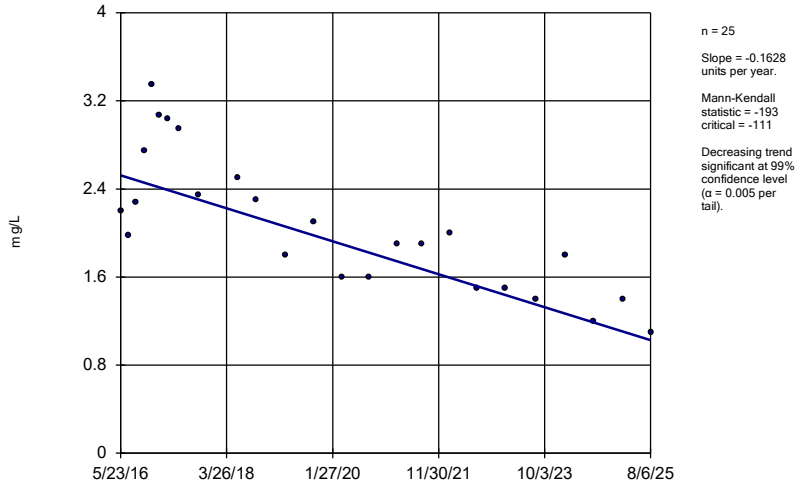
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/14/2025 4:24 PM View: Appendix III Trend Test

Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

HGWC-12



n = 25

Slope = -0.1628 units per year.

Mann-Kendall statistic = -193 critical = -111

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

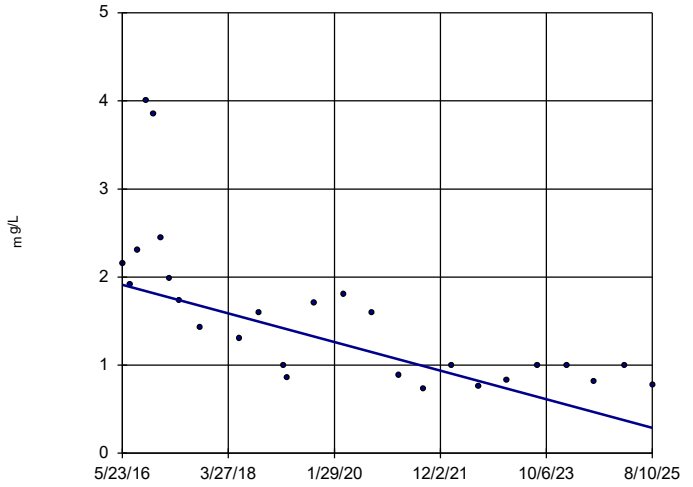
Constituent: Boron Analysis Run 10/14/2025 4:24 PM View: Appendix III Trend Test

Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.1.01 Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

HGWC-13



n = 26

Slope = -0.1762 units per year.

Mann-Kendall statistic = -200 critical = -118

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

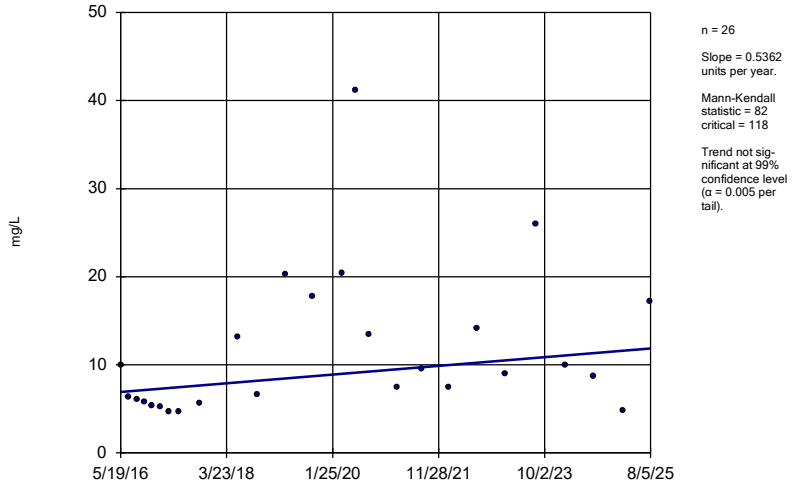
Constituent: Boron Analysis Run 10/14/2025 4:24 PM View: Appendix III Trend Test

Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.1.01 Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

HGWA-1 (bg)



n = 26

Slope = 0.5362 units per year.

Mann-Kendall statistic = 82 critical = 118

Trend not significant at 99% confidence level (α = 0.005 per tail).

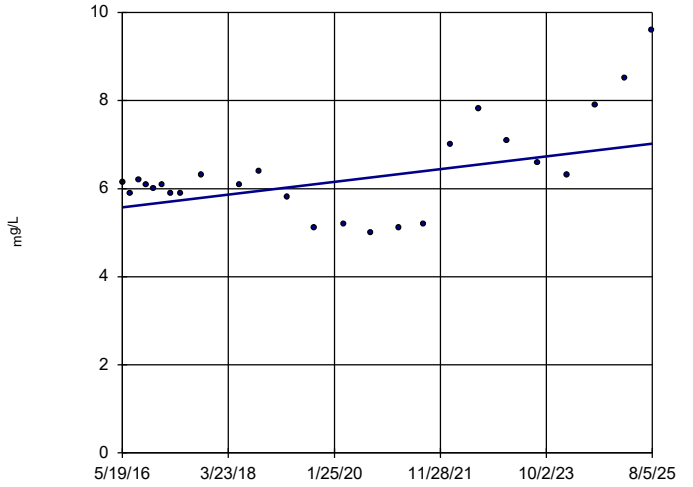
Constituent: Chloride Analysis Run 10/14/2025 4:24 PM View: Appendix III Trend Test

Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.1.01 Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

HGWA-2 (bg)



n = 25

Slope = 0.1567 units per year.

Mann-Kendall statistic = 83 critical = 111

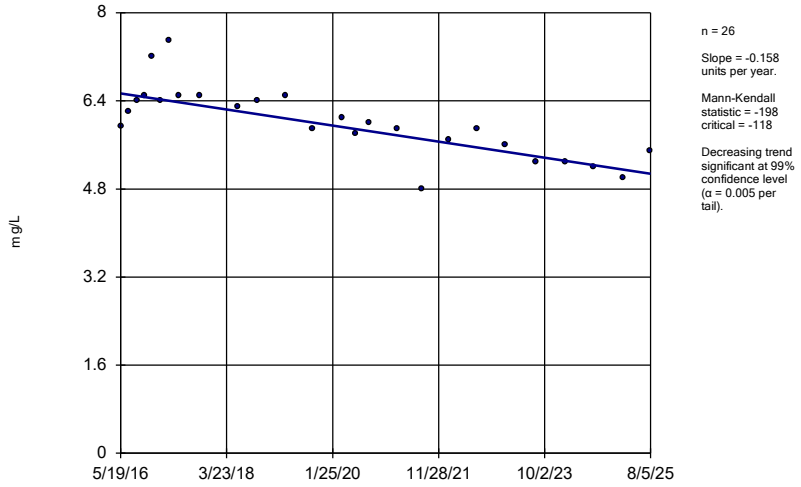
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 10/14/2025 4:24 PM View: Appendix III Trend Test

Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

HGWA-3 (bg)



n = 26

Slope = -0.158 units per year.

Mann-Kendall statistic = -198
critical = -118

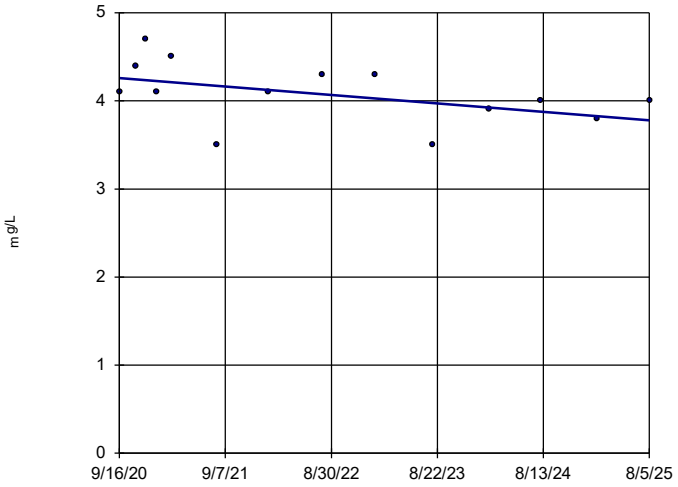
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 10/14/2025 4:24 PM View: Appendix III Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.1.01 Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

HGWA-43D (bg)



n = 14

Slope = -0.09838 units per year.

Mann-Kendall statistic = -33
critical = -48

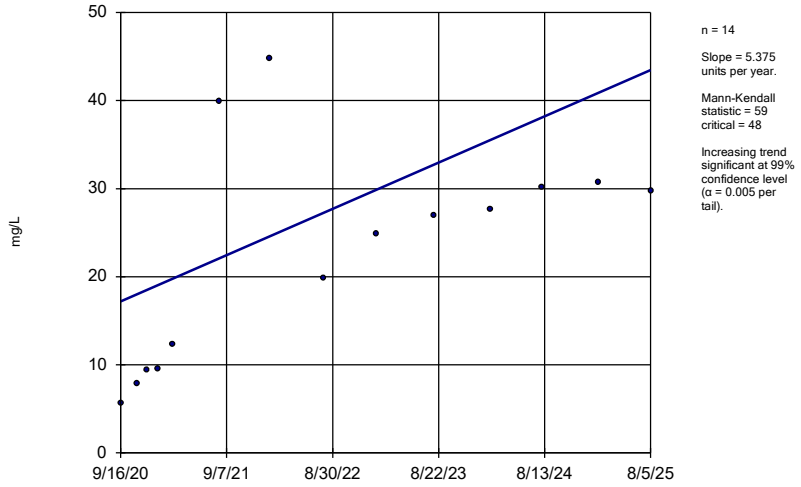
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 10/14/2025 4:24 PM View: Appendix III Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.1.01 Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

HGWA-44D (bg)



n = 14

Slope = 5.375 units per year.

Mann-Kendall statistic = 59
critical = 48

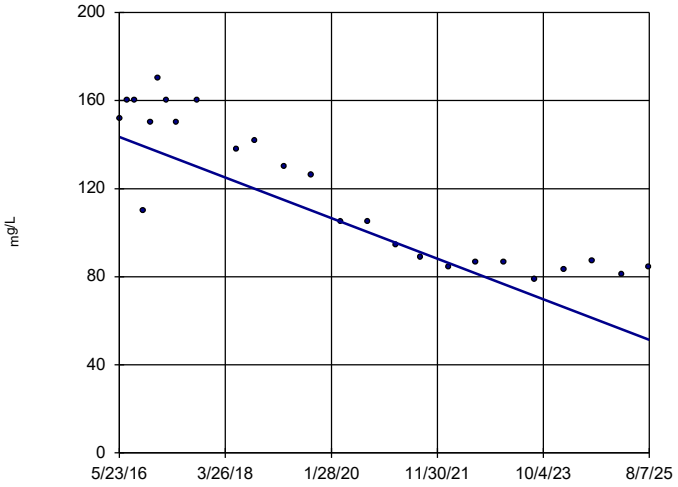
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 10/14/2025 4:24 PM View: Appendix III Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.1.01 Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

HGWC-9



n = 25

Slope = -9.996 units per year.

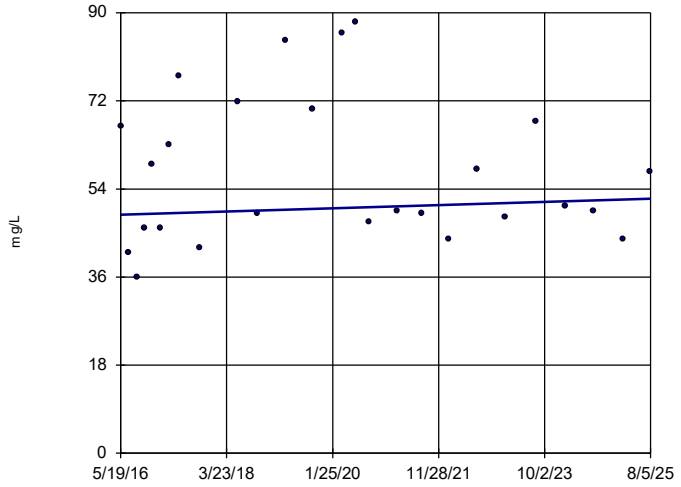
Mann-Kendall statistic = -223
critical = -111

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 10/14/2025 4:24 PM View: Appendix III Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

HGWA-1 (bg)



n = 26

Slope = 0.3568 units per year.

Mann-Kendall statistic = 22 critical = 118

Trend not significant at 99% confidence level (α = 0.005 per tail).

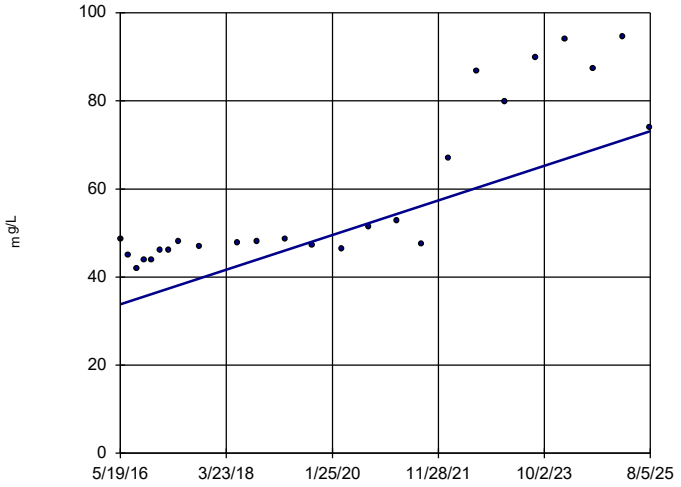
Constituent: Sulfate Analysis Run 10/14/2025 4:24 PM View: Appendix III Trend Test

Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.1.01 Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

HGWA-2 (bg)



n = 25

Slope = 4.265 units per year.

Mann-Kendall statistic = 212 critical = 111

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

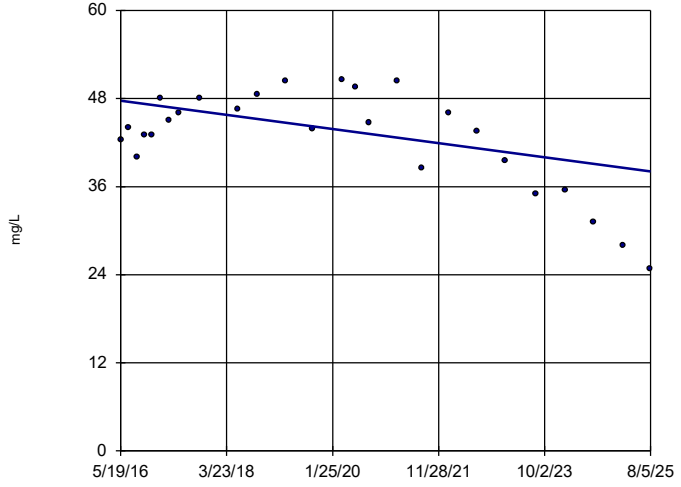
Constituent: Sulfate Analysis Run 10/14/2025 4:24 PM View: Appendix III Trend Test

Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.1.01 Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

HGWA-3 (bg)



n = 26

Slope = -1.043 units per year.

Mann-Kendall statistic = -79 critical = -118

Trend not significant at 99% confidence level (α = 0.005 per tail).

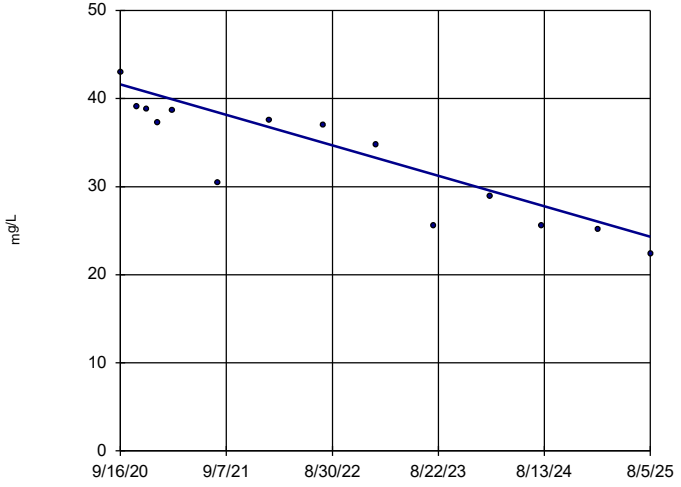
Constituent: Sulfate Analysis Run 10/14/2025 4:24 PM View: Appendix III Trend Test

Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.1.01 Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

HGWA-43D (bg)



n = 14

Slope = -3.534 units per year.

Mann-Kendall statistic = -79 critical = -48

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

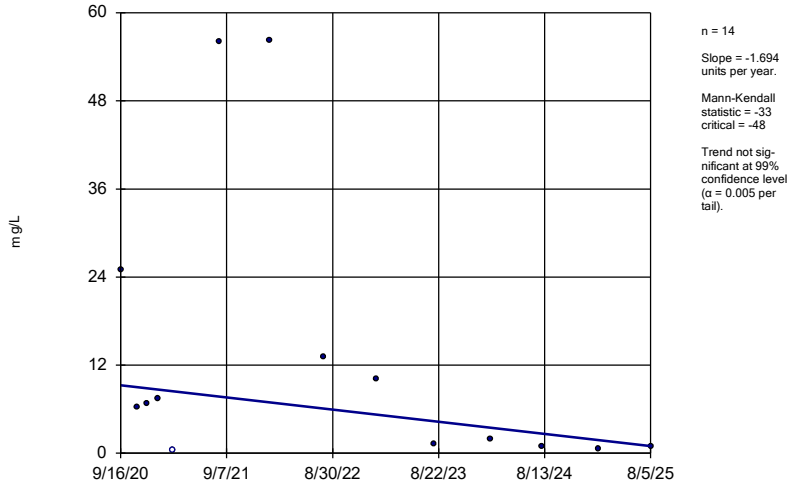
Constituent: Sulfate Analysis Run 10/14/2025 4:24 PM View: Appendix III Trend Test

Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.1.01 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

HGWA-44D (bg)



n = 14

Slope = -1.694 units per year.

Mann-Kendall statistic = -33
critical = -48

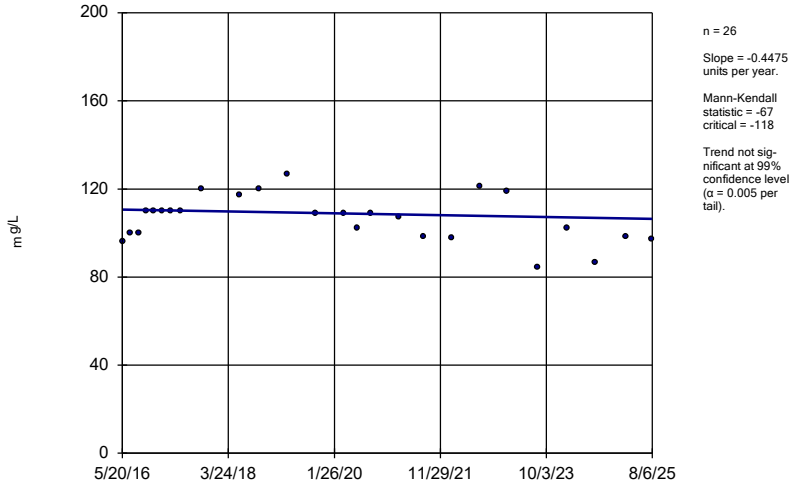
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/14/2025 4:24 PM View: Appendix III Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.1.01 Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

HGWC-7



n = 26

Slope = -0.4475 units per year.

Mann-Kendall statistic = -67
critical = -118

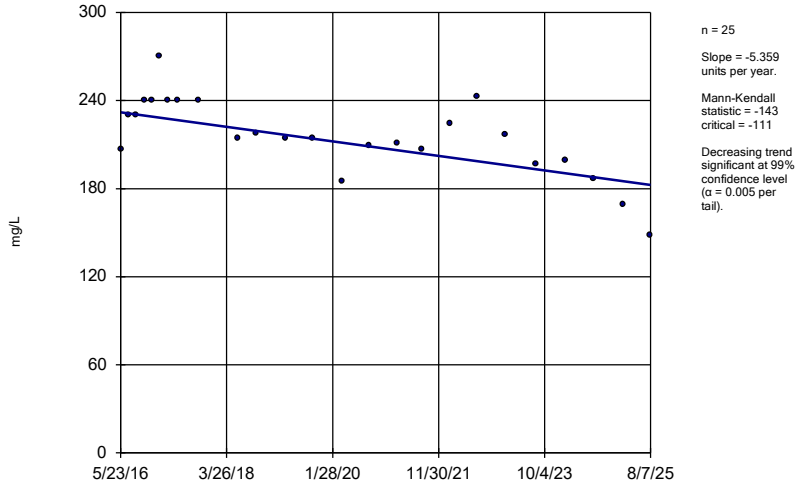
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/14/2025 4:24 PM View: Appendix III Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.1.01 Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

HGWC-9



n = 25

Slope = -5.359 units per year.

Mann-Kendall statistic = -143
critical = -111

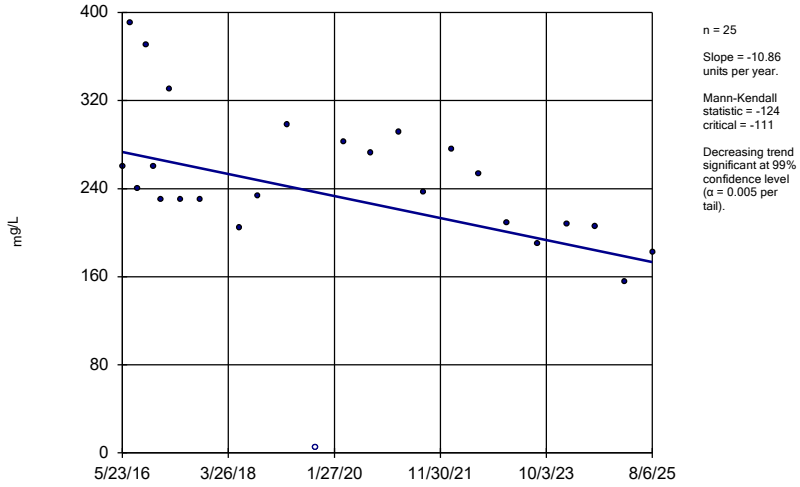
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/14/2025 4:24 PM View: Appendix III Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.1.01 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

HGWC-11



n = 25

Slope = -10.86 units per year.

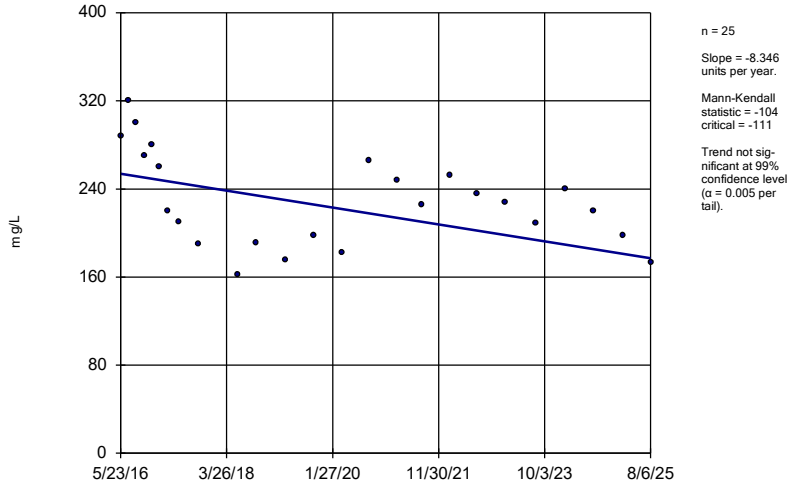
Mann-Kendall statistic = -124
critical = -111

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/14/2025 4:24 PM View: Appendix III Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

HGWC-12



n = 25

Slope = -8.346 units per year.

Mann-Kendall statistic = -104 critical = -111

Trend not significant at 99% confidence level (α = 0.005 per tail).

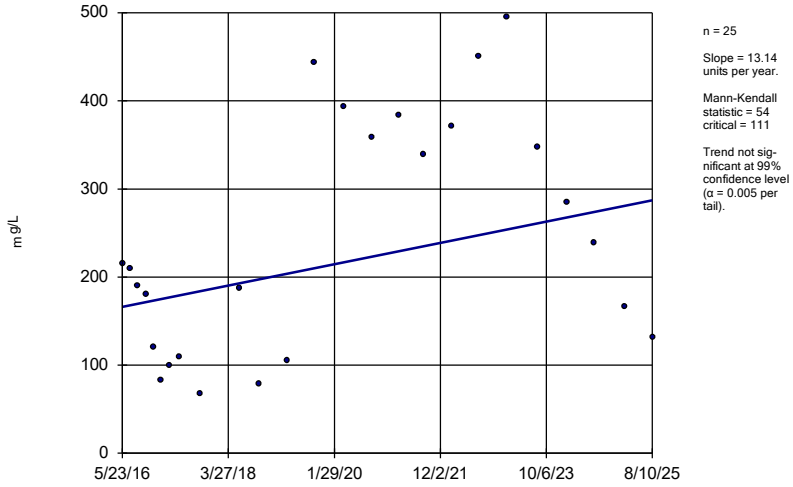
Constituent: Sulfate Analysis Run 10/14/2025 4:24 PM View: Appendix III Trend Test

Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.1.01 Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

HGWC-13



n = 25

Slope = 13.14 units per year.

Mann-Kendall statistic = 54 critical = 111

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/14/2025 4:24 PM View: Appendix III Trend Test

Plant Hammond Client: Southern Company Data: Hammond AP-1

FIGURE F.

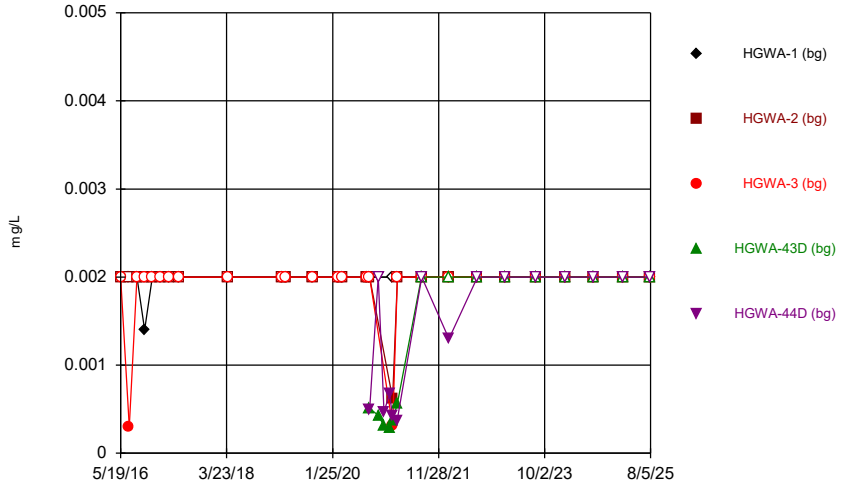
Upper Tolerance Limits - Summary Table

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 10/16/2025, 3:35 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	n/a	0.002	n/a	n/a	n/a	n/a	111	85.59	n/a	n/a	0.003368	NP Inter(NDs)
Arsenic (mg/L)	n/a	0.0036	n/a	n/a	n/a	n/a	117	71.79	n/a	n/a	0.002475	NP Inter(NDs)
Barium (mg/L)	n/a	0.46	n/a	n/a	n/a	n/a	117	0	n/a	n/a	0.002475	NP Inter(normality)
Beryllium (mg/L)	n/a	0.0004	n/a	n/a	n/a	n/a	111	78.38	n/a	n/a	0.003368	NP Inter(NDs)
Cadmium (mg/L)	n/a	0.0005	n/a	n/a	n/a	n/a	117	84.62	n/a	n/a	0.002475	NP Inter(NDs)
Chromium (mg/L)	n/a	0.0079	n/a	n/a	n/a	n/a	111	86.49	n/a	n/a	0.003368	NP Inter(NDs)
Cobalt (mg/L)	n/a	0.038	n/a	n/a	n/a	n/a	117	71.79	n/a	n/a	0.002475	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	n/a	1.571	n/a	n/a	n/a	n/a	117	0	None	sqrt(x)	0.05	Inter
Fluoride (mg/L)	n/a	1.5	n/a	n/a	n/a	n/a	122	26.23	n/a	n/a	0.001915	NP Inter(normality)
Lead (mg/L)	n/a	0.001	n/a	n/a	n/a	n/a	111	73.87	n/a	n/a	0.003368	NP Inter(NDs)
Lithium (mg/L)	n/a	0.064	n/a	n/a	n/a	n/a	112	17.86	n/a	n/a	0.003199	NP Inter(normality)
Mercury (mg/L)	n/a	0.0002	n/a	n/a	n/a	n/a	94	97.87	n/a	n/a	0.008054	NP Inter(NDs)
Molybdenum (mg/L)	n/a	0.01	n/a	n/a	n/a	n/a	119	78.15	n/a	n/a	0.002234	NP Inter(NDs)
Selenium (mg/L)	n/a	0.005	n/a	n/a	n/a	n/a	117	94.87	n/a	n/a	0.002475	NP Inter(NDs)
Thallium (mg/L)	n/a	0.0005	n/a	n/a	n/a	n/a	117	99.15	n/a	n/a	0.002475	NP Inter(NDs)

Sanitas™ v.10.1.01 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

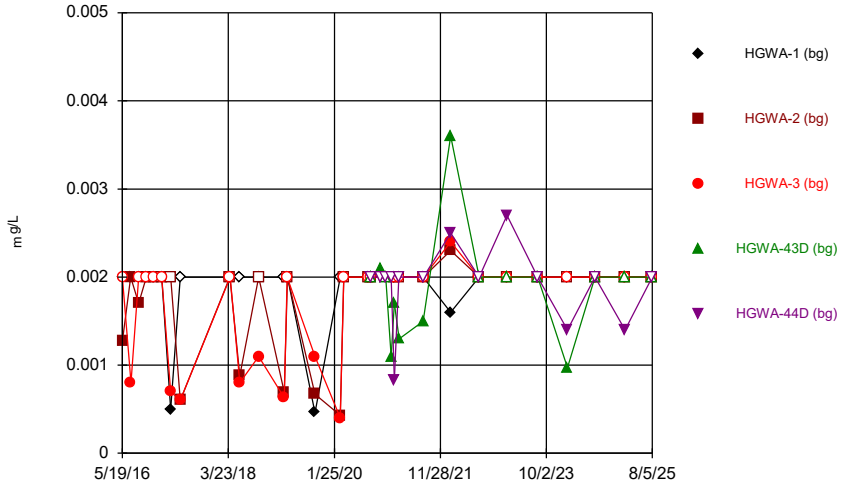
Time Series



Constituent: Antimony Analysis Run 10/16/2025 3:34 PM View: UTL
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.1.01 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

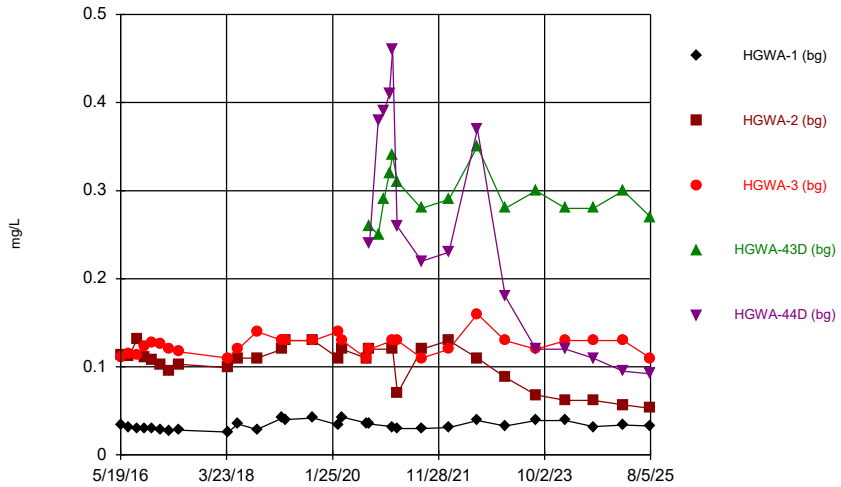
Time Series



Constituent: Arsenic Analysis Run 10/16/2025 3:34 PM View: UTL
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.1.01 Sanitas software utilized by Groundwater Stats Consulting. UG

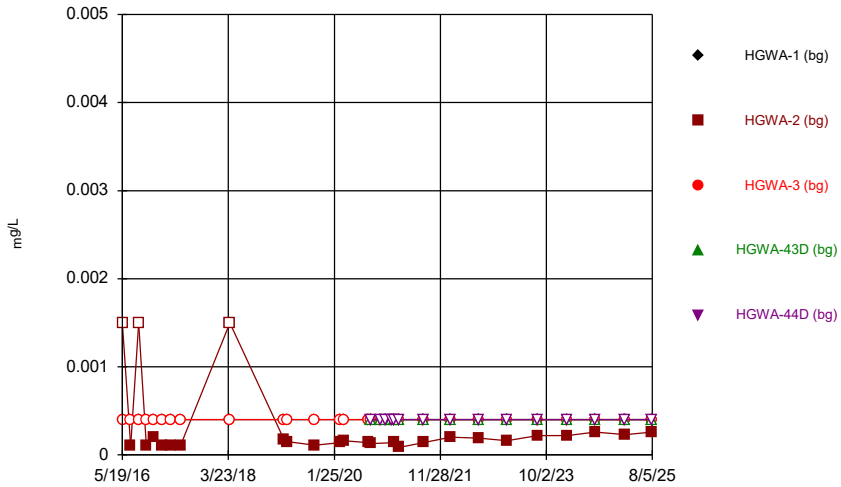
Time Series



Constituent: Barium Analysis Run 10/16/2025 3:34 PM View: UTL
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.1.01 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

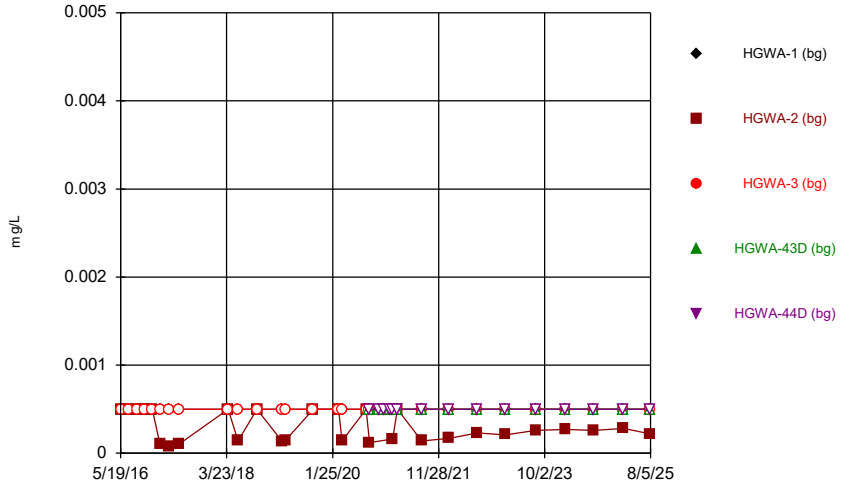
Time Series



Constituent: Beryllium Analysis Run 10/16/2025 3:34 PM View: UTL
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.1.01 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

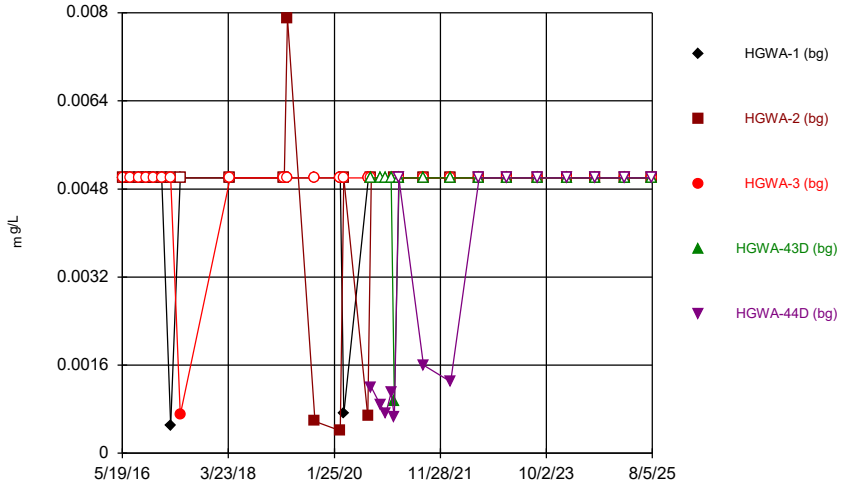
Time Series



Constituent: Cadmium Analysis Run 10/16/2025 3:34 PM View: UTL
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.1.01 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

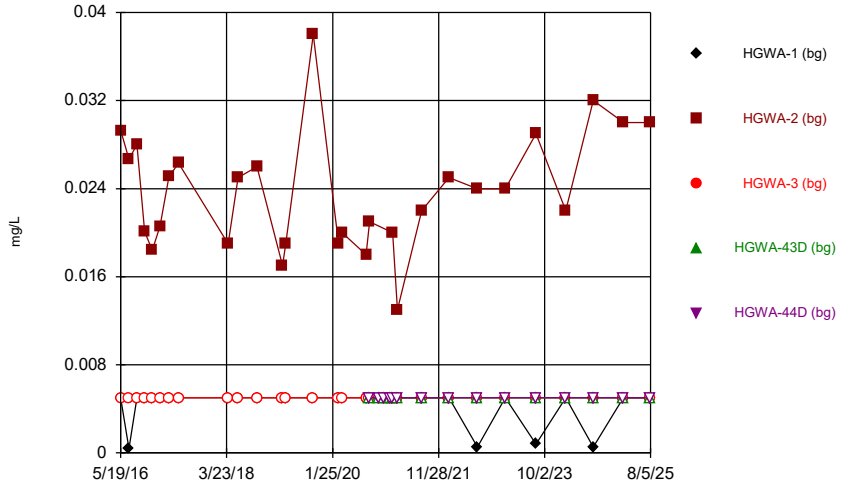
Time Series



Constituent: Chromium Analysis Run 10/16/2025 3:34 PM View: UTL
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.1.01 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

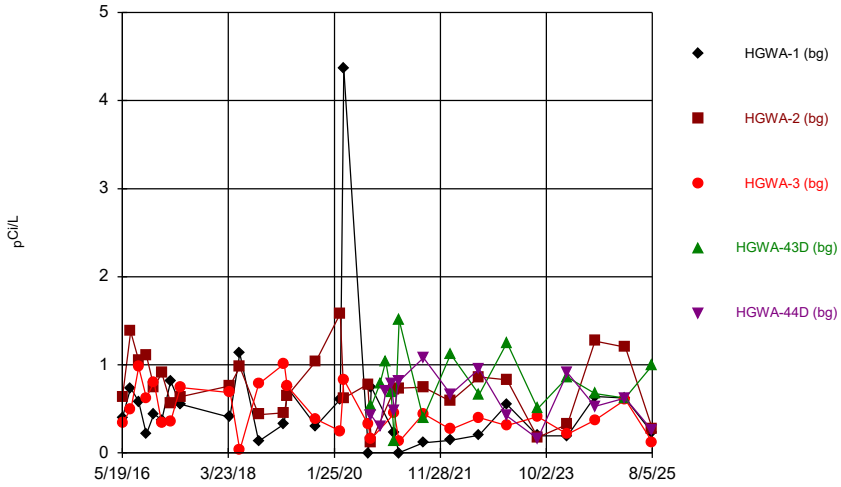
Time Series



Constituent: Cobalt Analysis Run 10/16/2025 3:34 PM View: UTL
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.1.01 Sanitas software utilized by Groundwater Stats Consulting. UG

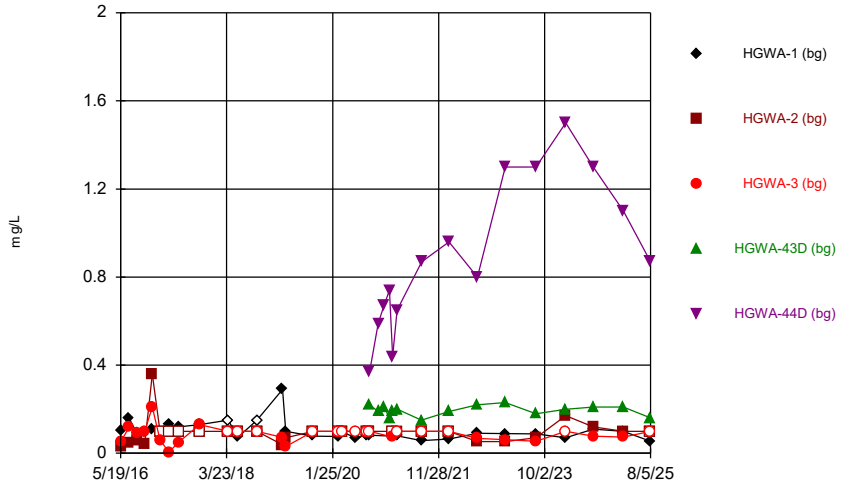
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 10/16/2025 3:34 PM View: UTL
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.1.01 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

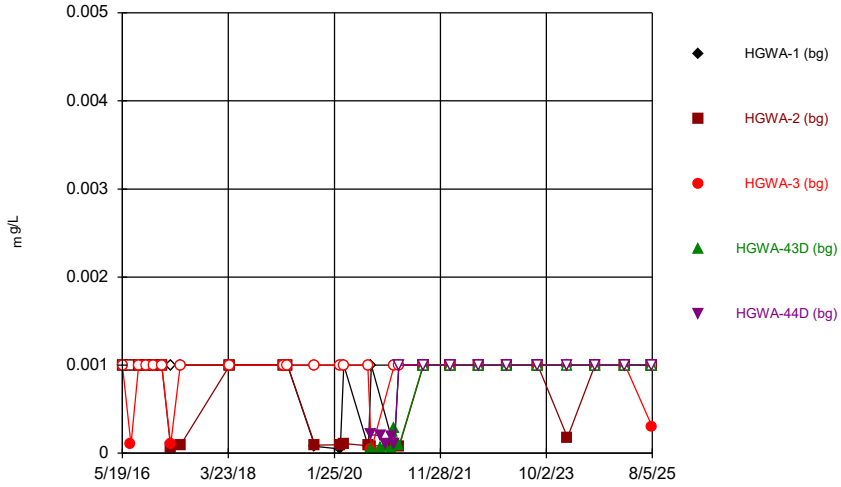
Time Series



Constituent: Fluoride Analysis Run 10/16/2025 3:34 PM View: UTL
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.1.01 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

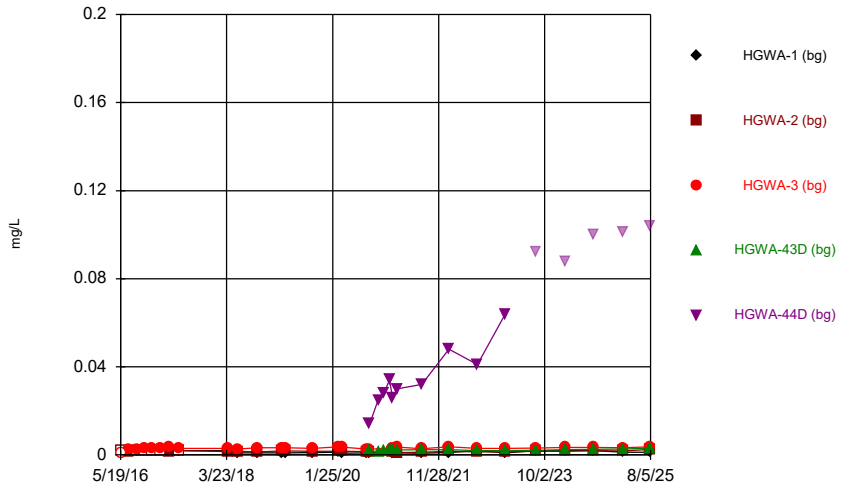
Time Series



Constituent: Lead Analysis Run 10/16/2025 3:34 PM View: UTL
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.1.01 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

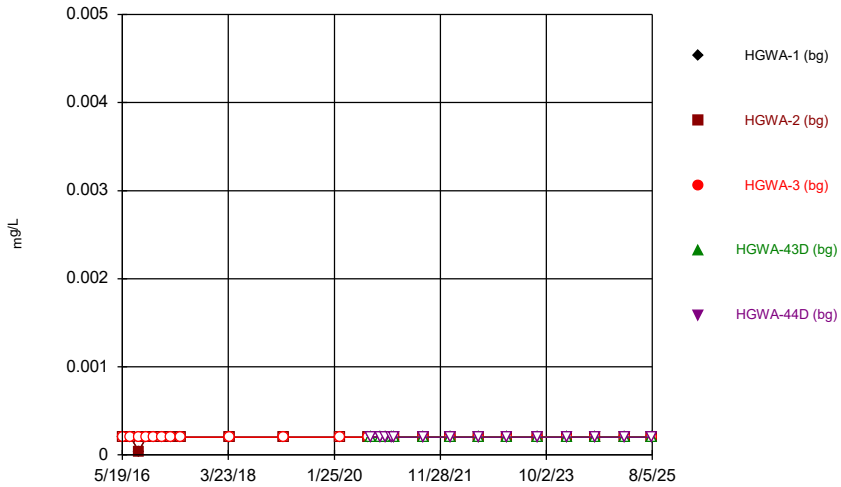
Time Series



Constituent: Lithium Analysis Run 10/16/2025 3:34 PM View: UTL
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.1.01 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

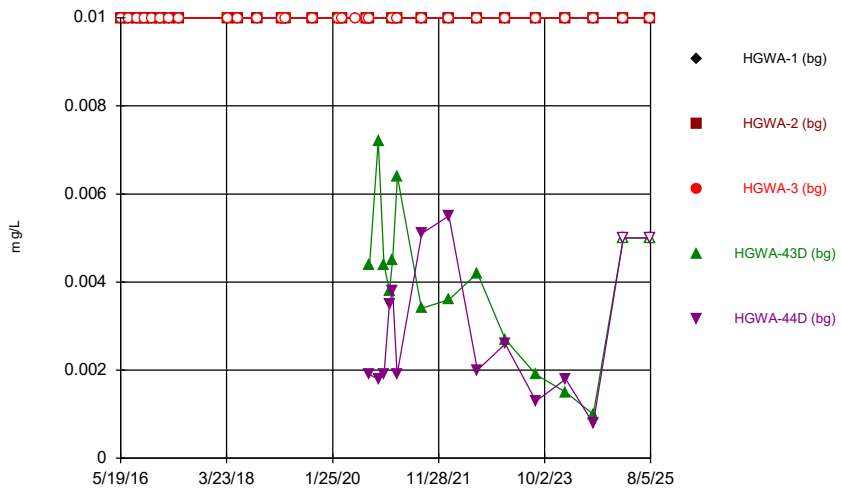
Time Series



Constituent: Mercury Analysis Run 10/16/2025 3:34 PM View: UTL
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.1.01 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

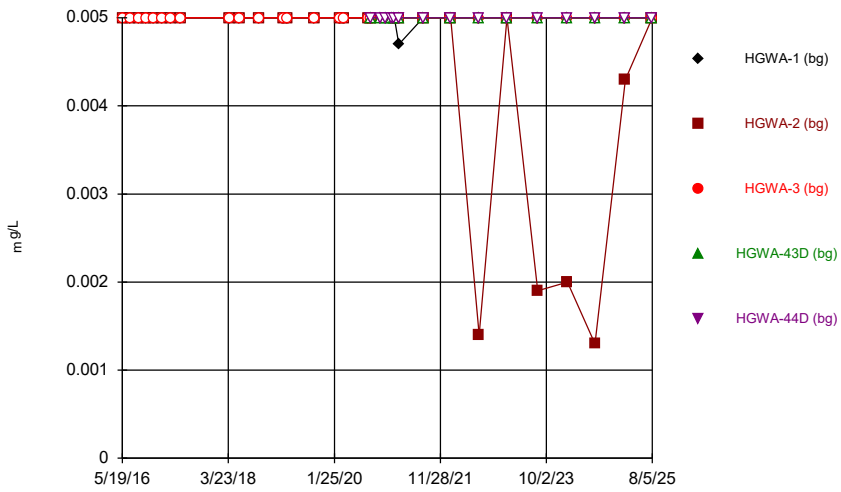
Time Series



Constituent: Molybdenum Analysis Run 10/16/2025 3:34 PM View: UTL
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.1.01 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

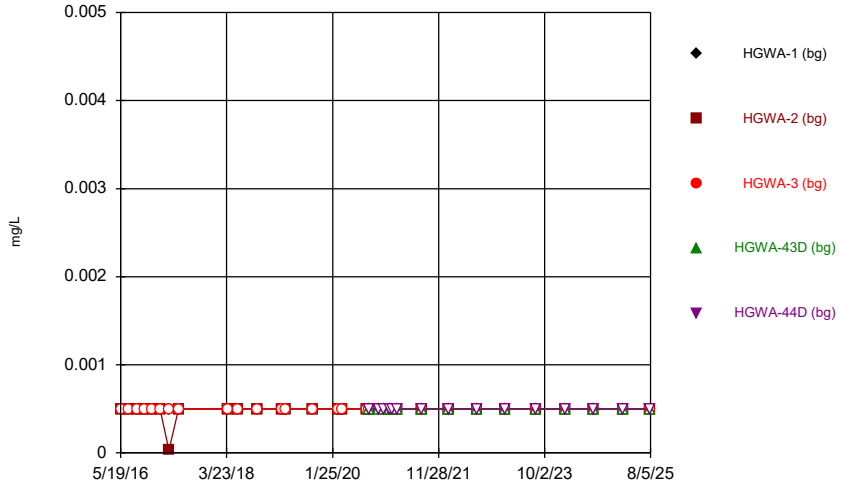
Time Series



Constituent: Selenium Analysis Run 10/16/2025 3:34 PM View: UTL
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.1.01 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

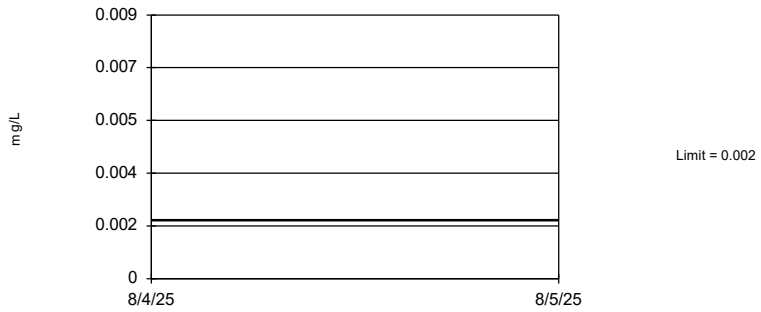
Time Series



Constituent: Thallium Analysis Run 10/16/2025 3:34 PM View: UTL
Plant Hammond Client: Southern Company Data: Hammond AP-1

Tolerance Limit

Interwell Non-parametric

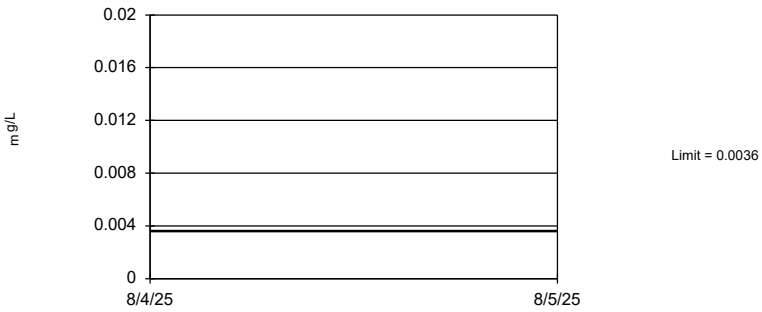


Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 111 background values. 85.59% NDs. 95.9% coverage at alpha=0.01; 97.46% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.003368.

Constituent: Antimony Analysis Run 10/16/2025 3:33 PM View: UTL
Plant Hammond Client: Southern Company Data: Hammond AP-1

Tolerance Limit

Interwell Non-parametric

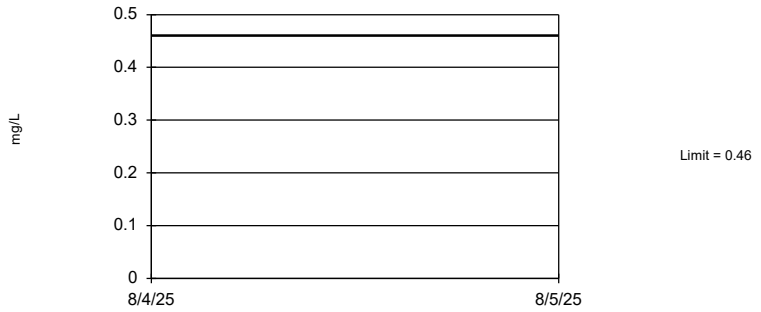


Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 117 background values. 71.79% NDs. 96.29% coverage at alpha=0.01; 97.46% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.002475.

Constituent: Arsenic Analysis Run 10/16/2025 3:33 PM View: UTL
Plant Hammond Client: Southern Company Data: Hammond AP-1

Tolerance Limit

Interwell Non-parametric

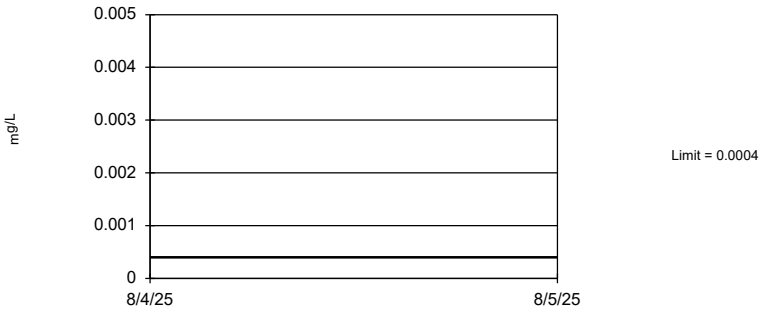


Non-parametric test used in lieu of parametric tolerance limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 117 background values. 96.29% coverage at alpha=0.01; 97.46% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.002475.

Constituent: Barium Analysis Run 10/16/2025 3:33 PM View: UTL
Plant Hammond Client: Southern Company Data: Hammond AP-1

Tolerance Limit

Interwell Non-parametric

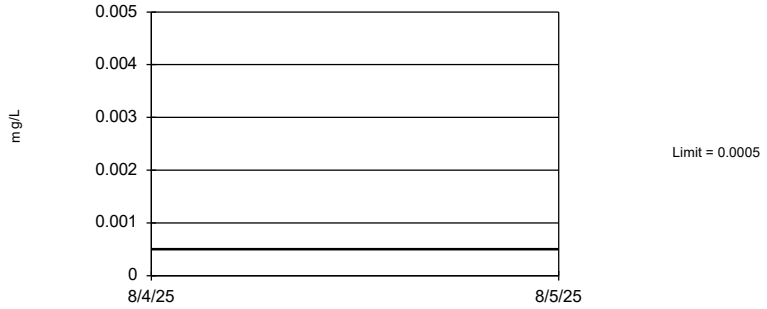


Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 111 background values. 78.38% NDs. 95.9% coverage at alpha=0.01; 97.46% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.003368.

Constituent: Beryllium Analysis Run 10/16/2025 3:33 PM View: UTL
Plant Hammond Client: Southern Company Data: Hammond AP-1

Tolerance Limit

Interwell Non-parametric

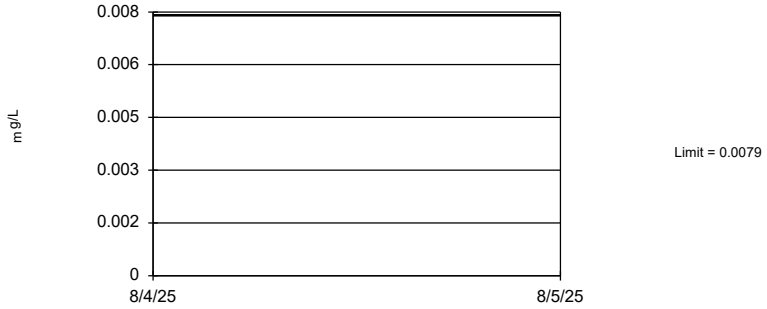


Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 117 background values. 84.62% NDs. 96.29% coverage at alpha=0.01; 97.46% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.002475.

Constituent: Cadmium Analysis Run 10/16/2025 3:33 PM View: UTL
Plant Hammond Client: Southern Company Data: Hammond AP-1

Tolerance Limit

Interwell Non-parametric

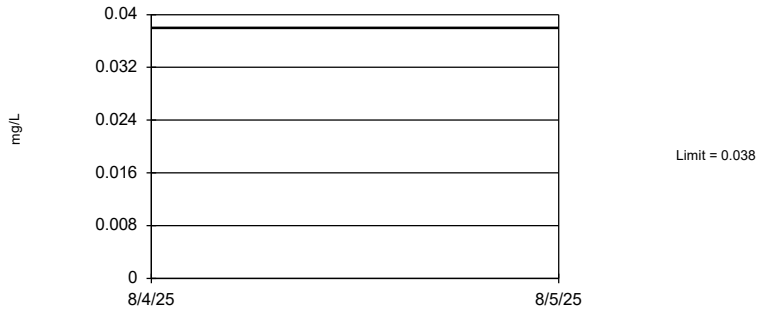


Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 111 background values. 86.49% NDs. 95.9% coverage at alpha=0.01; 97.46% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.003368.

Constituent: Chromium Analysis Run 10/16/2025 3:33 PM View: UTL
Plant Hammond Client: Southern Company Data: Hammond AP-1

Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 117 background values. 71.79% NDs. 96.29% coverage at alpha=0.01; 97.46% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.002475.

Constituent: Cobalt Analysis Run 10/16/2025 3:33 PM View: UTL
Plant Hammond Client: Southern Company Data: Hammond AP-1

Tolerance Limit

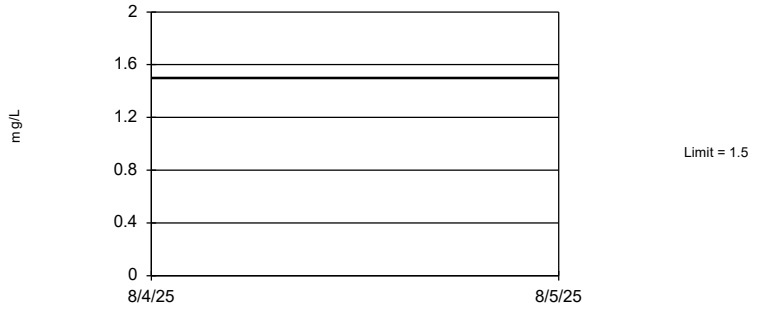
Interwell Parametric

95% coverage. Background Data Summary (based on square root transformation): Mean=0.7409, Std. Dev.=0.2696, n=117. Normality test: Chi Squared @alpha = 0.01, calculated = 8.726, critical = 14.07. Report alpha = 0.05.

Constituent: Combined Radium 226 + 228 Analysis Run 10/16/2025 3:33 PM View: UTL
Plant Hammond Client: Southern Company Data: Hammond AP-1

Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 122 background values. 26.23% NDs. 96.29% coverage at alpha=0.01; 97.46% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.001915.

Constituent: Fluoride Analysis Run 10/16/2025 3:33 PM View: UTL
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.1.01 Sanitas software utilized by Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric

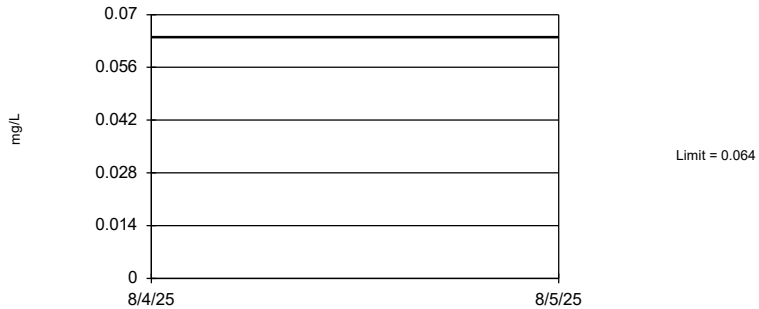
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 111 background values. 73.87% NDs. 95.9% coverage at alpha=0.01; 97.46% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.003368.

Constituent: Lead Analysis Run 10/16/2025 3:33 PM View: UTL
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.1.01 Sanitas software utilized by Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



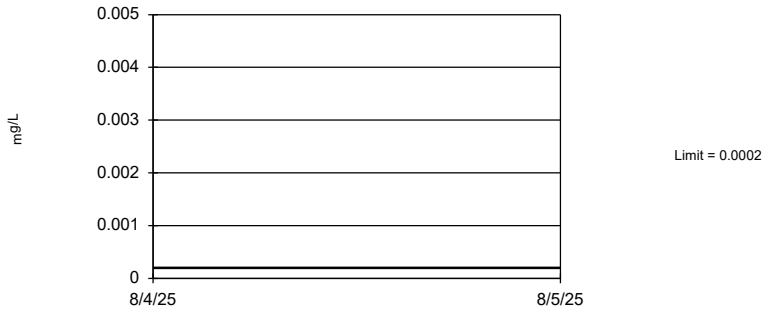
Non-parametric test used in lieu of parametric tolerance limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 112 background values. 17.86% NDs. 95.9% coverage at alpha=0.01; 97.46% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.003199.

Constituent: Lithium Analysis Run 10/16/2025 3:33 PM View: UTL
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.1.01 Sanitas software utilized by Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 94 background values. 97.87% NDs. 95.12% coverage at alpha=0.01; 96.68% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.008054.

Constituent: Mercury Analysis Run 10/16/2025 3:33 PM View: UTL
Plant Hammond Client: Southern Company Data: Hammond AP-1

Tolerance Limit

Interwell Non-parametric

Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 119 background values. 78.15% NDs. 96.29% coverage at alpha=0.01; 97.46% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.002234.

Constituent: Molybdenum Analysis Run 10/16/2025 3:33 PM View: UTL

Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.1.01 Sanitas software utilized by Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric

Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 117 background values. 94.87% NDs. 96.29% coverage at alpha=0.01; 97.46% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.002475.

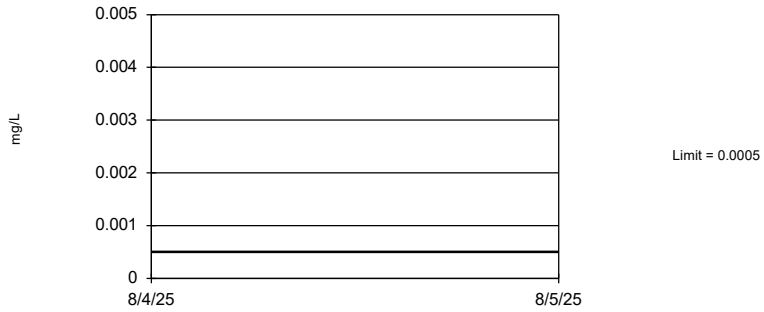
Constituent: Selenium Analysis Run 10/16/2025 3:33 PM View: UTL

Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.1.01 Sanitas software utilized by Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 117 background values. 99.15% NDs. 96.29% coverage at alpha=0.01; 97.46% coverage at alpha=0.05; 99.41% coverage at alpha=0.5. Report alpha = 0.002475.

Constituent: Thallium Analysis Run 10/16/2025 3:33 PM View: UTL

Plant Hammond Client: Southern Company Data: Hammond AP-1

FIGURE G.

PLANT HAMMOND AP-1 GWPS				
Constituent Name	**MCL**	**CCR-Rule Specified**	**Background Limit**	**GWPS**
Antimony, Total (mg/L)	0.006		0.002	0.006
Arsenic, Total (mg/L)	0.01		0.0036	0.01
Barium, Total (mg/L)	2		0.46	2
Beryllium, Total (mg/L)	0.004		0.0004	0.004
Cadmium, Total (mg/L)	0.005		0.0005	0.005
Chromium, Total (mg/L)	0.1		0.0079	0.1
Cobalt, Total (mg/L)	n/a	0.006	0.038	0.038
Combined Radium, Total (pCi/L)	5		1.57	5
Fluoride, Total (mg/L)	4		1.5	4
Lead, Total (mg/L)	n/a	0.015	0.001	0.015
Lithium, Total (mg/L)	n/a	0.04	0.064	0.064
Mercury, Total (mg/L)	0.002		0.0002	0.002
Molybdenum, Total (mg/L)	n/a	0.1	0.01	0.1
Selenium, Total (mg/L)	0.05		0.005	0.05
Thallium, Total (mg/L)	0.002		0.0005	0.002

**Gray cell indicates background is higher than MCL or CCR-Rule*

**MCL = Maximum Contaminant Level*

**CCR = Coal Combustion Residuals*

**GWPS = Groundwater Protection Statard*

FIGURE H.

Confidence Interval Summary Table - Significant Results

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 10/16/2025, 3:39 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	**HGWC-13**	**0.4453**	**0.3769**	**0.01**	**Yes**	**28**	**0.4111**	**0.07317**	**0**	**None**	**No**	**0.01**	**Param.**
Molybdenum (mg/L)	**HGWC-8**	**0.4663**	**0.3799**	**0.1**	**Yes**	**29**	**0.4086**	**0.1203**	**0**	**None**	**x^2**	**0.01**	**Param.**

Confidence Interval Summary Table - All Results

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 10/16/2025, 3:39 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	HGWC-7	0.002	0.0017	0.006	No	26	0.001925	0.0003285	92.31	None	No	0.01	NP (NDs)
Antimony (mg/L)	HGWC-8	0.002	0.00064	0.006	No	26	0.001948	0.0002667	96.15	None	No	0.01	NP (NDs)
Antimony (mg/L)	HGWC-9	0.002	0.00092	0.006	No	26	0.001773	0.0005516	84.62	None	No	0.01	NP (NDs)
Antimony (mg/L)	HGWC-10	0.002	0.0018	0.006	No	26	0.00194	0.0002661	92.31	None	No	0.01	NP (NDs)
Antimony (mg/L)	HGWC-11	0.002	0.00038	0.006	No	26	0.001938	0.0003177	96.15	None	No	0.01	NP (NDs)
Antimony (mg/L)	HGWC-13	0.002	0.00061	0.006	No	26	0.001567	0.0007315	73.08	None	No	0.01	NP (NDs)
Antimony (mg/L)	MW-24D	0.002	0.0017	0.006	No	17	0.001836	0.0004131	82.35	None	No	0.01	NP (NDs)
Antimony (mg/L)	MW-27D	0.002	0.00031	0.006	No	17	0.001401	0.0008369	64.71	None	No	0.01	NP (NDs)
Arsenic (mg/L)	HGWC-7	0.002	0.0019	0.01	No	28	0.001996	0.0000189	96.43	None	No	0.01	NP (NDs)
Arsenic (mg/L)	HGWC-8	0.002	0.002	0.01	No	28	0.002	1.8e-11	96.43	None	No	0.01	NP (NDs)
Arsenic (mg/L)	HGWC-9	0.002	0.0008	0.01	No	28	0.001858	0.0004348	85.71	None	No	0.01	NP (NDs)
Arsenic (mg/L)	HGWC-11	0.0022	0.002	0.01	No	28	0.00208	0.0009037	53.57	None	No	0.01	NP (NDs)
Arsenic (mg/L)	HGWC-12	0.00422	0.003059	0.01	No	28	0.003639	0.001242	10.71	None	No	0.01	Param.
Arsenic (mg/L)	**HGWC-13**	**0.4453**	**0.3769**	**0.01**	**Yes**	**28**	**0.4111**	**0.07317**	**0**	**None**	**No**	**0.01**	**Param.**
Arsenic (mg/L)	MW-19	0.002	0.00045	0.01	No	17	0.001909	0.0003759	94.12	None	No	0.01	NP (NDs)
Arsenic (mg/L)	MW-20	0.0023	0.00094	0.01	No	17	0.00186	0.000468	82.35	None	No	0.01	NP (NDs)
Arsenic (mg/L)	MW-27D	0.005	0.0013	0.01	No	17	0.004011	0.001849	76.47	None	No	0.01	NP (NDs)
Barium (mg/L)	HGWC-7	0.07535	0.06851	2	No	28	0.07193	0.007317	0	None	No	0.01	Param.
Barium (mg/L)	HGWC-8	0.07038	0.05841	2	No	28	0.06439	0.01281	0	None	No	0.01	Param.
Barium (mg/L)	HGWC-9	0.1126	0.08945	2	No	28	0.101	0.02477	0	None	No	0.01	Param.
Barium (mg/L)	HGWC-10	0.07904	0.05969	2	No	28	0.06937	0.02071	0	None	No	0.01	Param.
Barium (mg/L)	HGWC-11	0.04649	0.03238	2	No	28	0.04097	0.01777	0	None	x^(1/3)	0.01	Param.
Barium (mg/L)	HGWC-12	0.1039	0.08222	2	No	28	0.09304	0.02315	0	None	No	0.01	Param.
Barium (mg/L)	HGWC-13	0.08282	0.06336	2	No	28	0.07309	0.02082	0	None	No	0.01	Param.
Barium (mg/L)	MW-19	0.05589	0.03964	2	No	17	0.04776	0.01297	0	None	No	0.01	Param.
Barium (mg/L)	MW-20	0.09475	0.08784	2	No	17	0.09129	0.00552	0	None	No	0.01	Param.
Barium (mg/L)	MW-24D	0.056	0.043	2	No	17	0.05618	0.01926	0	None	No	0.01	NP (normality)
Barium (mg/L)	MW-27D	1.1	0.7446	2	No	17	0.9224	0.2836	0	None	No	0.01	Param.
Beryllium (mg/L)	HGWC-7	0.0004	0.00019	0.004	No	26	0.0003672	0.00009429	88.46	None	No	0.01	NP (NDs)
Beryllium (mg/L)	HGWC-8	0.0005	0.000087	0.004	No	26	0.0003501	0.0002003	61.54	None	No	0.01	NP (NDs)
Beryllium (mg/L)	HGWC-11	0.0004	0.00015	0.004	No	26	0.0003102	0.0001386	69.23	None	No	0.01	NP (NDs)
Beryllium (mg/L)	HGWC-13	0.0005	0.000099	0.004	No	26	0.0003313	0.0002018	57.69	None	No	0.01	NP (NDs)
Beryllium (mg/L)	MW-19	0.0004	0.000058	0.004	No	17	0.0003799	0.00008295	94.12	None	No	0.01	NP (NDs)
Cadmium (mg/L)	HGWC-7	0.0005	0.0002	0.005	No	26	0.0004381	0.0001306	80.77	None	No	0.01	NP (NDs)
Cadmium (mg/L)	HGWC-8	0.0003	0.00017	0.005	No	26	0.0003315	0.0003734	3.846	None	No	0.01	NP (normality)
Cadmium (mg/L)	HGWC-9	0.0005	0.0002	0.005	No	26	0.0004565	0.0001242	88.46	None	No	0.01	NP (NDs)
Cadmium (mg/L)	HGWC-10	0.0005	0.0002	0.005	No	26	0.0003967	0.0001745	73.08	None	No	0.01	NP (NDs)
Cadmium (mg/L)	HGWC-11	0.0005	0.0001	0.005	No	26	0.0004537	0.0001308	88.46	None	No	0.01	NP (NDs)
Cadmium (mg/L)	HGWC-12	0.0005	0.0003	0.005	No	26	0.0004515	0.0001199	84.62	None	No	0.01	NP (NDs)
Cadmium (mg/L)	MW-19	0.0005	0.00017	0.005	No	17	0.0003565	0.0002438	35.29	None	No	0.01	NP (normality)
Chromium (mg/L)	HGWC-7	0.005	0.0021	0.1	No	26	0.006678	0.01322	73.08	None	No	0.01	NP (NDs)
Chromium (mg/L)	HGWC-8	0.005	0.0015	0.1	No	26	0.004366	0.001523	84.62	None	No	0.01	NP (NDs)
Chromium (mg/L)	HGWC-9	0.005	0.0013	0.1	No	26	0.004369	0.001515	84.62	None	No	0.01	NP (NDs)
Chromium (mg/L)	HGWC-10	0.005	0.0014	0.1	No	26	0.005142	0.003269	84.62	None	No	0.01	NP (NDs)
Chromium (mg/L)	HGWC-11	0.005	0.0012	0.1	No	26	0.004504	0.001406	88.46	None	No	0.01	NP (NDs)
Chromium (mg/L)	HGWC-12	0.005	0.0025	0.1	No	26	0.00457	0.001254	88.46	None	No	0.01	NP (NDs)
Chromium (mg/L)	HGWC-13	0.005	0.00059	0.1	No	26	0.004483	0.001461	88.46	None	No	0.01	NP (NDs)
Chromium (mg/L)	MW-19	0.005	0.0011	0.1	No	17	0.003613	0.00197	64.71	None	No	0.01	NP (NDs)
Chromium (mg/L)	MW-20	0.005	0.00071	0.1	No	17	0.004229	0.001716	82.35	None	No	0.01	NP (NDs)
Chromium (mg/L)	MW-24D	0.005	0.0017	0.1	No	17	0.004536	0.001328	88.24	None	No	0.01	NP (NDs)
Chromium (mg/L)	MW-27D	0.005	0.00082	0.1	No	17	0.004501	0.001408	88.24	None	No	0.01	NP (NDs)
Cobalt (mg/L)	HGWC-7	0.0014	0.00067	0.038	No	28	0.001624	0.001666	17.86	None	No	0.01	NP (normality)
Cobalt (mg/L)	HGWC-8	0.0023	0.0018	0.038	No	28	0.002781	0.002777	7.143	None	No	0.01	NP (normality)
Cobalt (mg/L)	HGWC-9	0.001	0.00057	0.038	No	28	0.001462	0.001705	17.86	None	No	0.01	NP (normality)
Cobalt (mg/L)	HGWC-10	0.005	0.0012	0.038	No	28	0.004093	0.001772	78.57	None	No	0.01	NP (NDs)
Cobalt (mg/L)	HGWC-11	0.005	0.0014	0.038	No	28	0.00342	0.001823	53.57	None	No	0.01	NP (NDs)
Cobalt (mg/L)	HGWC-12	0.0016	0.0012	0.038	No	28	0.001486	0.0004378	10.71	None	No	0.01	NP (normality)
Cobalt (mg/L)	HGWC-13	0.005926	0.003012	0.038	No	28	0.005693	0.005398	3.571	None	ln(x)	0.01	Param.
Cobalt (mg/L)	MW-19	0.03731	0.02422	0.038	No	17	0.03076	0.01044	0	None	No	0.01	Param.
Cobalt (mg/L)	MW-20	0.005	0.0011	0.038	No	17	0.004771	0.0009459	94.12	None	No	0.01	NP (NDs)
Cobalt (mg/L)	MW-24D	0.005	0.0011	0.038	No	17	0.00423	0.001721	82.35	None	No	0.01	NP (NDs)
Cobalt (mg/L)	MW-27D	0.005	0.00045	0.038	No	17	0.004173	0.001843	82.35	None	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	HGWC-7	0.7863	0.4241	5	No	28	0.6525	0.4492	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	HGWC-8	0.8866	0.5939	5	No	28	0.7403	0.3132	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	HGWC-9	0.8307	0.5213	5	No	28	0.676	0.331	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	HGWC-10	0.9685	0.5599	5	No	28	0.7642	0.4372	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	HGWC-11	1.087	0.6629	5	No	28	0.8752	0.4543	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	HGWC-12	0.9371	0.5409	5	No	28	0.739	0.4239	0	None	No	0.01	Param.

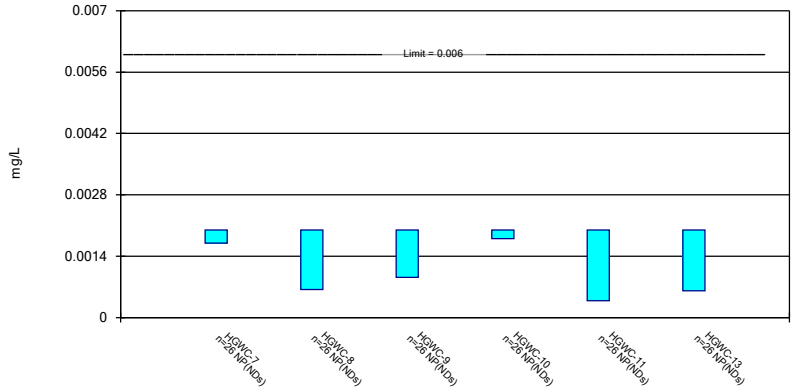
Confidence Interval Summary Table - All Results

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 10/16/2025, 3:39 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Combined Radium 226 + 228 (pCi/L)	HGWC-13	0.877	0.5691	5	No	28	0.7514	0.354	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-19	0.8331	0.4522	5	No	17	0.6426	0.304	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-20	0.9028	0.442	5	No	17	0.6724	0.3677	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-24D	0.5318	0.2087	5	No	17	0.3962	0.2997	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-27D	1.327	0.7678	5	No	17	1.074	0.4918	0	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	HGWC-7	0.13	0.0828	4	No	30	0.1351	0.101	6.667	None	No	0.01	NP (normality)
Fluoride (mg/L)	HGWC-8	0.6031	0.4382	4	No	30	0.5206	0.1834	0	None	No	0.01	Param.
Fluoride (mg/L)	HGWC-9	0.2095	0.09953	4	No	29	0.1728	0.141	6.897	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	HGWC-10	0.1637	0.08406	4	No	29	0.154	0.1286	13.79	None	ln(x)	0.01	Param.
Fluoride (mg/L)	HGWC-11	0.3646	0.2323	4	No	29	0.3118	0.1564	0	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	HGWC-12	0.31	0.17	4	No	29	0.2928	0.2155	3.448	None	No	0.01	NP (normality)
Fluoride (mg/L)	HGWC-13	0.6415	0.4702	4	No	29	0.5558	0.187	0	None	No	0.01	Param.
Fluoride (mg/L)	MW-19	0.2037	0.1031	4	No	17	0.1691	0.1144	0	None	ln(x)	0.01	Param.
Fluoride (mg/L)	MW-20	0.1	0.081	4	No	17	0.09235	0.01303	70.59	None	No	0.01	NP (NDs)
Fluoride (mg/L)	MW-24D	0.09495	0.05882	4	No	17	0.08671	0.03265	23.53	Kaplan-Meier	sqrt(x)	0.01	Param.
Fluoride (mg/L)	MW-27D	0.289	0.2234	4	No	17	0.2576	0.05506	0	None	sqrt(x)	0.01	Param.
Lead (mg/L)	HGWC-7	0.001	0.00051	0.015	No	25	0.0007598	0.0004036	64	None	No	0.01	NP (NDs)
Lead (mg/L)	HGWC-8	0.001	0.0002	0.015	No	24	0.0008553	0.0003311	83.33	None	No	0.01	NP (NDs)
Lead (mg/L)	HGWC-9	0.001	0.00022	0.015	No	24	0.0007214	0.0004042	66.67	None	No	0.01	NP (NDs)
Lead (mg/L)	HGWC-10	0.001	0.00005	0.015	No	24	0.0009604	0.0001939	95.83	None	No	0.01	NP (NDs)
Lead (mg/L)	HGWC-11	0.001	0.0003	0.015	No	24	0.0007941	0.0003677	75	None	No	0.01	NP (NDs)
Lead (mg/L)	HGWC-12	0.001	0.00043	0.015	No	24	0.0008224	0.0003598	79.17	None	No	0.01	NP (NDs)
Lead (mg/L)	HGWC-13	0.001	0.00018	0.015	No	24	0.000755	0.0003923	70.83	None	No	0.01	NP (NDs)
Lead (mg/L)	MW-19	0.001	0.000085	0.015	No	15	0.0007536	0.0004232	73.33	None	No	0.01	NP (NDs)
Lead (mg/L)	MW-20	0.001	0.00013	0.015	No	15	0.0007626	0.0004083	73.33	None	No	0.01	NP (NDs)
Lead (mg/L)	MW-24D	0.001	0.000064	0.015	No	15	0.0006971	0.0004448	66.67	None	No	0.01	NP (NDs)
Lead (mg/L)	MW-27D	0.001	0.00043	0.015	No	15	0.000904	0.0002596	86.67	None	No	0.01	NP (NDs)
Lithium (mg/L)	HGWC-7	0.002595	0.002059	0.064	No	28	0.002327	0.0005736	3.571	None	No	0.01	Param.
Lithium (mg/L)	HGWC-8	0.002738	0.002232	0.064	No	28	0.002312	0.0007565	14.29	None	x^3	0.01	Param.
Lithium (mg/L)	HGWC-9	0.004221	0.003572	0.064	No	28	0.003823	0.0008345	3.571	None	x^2	0.01	Param.
Lithium (mg/L)	HGWC-12	0.0101	0.008081	0.064	No	28	0.009092	0.002163	0	None	No	0.01	Param.
Lithium (mg/L)	HGWC-13	0.0396	0.03226	0.064	No	28	0.03593	0.007852	0	None	No	0.01	Param.
Lithium (mg/L)	MW-19	0.01194	0.007558	0.064	No	17	0.009036	0.004392	11.76	None	x^2	0.01	Param.
Lithium (mg/L)	MW-20	0.002	0.00094	0.064	No	17	0.001459	0.000511	41.18	None	No	0.01	NP (normality)
Lithium (mg/L)	MW-24D	0.00297	0.002625	0.064	No	17	0.002798	0.0002752	0	None	No	0.01	Param.
Lithium (mg/L)	MW-27D	0.009199	0.006604	0.064	No	17	0.007901	0.002071	0	None	No	0.01	Param.
Mercury (mg/L)	HGWC-9	0.0002	0.00004	0.002	No	20	0.000192	0.00003578	95	None	No	0.01	NP (NDs)
Mercury (mg/L)	HGWC-10	0.0002	0.00005	0.002	No	21	0.0001929	0.00003273	95.24	None	No	0.01	NP (NDs)
Mercury (mg/L)	HGWC-11	0.0002	0.00005	0.002	No	20	0.0001925	0.00003354	95	None	No	0.01	NP (NDs)
Mercury (mg/L)	HGWC-13	0.0002	0.00005	0.002	No	20	0.0001845	0.00004774	90	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	HGWC-7	0.04093	0.03294	0.1	No	29	0.03693	0.008724	0	None	No	0.01	Param.
Molybdenum (mg/L)	**HGWC-8**	**0.4663**	**0.3799**	**0.1**	**Yes**	**29**	**0.4086**	**0.1203**	**0**	**None**	**x^2**	**0.01**	**Param.**
Molybdenum (mg/L)	HGWC-9	0.031	0.0229	0.1	No	28	0.04159	0.08568	0	None	No	0.01	NP (normality)
Molybdenum (mg/L)	HGWC-10	0.01	0.0014	0.1	No	28	0.006578	0.004338	60.71	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	HGWC-11	0.02596	0.01657	0.1	No	28	0.02127	0.01005	0	None	No	0.01	Param.
Molybdenum (mg/L)	HGWC-12	0.04856	0.04502	0.1	No	28	0.04679	0.003779	0	None	No	0.01	Param.
Molybdenum (mg/L)	HGWC-13	0.03333	0.02547	0.1	No	28	0.0294	0.008411	0	None	No	0.01	Param.
Molybdenum (mg/L)	MW-19	0.04574	0.02179	0.1	No	17	0.03376	0.01911	11.76	None	No	0.01	Param.
Molybdenum (mg/L)	MW-24D	0.01	0.00095	0.1	No	17	0.004073	0.004033	23.53	None	No	0.01	NP (normality)
Molybdenum (mg/L)	MW-27D	0.0058	0.0017	0.1	No	17	0.005841	0.00875	5.882	None	No	0.01	NP (normality)
Selenium (mg/L)	HGWC-8	0.005	0.0024	0.05	No	28	0.004907	0.0004914	96.43	None	No	0.01	NP (NDs)
Selenium (mg/L)	HGWC-9	0.005	0.0037	0.05	No	28	0.004954	0.0002457	96.43	None	No	0.01	NP (NDs)
Selenium (mg/L)	HGWC-10	0.005	0.0035	0.05	No	28	0.004186	0.001226	64.29	None	No	0.01	NP (NDs)
Selenium (mg/L)	HGWC-11	0.01383	0.007191	0.05	No	28	0.01051	0.007105	3.571	None	No	0.01	Param.
Selenium (mg/L)	HGWC-12	0.005	0.0011	0.05	No	28	0.004861	0.000737	96.43	None	No	0.01	NP (NDs)
Selenium (mg/L)	HGWC-13	0.005	0.0016	0.05	No	28	0.004706	0.001095	92.86	None	No	0.01	NP (NDs)
Selenium (mg/L)	MW-19	0.0082	0.0026	0.05	No	17	0.01215	0.01814	17.65	None	No	0.01	NP (normality)
Selenium (mg/L)	MW-27D	0.005	0.00012	0.05	No	17	0.004713	0.001184	94.12	None	No	0.01	NP (NDs)
Thallium (mg/L)	HGWC-8	0.0005	0.00018	0.002	No	28	0.0003989	0.0001794	75	None	No	0.01	NP (NDs)
Thallium (mg/L)	HGWC-11	0.0005	0.00008	0.002	No	28	0.00047	0.0001102	92.86	None	No	0.01	NP (NDs)
Thallium (mg/L)	HGWC-12	0.0005	0.0002	0.002	No	28	0.0004151	0.0001668	78.57	None	No	0.01	NP (NDs)
Thallium (mg/L)	HGWC-13	0.0004219	0.0003365	0.002	No	28	0.0003792	0.00009132	14.29	None	No	0.01	Param.
Thallium (mg/L)	MW-19	0.0005	0.00026	0.002	No	17	0.00038	0.0001256	47.06	None	No	0.01	NP (normality)

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

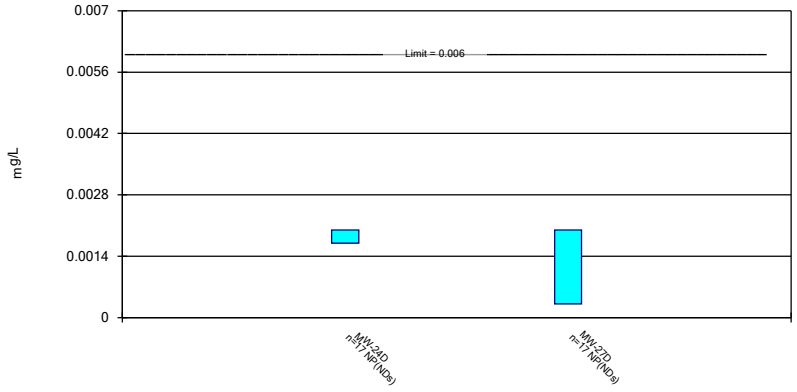


Constituent: Antimony Analysis Run 10/16/2025 3:36 PM View: Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.1.01 Sanitas software utilized by Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

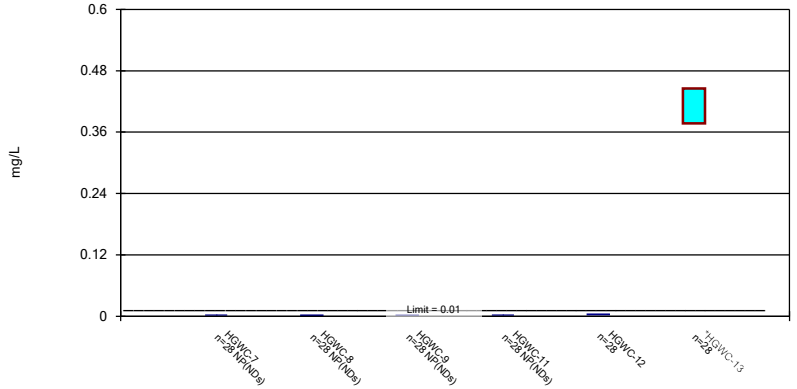


Constituent: Antimony Analysis Run 10/16/2025 3:37 PM View: Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.1.01 Sanitas software utilized by Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

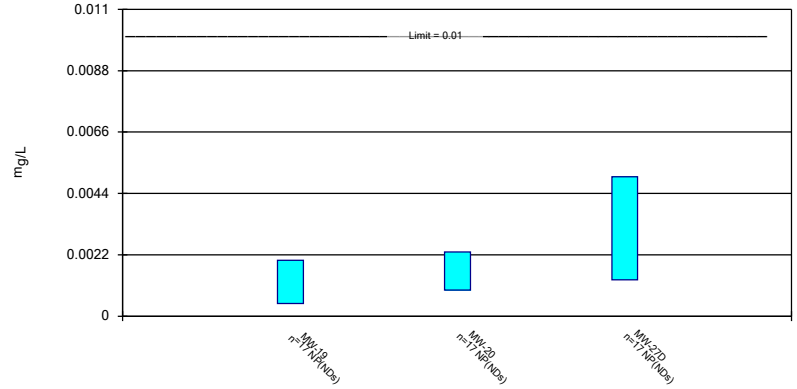


Constituent: Arsenic Analysis Run 10/16/2025 3:37 PM View: Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.1.01 Sanitas software utilized by Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

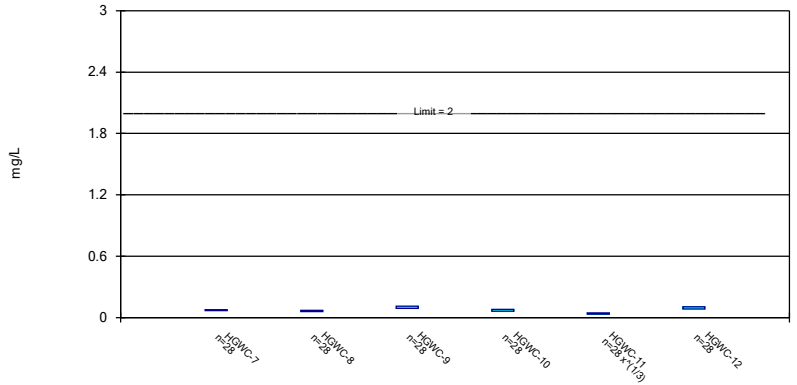
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Arsenic Analysis Run 10/16/2025 3:37 PM View: Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

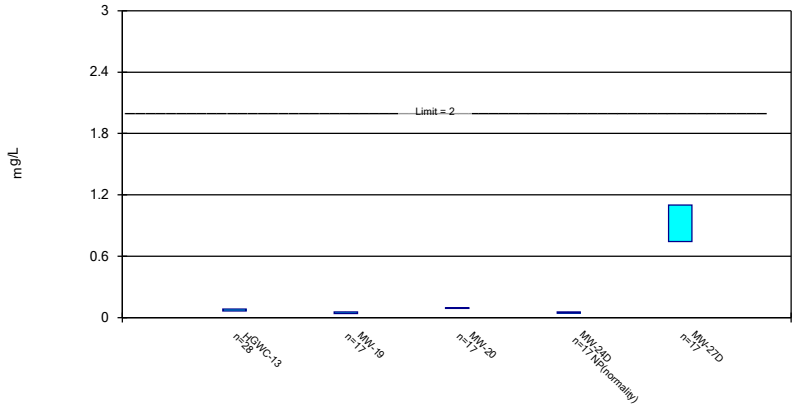


Constituent: Barium Analysis Run 10/16/2025 3:37 PM View: Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.1.01 Sanitas software utilized by Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

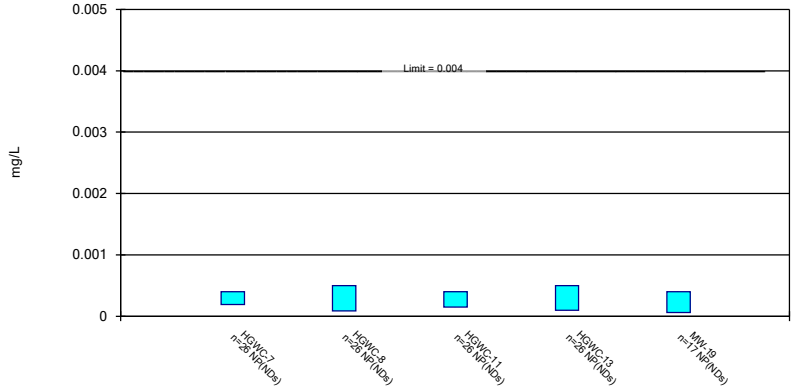


Constituent: Barium Analysis Run 10/16/2025 3:37 PM View: Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.1.01 Sanitas software utilized by Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

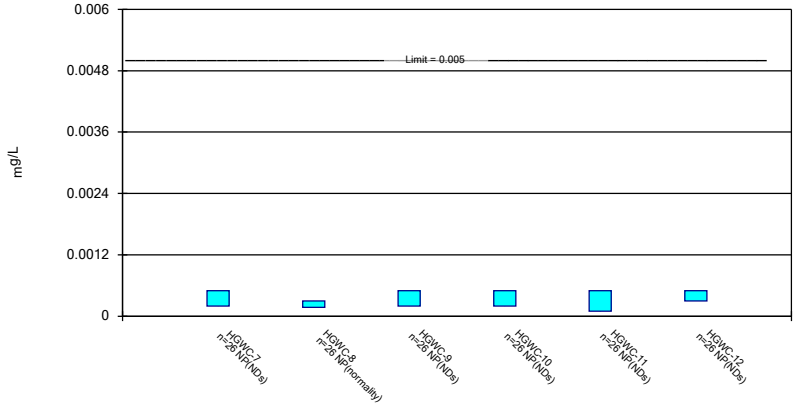


Constituent: Beryllium Analysis Run 10/16/2025 3:37 PM View: Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.1.01 Sanitas software utilized by Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

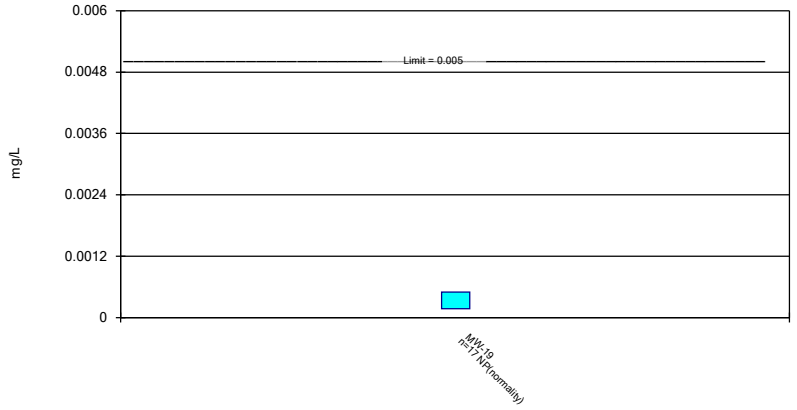
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Cadmium Analysis Run 10/16/2025 3:37 PM View: Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

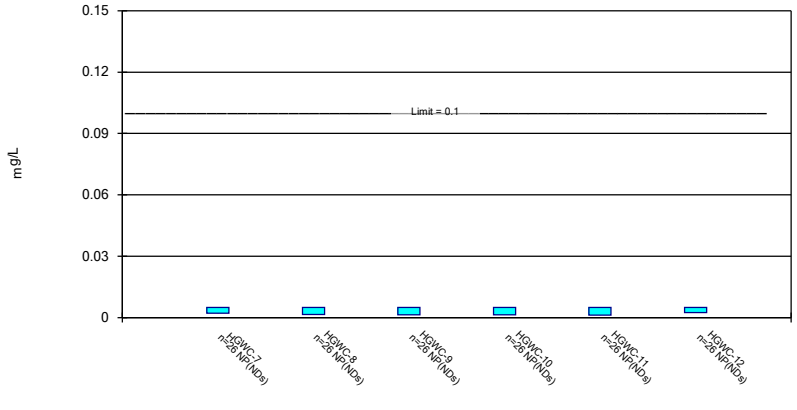


Constituent: Cadmium Analysis Run 10/16/2025 3:37 PM View: Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.1.01 Sanitas software utilized by Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

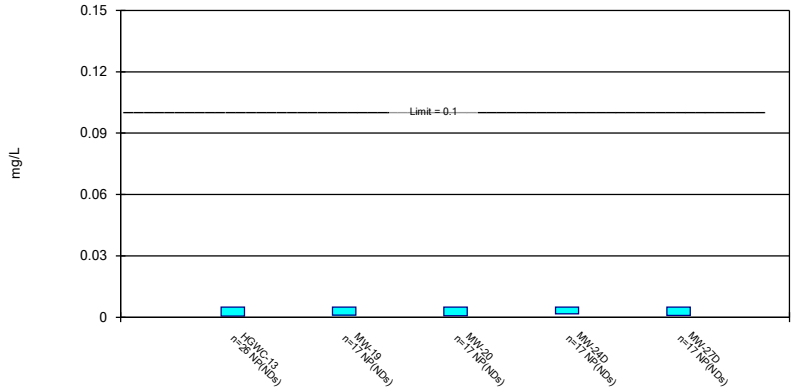


Constituent: Chromium Analysis Run 10/16/2025 3:37 PM View: Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.1.01 Sanitas software utilized by Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

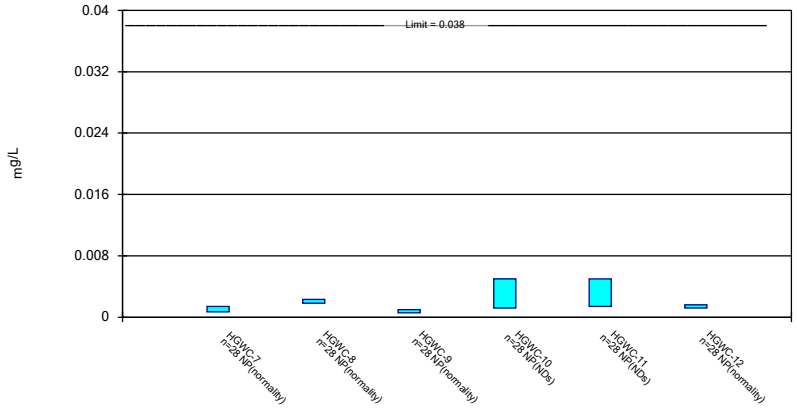


Constituent: Chromium Analysis Run 10/16/2025 3:37 PM View: Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.1.01 Sanitas software utilized by Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

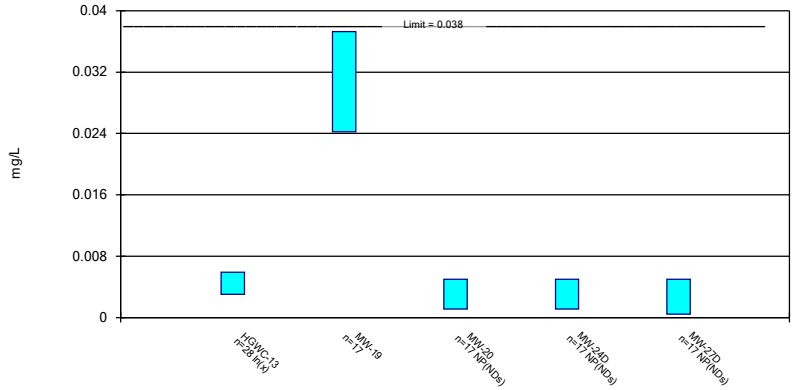
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Cobalt Analysis Run 10/16/2025 3:37 PM View: Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

Parametric and Non-Parametric (NP) Confidence Interval

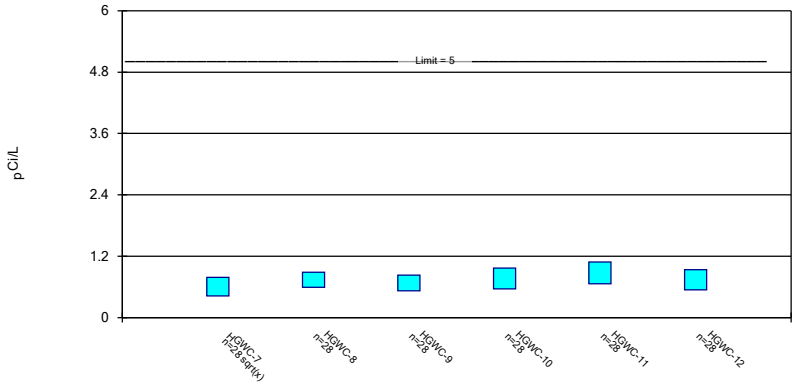
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 10/16/2025 3:37 PM View: Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

Parametric Confidence Interval

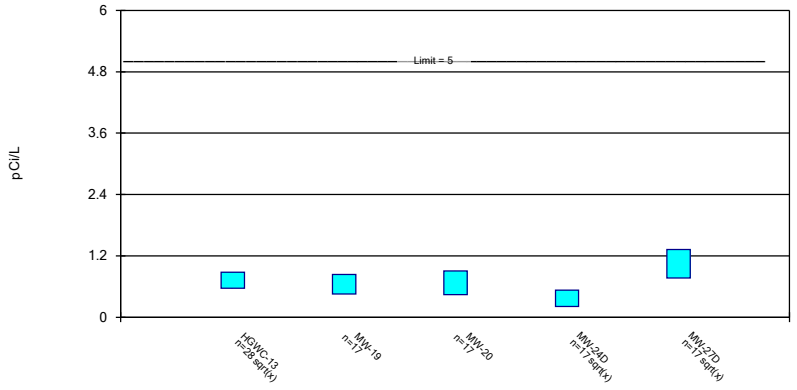
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 10/16/2025 3:37 PM View: Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

Parametric Confidence Interval

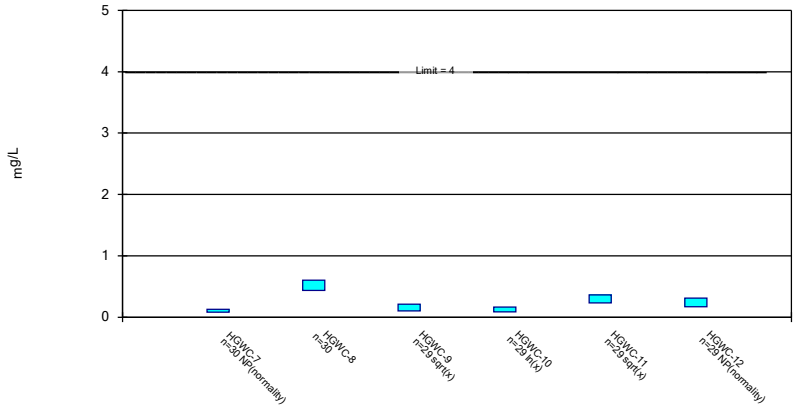
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 10/16/2025 3:37 PM View: Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

Parametric and Non-Parametric (NP) Confidence Interval

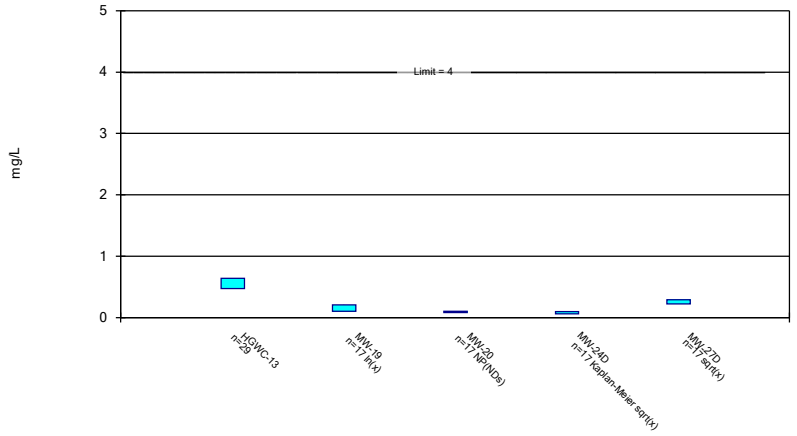
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 10/16/2025 3:37 PM View: Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

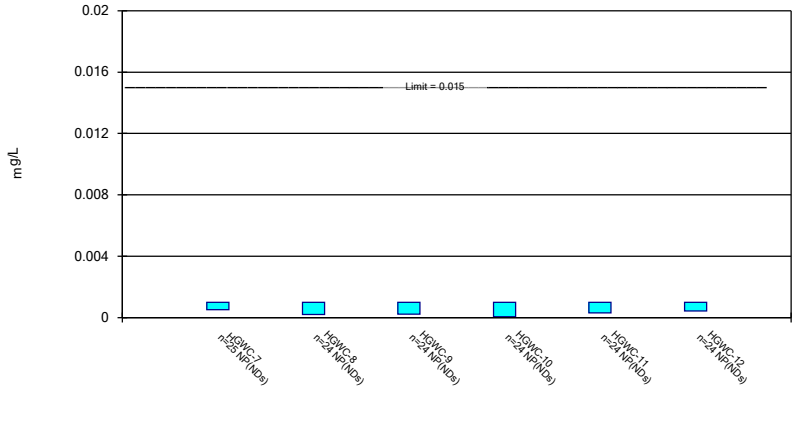


Constituent: Fluoride Analysis Run 10/16/2025 3:37 PM View: Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.1.01 Sanitas software utilized by Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

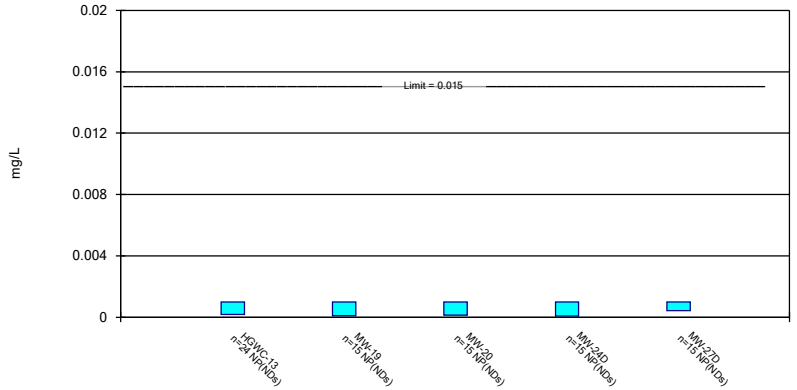


Constituent: Lead Analysis Run 10/16/2025 3:37 PM View: Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.1.01 Sanitas software utilized by Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

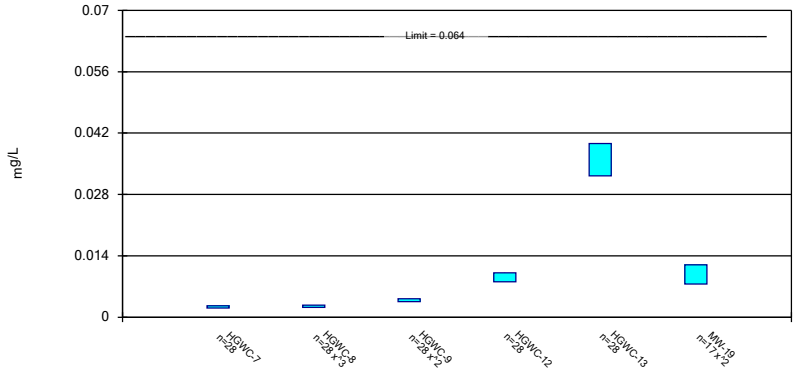


Constituent: Lead Analysis Run 10/16/2025 3:37 PM View: Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.1.01 Sanitas software utilized by Groundwater Stats Consulting. UG

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

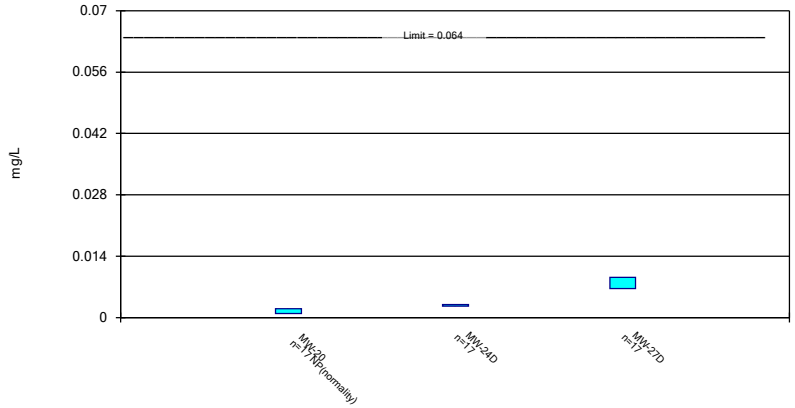


Constituent: Lithium Analysis Run 10/16/2025 3:37 PM View: Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.1.01 Sanitas software utilized by Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

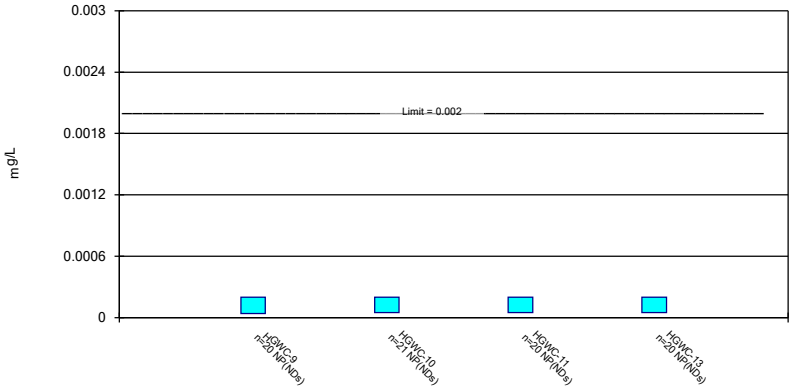


Constituent: Lithium Analysis Run 10/16/2025 3:37 PM View: Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.1.01 Sanitas software utilized by Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

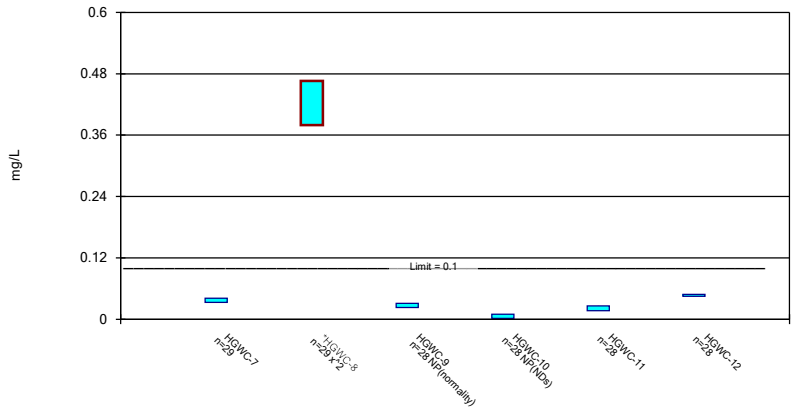


Constituent: Mercury Analysis Run 10/16/2025 3:37 PM View: Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.1.01 Sanitas software utilized by Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

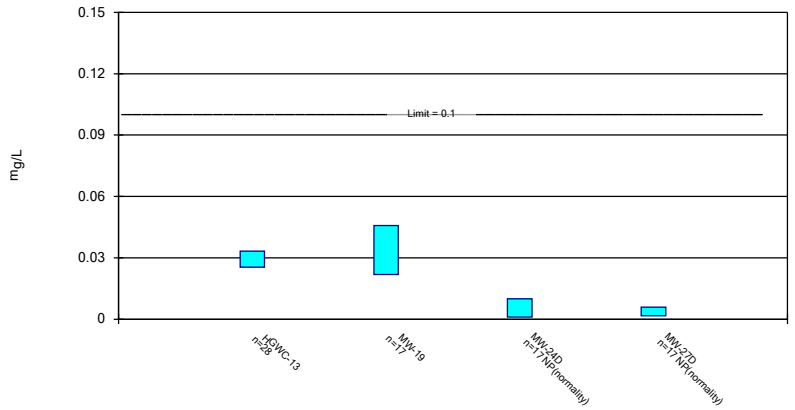


Constituent: Molybdenum Analysis Run 10/16/2025 3:37 PM View: Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.1.01 Sanitas software utilized by Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

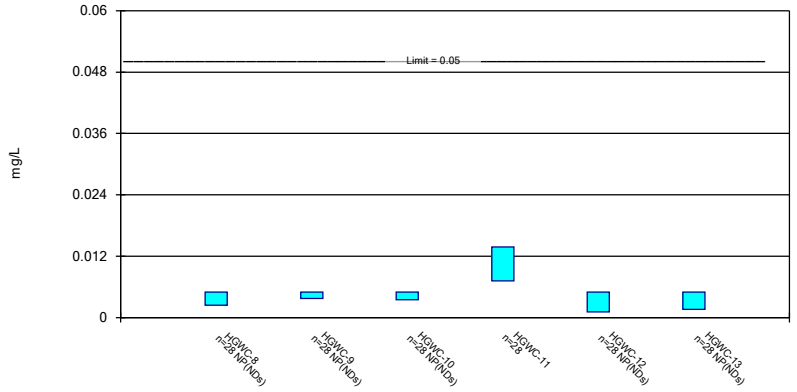
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 10/16/2025 3:37 PM View: Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

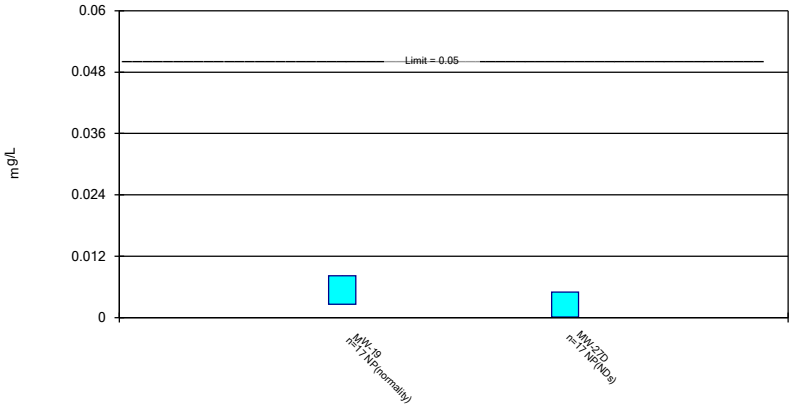


Constituent: Selenium Analysis Run 10/16/2025 3:37 PM View: Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.1.01 Sanitas software utilized by Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

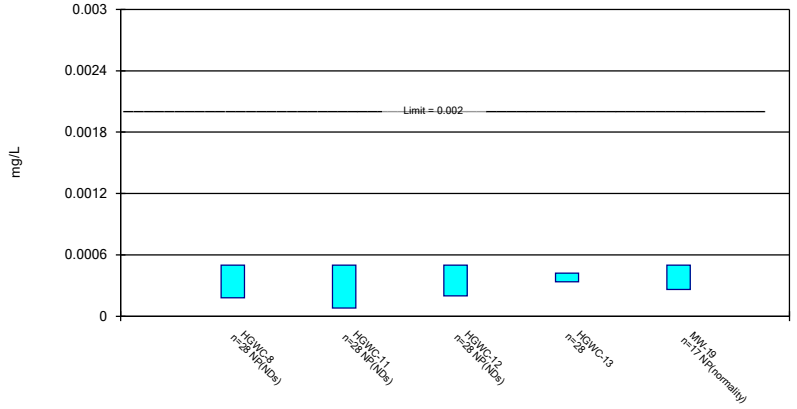


Constituent: Selenium Analysis Run 10/16/2025 3:37 PM View: Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.1.01 Sanitas software utilized by Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Thallium Analysis Run 10/16/2025 3:37 PM View: Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-1

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 10/16/2025 3:39 PM View: Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-7	HGWC-8	HGWC-9	HGWC-10	HGWC-11	HGWC-13
5/20/2016	<0.002	<0.002				
5/23/2016			<0.002	<0.002	<0.002	<0.002
7/12/2016	<0.002	<0.002	<0.002	<0.002	<0.002	0.0003 (J)
9/1/2016	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
10/20/2016	<0.002	<0.002	<0.002			
10/24/2016				<0.002	<0.002	<0.002
12/6/2016	<0.002	<0.002	<0.002			
12/7/2016				<0.002	<0.002	<0.002
1/25/2017	<0.002	<0.002				
1/26/2017			<0.002	<0.002	<0.002	<0.002
3/21/2017	<0.002	<0.002				
3/22/2017			<0.002	<0.002	<0.002	<0.002
5/23/2017	<0.002	<0.002	<0.002			
5/24/2017				<0.002	<0.002	<0.002
4/3/2018	<0.002	<0.002	<0.002			
4/4/2018				<0.002	<0.002	<0.002
3/12/2019		<0.002				
3/13/2019	<0.002		<0.002	<0.002	<0.002	<0.002
4/2/2019	<0.002					
4/3/2019		<0.002	<0.002	<0.002	<0.002	
4/5/2019						0.00021 (J)
9/24/2019		<0.002				
9/25/2019	<0.002					
9/26/2019						<0.002
9/27/2019			<0.002	<0.002	<0.002	
3/3/2020		<0.002		<0.002	<0.002	
3/4/2020	<0.002		0.00032 (J)			0.00061 (J)
3/27/2020	<0.002	<0.002				
3/30/2020						0.00036 (J)
3/31/2020			0.00042 (J)		<0.002	
4/1/2020				<0.002		
9/16/2020	0.00034 (J)	<0.002		<0.002		
9/17/2020			<0.002			
9/18/2020					0.00038 (J)	
9/21/2020						0.00029 (J)
2/10/2021	<0.002					
2/12/2021					<0.002	
2/15/2021				0.00065 (J)		
2/16/2021		0.00064 (J)	0.00043 (J)			
2/22/2021						0.00047 (J)
3/12/2021				<0.002		
3/15/2021	<0.002	<0.002				
3/16/2021			<0.002		<0.002	
3/17/2021						0.00049 (J)
8/16/2021	0.0017 (J)					
8/17/2021			<0.002	<0.002		
8/18/2021		<0.002			<0.002	
8/19/2021						<0.002
2/9/2022			<0.002	<0.002	<0.002	
2/10/2022	<0.002	<0.002				<0.002
8/3/2022		<0.002		0.0018 (J)	<0.002	<0.002
8/4/2022			<0.002			

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 10/16/2025 3:39 PM View: Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-7	HGWC-8	HGWC-9	HGWC-10	HGWC-11	HGWC-13
8/11/2022	<0.002					
1/26/2023			0.00092 (J)		<0.002	<0.002
1/27/2023	<0.002			<0.002		
2/1/2023		<0.002				
8/10/2023				<0.002	<0.002	
8/11/2023			<0.002			
8/12/2023	<0.002	<0.002				<0.002
2/14/2024	<0.002	<0.002				
2/15/2024			<0.002	<0.002	<0.002	
2/16/2024						<0.002
8/7/2024	<0.002	<0.002	<0.002	<0.002	<0.002	
8/8/2024						<0.002
2/13/2025					<0.002	
2/14/2025				<0.002		
2/15/2025		<0.002	<0.002			
2/16/2025	<0.002					
2/17/2025						<0.002
8/6/2025	<0.002	<0.002		<0.002	<0.002	
8/7/2025			<0.002			
8/10/2025						<0.002
Mean	0.001925	0.001948	0.001773	0.00194	0.001938	0.001567
Std. Dev.	0.0003285	0.0002667	0.0005516	0.0002661	0.0003177	0.0007315
Upper Lim.	0.002	0.002	0.002	0.002	0.002	0.002
Lower Lim.	0.0017	0.00064	0.00092	0.0018	0.00038	0.00061

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 10/16/2025 3:39 PM View: Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-24D	MW-27D
3/13/2019	<0.002	<0.002
4/4/2019		0.00016 (J)
4/8/2019	<0.002	
9/26/2019	<0.002	0.0003 (J)
3/4/2020	0.0017 (J)	0.00037 (J)
3/30/2020	<0.002	
4/2/2020		0.0003 (J)
9/18/2020		0.00031 (J)
9/21/2020	<0.002	
2/16/2021	<0.002	0.00038 (J)
3/12/2021		<0.002
3/17/2021	<0.002	
8/17/2021		<0.002
8/19/2021	<0.002	
2/10/2022	<0.002	<0.002
8/3/2022	<0.002	<0.002
1/26/2023	<0.002	
1/27/2023		<0.002
8/12/2023	<0.002	<0.002
2/15/2024	<0.002	
2/16/2024		<0.002
8/8/2024	0.00086 (J)	<0.002
2/15/2025		<0.002
2/16/2025	0.00066 (J)	
8/6/2025		<0.002
8/10/2025	<0.002	
Mean	0.001836	0.001401
Std. Dev.	0.0004131	0.0008369
Upper Lim.	0.002	0.002
Lower Lim.	0.0017	0.00031

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 10/16/2025 3:39 PM View: Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-7	HGWC-8	HGWC-9	HGWC-11	HGWC-12	HGWC-13
5/20/2016	<0.002	<0.002				
5/23/2016			<0.002	<0.002	0.0046 (J)	0.329
7/12/2016	<0.002	<0.002	<0.002	0.0015 (J)	0.005	0.297
9/1/2016	<0.002	<0.002	<0.002	<0.002	0.0043 (J)	0.314
10/20/2016	<0.002	<0.002	<0.002			
10/24/2016				<0.002	0.0049 (J)	0.334
12/6/2016	<0.002	<0.002	<0.002			
12/7/2016				<0.002	0.0046 (J)	0.35
1/25/2017	<0.002	<0.002				
1/26/2017			<0.002	<0.002	<0.01	0.424
3/21/2017	<0.002	<0.002				
3/22/2017			0.0008 (J)	0.0053	0.0019 (J)	0.419
5/23/2017	<0.002	<0.002	<0.002			
5/24/2017				<0.002	0.0022 (J)	0.393
4/3/2018	<0.002	<0.002	<0.002			
4/4/2018				<0.002	<0.01	0.49
6/5/2018	<0.002			0.0012 (J)		0.38
6/6/2018		<0.002	<0.002		0.0048 (J)	
10/2/2018	0.0019 (J)	<0.002	<0.002			
10/3/2018				<0.002	0.0037 (J)	
10/5/2018						0.34
3/12/2019		<0.002				
3/13/2019	<0.002		0.00075 (J)	0.0024 (J)		0.42
3/14/2019					0.0026 (J)	
4/2/2019	<0.002					
4/3/2019		<0.002	<0.002	0.00094 (J)	0.0022 (J)	
4/5/2019						0.36
9/24/2019		<0.002				
9/25/2019	<0.002					
9/26/2019						0.44
9/27/2019			0.00037 (J)	0.0018 (J)	0.0061	
3/3/2020		<0.002		0.0022 (J)	0.0023 (J)	
3/4/2020	<0.002		<0.002			0.52
3/26/2020					0.0028 (J)	
3/27/2020	<0.002	<0.002				
3/30/2020						0.47
3/31/2020			<0.002	0.0022 (J)		
9/16/2020	<0.002	<0.002				
9/17/2020			<0.002			
9/18/2020				0.00081 (J)	0.0031 (J)	
9/21/2020						0.39
2/10/2021	<0.002					
2/12/2021				0.002 (J)	0.0045 (J)	
2/16/2021		<0.002	<0.002			
2/22/2021						0.45
3/15/2021	<0.002	<0.002				
3/16/2021			<0.002	0.0017 (J)	0.0038 (J)	
3/17/2021						0.39
8/16/2021	<0.002					
8/17/2021			<0.002			
8/18/2021		<0.002		<0.002	0.0028 (J)	
8/19/2021						0.31

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 10/16/2025 3:39 PM View: Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-7	HGWC-8	HGWC-9	HGWC-11	HGWC-12	HGWC-13
2/9/2022			0.0021 (J)	0.0047 (J)	0.0053	
2/10/2022	<0.002	0.002 (J)				0.38
8/3/2022		<0.002		<0.002	0.0023 (J)	0.4
8/4/2022			<0.002			
8/11/2022	<0.002					
1/26/2023			<0.002	<0.002	0.0025 (J)	0.53
1/27/2023	<0.002					
2/1/2023		<0.002				
8/10/2023				<0.002	<0.01	
8/11/2023			<0.002			
8/12/2023	<0.002	<0.002				0.54
2/14/2024	<0.002	<0.002				
2/15/2024			<0.002	<0.002	0.0027 (J)	
2/16/2024						0.5
8/7/2024	<0.002	<0.002	<0.002	0.0015 (J)	0.0024 (J)	
8/8/2024						0.52
2/13/2025				<0.002	0.0033 (J)	
2/15/2025		<0.002	<0.002			
2/16/2025	<0.002					
2/17/2025						0.34
8/6/2025	<0.002	<0.002		<0.002	0.0022	
8/7/2025			<0.002			
8/10/2025						0.48
Mean	0.001996	0.002	0.001858	0.00208	0.003639	0.4111
Std. Dev.	1.89E-05	1.8E-11	0.0004348	0.0009037	0.001242	0.07317
Upper Lim.	0.002	0.002	0.002	0.0022	0.00422	0.4453
Lower Lim.	0.0019	0.002	0.0008	0.002	0.003059	0.3769

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 10/16/2025 3:39 PM View: Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-19	MW-20	MW-27D
3/13/2019		0.0023 (J)	<0.005
3/14/2019	<0.002		
4/2/2019		<0.002	
4/3/2019	<0.002		
4/4/2019			0.0002 (J)
9/25/2019		<0.002	
9/26/2019			<0.005
9/27/2019	<0.002		
3/2/2020		0.00038 (J)	
3/4/2020	0.00045 (J)		0.00069 (J)
3/26/2020	<0.002		
3/27/2020		<0.002	
4/2/2020			<0.005
9/17/2020		<0.002	
9/18/2020			<0.005
9/21/2020	<0.002		
2/11/2021		0.00094 (J)	
2/12/2021	<0.002		
2/16/2021			0.001 (J)
3/12/2021			<0.005
3/15/2021		<0.002	
3/17/2021	<0.002		
8/17/2021		<0.002	<0.005
8/18/2021	<0.002		
2/9/2022	<0.002		
2/10/2022		<0.002	<0.005
8/3/2022			<0.005
8/4/2022	<0.002	<0.002	
1/26/2023	<0.002	<0.002	
1/27/2023			<0.005
8/10/2023	<0.002	<0.002	
8/12/2023			<0.005
2/14/2024		<0.002	
2/15/2024	<0.002		
2/16/2024			<0.005
8/7/2024		<0.002	
8/8/2024	<0.002		<0.005
2/13/2025	<0.002		
2/15/2025		<0.002	<0.005
8/6/2025	<0.002	<0.002	0.0013 (J)
Mean	0.001909	0.00186	0.004011
Std. Dev.	0.0003759	0.000468	0.001849
Upper Lim.	0.002	0.0023	0.005
Lower Lim.	0.00045	0.00094	0.0013

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 10/16/2025 3:39 PM View: Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-7	HGWC-8	HGWC-9	HGWC-10	HGWC-11	HGWC-12
5/20/2016	0.0687	0.0808				
5/23/2016			0.117	0.0877	0.0466	0.133
7/12/2016	0.0731	0.083	0.13	0.0926	0.0616	0.135
9/1/2016	0.0747	0.0829	0.13	0.0994	0.0497	0.123
10/20/2016	0.072	0.0811	0.0806			
10/24/2016				0.101	0.0794	0.135
12/6/2016	0.0752	0.0845	0.128			
12/7/2016				0.107	0.1	0.13
1/25/2017	0.0747	0.078				
1/26/2017			0.142	0.0538	0.0696	0.127
3/21/2017	0.0722	0.0791				
3/22/2017			0.122	0.0962	0.0346	0.112
5/23/2017	0.0794	0.0846	0.127			
5/24/2017				0.0996	0.0437	0.106
4/3/2018	0.075	0.065	0.1			
4/4/2018				0.084	0.029	0.083
6/5/2018	0.071			0.086	0.039	
6/6/2018		0.063	0.11			0.09
10/2/2018	0.078	0.061	0.11	0.076		
10/3/2018					0.033	0.087
3/12/2019		0.062				
3/13/2019	0.083		0.1	0.044	0.024	
3/14/2019						0.081
4/2/2019	0.072					
4/3/2019		0.066	0.12	0.076	0.023	0.077
9/24/2019		0.053				
9/25/2019	0.061					
9/27/2019			0.11	0.078	0.033	0.096
3/3/2020		0.052		0.048	0.022	0.092
3/4/2020	0.068		0.11			
3/26/2020						0.089
3/27/2020	0.059	0.059				
3/31/2020			0.11		0.026	
4/1/2020				0.058		
9/16/2020	0.068	0.06		0.068		
9/17/2020			0.11			
9/18/2020					0.043	0.086
2/10/2021	0.069					
2/12/2021					0.039	0.09
2/15/2021				0.06		
2/16/2021		0.069	0.11			
3/12/2021				0.058		
3/15/2021	0.074	0.063				
3/16/2021			0.11		0.035	0.084
8/16/2021	0.068					
8/17/2021			0.095	0.055		
8/18/2021		0.062			0.04	0.083
2/9/2022			0.096	0.042	0.042	0.075
2/10/2022	0.063	0.056				
8/3/2022		0.06		0.069	0.041	0.086
8/4/2022			0.091			
8/11/2022	0.071					

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 10/16/2025 3:39 PM View: Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-7	HGWC-8	HGWC-9	HGWC-10	HGWC-11	HGWC-12
1/26/2023			0.069		0.031	0.076
1/27/2023	0.065			0.041		
2/1/2023		0.058				
8/10/2023				0.045	0.027	0.075
8/11/2023			0.068			
8/12/2023	0.06	0.052				
2/14/2024	0.067	0.048				
2/15/2024			0.054	0.048	0.037	0.068
8/7/2024	0.082	0.053	0.054	0.059	0.029	0.063
2/13/2025					0.042	0.068
2/14/2025				0.049		
2/15/2025		0.048	0.065			
2/16/2025	0.092					
8/6/2025	0.078	0.039		0.061	0.027	0.055
8/7/2025			0.06			
Mean	0.07193	0.06439	0.101	0.06937	0.04097	0.09304
Std. Dev.	0.007317	0.01281	0.02477	0.02071	0.01777	0.02315
Upper Lim.	0.07535	0.07038	0.1126	0.07904	0.04649	0.1039
Lower Lim.	0.06851	0.05841	0.08945	0.05969	0.03238	0.08222

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 10/16/2025 3:39 PM View: Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-13	MW-19	MW-20	MW-24D	MW-27D
5/23/2016	0.0779				
7/12/2016	0.0697				
9/1/2016	0.07				
10/24/2016	0.0882				
12/7/2016	0.0798				
1/26/2017	0.0738				
3/22/2017	0.0755				
5/24/2017	0.0627				
4/4/2018	0.099				
6/5/2018	0.13				
10/5/2018	0.076				
3/13/2019	0.1		0.087	0.053	1.5
3/14/2019		0.06			
4/2/2019			0.08		
4/3/2019		0.05			
4/4/2019					1.2
4/5/2019	0.079				
4/8/2019				0.043	
9/25/2019			0.085		
9/26/2019	0.11			0.12	0.95
9/27/2019		0.068			
3/2/2020			0.099		
3/4/2020	0.1	0.069		0.081	0.95
3/26/2020		0.067			
3/27/2020			0.093		
3/30/2020	0.08			0.056	
4/2/2020					1
9/17/2020			0.096		
9/18/2020					1
9/21/2020	0.052	0.056		0.053	
2/11/2021			0.093		
2/12/2021		0.051			
2/16/2021				0.062	1
2/22/2021	0.061				
3/12/2021					1.1
3/15/2021			0.096		
3/17/2021	0.056	0.049		0.055	
8/17/2021			0.089		1.1
8/18/2021		0.045			
8/19/2021	0.049			0.048	
2/9/2022		0.042			
2/10/2022	0.053		0.082	0.048	0.99
8/3/2022	0.07			0.053	0.94
8/4/2022		0.05	0.093		
1/26/2023	0.079	0.039	0.097	0.054	
1/27/2023					0.94
8/10/2023		0.032	0.093		
8/12/2023	0.057			0.053	0.98
2/14/2024			0.095		
2/15/2024		0.03		0.034	
2/16/2024	0.056				0.65
8/7/2024			0.089		

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 10/16/2025 3:39 PM View: Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-13	MW-19	MW-20	MW-24D	MW-27D
8/8/2024	0.05	0.031		0.048	0.63
2/13/2025		0.035			
2/15/2025			0.097		0.49
2/16/2025				0.039	
2/17/2025	0.046				
8/6/2025		0.038	0.088		0.26
8/10/2025	0.046			0.055	
Mean	0.07309	0.04776	0.09129	0.05618	0.9224
Std. Dev.	0.02082	0.01297	0.00552	0.01926	0.2836
Upper Lim.	0.08282	0.05589	0.09475	0.056	1.1
Lower Lim.	0.06336	0.03964	0.08784	0.043	0.7446

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 10/16/2025 3:39 PM View: Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-7	HGWC-8	HGWC-11	HGWC-13	MW-19
5/20/2016	<0.0004	<0.0005			
5/23/2016			<0.0004	<0.0005	
7/12/2016	<0.0004	<0.0005	<0.0004	<0.0005	
9/1/2016	<0.0004	<0.0005	<0.0004	<0.0005	
10/20/2016	<0.0004	<0.0005			
10/24/2016			<0.0004	<0.0005	
12/6/2016	<0.0004	<0.0005			
12/7/2016			<0.0004	<0.0005	
1/25/2017	<0.0004	<0.0005			
1/26/2017			<0.0004	<0.0005	
3/21/2017	<0.0004	<0.0005			
3/22/2017			9E-05 (J)	<0.0005	
5/23/2017	<0.0004	<0.0005			
5/24/2017			<0.0004	<0.0005	
4/3/2018	<0.0004	<0.0005			
4/4/2018			<0.0004	<0.0005	
3/12/2019		<0.0005			
3/13/2019	<0.0004		0.0001 (J)	6.2E-05 (J)	
3/14/2019					<0.0004
4/2/2019	<0.0004				
4/3/2019		7.4E-05 (J)	0.00017 (J)		<0.0004
4/5/2019				<0.0005	
9/24/2019		<0.0005			
9/25/2019	<0.0004				
9/26/2019				0.00011 (J)	
9/27/2019			8.6E-05 (J)		<0.0004
3/3/2020		<0.0005	0.00012 (J)		
3/4/2020	7.7E-05 (J)			9.3E-05 (J)	<0.0004
3/26/2020					<0.0004
3/27/2020	<0.0004	<0.0005			
3/30/2020				9.9E-05 (J)	
3/31/2020			0.00015 (J)		
9/16/2020	<0.0004	0.0001 (J)			
9/18/2020			<0.0004		
9/21/2020				0.00011 (J)	<0.0004
2/10/2021	8.1E-05 (J)				
2/12/2021			<0.0004		<0.0004
2/16/2021		7.1E-05 (J)			
2/22/2021				9.7E-05 (J)	
3/15/2021	0.00019 (J)	7.8E-05 (J)			
3/16/2021			8.1E-05 (J)		
3/17/2021				9E-05 (J)	<0.0004
8/16/2021	<0.0004				
8/18/2021		8.7E-05 (J)	<0.0004		5.8E-05 (J)
8/19/2021				7.3E-05 (J)	
2/9/2022			<0.0004		<0.0004
2/10/2022	<0.0004	7.1E-05 (J)		<0.0005	
8/3/2022		5.6E-05 (J)	<0.0004	<0.0005	
8/4/2022					<0.0004
8/11/2022	<0.0004				
1/26/2023			<0.0004	9.9E-05 (J)	<0.0004
1/27/2023	<0.0004				

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 10/16/2025 3:39 PM View: Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-7	HGWC-8	HGWC-11	HGWC-13	MW-19
2/1/2023		5.6E-05 (J)			
8/10/2023			6.9E-05 (J)		<0.0004
8/12/2023	<0.0004	<0.0005		0.0001 (J)	
2/14/2024	<0.0004	<0.0005			
2/15/2024			<0.0004		<0.0004
2/16/2024				<0.0005	
8/7/2024	<0.0004	<0.0005	<0.0004		
8/8/2024				<0.0005	<0.0004
2/13/2025			<0.0004		<0.0004
2/15/2025		0.00017 (J)			
2/16/2025	<0.0004				
2/17/2025				<0.0005	
8/6/2025	<0.0004	0.00034 (J)	<0.0004		<0.0004
8/10/2025				0.00018 (J)	
Mean	0.0003672	0.0003501	0.0003102	0.0003313	0.0003799
Std. Dev.	9.429E-05	0.0002003	0.0001386	0.0002018	8.295E-05
Upper Lim.	0.0004	0.0005	0.0004	0.0005	0.0004
Lower Lim.	0.00019	8.7E-05	0.00015	9.9E-05	5.8E-05

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 10/16/2025 3:39 PM View: Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-7	HGWC-8	HGWC-9	HGWC-10	HGWC-11	HGWC-12
5/20/2016	<0.0005	0.00024 (J)				
5/23/2016			<0.0005	0.000115 (J)	<0.0005	<0.0005
7/12/2016	<0.0005	0.0002 (J)	<0.0005	<0.0005	<0.0005	<0.0005
9/1/2016	<0.0005	0.0001 (J)	<0.0005	0.0001 (J)	<0.0005	<0.0005
10/20/2016	<0.0005	0.0001 (J)	0.0002 (J)			
10/24/2016				0.0001 (J)	<0.0005	<0.0005
12/6/2016	0.0002 (J)	0.0017	0.0001 (J)			
12/7/2016				0.0001 (J)	0.0001 (J)	0.0002 (J)
1/25/2017	0.0002 (J)	0.0002 (J)				
1/26/2017			<0.0005	<0.0005	<0.0005	<0.0005
3/21/2017	0.0002 (J)	0.0002 (J)				
3/22/2017			7E-05 (J)	0.0001 (J)	0.0001 (J)	0.0003 (J)
5/23/2017	0.0001 (J)	0.0003 (J)	<0.0005			
5/24/2017				0.0002 (J)	<0.0005	9E-05 (J)
4/3/2018	<0.0005	<0.001	<0.0005			
4/4/2018				<0.0005	<0.0005	<0.0005
3/12/2019		0.0002 (J)				
3/13/2019	<0.0005		<0.0005	<0.0005	<0.0005	
3/14/2019						<0.0005
4/2/2019	<0.0005					
4/3/2019		0.00032 (J)	<0.0005	0.0001 (J)	9.6E-05 (J)	<0.0005
9/24/2019		0.0002 (J)				
9/25/2019	<0.0005					
9/27/2019			<0.0005	<0.0005	<0.0005	<0.0005
3/3/2020		0.00017 (J)		<0.0005	<0.0005	0.00015 (J)
3/4/2020	<0.0005		<0.0005			
3/26/2020						<0.0005
3/27/2020	<0.0005	0.00014 (J)				
3/31/2020			<0.0005		<0.0005	
4/1/2020				<0.0005		
9/16/2020	<0.0005	0.00023 (J)		<0.0005		
9/17/2020			<0.0005			
9/18/2020					<0.0005	<0.0005
2/10/2021	<0.0005					
2/12/2021					<0.0005	<0.0005
2/15/2021				<0.0005		
2/16/2021		0.00037 (J)	<0.0005			
3/12/2021				<0.0005		
3/15/2021	<0.0005	0.00017 (J)				
3/16/2021			<0.0005		<0.0005	<0.0005
8/16/2021	<0.0005					
8/17/2021			<0.0005	<0.0005		
8/18/2021		0.0002 (J)			<0.0005	<0.0005
2/9/2022			<0.0005	<0.0005	<0.0005	<0.0005
2/10/2022	<0.0005	0.00029 (J)				
8/3/2022		0.00017 (J)		<0.0005	<0.0005	<0.0005
8/4/2022			<0.0005			
8/11/2022	<0.0005					
1/26/2023			<0.0005		<0.0005	<0.0005
1/27/2023	0.00019 (J)			<0.0005		
2/1/2023		0.00014 (J)				
8/10/2023				<0.0005	<0.0005	<0.0005

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 10/16/2025 3:39 PM View: Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-7	HGWC-8	HGWC-9	HGWC-10	HGWC-11	HGWC-12
8/11/2023			<0.0005			
8/12/2023	<0.0005	0.00044 (J)				
2/14/2024	<0.0005	0.00025 (J)				
2/15/2024			<0.0005	<0.0005	<0.0005	<0.0005
8/7/2024	<0.0005	0.0014	<0.0005	<0.0005	<0.0005	<0.0005
2/13/2025					<0.0005	<0.0005
2/14/2025				<0.0005		
2/15/2025		0.00022 (J)	<0.0005			
2/16/2025	<0.0005					
8/6/2025	<0.0005	0.00017 (J)		<0.0005	<0.0005	<0.0005
8/7/2025			<0.0005			
Mean	0.0004381	0.0003315	0.0004565	0.0003967	0.0004537	0.0004515
Std. Dev.	0.0001306	0.0003734	0.0001242	0.0001745	0.0001308	0.0001199
Upper Lim.	0.0005	0.0003	0.0005	0.0005	0.0005	0.0005
Lower Lim.	0.0002	0.00017	0.0002	0.0002	0.0001	0.0003

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 10/16/2025 3:39 PM View: Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-19
3/14/2019	<0.0005
4/3/2019	<0.0005
9/27/2019	0.00013 (J)
3/4/2020	0.00026 (J)
3/26/2020	0.00019 (J)
9/21/2020	0.00018 (J)
2/12/2021	0.0002 (J)
3/17/2021	0.00016 (J)
8/18/2021	0.00027 (J)
2/9/2022	0.0011
8/4/2022	0.00022 (J)
1/26/2023	<0.0005
8/10/2023	0.00018 (J)
2/15/2024	<0.0005
8/8/2024	0.00017 (J)
2/13/2025	<0.0005
8/6/2025	<0.0005
Mean	0.0003565
Std. Dev.	0.0002438
Upper Lim.	0.0005
Lower Lim.	0.00017

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 10/16/2025 3:39 PM View: Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-7	HGWC-8	HGWC-9	HGWC-10	HGWC-11	HGWC-12
5/20/2016	<0.005	<0.005				
5/23/2016			<0.005	<0.005	<0.005	<0.005
7/12/2016	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
9/1/2016	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
10/20/2016	<0.005	<0.005	<0.005			
10/24/2016				<0.005	<0.005	<0.005
12/6/2016	<0.005	<0.005	<0.005			
12/7/2016				<0.005	<0.005	<0.005
1/25/2017	<0.005	<0.005				
1/26/2017			<0.005	<0.005	<0.005	<0.005
3/21/2017	<0.005	0.0005 (J)				
3/22/2017			<0.005	<0.005	0.0003 (J)	0.0004 (J)
5/23/2017	<0.005	<0.005	<0.005			
5/24/2017				<0.005	<0.005	<0.005
4/3/2018	<0.005	<0.005	<0.005			
4/4/2018				<0.005	<0.005	<0.005
3/12/2019		<0.005				
3/13/2019	<0.005		<0.005	<0.005	<0.005	
3/14/2019						0.0025 (J)
4/2/2019	<0.005					
4/3/2019		<0.005	<0.005	0.02	<0.005	<0.005
9/24/2019		<0.005				
9/25/2019	0.071					
9/27/2019			<0.005	<0.005	<0.005	<0.005
3/3/2020		0.0007 (J)		<0.005	0.00061 (J)	<0.005
3/4/2020	0.0016 (J)		<0.005			
3/26/2020						<0.005
3/27/2020	0.0004 (J)	<0.005				
3/31/2020			0.00052 (J)		<0.005	
4/1/2020				<0.005		
9/16/2020	0.00074 (J)	0.0015 (J)		<0.005		
9/17/2020			<0.005			
9/18/2020					<0.005	0.00091 (J)
2/10/2021	0.0014 (J)					
2/12/2021					<0.005	<0.005
2/15/2021				<0.005		
2/16/2021		<0.005	0.00067 (J)			
3/12/2021				<0.005		
3/15/2021	0.0021 (J)	0.00082 (J)				
3/16/2021			<0.005		<0.005	<0.005
8/16/2021	<0.005					
8/17/2021			<0.005	<0.005		
8/18/2021		<0.005			<0.005	<0.005
2/9/2022			0.0011 (J)	0.0011 (J)	<0.005	<0.005
2/10/2022	<0.005	<0.005				
8/3/2022		<0.005		<0.005	<0.005	<0.005
8/4/2022			<0.005			
8/11/2022	<0.005					
1/26/2023			0.0013 (J)		0.0012 (J)	<0.005
1/27/2023	0.0014 (J)			0.0012 (J)		
2/1/2023		<0.005				
8/10/2023				<0.005	<0.005	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 10/16/2025 3:39 PM View: Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-7	HGWC-8	HGWC-9	HGWC-10	HGWC-11	HGWC-12
8/11/2023			<0.005			
8/12/2023	<0.005	<0.005				
2/14/2024	<0.005	<0.005				
2/15/2024			<0.005	<0.005	<0.005	<0.005
8/7/2024	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2/13/2025					<0.005	<0.005
2/14/2025				0.0014 (J)		
2/15/2025		<0.005	<0.005			
2/16/2025	<0.005					
8/6/2025	<0.005	<0.005		<0.005	<0.005	<0.005
8/7/2025			<0.005			
Mean	0.006678	0.004366	0.004369	0.005142	0.004504	0.00457
Std. Dev.	0.01322	0.001523	0.001515	0.003269	0.001406	0.001254
Upper Lim.	0.005	0.005	0.005	0.005	0.005	0.005
Lower Lim.	0.0021	0.0015	0.0013	0.0014	0.0012	0.0025

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 10/16/2025 3:39 PM View: Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-13	MW-19	MW-20	MW-24D	MW-27D
5/23/2016	<0.005				
7/12/2016	<0.005				
9/1/2016	<0.005				
10/24/2016	<0.005				
12/7/2016	<0.005				
1/26/2017	<0.005				
3/22/2017	0.0004 (J)				
5/24/2017	<0.005				
4/4/2018	<0.005				
3/13/2019	<0.005		<0.005	<0.005	<0.005
3/14/2019		<0.005			
4/2/2019			<0.005		
4/3/2019		<0.005			
4/4/2019					<0.005
4/5/2019	<0.005				
4/8/2019				<0.005	
9/25/2019			<0.005		
9/26/2019	<0.005			0.00042 (J)	<0.005
9/27/2019		<0.005			
3/2/2020			0.00071 (J)		
3/4/2020	<0.005	0.00066 (J)		<0.005	<0.005
3/26/2020		0.00047 (J)			
3/27/2020			0.00051 (J)		
3/30/2020	0.00059 (J)			<0.005	
4/2/2020					<0.005
9/17/2020			<0.005		
9/18/2020					0.0007 (J)
9/21/2020	0.00056 (J)	0.0014 (J)		<0.005	
2/11/2021			<0.005		
2/12/2021		0.00059 (J)			
2/16/2021				<0.005	0.00082 (J)
2/22/2021	<0.005				
3/12/2021					<0.005
3/15/2021			0.00068 (J)		
3/17/2021	<0.005	0.0022 (J)		0.0017 (J)	
8/17/2021			<0.005		<0.005
8/18/2021		<0.005			
8/19/2021	<0.005			<0.005	
2/9/2022		<0.005			
2/10/2022	<0.005		<0.005	<0.005	<0.005
8/3/2022	<0.005			<0.005	<0.005
8/4/2022		<0.005	<0.005		
1/26/2023	<0.005	0.0011 (J)	<0.005	<0.005	
1/27/2023					<0.005
8/10/2023		<0.005	<0.005		
8/12/2023	<0.005			<0.005	<0.005
2/14/2024			<0.005		
2/15/2024		<0.005		<0.005	
2/16/2024	<0.005				<0.005
8/7/2024			<0.005		
8/8/2024	<0.005	<0.005		<0.005	<0.005
2/13/2025		<0.005			

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 10/16/2025 3:39 PM View: Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-13	MW-19	MW-20	MW-24D	MW-27D
2/15/2025			<0.005		<0.005
2/16/2025				<0.005	
2/17/2025	<0.005				
8/6/2025		<0.005	<0.005		<0.005
8/10/2025	<0.005			<0.005	
Mean	0.004483	0.003613	0.004229	0.004536	0.004501
Std. Dev.	0.001461	0.00197	0.001716	0.001328	0.001408
Upper Lim.	0.005	0.005	0.005	0.005	0.005
Lower Lim.	0.00059	0.0011	0.00071	0.0017	0.00082

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 10/16/2025 3:39 PM View: Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-7	HGWC-8	HGWC-9	HGWC-10	HGWC-11	HGWC-12
5/20/2016	<0.005	0.00207 (J)				
5/23/2016			<0.005	<0.005	<0.005	<0.005
7/12/2016	0.0003 (J)	0.0019 (J)	0.0006 (J)	0.0006 (J)	0.0021 (J)	0.0018 (J)
9/1/2016	<0.005	0.0023 (J)	0.0007 (J)	0.0007 (J)	0.0025 (J)	0.0016 (J)
10/20/2016	0.0008 (J)	0.002 (J)	0.002 (J)			
10/24/2016				0.0009 (J)	0.0032 (J)	0.0017 (J)
12/6/2016	0.0009 (J)	0.0026 (J)	0.0011 (J)			
12/7/2016				0.0012 (J)	0.003 (J)	0.0021 (J)
1/25/2017	0.0005 (J)	0.002 (J)				
1/26/2017			0.0006 (J)	<0.005	0.0014 (J)	0.0016 (J)
3/21/2017	0.0005 (J)	0.0023 (J)				
3/22/2017			0.0005 (J)	0.0006 (J)	0.0014 (J)	0.0018 (J)
5/23/2017	0.0005 (J)	0.0023 (J)	0.0006 (J)			
5/24/2017				0.0006 (J)	0.0008 (J)	0.0015 (J)
4/3/2018	<0.005	<0.025	<0.005			
4/4/2018				<0.005	<0.005	<0.005
6/5/2018	0.00074 (J)			<0.005	0.00061 (J)	
6/6/2018		0.0017 (J)	0.00056 (J)			0.0012 (J)
10/2/2018	0.00091 (J)	0.0016 (J)	<0.005	<0.005		
10/3/2018					<0.005	0.0011 (J)
3/12/2019		0.002 (J)				
3/13/2019	0.00067 (J)		0.00065 (J)	<0.005	0.00098 (J)	
3/14/2019						0.0011 (J)
4/2/2019	0.00069 (J)					
4/3/2019		0.0019 (J)	0.00069 (J)	<0.005	0.0018 (J)	0.0011 (J)
9/24/2019		0.0015 (J)				
9/25/2019	0.0026 (J)					
9/27/2019			0.00057 (J)	<0.005	0.00071 (J)	0.0012 (J)
3/3/2020		0.002 (J)		<0.005	0.00087 (J)	0.0013 (J)
3/4/2020	0.0011 (J)		0.00053 (J)			
3/26/2020						0.0012 (J)
3/27/2020	0.00074 (J)	0.0018 (J)				
3/31/2020			0.00051 (J)		0.0014 (J)	
4/1/2020				<0.005		
9/16/2020	0.00065 (J)	0.0019 (J)		<0.005		
9/17/2020			0.0007 (J)			
9/18/2020					<0.005	0.0014 (J)
2/10/2021	0.00081 (J)					
2/12/2021					<0.005	0.0012 (J)
2/15/2021				<0.005		
2/16/2021		0.002 (J)	0.00061 (J)			
3/12/2021				<0.005		
3/15/2021	0.0014 (J)	0.0019 (J)				
3/16/2021			0.00069 (J)		<0.005	0.0012 (J)
8/16/2021	0.0012 (J)					
8/17/2021			0.00045 (J)	<0.005		
8/18/2021		0.002 (J)			<0.005	0.0012 (J)
2/9/2022			0.00051 (J)	<0.005	<0.005	0.0013 (J)
2/10/2022	0.0011 (J)	0.0021 (J)				
8/3/2022		0.0024 (J)		<0.005	<0.005	0.0012 (J)
8/4/2022			0.00046 (J)			
8/11/2022	0.0018 (J)					

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 10/16/2025 3:39 PM View: Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-7	HGWC-8	HGWC-9	HGWC-10	HGWC-11	HGWC-12
1/26/2023			0.00068 (J)		<0.005	0.0012 (J)
1/27/2023	0.00067 (J)			<0.005		
2/1/2023		<0.025				
8/10/2023				<0.005	<0.005	0.0012 (J)
8/11/2023			0.00057 (J)			
8/12/2023	0.00061 (J)	0.0016 (J)				
2/14/2024	0.00084 (J)	0.0016 (J)				
2/15/2024			0.001 (J)	<0.005	<0.005	0.0013 (J)
8/7/2024	0.00043 (J)	0.0016 (J)	0.00066 (J)	<0.005	<0.005	0.0011 (J)
2/13/2025					<0.005	0.0015 (J)
2/14/2025				<0.005		
2/15/2025		0.0021 (J)	<0.005			
2/16/2025	<0.005					
8/6/2025	<0.005	0.0037 (J)		<0.005	<0.005	<0.005
8/7/2025			<0.005			
Mean	0.001624	0.002781	0.001462	0.004093	0.00342	0.001486
Std. Dev.	0.001666	0.002777	0.001705	0.001772	0.001823	0.0004378
Upper Lim.	0.0014	0.0023	0.001	0.005	0.005	0.0016
Lower Lim.	0.00067	0.0018	0.00057	0.0012	0.0014	0.0012

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 10/16/2025 3:39 PM View: Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-13	MW-19	MW-20	MW-24D	MW-27D
5/23/2016	0.00361 (J)				
7/12/2016	0.0032 (J)				
9/1/2016	0.0033 (J)				
10/24/2016	0.004 (J)				
12/7/2016	0.0034 (J)				
1/26/2017	0.0024 (J)				
3/22/2017	0.0026 (J)				
5/24/2017	0.0022 (J)				
4/4/2018	<0.01				
6/5/2018	0.0023 (J)				
10/5/2018	0.0015 (J)				
3/13/2019	0.0022 (J)		0.0011 (J)	<0.005	<0.005
3/14/2019		0.025			
4/2/2019			<0.005		
4/3/2019		0.036			
4/4/2019					9.1E-05 (J)
4/5/2019	0.0017 (J)				
4/8/2019				0.00025 (J)	
9/25/2019			<0.005		
9/26/2019	0.0042 (J)			0.0011 (J)	<0.005
9/27/2019		0.033			
3/2/2020			<0.005		
3/4/2020	0.0066	0.048		0.00056 (J)	0.00045 (J)
3/26/2020		0.045			
3/27/2020			<0.005		
3/30/2020	0.0053			<0.005	
4/2/2020					<0.005
9/17/2020			<0.005		
9/18/2020					<0.005
9/21/2020	0.0032 (J)	0.032		<0.005	
2/11/2021			<0.005		
2/12/2021		0.037			
2/16/2021				<0.005	0.0004 (J)
2/22/2021	0.003 (J)				
3/12/2021					<0.005
3/15/2021			<0.005		
3/17/2021	0.0029 (J)	0.037		<0.005	
8/17/2021			<0.005		<0.005
8/18/2021		0.039			
8/19/2021	0.0024 (J)			<0.005	
2/9/2022		0.03			
2/10/2022	0.0026 (J)		<0.005	<0.005	<0.005
8/3/2022	0.0041 (J)			<0.005	<0.005
8/4/2022		0.043	<0.005		
1/26/2023	0.012	0.022	<0.005	<0.005	
1/27/2023					<0.005
8/10/2023		0.027	<0.005		
8/12/2023	0.018			<0.005	<0.005
2/14/2024			<0.005		
2/15/2024		0.011		<0.005	
2/16/2024	0.023				<0.005
8/7/2024			<0.005		

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 10/16/2025 3:39 PM View: Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-13	MW-19	MW-20	MW-24D	MW-27D
8/8/2024	0.016	0.02		<0.005	<0.005
2/13/2025		0.017			
2/15/2025			<0.005		<0.005
2/16/2025				<0.005	
2/17/2025	0.0087				
8/6/2025		0.021	<0.005		<0.005
8/10/2025	0.01			<0.005	
Mean	0.005693	0.03076	0.004771	0.00423	0.004173
Std. Dev.	0.005398	0.01044	0.0009459	0.001721	0.001843
Upper Lim.	0.005926	0.03731	0.005	0.005	0.005
Lower Lim.	0.003012	0.02422	0.0011	0.0011	0.00045

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/16/2025 3:39 PM View: Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-7	HGWC-8	HGWC-9	HGWC-10	HGWC-11	HGWC-12
5/20/2016	0.62	0.56				
5/23/2016			0.826	0.419	0.509	1.12
7/12/2016	0.283	0.636	0.511	0.855	0.784	1.61
9/1/2016	0.703	0.818	0.762	0.844	0.261	1.23
10/20/2016	1.97	1.04	1.17			
10/24/2016				0.917	1.42	1.98
12/6/2016	2	0.771	0.126			
12/7/2016				0.558	0.781	0.319
1/25/2017	1.06	0.859				
1/26/2017			0.515	0.922	0.842	0.54
3/21/2017	0.668	0.851				
3/22/2017			0.451	0.751	0.318	0.635
5/23/2017	0.621 (U)	0.705 (U)	0.924 (U)			
5/24/2017				0.725 (U)	0.687 (U)	1.01
4/3/2018	0.538	0.311	0.732			
4/4/2018				0.715	1.5	0.956
6/5/2018	0.985 (U)			0.718 (U)	0.549 (U)	
6/6/2018		0.896 (U)	0.813 (U)			0.424 (U)
10/2/2018	0.837 (U)	1.21	0.61 (U)	0.948		
10/3/2018					1.48	0.57 (U)
3/12/2019		0.544 (U)				
3/13/2019	0.403 (U)		1 (U)	1.19 (U)	0.584 (U)	
3/14/2019						0.992 (U)
4/2/2019	0.865 (U)					
4/3/2019		0.885 (U)	0.156 (U)	1.82 (U)	0.36 (U)	0.734 (U)
9/24/2019		1.3				
9/25/2019	0.884 (U)					
9/27/2019			0.428 (U)	1.16 (U)	1.78	0.958 (U)
3/3/2020		0.835 (U)		0.667 (U)	0.716 (U)	0.971 (U)
3/4/2020	0.624 (U)		1.03			
3/26/2020						0.209 (U)
3/27/2020	0.485 (U)	1.04 (U)				
3/31/2020			1.2 (U)		1.3 (U)	
4/1/2020				0.235 (U)		
9/16/2020	0.135 (U)	0.526 (U)		0 (U)		
9/17/2020			1.38 (U)			
9/18/2020					1.24 (U)	0.916 (U)
2/10/2021	0.281 (U)					
2/12/2021					1.1	0.236 (U)
2/15/2021				1.91		
2/16/2021		0.764 (U)	1.17 (U)			
3/12/2021				1.12 (U)		
3/15/2021	0.666 (U)	1.3 (U)				
3/16/2021			0.446 (U)		1.71	0.245 (U)
8/16/2021	0.143 (U)					
8/17/2021			0.771 (U)	0.595 (U)		
8/18/2021		1.02 (U)			0.919 (U)	0.919 (U)
2/9/2022			0.198 (U)	0.49 (U)	0.444 (U)	0.564 (U)
2/10/2022	0.175 (U)	0.945 (U)				
8/3/2022		0.455 (U)		0.454 (U)	0.823 (U)	0.418 (U)
8/4/2022			0.597 (U)			
8/11/2022	0.461 (U)					

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/16/2025 3:39 PM View: Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-7	HGWC-8	HGWC-9	HGWC-10	HGWC-11	HGWC-12
1/26/2023			0.516 (U)		0.441 (U)	0.877
1/27/2023	0.45 (U)			1.2		
2/1/2023		0.241 (U)				
8/10/2023				0.831 (U)	0.273 (U)	0.453 (U)
8/11/2023			0.867 (U)			
8/12/2023	0.729 (U)	0.767 (U)				
2/14/2024	0.401 (U)	0.529 (U)				
2/15/2024			0.461 (U)	0.31 (U)	0.819 (U)	0.364 (U)
8/7/2024	0.611 (U)	0.556 (U)	0.502 (U)	0.268 (U)	0.874 (U)	0.455 (U)
2/13/2025					0.491 (U)	0.725 (U)
2/14/2025				0.372 (U)		
2/15/2025		0.363 (U)	0.324 (U)			
2/16/2025	0.349 (U)					
8/6/2025	0.324 (U)	0 (U)		0.404 (U)	1.5 (U)	0.261 (U)
8/7/2025			0.441 (U)			
Mean	0.6525	0.7403	0.676	0.7642	0.8752	0.739
Std. Dev.	0.4492	0.3132	0.331	0.4372	0.4543	0.4239
Upper Lim.	0.7863	0.8866	0.8307	0.9685	1.087	0.9371
Lower Lim.	0.4241	0.5939	0.5213	0.5599	0.6629	0.5409

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/16/2025 3:39 PM View: Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-13	MW-19	MW-20	MW-24D	MW-27D
5/23/2016	0.625				
7/12/2016	0.478				
9/1/2016	0.595				
10/24/2016	1.54				
12/7/2016	0.657				
1/26/2017	1.22				
3/22/2017	0.285				
5/24/2017	0.655 (U)				
4/4/2018	0.882 (U)				
6/5/2018	1.1 (U)				
10/5/2018	0.558 (U)				
3/13/2019	0.39 (U)		0.538 (U)	0.311 (U)	1.81
3/14/2019		0.347 (U)			
4/2/2019			1.02 (U)		
4/3/2019		0.884 (U)			
4/4/2019					1.33
4/5/2019	0.422 (U)				
4/8/2019				0.573 (U)	
9/25/2019			1.35 (U)		
9/26/2019	0.939 (U)			0.878 (U)	0.974 (U)
9/27/2019		0.534 (U)			
3/2/2020			0.653 (U)		
3/4/2020	0.708 (U)	1.04		0.333 (U)	1.12
3/26/2020		1.1 (U)			
3/27/2020			0.1 (U)		
3/30/2020	0.602 (U)			0.107 (U)	
4/2/2020					2.48
9/17/2020			0.469 (U)		
9/18/2020					1.13 (U)
9/21/2020	1.53	1.36 (U)		1.23 (U)	
2/11/2021			0.334 (U)		
2/12/2021		0.764 (U)			
2/16/2021				0.156 (U)	1.21
2/22/2021	1.02				
3/12/2021					0.649 (U)
3/15/2021			1.24 (U)		
3/17/2021	1.45 (U)	0.466 (U)		0.174 (U)	
8/17/2021			0.709 (U)		1.06 (U)
8/18/2021		0.642 (U)			
8/19/2021	0.764 (U)			0.227 (U)	
2/9/2022		0.245 (U)			
2/10/2022	0.442 (U)		0.32 (U)	0.178 (U)	0.809 (U)
8/3/2022	0.54 (U)			0.263 (U)	0.685 (U)
8/4/2022		0.509 (U)	1.05 (U)		
1/26/2023	0.719	0.333 (U)	0.561 (U)	0.0906 (U)	
1/27/2023					1.1
8/10/2023		0.437 (U)	0.469 (U)		
8/12/2023	0.58 (U)			0.481 (U)	0.645 (U)
2/14/2024			0.341 (U)		
2/15/2024		0.459 (U)		0.5 (U)	
2/16/2024	0.338 (U)				1.31
8/7/2024			0.54 (U)		

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/16/2025 3:39 PM View: Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-13	MW-19	MW-20	MW-24D	MW-27D
8/8/2024	0.561 (U)	0.44 (U)		0.338 (U)	0.461 (U)
2/13/2025		0.709 (U)			
2/15/2025			1.21 (U)		0.666 (U)
2/16/2025				0.271 (U)	
2/17/2025	1.01 (U)				
8/6/2025		0.656 (U)	0.527 (U)		0.816 (U)
8/10/2025	0.428 (U)			0.625 (U)	
Mean	0.7514	0.6426	0.6724	0.3962	1.074
Std. Dev.	0.354	0.304	0.3677	0.2997	0.4918
Upper Lim.	0.877	0.8331	0.9028	0.5318	1.327
Lower Lim.	0.5691	0.4522	0.442	0.2087	0.7678

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 10/16/2025 3:39 PM View: Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-7	HGWC-8	HGWC-9	HGWC-10	HGWC-11	HGWC-12
5/20/2016	0.0828 (J)	0.499				
5/23/2016			<0.3	0.0394 (J)	0.203 (J)	0.212 (J)
7/12/2016	0.2 (J)	0.67	0.24 (J)	0.15 (J)	0.44	0.31
9/1/2016	0.51	0.94	0.46	0.5	0.67	0.62
10/20/2016	0.4	0.56	0.56			
10/24/2016				0.06 (J)	0.26 (J)	0.19 (J)
12/6/2016	0.26 (J)	0.76	0.31			
12/7/2016				0.44	0.55	0.73
1/25/2017	0.24 (J)	1.1				
1/26/2017			0.004 (J)	0.29 (J)	0.27 (J)	0.12 (J)
3/21/2017	0.13 (J)	0.46				
3/22/2017			0.28 (J)	0.34	0.66	0.44
5/23/2017	0.11 (J)	0.65	0.29 (J)			
5/24/2017				0.13 (J)	0.35	0.34
10/3/2017	0.17 (J)	0.66	0.53	0.46	0.56	0.58
4/3/2018	<0.3	0.39	<0.3			
4/4/2018				<0.1	0.39	<0.3
6/5/2018	0.099 (J)			<0.1	0.24 (J)	
6/6/2018		0.46	0.12 (J)			0.21 (J)
10/2/2018	<0.3	0.51	0.031 (J)	0.17 (J)		
10/3/2018					0.31	0.15 (J)
3/12/2019		0.58				
3/13/2019	0.12 (J)		0.14 (J)	0.17 (J)	0.51	
3/14/2019						1.1
4/2/2019	0.097 (J)					
4/3/2019		0.63	0.14 (J)	0.082 (J)	0.43	0.3 (J)
9/24/2019		0.49				
9/25/2019	0.1 (J)					
9/27/2019			0.26 (J)	0.17 (J)	0.42	0.26 (J)
3/3/2020		0.45		0.11 (J)	0.24 (J)	0.21 (J)
3/4/2020	0.077 (J)		0.08 (J)			
3/26/2020						0.17 (J)
3/27/2020	0.059 (J)	0.46				
3/31/2020			0.074 (J)		0.19 (J)	
4/1/2020				0.12 (J)		
6/16/2020		0.45				
6/17/2020	0.077 (J)					
9/16/2020	0.081 (J)	0.53		<0.1		
9/17/2020			0.1			
9/18/2020					0.15	0.15
2/10/2021	0.085 (J)					
2/12/2021					0.17	0.19
2/15/2021				0.08 (J)		
2/16/2021		0.47	0.096 (J)			
3/12/2021				0.054 (J)		
3/15/2021	0.086 (J)	0.51				
3/16/2021			0.098 (J)		0.21	0.2
8/16/2021	0.084 (J)					
8/17/2021			0.095 (J)	<0.1		
8/18/2021		0.41			0.21	0.15
2/9/2022			0.1	0.12	0.2	0.2
2/10/2022	0.083 (J)	0.42				

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 10/16/2025 3:39 PM View: Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-7	HGWC-8	HGWC-9	HGWC-10	HGWC-11	HGWC-12
8/3/2022		0.44		0.13	0.22	0.21
8/4/2022			0.13			
8/11/2022	0.11					
1/26/2023			0.11		0.2	0.21
1/27/2023	0.1			0.16		
2/1/2023		0.4				
8/10/2023				0.05 (J)	0.15	0.17
8/11/2023			0.12			
8/12/2023	0.071 (J)	0.59				
2/14/2024	0.081 (J)	0.3				
2/15/2024			0.087 (J)	0.12	0.21	0.19
8/7/2024	0.074 (J)	0.37	0.084 (J)	0.075 (J)	0.11	0.17
2/13/2025					0.3 (M1)	0.24
2/14/2025				0.086 (J)		
2/15/2025		0.24	0.071 (J)			
2/16/2025	0.056 (J)					
8/6/2025	0.11	0.22		0.16	0.22	0.32
8/7/2025			0.1			
Mean	0.1351	0.5206	0.1728	0.154	0.3118	0.2928
Std. Dev.	0.101	0.1834	0.141	0.1286	0.1564	0.2155
Upper Lim.	0.13	0.6031	0.2095	0.1637	0.3646	0.31
Lower Lim.	0.0828	0.4382	0.09953	0.08406	0.2323	0.17

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 10/16/2025 3:39 PM View: Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-13	MW-19	MW-20	MW-24D	MW-27D
5/23/2016	0.2587 (J)				
7/12/2016	0.53				
9/1/2016	0.74				
10/24/2016	0.31				
12/7/2016	1				
1/26/2017	0.68				
3/22/2017	0.76				
5/24/2017	0.54				
10/3/2017	0.83				
4/4/2018	0.65				
6/5/2018	0.47				
10/5/2018	0.77				
3/13/2019	0.78		0.072 (J)	0.074 (J)	0.28 (J)
3/14/2019		0.35			
4/2/2019			<0.1		
4/3/2019		0.19 (J)			
4/4/2019					0.26 (J)
4/5/2019	0.83				
4/8/2019				0.048 (J)	
9/25/2019			<0.1		
9/26/2019	0.64			0.18 (J)	0.42
9/27/2019		0.53			
3/2/2020			<0.1		
3/4/2020	0.37	0.096 (J)		0.051 (J)	0.25 (J)
3/26/2020		0.12 (J)			
3/27/2020			<0.1		
3/30/2020	0.44			0.064 (J)	
4/2/2020					0.24 (J)
9/17/2020			<0.1		
9/18/2020					0.22
9/21/2020	0.44	0.17		<0.1	
2/11/2021			<0.1		
2/12/2021		0.16			
2/16/2021				<0.1	0.25
2/22/2021	0.55				
3/12/2021					0.24
3/15/2021			<0.1		
3/17/2021	0.65	0.18		<0.1	
8/17/2021			<0.1		0.24
8/18/2021		0.12			
8/19/2021	0.53			<0.1	
2/9/2022		0.076 (J)			
2/10/2022	0.53		<0.1	0.051 (J)	0.25
8/3/2022	0.55			0.075 (J)	0.27
8/4/2022		0.18	0.074 (J)		
1/26/2023	0.4	0.098 (J)	0.081 (J)	0.083 (J)	
1/27/2023					0.3
8/10/2023		0.14	<0.1		
8/12/2023	0.32			0.08 (J)	0.26
2/14/2024			0.06 (J)		
2/15/2024		0.06 (J)		0.12	
2/16/2024	0.33				0.2

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 10/16/2025 3:39 PM View: Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-13	MW-19	MW-20	MW-24D	MW-27D
8/7/2024			<0.1		
8/8/2024	0.38	0.17		0.054 (J)	0.21
2/13/2025		0.075 (J)			
2/15/2025			<0.1		0.17
2/16/2025				0.11	
2/17/2025	0.4				
8/6/2025		0.16	0.083 (J)		0.32
8/10/2025	0.44			0.084 (J)	
Mean	0.5558	0.1691	0.09235	0.08671	0.2576
Std. Dev.	0.187	0.1144	0.01303	0.03265	0.05506
Upper Lim.	0.6415	0.2037	0.1	0.09495	0.289
Lower Lim.	0.4702	0.1031	0.081	0.05882	0.2234

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 10/16/2025 3:39 PM View: Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-7	HGWC-8	HGWC-9	HGWC-10	HGWC-11	HGWC-12
5/20/2016	<0.001	<0.001				
5/23/2016			<0.001	<0.001	<0.001	<0.001
7/12/2016	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
9/1/2016	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
10/20/2016	<0.001	<0.001	<0.001			
10/24/2016				<0.001	<0.001	<0.001
12/6/2016	0.0001 (J)	<0.001	0.0002 (J)			
12/7/2016				<0.001	<0.001	<0.001
1/25/2017	0.0001 (J)	<0.001				
1/26/2017			0.0001 (J)	<0.001	<0.001	<0.001
3/21/2017	9E-05 (J)	<0.001				
3/22/2017			<0.001	<0.001	0.0003 (J)	<0.001
5/23/2017	8E-05 (J)	<0.001	0.0001 (J)			
5/24/2017				<0.001	9E-05 (J)	<0.001
4/3/2018	<0.001	<0.001	<0.001			
4/4/2018				<0.001	<0.001	<0.001
3/12/2019		<0.001				
3/13/2019	<0.001		<0.001	<0.001	<0.001	
3/14/2019						<0.001
4/2/2019	<0.001					
3/3/2020		0.00013 (J)		<0.001	0.00021 (J)	5.6E-05 (J)
3/4/2020	0.00051 (J)		8.4E-05 (J)			
3/26/2020						0.00043 (J)
3/27/2020	5.4E-05 (J)	<0.001				
3/31/2020			0.00014 (J)		0.0003 (J)	
4/1/2020				5E-05 (J)		
9/16/2020	0.0002 (J)	0.0002 (J)		<0.001		
9/17/2020			0.00022 (J)			
9/18/2020					6E-05 (J)	9.6E-05 (J)
2/10/2021	0.00056 (J)					
2/12/2021					<0.001	6.7E-05 (J)
2/15/2021				<0.001		
2/16/2021		8.6E-05 (J)	0.0002 (J)			
3/12/2021				<0.001		
3/15/2021	0.0013	0.00011 (J)				
3/16/2021			0.00027 (J)		9.9E-05 (J)	8.9E-05 (J)
8/16/2021	<0.001					
8/17/2021			<0.001	<0.001		
8/18/2021		<0.001			<0.001	<0.001
2/9/2022			<0.001	<0.001	<0.001	<0.001
2/10/2022	<0.001	<0.001				
8/3/2022		<0.001		<0.001	<0.001	<0.001
8/4/2022			<0.001			
8/11/2022	<0.001					
1/26/2023			<0.001		<0.001	<0.001
1/27/2023	<0.001			<0.001		
2/1/2023		<0.001				
8/10/2023				<0.001	<0.001	<0.001
8/11/2023			<0.001			
8/12/2023	<0.001	<0.001				
2/14/2024	<0.001	<0.001				
2/15/2024			<0.001	<0.001	<0.001	<0.001

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 10/16/2025 3:39 PM View: Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-7	HGWC-8	HGWC-9	HGWC-10	HGWC-11	HGWC-12
8/7/2024	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2/13/2025					<0.001	<0.001
2/14/2025				<0.001		
2/15/2025		<0.001	<0.001			
2/16/2025	<0.001					
8/6/2025	<0.001	<0.001		<0.001	<0.001	<0.001
8/7/2025			<0.001			
Mean	0.0007598	0.0008553	0.0007214	0.0009604	0.0007941	0.0008224
Std. Dev.	0.0004036	0.0003311	0.0004042	0.0001939	0.0003677	0.0003598
Upper Lim.	0.001	0.001	0.001	0.001	0.001	0.001
Lower Lim.	0.00051	0.0002	0.00022	5E-05	0.0003	0.00043

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 10/16/2025 3:39 PM View: Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-13	MW-19	MW-20	MW-24D	MW-27D
5/23/2016	<0.001				
7/12/2016	<0.001				
9/1/2016	<0.001				
10/24/2016	<0.001				
12/7/2016	<0.001				
1/26/2017	<0.001				
3/22/2017	7E-05 (J)				
5/24/2017	<0.001				
4/4/2018	<0.001				
3/13/2019	<0.001		<0.001	<0.001	<0.001
3/14/2019		<0.001			
3/2/2020			0.00017 (J)		
3/4/2020	0.00014 (J)	0.00011 (J)		0.00019 (J)	<0.001
3/26/2020		<0.001			
3/27/2020			0.00013 (J)		
3/30/2020	0.0001 (J)			6.4E-05 (J)	
4/2/2020					0.00013 (J)
9/17/2020			<0.001		
9/18/2020					<0.001
9/21/2020	0.00015 (J)	8.5E-05 (J)		4.2E-05 (J)	
2/11/2021			3.9E-05 (J)		
2/12/2021		7.1E-05 (J)			
2/16/2021				0.00012 (J)	0.00043 (J)
2/22/2021	0.00018 (J)				
3/12/2021					<0.001
3/15/2021			0.0001 (J)		
3/17/2021	0.00015 (J)	3.8E-05 (J)		4E-05 (J)	
8/17/2021			<0.001		<0.001
8/18/2021		<0.001			
8/19/2021	<0.001			<0.001	
2/9/2022		<0.001			
2/10/2022	<0.001		<0.001	<0.001	<0.001
8/3/2022	<0.001			<0.001	<0.001
8/4/2022		<0.001	<0.001		
1/26/2023	<0.001	<0.001	<0.001	<0.001	
1/27/2023					<0.001
8/10/2023		<0.001	<0.001		
8/12/2023	<0.001			<0.001	<0.001
2/14/2024			<0.001		
2/15/2024		<0.001		<0.001	
2/16/2024	<0.001				<0.001
8/7/2024			<0.001		
8/8/2024	<0.001	<0.001		<0.001	<0.001
2/13/2025		<0.001			
2/15/2025			<0.001		<0.001
2/16/2025				<0.001	
2/17/2025	<0.001				
8/6/2025		<0.001	<0.001		<0.001
8/10/2025	0.00033 (J)			<0.001	
Mean	0.000755	0.0007536	0.0007626	0.0006971	0.000904
Std. Dev.	0.0003923	0.0004232	0.0004083	0.0004448	0.0002596
Upper Lim.	0.001	0.001	0.001	0.001	0.001

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 10/16/2025 3:39 PM View: Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-13	MW-19	MW-20	MW-24D	MW-27D
Lower Lim.	0.00018	8.5E-05	0.00013	6.4E-05	0.00043

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 10/16/2025 3:39 PM View: Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-7	HGWC-8	HGWC-9	HGWC-12	HGWC-13	MW-19
5/20/2016	<0.002	<0.002				
5/23/2016			<0.002	0.0107 (J)	0.0422 (J)	
7/12/2016	0.0021 (J)	0.0023 (J)	0.004 (J)	0.0113 (J)	0.0366 (J)	
9/1/2016	0.0025 (J)	0.0029 (J)	0.0044 (J)	0.0118 (J)	0.04 (J)	
10/20/2016	0.0021 (J)	0.0027 (J)	0.0027 (J)			
10/24/2016				0.0114 (J)	0.0435 (J)	
12/6/2016	0.0026 (J)	0.0032 (J)	0.005 (J)			
12/7/2016				0.0155 (J)	0.0477 (J)	
1/25/2017	0.0024 (J)	0.0026 (J)				
1/26/2017			0.0042 (J)	0.0099 (J)	0.0342 (J)	
3/21/2017	0.0026 (J)	0.0029 (J)				
3/22/2017			0.0043 (J)	0.0098 (J)	0.0353 (J)	
5/23/2017	0.0026 (J)	0.0029 (J)	0.0048 (J)			
5/24/2017				0.0105 (J)	0.0317 (J)	
4/3/2018	0.0023 (J)	0.0025 (J)	0.0043 (J)			
4/4/2018				0.008 (J)	0.031 (J)	
6/5/2018	0.0022 (J)				0.031 (J)	
6/6/2018		0.0023 (J)	0.0043 (J)	0.0095 (J)		
10/2/2018	0.003 (J)	0.0025 (J)	0.004 (J)			
10/3/2018				0.0083 (J)		
10/5/2018					0.027 (J)	
3/12/2019		0.0025 (J)				
3/13/2019	0.0024 (J)		0.004 (J)		0.029 (J)	
3/14/2019				0.0058 (J)		0.0089 (J)
4/2/2019	0.002 (J)					
4/3/2019		0.0025 (J)	0.004 (J)	0.0066 (J)		0.0061 (J)
4/5/2019					0.023 (J)	
9/24/2019		0.0024 (J)				
9/25/2019	0.0019 (J)					
9/26/2019					0.035	
9/27/2019			0.0044 (J)	0.011 (J)		0.013 (J)
3/3/2020		0.0028 (J)		0.0063 (J)		
3/4/2020	0.0034 (J)		0.004 (J)		0.041	0.01 (J)
3/26/2020				0.0063 (J)		0.013 (J)
3/27/2020	0.002 (J)	0.0026 (J)				
3/30/2020					0.038	
3/31/2020			0.0043 (J)			
9/16/2020	0.0026 (J)	0.0033 (J)				
9/17/2020			0.004 (J)			
9/18/2020				0.01 (J)		
9/21/2020					0.028 (J)	0.013 (J)
2/10/2021	0.0032 (J)					
2/12/2021				0.0094 (J)		0.012 (J)
2/16/2021		0.0027 (J)	0.0045 (J)			
2/22/2021					0.032	
3/15/2021	0.0038 (J)	0.0029 (J)				
3/16/2021			0.0046 (J)	0.0081 (J)		
3/17/2021					0.031	0.012 (J)
8/16/2021	0.0025 (J)					
8/17/2021			0.004 (J)			
8/18/2021		0.0029 (J)		0.0099 (J)		0.014 (J)
8/19/2021					0.028 (J)	

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 10/16/2025 3:39 PM View: Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-7	HGWC-8	HGWC-9	HGWC-12	HGWC-13	MW-19
2/9/2022			0.0041 (J)	0.01 (J)		0.0067 (J)
2/10/2022	0.0022 (J)	0.003 (J)			0.031	
8/3/2022		0.0026 (J)		0.0068 (J)	0.029 (J)	
8/4/2022			0.0036 (J)			0.013 (J)
8/11/2022	0.0019 (J)					
1/26/2023			0.0032 (J)	0.0058 (J)	0.04	0.0038 (J)
1/27/2023	0.0018 (J)					
2/1/2023		0.0015 (J)				
8/10/2023				0.0075 (J)		0.011 (J)
8/11/2023			0.0035 (J)			
8/12/2023	0.0023 (J)	0.0014 (J)			0.051	
2/14/2024	0.0016 (J)	<0.002				
2/15/2024			0.0031 (J)	0.008 (J)		<0.002
2/16/2024					0.052	
8/7/2024	0.0026 (J)	<0.002	0.003 (J)	0.0089 (J)		
8/8/2024					0.052	0.011 (J)
2/13/2025				0.00909 (J)		<0.002
2/15/2025		0.000838 (J)	0.00343 (J)			
2/16/2025	0.00167 (J)					
2/17/2025					0.0325	
8/6/2025	0.00189 (J)	<0.002		0.00838		0.00411
8/7/2025			0.00232			
8/10/2025					0.0333	
Mean	0.002327	0.002312	0.003823	0.009092	0.03593	0.009036
Std. Dev.	0.0005736	0.0007565	0.0008345	0.002163	0.007852	0.004392
Upper Lim.	0.002595	0.002738	0.004221	0.0101	0.0396	0.01194
Lower Lim.	0.002059	0.002232	0.003572	0.008081	0.03226	0.007558

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 10/16/2025 3:39 PM View: Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-20	MW-24D	MW-27D
3/13/2019	0.0016 (J)	0.0029 (J)	0.0097 (J)
4/2/2019	0.0015 (J)		
4/4/2019			0.0069 (J)
4/8/2019		0.0027 (J)	
9/25/2019	<0.002		
9/26/2019		0.003 (J)	0.0055 (J)
3/2/2020	0.00082 (J)		
3/4/2020		0.0026 (J)	0.0047 (J)
3/27/2020	0.0012 (J)		
3/30/2020		0.0027 (J)	
4/2/2020			0.0068 (J)
9/17/2020	<0.002		
9/18/2020			0.0084 (J)
9/21/2020		0.0024 (J)	
2/11/2021	0.001 (J)		
2/16/2021		0.0028 (J)	0.0078 (J)
3/12/2021			0.009 (J)
3/15/2021	0.0011 (J)		
3/17/2021		0.0027 (J)	
8/17/2021	0.00091 (J)		0.0079 (J)
8/19/2021		0.0027 (J)	
2/10/2022	0.00099 (J)	0.0029 (J)	0.0086 (J)
8/3/2022		0.0024 (J)	0.0063 (J)
8/4/2022	0.00075 (J)		
1/26/2023	<0.002	0.0025 (J)	
1/27/2023			0.0072 (J)
8/10/2023	<0.002		
8/12/2023		0.003 (J)	0.0072 (J)
2/14/2024	<0.002		
2/15/2024		0.0031 (J)	
2/16/2024			0.011 (J)
8/7/2024	<0.002		
8/8/2024		0.0029 (J)	0.011 (J)
2/15/2025	0.00094 (J)		0.0115 (J)
2/16/2025		0.00274 (J)	
8/6/2025	<0.002		0.00482
8/10/2025		0.00352	
Mean	0.001459	0.002798	0.007901
Std. Dev.	0.000511	0.0002752	0.002071
Upper Lim.	0.002	0.00297	0.009199
Lower Lim.	0.00094	0.002625	0.006604

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 10/16/2025 3:39 PM View: Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-9	HGWC-10	HGWC-11	HGWC-13
5/23/2016	<0.0002	<0.0002	<0.0002	<0.0002
7/12/2016	<0.0002	<0.0002	<0.0002	<0.0002
9/1/2016	<0.0002	<0.0002	<0.0002	<0.0002
10/20/2016	<0.0002			
10/24/2016		<0.0002	<0.0002	<0.0002
12/6/2016	<0.0002			
12/7/2016		<0.0002	<0.0002	<0.0002
1/26/2017	4E-05 (J)	5E-05 (J)	5E-05 (J)	4E-05 (J)
3/22/2017	<0.0002	<0.0002	<0.0002	<0.0002
5/23/2017	<0.0002			
5/24/2017		<0.0002	<0.0002	5E-05 (J)
4/3/2018	<0.0002			
4/4/2018		<0.0002	<0.0002	<0.0002
3/13/2019	<0.0002	<0.0002	<0.0002	<0.0002
9/27/2019		<0.0002		
3/3/2020		<0.0002	<0.0002	
3/4/2020	<0.0002			<0.0002
2/12/2021			<0.0002	
2/15/2021		<0.0002		
2/16/2021	<0.0002			
2/22/2021				<0.0002
2/9/2022	<0.0002	<0.0002	<0.0002	
2/10/2022				<0.0002
8/3/2022		<0.0002	<0.0002	<0.0002
8/4/2022	<0.0002			
1/26/2023	<0.0002		<0.0002	<0.0002
1/27/2023		<0.0002		
8/10/2023		<0.0002	<0.0002	
8/11/2023	<0.0002			
8/12/2023				<0.0002
2/15/2024	<0.0002	<0.0002	<0.0002	
2/16/2024				<0.0002
8/7/2024	<0.0002	<0.0002	<0.0002	
8/8/2024				<0.0002
2/13/2025			<0.0002	
2/14/2025		<0.0002		
2/15/2025	<0.0002			
2/17/2025				<0.0002
8/6/2025		<0.0002	<0.0002	
8/7/2025	<0.0002			
8/10/2025				<0.0002
Mean	0.000192	0.0001929	0.0001925	0.0001845
Std. Dev.	3.578E-05	3.273E-05	3.354E-05	4.774E-05
Upper Lim.	0.0002	0.0002	0.0002	0.0002
Lower Lim.	4E-05	5E-05	5E-05	5E-05

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 10/16/2025 3:39 PM View: Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-7	HGWC-8	HGWC-9	HGWC-10	HGWC-11	HGWC-12
5/20/2016	0.028	0.446				
5/23/2016			0.0187	<0.01	0.0164	0.0413 (J)
7/12/2016	0.0273	0.455	0.0229	0.0013 (J)	0.0251	0.0484
9/1/2016	0.0274	0.481	0.0239	<0.01	0.0259	0.0474
10/20/2016	0.036	0.472	0.477			
10/24/2016				<0.01	0.0293	0.047
12/6/2016	0.0365	0.52	0.0236			
12/7/2016				<0.01	0.0209	0.0432
1/25/2017	0.0317	0.478				
1/26/2017			0.0234	<0.01	0.0277	0.0484
3/21/2017	0.0346	0.547				
3/22/2017			0.0219	0.0013 (J)	0.011	0.0494
5/23/2017	0.0336	0.482	0.0242			
5/24/2017				0.0014 (J)	0.0373	0.047
4/3/2018	0.032	0.44	0.025			
4/4/2018				<0.01	0.013	0.052
6/5/2018	0.036			<0.01	0.029	
6/6/2018		0.49	0.027			0.054
10/2/2018	0.039	0.47	0.028	<0.01		
10/3/2018					0.02	0.054
3/12/2019		0.5				
3/13/2019	0.04		0.028	<0.01	0.012	
3/14/2019						0.046
4/2/2019	0.041					
4/3/2019		0.5	0.03	0.0021 (J)	0.01	0.049
9/24/2019		0.54				
9/25/2019	0.047					
9/27/2019			0.033	0.0014 (J)	0.016	0.052
3/3/2020		0.44		<0.01	0.011	0.045
3/4/2020	0.045		0.031			
3/26/2020						0.045
3/27/2020	0.044	0.42				
3/31/2020			0.031		0.0074 (J)	
4/1/2020				<0.01		
6/16/2020		0.45				
6/17/2020	0.048					
9/16/2020	0.046	0.43		0.0014 (J)		
9/17/2020			0.03			
9/18/2020					0.032	0.046
2/10/2021	0.051					
2/12/2021					0.023	0.048
2/15/2021				<0.01		
2/16/2021		0.46	0.035			
3/12/2021				0.0007 (J)		
3/15/2021	0.047	0.41				
3/16/2021			0.035		0.015	0.044
8/16/2021	0.045					
8/17/2021			0.035	0.0012 (J)		
8/18/2021		0.48			0.038	0.045
2/9/2022			0.034	<0.01	0.03	0.042
2/10/2022	0.045	0.34				
8/3/2022		0.29		0.00079 (J)	0.027	0.047

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 10/16/2025 3:39 PM View: Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-7	HGWC-8	HGWC-9	HGWC-10	HGWC-11	HGWC-12
8/4/2022			0.033			
8/11/2022	0.044					
1/26/2023			0.021		0.022	0.048
1/27/2023	0.039			<0.01		
2/1/2023		0.29				
8/10/2023				0.0014 (J)	0.014	0.05
8/11/2023			0.03			
8/12/2023	0.033	0.34				
2/14/2024	0.028	0.18				
2/15/2024			0.01	<0.01	0.029	0.046
8/7/2024	0.03	0.28	0.015	0.0012 (J)	0.01 (J)	0.044
2/13/2025					0.041	0.044
2/14/2025				<0.01		
2/15/2025		0.17	0.013			
2/16/2025	0.019					
8/6/2025	0.017	0.047		<0.01	0.0025 (J)	0.037
8/7/2025			0.005 (J)			
Mean	0.03693	0.4086	0.04159	0.006578	0.02127	0.04679
Std. Dev.	0.008724	0.1203	0.08568	0.004338	0.01005	0.003779
Upper Lim.	0.04093	0.4663	0.031	0.01	0.02596	0.04856
Lower Lim.	0.03294	0.3799	0.0229	0.0014	0.01657	0.04502

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 10/16/2025 3:39 PM View: Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-13	MW-19	MW-24D	MW-27D
5/23/2016	0.027			
7/12/2016	0.0316			
9/1/2016	0.0336			
10/24/2016	0.0352			
12/7/2016	0.0383			
1/26/2017	0.041			
3/22/2017	0.0426			
5/24/2017	0.04			
4/4/2018	0.027			
6/5/2018	0.027			
10/5/2018	0.033			
3/13/2019	0.033		<0.01	<0.01
3/14/2019		0.057		
4/3/2019		0.04		
4/4/2019				0.0018 (J)
4/5/2019	0.03			
4/8/2019			0.00027 (J)	
9/26/2019	0.026		<0.01	0.0042 (J)
9/27/2019		0.063		
3/4/2020	0.03	0.032	<0.01	0.0058 (J)
3/26/2020		0.033		
3/30/2020	0.029		<0.01	
4/2/2020				0.003 (J)
9/18/2020				0.0018 (J)
9/21/2020	0.032	0.064	0.00099 (J)	
2/12/2021		0.046		
2/16/2021			0.00096 (J)	0.0019 (J)
2/22/2021	0.036			
3/12/2021				0.0008 (J)
3/17/2021	0.035	0.043	0.001 (J)	
8/17/2021				0.0016 (J)
8/18/2021		0.032		
8/19/2021	0.032		0.00087 (J)	
2/9/2022		0.011		
2/10/2022	0.033		0.0008 (J)	0.0017 (J)
8/3/2022	0.035		0.00095 (J)	0.002 (J)
8/4/2022		0.039		
1/26/2023	0.023	0.012	0.0012 (J)	
1/27/2023				0.0014 (J)
8/10/2023		0.033		
8/12/2023	0.016		0.0019 (J)	0.0019 (J)
2/15/2024		<0.01	0.0085 (J)	
2/16/2024	0.013			0.0052 (J)
8/8/2024	0.011	0.046	0.0016 (J)	0.0052 (J)
2/13/2025		<0.01		
2/15/2025				0.022
2/16/2025			0.0067 (J)	
2/17/2025	0.015			
8/6/2025		0.013		0.034
8/10/2025	0.018		0.0035 (J)	
Mean	0.0294	0.03376	0.004073	0.005841
Std. Dev.	0.008411	0.01911	0.004033	0.00875

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 10/16/2025 3:39 PM View: Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-13	MW-19	MW-24D	MW-27D
Upper Lim.	0.03333	0.04574	0.01	0.0058
Lower Lim.	0.02547	0.02179	0.00095	0.0017

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 10/16/2025 3:39 PM View: Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-8	HGWC-9	HGWC-10	HGWC-11	HGWC-12	HGWC-13
5/20/2016	<0.005					
5/23/2016		<0.005	<0.005	0.0106	<0.005	<0.005
7/12/2016	<0.005	<0.005	<0.005	0.0057 (J)	<0.005	<0.005
9/1/2016	<0.005	<0.005	<0.005	0.0057 (J)	<0.005	<0.005
10/20/2016	<0.005	<0.005				
10/24/2016			<0.005	0.0021 (J)	<0.005	<0.005
12/6/2016	0.0024 (J)	0.0037 (J)				
12/7/2016			<0.005	0.0015 (J)	0.0011 (J)	<0.005
1/25/2017	<0.005					
1/26/2017		<0.005	0.0041 (J)	0.0062 (J)	<0.005	<0.005
3/21/2017	<0.005					
3/22/2017		<0.005	<0.005	0.0263	<0.005	<0.005
5/23/2017	<0.005	<0.005				
5/24/2017			<0.005	0.0038 (J)	<0.005	<0.005
4/3/2018	<0.005	<0.005				
4/4/2018			<0.005	0.021	<0.005	<0.005
6/5/2018			<0.005	0.0062 (J)		<0.005
6/6/2018	<0.005	<0.005			<0.005	
10/2/2018	<0.005	<0.005	0.0023 (J)			
10/3/2018				0.009 (J)	<0.005	
10/5/2018						<0.005
3/12/2019	<0.005					
3/13/2019		<0.005	0.0015 (J)	0.023		<0.005
3/14/2019					<0.005	
4/3/2019	<0.005	<0.005	<0.005	0.016	<0.005	
4/5/2019						0.00018 (J)
9/24/2019	<0.005					
9/26/2019						<0.005
9/27/2019		<0.005	<0.005	0.013	<0.005	
3/3/2020	<0.005		<0.005	0.016	<0.005	
3/4/2020		<0.005				<0.005
3/26/2020					<0.005	
3/27/2020	<0.005					
3/30/2020						<0.005
3/31/2020		<0.005		0.019		
4/1/2020			0.002 (J)			
9/16/2020	<0.005		<0.005			
9/17/2020		<0.005				
9/18/2020				0.0042 (J)	<0.005	
9/21/2020						0.0016 (J)
2/12/2021				0.0079 (J)	<0.005	
2/15/2021			0.0028 (J)			
2/16/2021	<0.005	<0.005				
2/22/2021						<0.005
3/12/2021			<0.005			
3/15/2021	<0.005					
3/16/2021		<0.005		0.015	<0.005	
3/17/2021						<0.005
8/17/2021		<0.005	<0.005			
8/18/2021	<0.005			0.0033 (J)	<0.005	
8/19/2021						<0.005
2/9/2022		<0.005	0.0031 (J)	0.0035 (J)	<0.005	

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 10/16/2025 3:39 PM View: Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-8	HGWC-9	HGWC-10	HGWC-11	HGWC-12	HGWC-13
2/10/2022	<0.005					<0.005
8/3/2022	<0.005		0.0017 (J)	0.0057	<0.005	<0.005
8/4/2022		<0.005				
1/26/2023		<0.005		0.01	<0.005	<0.005
1/27/2023			0.0035 (J)			
2/1/2023	<0.005					
8/10/2023			<0.005	0.0089	<0.005	
8/11/2023		<0.005				
8/12/2023	<0.005					<0.005
2/14/2024	<0.005					
2/15/2024		<0.005	0.0038 (J)	0.0063	<0.005	
2/16/2024						<0.005
8/7/2024	<0.005	<0.005	<0.005	0.0084	<0.005	
8/8/2024						<0.005
2/13/2025				<0.05	<0.005	
2/14/2025			0.0024 (J)			
2/15/2025	<0.005	<0.005				
2/17/2025						<0.005
8/6/2025	<0.005		<0.005	0.011	<0.005	
8/7/2025		<0.005				
8/10/2025						<0.005
Mean	0.004907	0.004954	0.004186	0.01051	0.004861	0.004706
Std. Dev.	0.0004914	0.0002457	0.001226	0.007105	0.000737	0.001095
Upper Lim.	0.005	0.005	0.005	0.01383	0.005	0.005
Lower Lim.	0.0024	0.0037	0.0035	0.007191	0.0011	0.0016

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 10/16/2025 3:39 PM View: Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-19	MW-27D
3/13/2019		<0.005
3/14/2019	<0.05	
4/3/2019	0.007 (J)	
4/4/2019		0.00012 (J)
9/26/2019		<0.005
9/27/2019	0.0013 (J)	
3/4/2020	0.0044 (J)	<0.005
3/26/2020	0.0053 (J)	
4/2/2020		<0.005
9/18/2020		<0.005
9/21/2020	0.0033 (J)	
2/12/2021	0.0021 (J)	
2/16/2021		<0.005
3/12/2021		<0.005
3/17/2021	<0.05	
8/17/2021		<0.005
8/18/2021	0.0026 (J)	
2/9/2022	0.0036 (J)	
2/10/2022		<0.005
8/3/2022		<0.005
8/4/2022	0.0022 (J)	
1/26/2023	0.0056	
1/27/2023		<0.005
8/10/2023	0.0038 (J)	
8/12/2023		<0.005
2/15/2024	0.0082	
2/16/2024		<0.005
8/8/2024	0.0034 (J)	<0.005
2/13/2025	<0.05	
2/15/2025		<0.005
8/6/2025	0.0038 (J)	<0.005
Mean	0.01215	0.004713
Std. Dev.	0.01814	0.001184
Upper Lim.	0.0082	0.005
Lower Lim.	0.0026	0.00012

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 10/16/2025 3:39 PM View: Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-8	HGWC-11	HGWC-12	HGWC-13	MW-19
5/20/2016	<0.0005				
5/23/2016		<0.0005	<0.0005	0.000378 (J)	
7/12/2016	7E-05 (J)	8E-05 (J)	0.0002 (J)	0.0004 (J)	
9/1/2016	<0.0005	<0.0005	<0.0005	0.0004 (J)	
10/20/2016	<0.0005				
10/24/2016		<0.0005	<0.0005	0.0005 (J)	
12/6/2016	<0.0005				
12/7/2016		<0.0005	<0.0005	0.0004 (J)	
1/25/2017	<0.0005				
1/26/2017		<0.0005	<0.0005	0.0004 (J)	
3/21/2017	9E-05 (J)				
3/22/2017		<0.0005	0.0001 (J)	0.0004 (J)	
5/23/2017	8E-05 (J)				
5/24/2017		8E-05 (J)	9E-05 (J)	0.0003 (J)	
4/3/2018	<0.0005				
4/4/2018		<0.0005	<0.0005	0.00032 (J)	
6/5/2018		<0.0005		0.00035 (J)	
6/6/2018	<0.0005		<0.0005		
10/2/2018	<0.0005				
10/3/2018		<0.0005	<0.0005		
10/5/2018				0.00025 (J)	
3/12/2019	<0.0005				
3/13/2019		<0.0005		0.00039 (J)	
3/14/2019			<0.0005		<0.0005
4/3/2019	<0.0005	<0.0005	<0.0005		<0.0005
4/5/2019				0.00034 (J)	
9/24/2019	0.00011 (J)				
9/26/2019				0.00039 (J)	
9/27/2019		<0.0005	8.8E-05 (J)		0.00027 (J)
3/3/2020	6.1E-05 (J)	<0.0005	6.6E-05 (J)		
3/4/2020				0.00056 (J)	0.00026 (J)
3/26/2020			8E-05 (J)		0.00026 (J)
3/27/2020	7.7E-05 (J)				
3/30/2020				0.00048 (J)	
3/31/2020		<0.0005			
9/16/2020	<0.0005				
9/18/2020		<0.0005	<0.0005		
9/21/2020				0.00036 (J)	0.0003 (J)
2/12/2021		<0.0005	<0.0005		0.00019 (J)
2/16/2021	<0.0005				
2/22/2021				0.0003 (J)	
3/15/2021	<0.0005				
3/16/2021		<0.0005	<0.0005		
3/17/2021				0.00037 (J)	0.00026 (J)
8/18/2021	<0.0005	<0.0005	<0.0005		0.00023 (J)
8/19/2021				0.0002 (J)	
2/9/2022		<0.0005	<0.0005		<0.0005
2/10/2022	<0.0005			<0.001	
8/3/2022	0.00018 (J)	<0.0005	<0.0005	<0.001	
8/4/2022					0.00026 (J)
1/26/2023		<0.0005	<0.0005	0.00031 (J)	<0.0005
2/1/2023	<0.0005				

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 10/16/2025 3:39 PM View: Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-8	HGWC-11	HGWC-12	HGWC-13	MW-19
8/10/2023		<0.0005	<0.0005		<0.0005
8/12/2023	<0.0005			0.00028 (J)	
2/14/2024	<0.0005				
2/15/2024		<0.0005	<0.0005		<0.0005
2/16/2024				<0.001	
8/7/2024	<0.0005	<0.0005	<0.0005		
8/8/2024				<0.001	0.00043 (J)
2/13/2025		<0.0005	<0.0005		<0.0005
2/15/2025	<0.0005				
2/17/2025				0.00025 (J)	
8/6/2025	<0.0005	<0.0005	<0.0005		<0.0005
8/10/2025				0.00029 (J)	
Mean	0.0003989	0.00047	0.0004151	0.0003792	0.00038
Std. Dev.	0.0001794	0.0001102	0.0001668	9.132E-05	0.0001256
Upper Lim.	0.0005	0.0005	0.0005	0.0004219	0.0005
Lower Lim.	0.00018	8E-05	0.0002	0.0003365	0.00026

ND substitution: RL or RL/2 if <15% NDs.

FIGURE I.

Appendix IV Trend Tests - Confidence Interval Exceedances - Significant Results

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 10/16/2025, 3:42 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Arsenic (mg/L)	**HGWC-13**	**0.01565**	**146**	**131**	**Yes**	**28**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Molybdenum (mg/L)	**HGWC-8**	**-0.02876**	**-222**	**-139**	**Yes**	**29**	**0**	**n/a**	**n/a**	**0.01**	**NP**

Appendix IV Trend Tests - Confidence Interval Exceedances - All Results

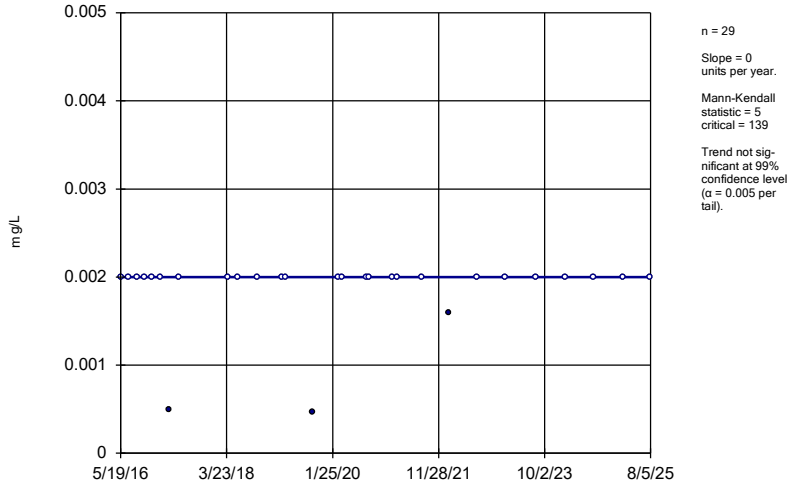
Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 10/16/2025, 3:42 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Arsenic (mg/L)	HGWA-1 (bg)	0	5	139	No	29	89.66	n/a	n/a	0.01	NP
Arsenic (mg/L)	HGWA-2 (bg)	0	78	139	No	29	68.97	n/a	n/a	0.01	NP
Arsenic (mg/L)	HGWA-3 (bg)	0	86	139	No	29	68.97	n/a	n/a	0.01	NP
Arsenic (mg/L)	HGWA-43D (bg)	0	1	53	No	15	53.33	n/a	n/a	0.01	NP
Arsenic (mg/L)	HGWA-44D (bg)	0	-5	-53	No	15	66.67	n/a	n/a	0.01	NP
Arsenic (mg/L)	**HGWC-13**	**0.01565**	**146**	**131**	**Yes**	**28**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Molybdenum (mg/L)	HGWA-1 (bg)	0	0	146	No	30	100	n/a	n/a	0.01	NP
Molybdenum (mg/L)	HGWA-2 (bg)	0	0	139	No	29	100	n/a	n/a	0.01	NP
Molybdenum (mg/L)	HGWA-3 (bg)	0	0	146	No	30	100	n/a	n/a	0.01	NP
Molybdenum (mg/L)	HGWA-43D (bg)	-0.0007531	-35	-53	No	15	13.33	n/a	n/a	0.01	NP
Molybdenum (mg/L)	HGWA-44D (bg)	0.00006134	8	53	No	15	13.33	n/a	n/a	0.01	NP
Molybdenum (mg/L)	**HGWC-8**	**-0.02876**	**-222**	**-139**	**Yes**	**29**	**0**	**n/a**	**n/a**	**0.01**	**NP**

Sanitas™ v.10.1.01 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

HGWA-1 (bg)



n = 29

Slope = 0 units per year.

Mann-Kendall statistic = 5
critical = 139

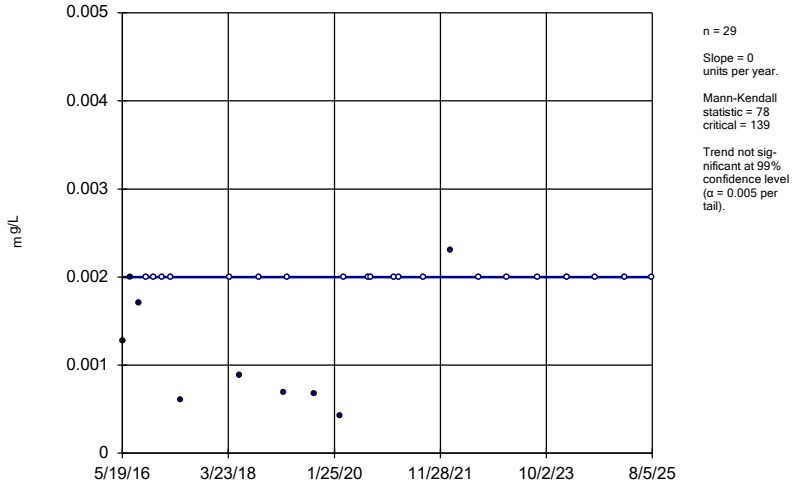
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Arsenic Analysis Run 10/16/2025 3:41 PM View: Appendix IV Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.1.01 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

HGWA-2 (bg)



n = 29

Slope = 0 units per year.

Mann-Kendall statistic = 78
critical = 139

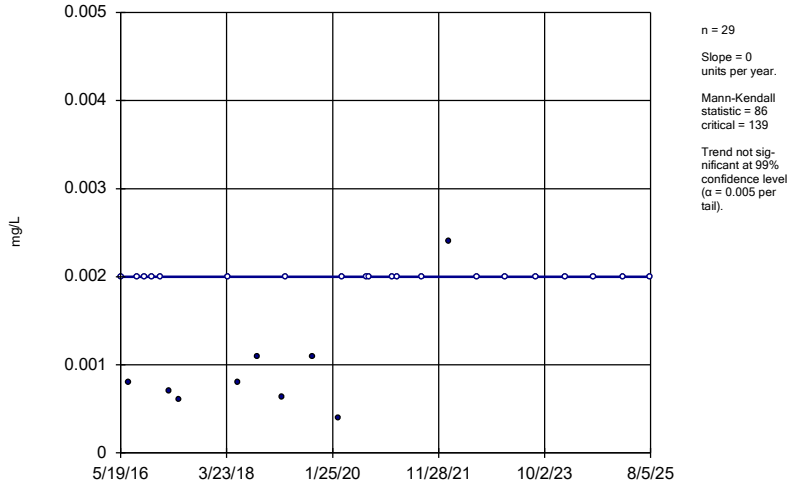
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Arsenic Analysis Run 10/16/2025 3:41 PM View: Appendix IV Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.1.01 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

HGWA-3 (bg)



n = 29

Slope = 0 units per year.

Mann-Kendall statistic = 86
critical = 139

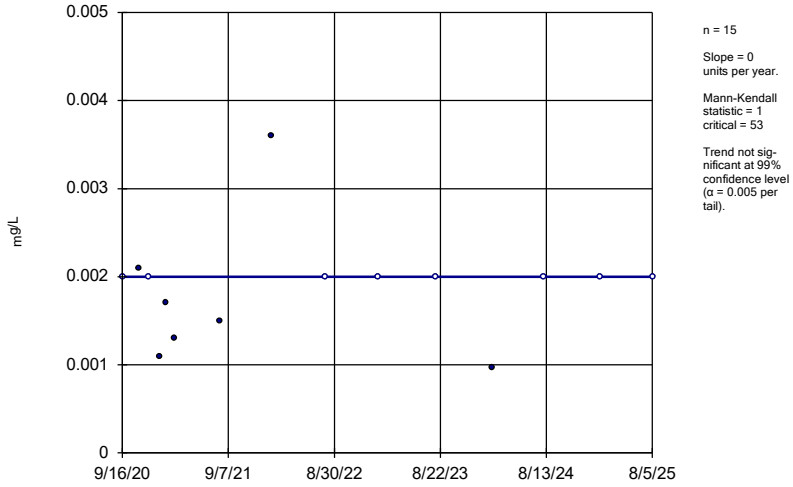
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Arsenic Analysis Run 10/16/2025 3:41 PM View: Appendix IV Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.1.01 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

HGWA-43D (bg)



n = 15

Slope = 0 units per year.

Mann-Kendall statistic = 1
critical = 53

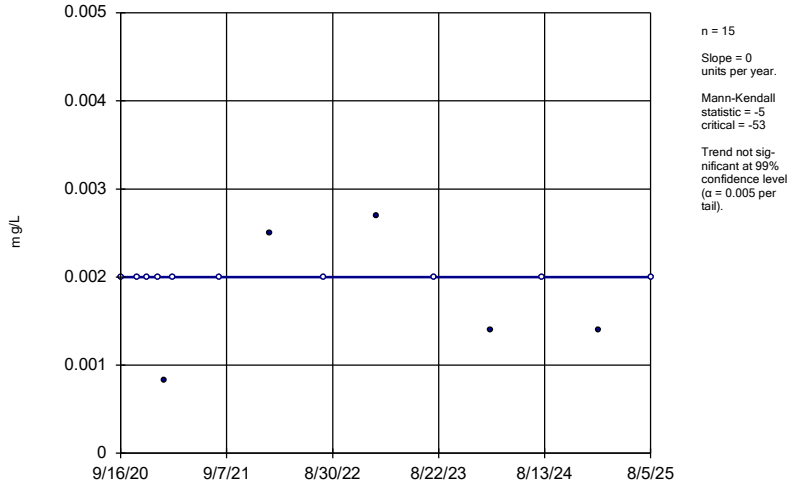
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Arsenic Analysis Run 10/16/2025 3:41 PM View: Appendix IV Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.1.01 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

HGWA-44D (bg)



n = 15

Slope = 0 units per year.

Mann-Kendall statistic = -5
critical = -53

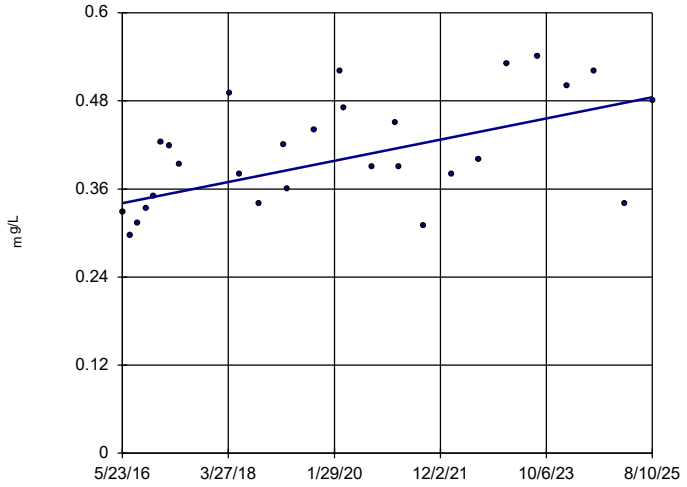
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Arsenic Analysis Run 10/16/2025 3:41 PM View: Appendix IV Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.1.01 Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

HGWC-13



n = 28

Slope = 0.01565 units per year.

Mann-Kendall statistic = 146
critical = 131

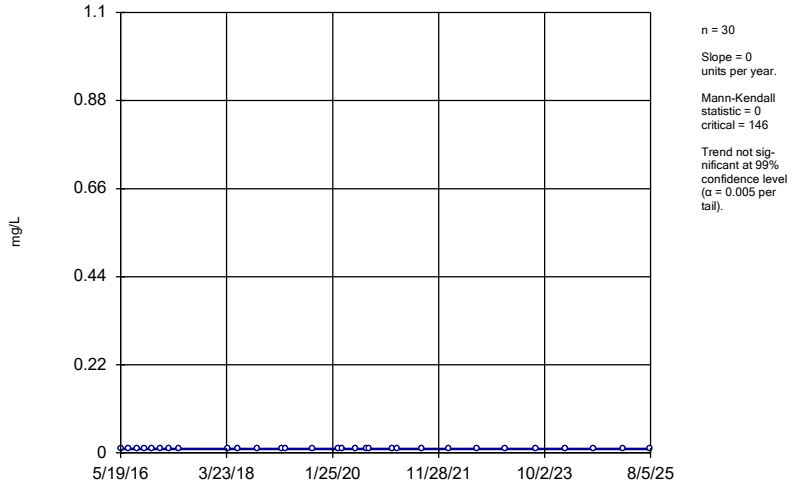
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Arsenic Analysis Run 10/16/2025 3:41 PM View: Appendix IV Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.1.01 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

HGWA-1 (bg)



n = 30

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 146

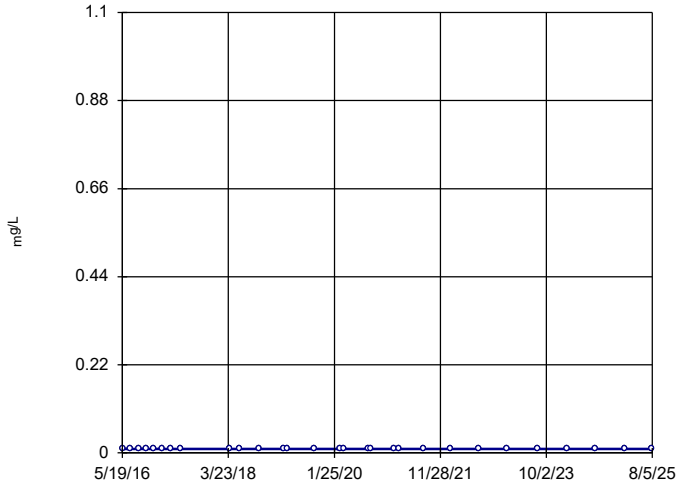
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Molybdenum Analysis Run 10/16/2025 3:41 PM View: Appendix IV Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.1.01 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

HGWA-2 (bg)



n = 29

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 139

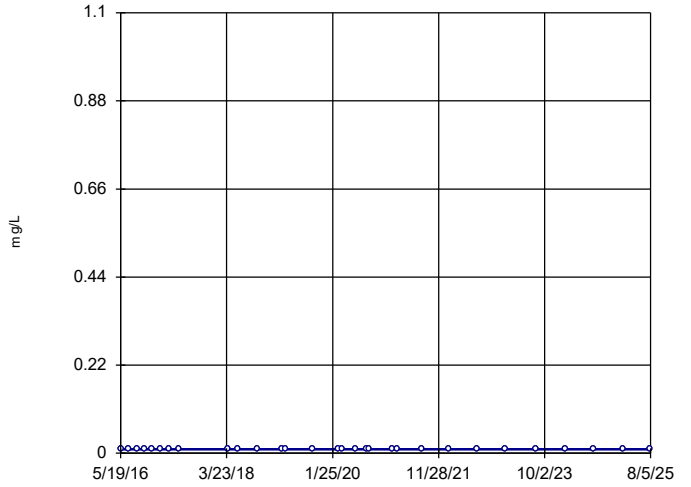
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Molybdenum Analysis Run 10/16/2025 3:41 PM View: Appendix IV Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.1.01 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

HGWA-3 (bg)



n = 30

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 146

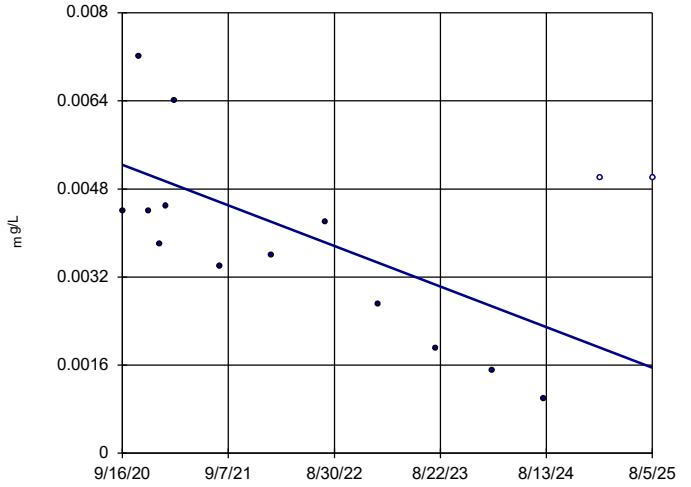
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Molybdenum Analysis Run 10/16/2025 3:41 PM View: Appendix IV Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.1.01 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

HGWA-43D (bg)



n = 15

Slope = -0.0007531 units per year.

Mann-Kendall statistic = -35
critical = -53

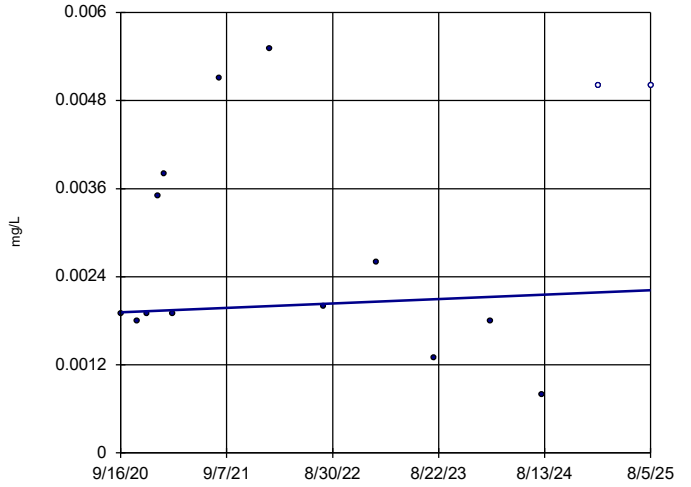
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Molybdenum Analysis Run 10/16/2025 3:41 PM View: Appendix IV Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.1.01 Sanitas software utilized by Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

HGWA-44D (bg)



n = 15

Slope = 0.00006134 units per year.

Mann-Kendall statistic = 8
critical = 53

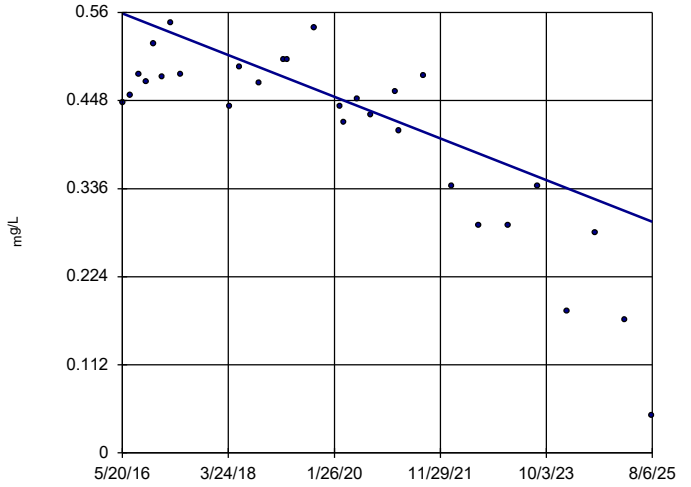
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Molybdenum Analysis Run 10/16/2025 3:41 PM View: Appendix IV Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.10.1.01 Sanitas software utilized by Groundwater Stats Consulting. UG

Sen's Slope Estimator

HGWC-8



n = 29

Slope = -0.02876 units per year.

Mann-Kendall statistic = -222
critical = -139

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Molybdenum Analysis Run 10/16/2025 3:41 PM View: Appendix IV Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-1

APPENDIX D

Pilot Study Summary Report

Prepared for

Georgia Power Company
241 Ralph McGill Blvd NE
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PILOT STUDY SUMMARY REPORT

PILOT TEST NO. UPT000062 AND UPT000068
PLANT HAMMOND ASH POND 1 (AP-1)

Prepared by

engineers | scientists | innovators

1255 Roberts Boulevard, Suite 200
Kennesaw, Georgia 30144

Project Number GW6581G

August 2025

CERTIFICATION STATEMENT

I hereby certify that this *Pilot Study Summary Report* was prepared by, or under the direct supervision of, a Qualified Groundwater Scientist, in accordance with the Georgia Environmental Protection Division Rules of Solid Waste Management. According to 391-3-4-.01, a Qualified Groundwater Scientist is "a professional engineer or geologist registered to practice in Georgia who has received a baccalaureate or post-graduate degree in the natural sciences or engineering and has sufficient training and experience in groundwater hydrology and related fields that enable individuals to make sound professional judgments regarding groundwater monitoring, contaminant fate and transport, and corrective action." This report was developed in compliance with the Georgia Rules of Solid Waste Management, Chapter 391-3-4.10.

_____ August 29, 2025

Whitney B. Law — Date

Georgia Professional Engineer No. 36641

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LIST OF ACRONYMS AND ABBREVIATIONS

ACM	Assessment of Corrective Measures
AP-1	Ash Pond 1
As	Arsenic
Cascade	Cascade Drilling, Inc.
CAMP	Corrective Action Monitoring Plan
CCR	coal combustion residual
CFR	Code of Federal Regulations
CSM	conceptual site model
DPT	direct push technology
EPD	Georgia Environmental Protection Division
ft/day	feet per day
$FeSO_4$	ferrous sulfate
g/L	grams per liter
gal	gallons
gpm	gallons per minute
gpd	gallons per day
GA EPD	Georgia Environmental Protection Division
Georgia Power	Georgia Power Company
Geosyntec	Geosyntec Consultants, Inc.
gpd	gallons per day
GWPS	Groundwater Protection Standard
HCO_3	bicarbonate
IBC	intermediate bulk container
Kh	horizontal hydraulic conductivity
MgO	magnesium oxide
mg/L	milligrams per liter
Mo	molybdenum
MNA	monitored natural attenuation
$NaHCO_3$	sodium bicarbonate
ORP	oxidation-reduction potential
psi	pound per square inch
PSPIER	Pilot Study Post-Injection Event Report
ROI	radius of influence
SCFM	Standard Cubic Feet per Minute

1. BACKGROUND AND PURPOSE

This *Pilot Study Summary Report* (Report) was developed by Geosyntec Consultants, Inc. (Geosyntec) as part of implementing the Assessment of Corrective Measures (ACM) process at Georgia Power Company (Georgia Power) Plant Hammond Ash Pond 1 (AP-1; Site). The *Draft Remedy Selection Report* (Geosyntec, 2022) proposed in-situ geochemical injections, coupled with monitored natural attenuation (MNA), as corrective measures to address concentrations of molybdenum (Mo) and arsenic (As) reported at statistically significant levels (SSLs) above Groundwater Protection Standards (GWPS) in detection monitoring wells HGWC-8 and HGWC-13, respectively, at Georgia Power Plant Hammond Ash Pond 1. As documented in the *Draft Remedy Selection Report*, geochemical injections and monitored natural attenuation meet the required remedy criteria set forth in the United States Environmental Protection Agency's (USEPA's) Coal Combustion Residuals (CCR) Rule, 40 Code of Federal Regulations (CFR) Parts 257 effective October 19, 2015 (CCR Rule) including subsequent revisions and Georgia Environmental Protection Division's (GA EPD's) Rule for Solid Waste Management Rule 391-3-4-.10 for CCR.

In a letter dated September 23, 2022, the GA EPD Solid Waste Management Program reviewed the *Draft Remedy Selection Report* and provided written concurrence to move forward with pilot testing to inform corrective action design. Geosyntec prepared the *HGWC-8 Pilot Study Workplan* and the *HGWC-13 Pilot Study Workplan* (Geosyntec, 2023a; 2023b; collectively referred to herein as primary Workplans) detailing the planned injections and subsequent performance monitoring. The Workplans were subsequently approved by both the EPD Underground Injection Control (UIC) Program and Solid Waste Management Program in a letter dated August 24, 2023, authorizing limited pilot test injections with a 90-day duration to inform corrective action design.

In 2024, Geosyntec submitted *HGWC-8 Supplemental Pilot Study Workplan* and the *HGWC-13 Supplemental Pilot Study Workplan* describing additional injection activities necessary to inform corrective action design (Geosyntec, 2024a; 2024b). These supplemental Workplans were subsequently approved by both the EPD UIC Program and Solid Waste Management Program in a letter dated June 21, 2024, authorizing limited pilot test injections with a 90-day duration. This comprehensive report summarizes the results of these pilot studies.

Design of in-situ geochemical injection corrective measures includes multiple assessment and design components, including pilot studies to evaluate injection delivery and the performance of injectates prior to implementing a full scale remedy. Data collected during this pilot study has been used to evaluate:

1. Injectate dosing and efficacy of treating Mo and As in groundwater to below the GWPS.

2. Radius of influence (ROI) of the injected amendment and air sparge to evaluate future injection point spacing requirements; and

3. Sustainable injection and sparging pressure and flowrate.

This comprehensive Report summarizes pilot study activities which were initiated in June 2023 and were completed in February 2025 in accordance with the Workplans. Pilot study activities, completed in two phases (June through October 2023 and April through July 2024), were previously reported in *Pilot Study Post-Injection Event Reports* (Geosyntec, 2023c; 2024c; PSPIER), and are included as **Appendix A**. The performance monitoring activities through December 2024 have been summarized in semiannual groundwater monitoring reports and below. This report summarizes the results of the pilot study.

Georgia Power anticipates receiving written authorization from GA EPD to hold a public meeting to discuss the proposed remedy of in-situ geochemical approaches, coupled with MNA. After the public meeting, Georgia Power will revise the *Draft Remedy Selection Report*, incorporating the public meeting comments.

2. PRE-INJECTION ACTIVITIES

Two temporary corrective action performance monitoring piezometers (performance monitoring wells) were installed at each pilot study area (i.e., the HGWC-8 area and the HGWC-13 area) in June 2023. Performance monitoring wells were located proximal to HGWC-8 and HGWC-13,in areas where detections of Mo and As above the GWPS were expected, based on high-resolution site characterization activities. Performance monitoring wells PT-07 and PT-08 were installed at the HGWC-13 pilot study area. Performance monitoring wells PT-09 and PT-10 were installed at the HGWC-8 pilot study area.

Twelve additional temporary injection, air sparge, and performance monitoring wells were installed in April 2024 to support supplemental pilot study activities (INW-03, AS-01, AS-02, PT-11, PT-12 in HGWC-8 area, and AS-03, AS-04, INW-04, INW-05, PT-13, PT-14, and PT-15 in HGWC-13 area). INW-03, INW-04, and INW-05 were installed as injection wells, AS-01, AS-02, AS-03, and AS-04 were installed as air sparge wells, and wells PT-11, PT-12, PT-13, PT-14, and PT-15 were installed to monitor the performance of the supplemental pilot study injections. Well installation was performed in accordance with the Workplans by Cascade Drilling, Inc. (Cascade) of Midland, North Carolina. Well locations are shown on **Figures 1 and 2,** and construction details are provided in **Table 1.** Additional details on pilot well installation is included in the PSPIERs (Geosyntec, 2023c; 2024c).

Geosyntec conducted slug testing to estimate horizontal hydraulic conductivity (Kh) at select pilot study wells following well installation and development. Hydraulic conductivities were estimated using the Bouwer-Rice analytical solution. The geometric mean hydraulic conductivities of HGWC-8 and HGWC-13 pilot study area wells were 5.49 and 3.65 feet per day (ft/d), respectively. Hydraulic conductivities estimated from slug tests are summarized in **Table 2**. Slug test graphical solutions and model parameters are included as **Appendix B**.

Two rounds of groundwater samples were collected from the performance monitoring wells (PT-07 through PT-10) in July and August 2023 to establish pre-injection baseline conditions. Two additional rounds of groundwater samples were collected from the injection wells and performance monitoring wells (INW-03 through INW-05; PT-07 through PT-15) in May 2024 to re-establish baseline prior to supplemental pilot study injection activities.

The results of the 2024 baseline sampling event are presented in **Table 3**. The baseline analytical laboratory results and field sampling and equipment calibration forms are

provided in **Appendix C**. These results were generally consistent with screening level analytical data collected during high resolution site characterization activities completed in 2022 proximal to HGWC-8 (Geosyntec, 2023d; Geosyntec, 2023e) and in 2023 proximal to HGWC-13 (Geosyntec, 2023d).

3. INJECTION ACTIVITIES

Injection activities in 2023 and 2024 were performed by Cascade with technical supervision conducted by a Qualified Groundwater Scientist from Geosyntec. Pilot study injection activities conducted from September 25 through October 17, and December 4-13, 2023 consisted of ferrous sulfate ($FeSO_4$) heptahydrate, and/or magnesium oxide (MgO) obtained from TerraSystems, Inc. mixed with potable water obtained from an on-site fire hydrant that was designated in the Workplans. Injectate batches consisted of up to 0.02 gram per liter (g/L) $FeSO_4$, or up to 1 g/L MgO, which are below the maximum allowable injectate concentration of 0.03 g/L $FeSO_4$ and 5 g/L MgO set forth in the primary Workplans.

As detailed in the 2023 PSPIER (**Appendix A**), injectate was delivered using a pump and through steel rods to a steel well screen advanced using direct push technology (DPT) drilling. DPT injections were initiated at the top of injectable treatment zone and proceeded downward (i.e., top-down), utilizing both 2-ft or 5-ft long steel well screens. DPT injections occurred at four locations surrounding PT-07 and PT-09, as shown on **Figure 1**. The average injection flow rate, average daily injection volume, and total injection volume for each pilot study area are provided below.

	HGWC-8 Area	**HGWC-13 Area**
Average Flow Rate (gallons per minute [gpm])	3.9	2.4
Average Daily Injection Volume (gal)	1,290	840
Total Injection Volume (gal)	24,492	11,759

Based on post-injection analytical data, supplemental injection activities were performed July 9 to July 31, 2024, and September 9 to September 20, 2024, utilizing static injection at injection wells and air-sparge wells. Injections at wells INW-03, INW-04 and INW-05 (**Figure 2**) were initially tested using gravity-fed injection methodology. Due to low flow rates observed while implementing this method, a pressurized injection methodology was employed at INW-03 through INW-05, as detailed in the 2024 PSPIER. Injectate consisted of 0.5 to 1 g/L $FeSO_4$, which was below the maximum allowable concentration of 2 g/L FeSO4 included in the supplemental Workplans. The average injection flow rate, average daily injection volume, and total injection volume for each injection well are provided below.

	INW-03	INW-04	INW-5
	HGWC-8 Area	HGWC-13 Area	HGWC-13 Area
Average Flow Rate (gpm)	6.1	3.3	3.5
Average Daily Injection Volume (gal)	1,294	638	614
Total Injection Volume (gal)	5,175	7,650	5,530

Injection pressures, flowrates, water levels, and groundwater quality parameters in nearby performance monitoring wells were measured throughout injection activities, and the daily maximum injection volume across both pilot study areas was below the value included in the Pilot Test Notification Form (3,500 gal per day [gpd]). A summary of daily injected volumes is included in **Table 4.**

In addition to the supplemental injection of $FeSO_4$, air sparging activities were performed in the HGWC-13 area. Air sparging flow rates and pressures were monitored throughout the sparging activities and were below the maximum allowable values included in the supplemental Pilot Test Notification Form (25 standard cubic feet per minute [SCFM] and 15 pounds per square inch [psi], respectively). Air sparging flowrates and durations are summarized in **Table 5**.

Screening level groundwater grab samples were collected and analyzed for select total and dissolved[1] metals during supplemental injection activities to evaluate ongoing injection performance while in the field. Screening-level groundwater analytical results are summarized in **Table 6** and the associated analytical laboratory reports and field calibration forms are included in **Appendix D.**

[1] Dissolved samples were filtered in the field.

4. POST-INJECTION PERFORMANCE MONITORING ACTIVITIES

Post-injection performance monitoring was initiated following the September 2023 injection event on October 10, 2023, and October 17, 2023, in HGWC-8 and HGWC-13 area, respectively, with groundwater samples collected from all performance monitoring wells in accordance with the Workplans. The monitoring frequency was weekly[2] for three weeks, followed by two additional samples collected every two to four weeks, prior to December 2023 injection activities.

Post-injection performance monitoring was initiated at the HGWC-8 area and HGWC-13 on December 14 and on December 8, 2023, respectively, following December injections. Both pilot study areas were monitored in accordance with the primary Workplans through May 2024. Supplemental injections were subsequently implemented based on post-injection performance data, which indicated that injections did not treat As and Mo to below GWPS at pilot study wells.

Following July 2024 supplemental injections, additional post-injection performance monitoring was initiated on July 31, 2024, and August 1, 2024, at the HGWC-8 and HGWC-13 areas, respectively. Three samples were collected on a weekly basis, followed by two additional samples collected every 2 to 3 weeks prior to September 2024 supplemental injections. The post injection performance monitoring following the September 2024 injection activities was initiated on September 25, 2024, and continued on a weekly basis for three weeks, and on a monthly basis for five months through March 2025.

In accordance with the Workplans, groundwater quality data from each performance monitoring event was directly compared against the Mo and As GWPS and the results of the baseline characterization to evaluate the efficacy of injectates as a method of remediation. In addition, Appendix IV monitoring parameters[3] were analyzed and monitored over the duration of the pilot study to evaluate potential localized mobilization of other Appendix IV parameters following injections. Post-injection performance sampling results for 2023 and 2024 injection activities are presented in **Table 7A** and **Table 7B**, respectively. Post-injection performance monitoring analytical laboratory results and field sampling and equipment calibration forms are provided in **Appendix E.**

[2] In accordance with the Workplans, monitoring frequency in the first month was increased from biweekly to weekly based on field observations.
[3] Excluding radium.

5. PILOT STUDY RESULTS

5.1 Injectate Efficacy and Dosing

5.1.1 HGWC-8 Area

As demonstrated in **Figure 3**, the injection of 0.5 to 1.0 g/L $FeSO_4$ in 2024 successfully treated Mo in groundwater to below the GWPS at PT-11. Additionally, secondary mobilization of other Appendix IV constituents was not observed.

The concentration of Mo dropped to below GWPS in PT-11, the closest monitoring well to the injection well, following the first injection in July 2024 and remained below GWPS for 40 days (**Figure 3**). An additional injection of 1 g/L of $FeSO_4$ was completed in September 2024 following a rebound in Mo concentration above the GWPS at PT-11. Following this injection, the Mo concentration at PT-11 dropped to and remained below GWPS for about 50 days. Although a subsequent rebound in Mo above the GWPS was observed after 50 days, Mo concentrations stabilized at significantly lower level (0.13 mg/L) as compared to June 2024 baseline concentrations (0.24 mg/L). Molybdenum concentrations in other performance monitoring wells PT-09 and PT-12 also generally decreased (up to 50%) following July and September injections (**Figure 3).**

The pilot study results for HGWC-8 area align with the conceptual site model (CSM) for AP-1, which states that Mo in HGWC-8 potentially originated from AP-1 and is attenuated through adsorption onto naturally occurring amorphous and crystalline metal oxides and oxyhydroxides surfaces. The extent of Mo attenuation varies based on the groundwater chemistry and availability of sorption sites. Molybdenum can also potentially be attenuated through coprecipitation and entrained in the crystal structure of iron oxide minerals as they form (e.g. after injection of iron) under oxidizing conditions similar to groundwater conditions in HGWC-8 area. As such, the injection of $FeSO_4$ in HGWC-8 area reduced Mo concentrations in groundwater through multiple likely mechanisms, including (i) coprecipitation of iron oxides, and (ii) enhanced adsorption onto iron oxide surfaces by increasing the number of adsorption sites and adsorption intensity.

The injectate dosing of 1 g/L $FeSO_4$ was sufficient to immobilize Mo during the pilot study. However, injectate concentrations may be adjusted during implementation to meet remedial objectives, as Mo impacts vary spatially. Additionally, maintenance injections may be required during implementation.

5.1.2 HGWC-13 Area

Air sparging in the HGWC-13 pilot study area successfully reduced As concentrations to below the GWPS. Additionally, no secondary mobilization of other Appendix IV constituents was observed during the pilot study.

The concentration of As dropped below the GWPS in PT-07, PT-13, PT-14, and PT-15, and remained below the GWPS in PT-07, PT-13, and PT-15 for an extended period after air sparging was discontinued (>250 hours, **Figure 4, Tables 6, 7B**). There was a rebound in As in PT-14, PT-13, and PT-07 and concentrations were comparable to baseline levels by January 2025. However, in PT-15, the closest well to the air sparge well (AS-03), As concentrations remained five times lower than the baseline concentration (0.08 mg/L vs. 0.4 mg/L) by March 2025, seven months after air sparging ceased. This was associated with higher oxidation-reduction potential (ORP) and lower iron concentrations compared to baseline levels (**Table 7B**). Similar correlations between As, background iron and ORP levels were observed across all monitoring wells throughout the pilot study.

The groundwater in the HGWC-13 pilot study area is generally reducing and contains more than 9 mg/L of iron. Under reducing conditions, As is predominantly present as As(III), which is significantly less susceptible to adsorption onto soil surfaces than As(V). Air sparging promotes the oxidation of Fe(II) and the precipitation of iron hydroxides. Arsenic can coprecipitate with iron and become entrained within iron mineral crystals. The elevated oxidation levels in the presence of ferrous iron can also promote the co-oxidation of As through Fenton-type reactions. The oxidized species, As(V), can readily adsorb onto soil surfaces.

The pilot study results suggest that air sparging at the HGWC-13 area attenuated arsenic through multiple iron dependent mechanisms, including coprecipitation and adsorption. Although injections of $FeSO_4$ at concentrations up to 1 g/L were unsuccessful at treating As to below the GWPS in the absence of air sparging, $FeSO_4$ injections may be necessary when insufficient iron is present to attenuate As due to spatial and temporal variations in water chemistry.

5.2 Radius of Influence

Injection radius of influence (ROI) was evaluated using analytical data collected in nearby performance monitoring wells during injections, as described below.

5.2.1 HGWC-8 Area

The ROI in HGWC-8 area was estimated based on concentrations of boron (B), iron, and Mo in performance monitoring wells following the July 2024 injections. Boron concentration was used as a conservative tracer to assess groundwater dilution following

the injection of $FeSO_4$. Iron served as a qualitative indicator of injectate breakthrough, and Mo was used as a qualitative indicator of the effective treatment ROI, as these constituents are redox-sensitive constituents.

The analytical results (**Table 6**) suggest that a relatively consistent injectate breakthrough occurred at PT-11 (located 3.9 ft side-gradient from injection well INW-03) after 975 gallons of injectate were injected. Boron concentration dropped by 45%, iron concentration increased from 0.34 mg/L to 3 mg/L, and Mo concentration decreased by approximately 80% and below GWPS. After 3,400 gallons of $FeSO_4$ were injected (2,200 gallons of 0.5 g/L and 1,200 gallons of 1 g/L), iron concentrations increased by more than two orders of magnitude compared to baseline levels. These suggest that a minimum ROI of 3.9 ft was achieved

At PT-09, located 5.7 ft downgradient from the injection well, B concentration decreased by 20% after the injection of 2,200 gallons. Molybdenum concentrations decreased by 50% after a total injection of 3,200 gallons but remained slightly above the GWPS (0.13 mg/L). This suggests that PT-09 is within the ROI of the injection well. However, given that Mo concentrations remained above the GWPS, the effective ROI of INW-03 was assumed to be 3.9 ft. There were generally limited changes in the B at PT-12 and PT-10, suggesting that the injection ROI was less than 7.8 ft.

5.2.2 HGWC-13 Area

The air sparging radius of influence in the HGWC-13 area was estimated based on changes in dissolved oxygen, ORP, As, and iron in performance monitoring wells following September 2024 air sparging activities. Air was injected into wells AS-03 and AS-04 for more than 60 hours between September 9 and September 12. Dissolved oxygen, ORP, and iron were used as indicators of changes in redox conditions in the wells. Oxygen levels were significantly higher than baseline levels (prior to sparging) in PT-13, PT-15, and PT-07. This was associated with increases in ORP and decreases in baseline iron and As concentrations. After 60 hours of air sparging, arsenic levels were barely above the GWPS (0.012 to 0.017 mg/L) in these three wells. Arsenic concentrations dropped below the GWPS after 90 cumulative hours of air sparging between September 9 and September 18 in PT-15.

A relatively limited and non-sustained response to air sparging was observed in PT-14 and PT-08, indicating no clear correlation between observed redox condition changes and well distances from air sparging wells beyond 4 ft, likely attributed to subsurface heterogeneity.

Among the five performance monitoring wells, PT-15 demonstrated the most sustained response to air sparging, reflected in generally higher ORP and lower arsenic levels compared to the other wells during the performance monitoring period. As such, the distance between AS-03 and PT-15 was assumed to represent the minimum effective sparging ROI in the HGWC-13 pilot study area.

Iron concentration was used as a qualitative indicator of the injection radius of influence in the HGWC-13 area. Following the injection of approximately 3,300 gallons of 1 g/L $FeSO_4$ between July 23 and 24, iron concentrations at PT-14 increased by more than one order of magnitude, indicating that a minimum ROI of 3.9 feet was achieved. Iron concentrations increased approximately 2.8 to 4.4 times in PT-08, and PT-13, but remained relatively stable at PT-15, suggesting that the injection ROI in the HGWC-13 area is less than 8.2 ft.

5.3 Sustainable Injection Pressure and Flowrate

5.3.1 HGWC-8 Area

A DPT maximum injection flow rate of 6.8 gpm was achieved with an injection pressure of 4 psi. An injection flow rate of 2–3 gpm was achieved using gravity-feed injection at INW-03, while the wellhead pressure remained below 2 psi. Under pressurized injection (<4 psi) higher flow rates (up to 10 gpm) were achieved.

5.3.2 HGWC-13 Area

A DPT maximum injection flow rate of 5 gpm was achieved with an injection pressure of 11 psi. Injection flow rates of up to 4 gpm were achieved during the gravity-fed injection of potable water at INW-04 and INW-05. Injection flow rates as high as approximately 5.0 gpm, with a maximum wellhead pressure of 6.8 psi, were achieved during pressurized injections at INW-04 and INW-05.

The maximum air sparging flow rates attained at AS-03 and AS-04 were 10 SCFM and 4 SCFM, respectively. The wellhead pressure at AS-03 and AS-04 remained below 14 psi.

5.4 Source Control and Natural Attenuation

Closure construction activities for AP-1 consist of closure by removal. Closure by removal includes excavation and removal of the CCR material from AP-1. Physical removal of the CCR will, over time, be supportive of declining concentrations of Appendix IV constituents in groundwater downgradient of AP-1 and improve overall

groundwater quality. For example, Mo concentrations at HGWC-8 have declined substantially since the initiation of closure activities in 2020. Data collected during the pilot study confirm that in-situ injections are compatible with ongoing natural attenuation at AP-1, and are expected to further enhance groundwater cleanup to below GWPS.

6. CONCLUSION

This pilot study has demonstrated that (i) the in-situ geochemical injection of $FeSO_4$ successfully treated Mo in groundwater to below the GWPS at HGWC-8 pilot study area, and (ii) air sparging successfully treated As in groundwater to below the GWPS at HGWC-13 pilot study area. Secondary mobilization of other Appendix IV constituents was not observed during pilot studies. Furthermore, the results of this pilot study support the proposed remedy described in the Draft Remedy Selection Report. Based on these results, the proposed remedies are capable of meeting requirements listed in §257.97. Data collected from this pilot study will be used in the design of in-situ geochemical injection corrective measures and included in the Corrective Action Monitoring Plan. Full-scale in-situ geochemical injection and MNA corrective measures are expected to treat Mo and As SSLs above the GWPS in detection monitoring wells HGWC-8 and HGWC-13, respectively, at AP-1.

Georgia Power anticipates receiving written authorization from GA EPD to hold the public meeting with the proposed remedy of in-situ geochemical approaches, coupled with MNA. After the public meeting, Georgia Power will revise the Draft Remedy Selection Report, incorporating the public meeting comments.

7. REFERENCES

Geosyntec, 2022. *Draft Remedy Selection Report, Georgia Power Company, Plant Hammond Ash Pond 1. August 2022.*

Geosyntec, 2023a. *HGWC-8 Pilot Study Workplan, Plant Hammond Ash Pond 1 (AP-1)*. August 2023.

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Geosyntec, 2023d. HGWC-8 *Pre-Design Investigation Summary Technical Memorandum, Plant Hammond Ash Pond 1 (AP-1)*. June 2023.

Geosyntec, 2023e. HGWC-13 *Pre-Design Investigation Summary Technical Memorandum, Plant Hammond Ash Pond 1 (AP-1)*. June 2023.

Geosyntec, 2024a. *HGWC-8 Supplemental Pilot Study Workplan, Plant Hammond Ash Pond 1(AP-1)*. March 2024.

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Geosyntec, 2024c. *Pilot Study Post-Injection Event Report (AP-1)*. August 2024.

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TABLES

Table 1

Summary of Well Construction Details

Plant Hammond AP-1, Floyd County, Georgia

Pilot Study Area	Well ID	Well Completion	Installation Date	Northing [1]	Easting [1]	Ground Surface Elevation [1] (ft)	Top of Casing Elevation [1] (ft)	Top of Screen Elevation (ft)	Bottom of Screen Elevation (ft)	Well Depth (ft bgs) [2]
HGWC-13 Area	***Temporary Sparge Wells***									
	AS-03	Flush Mount	4/28/2024	1548670.10	1940933.87	591.98	591.60	545.98	543.98	48.30
	AS-04	Flush Mount	4/28/2024	1548680.80	1940930.83	591.97	591.50	544.97	542.97	49.30
	Temporary Injection Wells									
	INW-04	Flush Mount	4/28/2024	1548671.73	1940929.98	592.01	591.58	557.01	547.01	45.30
	INW-05	Flush Mount	4/28/2024	1548680.07	1940935.89	591.81	591.31	556.81	546.81	45.30
	Temporary Performance Monitoring Wells									
	PT-07[3]	Flush Mount	6/3/2023	1548675.24	1940933.39	592.00	591.75	554.40	544.30	48.00
	PT-08[3]	Flush Mount	6/3/2023	1548666.82	1940929.58	592.10	591.83	560.20	550.20	42.20
	PT-13	Flush Mount	4/28/2024	1548676.04	1940939.23	591.88	591.47	556.88	546.88	45.30
	PT-14	Flush Mount	4/28/2024	1548673.63	1940926.52	592.06	591.62	557.06	547.06	45.30
	PT-15	Flush Mount	4/28/2024	1548668.35	1940937.45	591.90	591.37	556.90	546.90	45.30
HGWC-8 Area	***Temporary Sparge Wells***									
	AS-01	Flush Mount	5/7/2024	1549048.28	1942388.06	577.46	577.08	548.46	546.46	31.30
	AS-02	Flush Mount	5/6/2024	1549049.08	1942400.03	577.14	576.72	547.14	545.14	32.30
	Temporary Injection Well									
	INW-03	Flush Mount	5/6/2024	1549052.75	1942388.28	577.38	577.07	560.28	550.28	27.40
	Temporary Performance Monitoring Wells									
	PT-09[3]	Protective Riser	6/1/2023	1549049.74	1942393.11	577.33	580.35	560.18	550.18	27.45
	PT-10[3]	Protective Riser	6/1/2023	1549040.34	1942413.88	577.39	580.44	560.29	550.29	27.40
	PT-11	Flush Mount	5/7/2024	1549055.61	1942390.89	577.35	576.96	560.75	550.75	26.90
	PT-12	Flush Mount	5/7/2024	1549045.43	1942391.10	577.34	576.84	560.34	550.34	27.30

Notes:

ft = feet.

ft bgs = feet below ground surface.

(1) Coordinates in North American Datum (NAD) 1983, State Plane, Georgia-West, feet. Elevations referenced to the North American Vertical Datum of 1988 (NAVD88).
Survey data from wells installed in 2024 was certified by GEL Solutions (GEL) July 1, 2024. Survey data from wells installed in 2023 certified by GEL on July 17, 2023, and August 30, 2023.

(2) Total well depth accounts for 0.3 ft sump.

(3) Well was previously constructed in accordance with the HGWC-8 and HGWC-13 Pilot Study Workplans.

Table 2
Summary of Horizontal Hydraulic Conductivity Results
Plant Hammond AP-1, Floyd County, Georgia

Pilot Study Area	Well ID	Horizontal Hydraulic Conductivity[(1)] (ft/day)	Average Horizontal Hydraulic Conductivity (ft/day)	Horizontal Hydraulic Conductivity by Pilot Study Area (ft/day)		
				Max	Min	Geometric Mean
HGWC-13 Area	INW-04	2.31	2.54	10.80	1.89	3.65
		2.77				
	INW-05	1.95	1.89			
		1.84				
	PT-07	10.25	10.80			
		11.34				
	PT-08	3.58	3.42			
		3.26				
HGWC-8 Area	INW-03	10.11	12.78	12.78	1.67	5.49
		15.44				
	PT-09	7.62	7.76			
		7.91				
	PT-10	1.63	1.67			
		1.71				

Notes:
ft/day = foot per day
(1) Pneumatic slug tests were repeated twice and horizontal hydraulic conductivities were estimated from the Bouwer-Rice model.

Table 3
Summary of 2024 Baseline Groundwater Analytical Data
Plant Hammond AP-1, Floyd County, Georgia

		Pilot Study Area	HGWC-8 Area	
		Sample Location	PT-11	PT-12	PT-12
		Sample Date	05/29/2024	05/14/2024	05/29/2024
ANALYTE	UNITS				
APPENDIX III					
Boron	mg/L	1.4	1.6	1.5
Calcium	mg/L	95.7	99.7	91.0
Chloride	mg/L	39.4	50.3	48.0
Fluoride	mg/L	0.31	0.20	0.31
pH, Field	SU	7	6.58	6.82
Sulfate	mg/L	118	125	131
TDS	mg/L	474	523	488
APPENDIX IV					
Antimony	mg/L	< 0.00054	< 0.00054	< 0.00054
Arsenic	mg/L	0.0021 J	< 0.00084	0.0026 J
Barium	mg/L	0.072	0.069	0.069
Beryllium	mg/L	< 0.000094	< 0.000094	< 0.000094
Cadmium	mg/L	0.00013 J	0.00014 J	0.00011 J
Chromium	mg/L	< 0.0019	< 0.0019	< 0.0019
Cobalt	mg/L	0.0013 J	0.0044 J	0.0021 J
Lead	mg/L	< 0.00016	0.00017 J	< 0.00016
Lithium	mg/L	< 0.0016	< 0.0016	< 0.0016
Mercury	mg/L	< 0.00013	< 0.00013	< 0.00013
Molybdenum	mg/L	0.17	0.085	0.22
Selenium	mg/L	< 0.00096	< 0.00096	0.0015 J
Thallium	mg/L	< 0.00038	< 0.00038	< 0.00038
Fluoride	mg/L	0.31	0.20	0.31
Additional Parameters					
Bicarbonate Alkalinity as CaCO3	mg/L	143	129	136
Carbonate Alkalinity as CaCO3	mg/L	< 5.0	< 5.0	< 5.0
Total Alkalinity as CaCO3	mg/L	143	129	136
Iron	mg/L	0.10	0.33	0.032 J
Magnesium	mg/L	16.7	16.6	18.6
Manganese	mg/L	0.27	1.0	0.75
Potassium	mg/L	6.5	6.8	5.7
Sodium	mg/L	9.2	11.8	9.6
Sulfide	mg/L	< 0.022	< 0.022	< 0.022
Supplemental					
Oxidation Reduction Potential, Field	mV	161.94	58.81	81.45
pH, Field	SU	7	6.58	6.82
Disolved Oxygen, Field	mg/L	0.42	0.32	0.71
Specific Conductance, Field	uS/cm	708.73	685.68	678.21
Temperature, Field	deg C	19.15	18.81	19.36
Turbidity, Field	NTU	3.84	4.71	0.73

Table 3
Summary of 2024 Baseline Groundwater Analytical Data
Plant Hammond AP-1, Floyd County, Georgia

	Pilot Study Area	HGWC-13 Area									
	Sample Location	INW-04	INW-04	INW-05	INW-05	PT-07	PT-07	PT-08	PT-08	PT-13	PT-13
	Sample Date	05/02/2024	05/15/2024	05/02/2024	05/15/2024	05/09/2024	05/16/2024	05/02/2024	05/16/2024	05/09/2024	05/15/2024
ANALYTE	UNITS										
APPENDIX III											
Boron	mg/L	0.61	0.59	0.54	0.51	0.55	0.50	0.83	0.73	0.54	0.52
Calcium	mg/L	110	107	108	101	98.0	96.0	98.2	89.4	94.4	99.2
Chloride	mg/L	8.0	9.9	6.0	6.9	9.2	10	15.4	16.7	9.0	9.5
Fluoride	mg/L	0.47	0.28	0.59	0.37	0.33	0.31	0.36	0.19	0.35	0.34
pH, Field	SU	6.78	6.94	6.87	7.01	6.86	6.98	6.53	6.49	6.84	6.93
Sulfate	mg/L	180	187	206	181	177	171	176	159	195	190
TDS	mg/L	482	483	526	456	463	450	477	410	472	459
APPENDIX IV											
Antimony	mg/L	< 0.00054	< 0.00054	0.00098 J	< 0.00054	0.00059 J	< 0.00054	< 0.00054	< 0.00054	< 0.00054	< 0.00054
Arsenic	mg/L	0.21	0.19	0.24	0.23	0.30	0.27	0.26	0.23	0.30	0.29
Barium	mg/L	0.042	0.043	0.032	0.033	0.037	0.034	0.045	0.041	0.036	0.033
Beryllium	mg/L	< 0.000094	< 0.000094	0.000099 J	0.00012 J	0.00010 J	< 0.000094	< 0.000094	< 0.000094	< 0.000094	< 0.000094
Cadmium	mg/L	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010
Chromium	mg/L	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019
Cobalt	mg/L	0.029	0.031	0.028	0.026	0.041	0.052	0.054	0.046	0.026	0.024
Lead	mg/L	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016	0.0079	< 0.00016	< 0.00016
Lithium	mg/L	0.048	0.043	0.060	0.057	0.064	0.056	0.016 J	0.010 J	0.061	0.058
Mercury	mg/L	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013
Molybdenum	mg/L	0.016	0.015	0.0094 J	0.0096 J	0.010	0.0093 J	0.017	0.017	0.0095 J	0.0087 J
Selenium	mg/L	0.0016 J	< 0.00096	0.0015 J	< 0.00096	< 0.00096	< 0.00096	0.0012 J	< 0.00096	< 0.00096	< 0.00096
Thallium	mg/L	0.00048 J	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038
Fluoride	mg/L	0.47	0.28	0.59	0.37	0.33	0.31	0.36	0.19	0.35	0.34
Additional Parameters											
Bicarbonate Alkalinity as CaCO3	mg/L	128	133	109	123	117	116	108	104	106	111
Carbonate Alkalinity as CaCO3	mg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total Alkalinity as CaCO3	mg/L	128	133	109	123	117	116	108	104	106	111
Iron	mg/L	10.3	8.4	17.3	16.9	16.9	15.7	8.5	8.0	15.5	15.0
Magnesium	mg/L	13.5	13.1	12.6	11.8	12.5	12.1	12.0	11.5	11.4	12.0
Manganese	mg/L	4.2	4.4	3.6	3.3	3.2	3.4	3.9	3.3	3.5	3.6
Potassium	mg/L	5.4	4.8	5.2	4.7	5.6	4.9	5.3	4.8	5.0	5.0
Sodium	mg/L	6.9	7.0	6.5	6.7	6.8	7.0	7.2	7.2	6.9	7.8
Sulfide	mg/L	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022
Supplemental											
Oxidation Reduction Potential, Field	mV	-96.08	-97.42	-120.94	-124.26	-100.64	-91.91	154.38	-29.02	-103.97	-98.34
pH, Field	SU	6.78	6.94	6.87	7.01	6.86	6.98	6.53	6.49	6.84	6.93
Disolved Oxygen, Field	mg/L	0.72	0.48	0.06	0.36	0.37	2.33	1.01	0.51	0.16	1.1
Specific Conductance, Field	uS/cm	674.04	693.25	706.51	675.78	665.99	671.25	691.07	626.3	670.23	683.83
Temperature, Field	deg C	20.57	19.86	18.17	19.19	20.53	19.39	21.27	19.16	20.75	18.64
Turbidity, Field	NTU	4.11	4.92	4.15	4.97	1.06	13.8	8.6	4.1	2.27	4.82

Notes:
< = Indicates the parameter was not detected above the analytical method detection limit (MDL).
deg C = degrees Celsius
J = Indicates the parameter was estimated and detected between the MDL and the reporting limit (RL).
µS/cm = microsiemens per centimeter
mg/L = milgrams per liter
mV = millivolts
NTU = nephelometric turbidity units
SU = standard units
TDS = Total dissolved solids
(1) Appendix III/IV parameter per 40 CFR 257 Subpart D. Analysis of combined radium omitted from the pilot study monitoring program. Unless otherwise indicated, parameters are reported in units of milligrams per liter (mg/L).
(2) Metals were analyzed by EPA Method 6010D, 6020B, and 7470A, anions were analyzed by EPA Method 300.0, TDS was analyzed by SM2540C-2015.
(3) The pH value presented was recorded at the time of sample collection in the field.

Table 3
Summary of 2024 Baseline Groundwater Analytical Data
Plant Hammond AP-1, Floyd County, Georgia

	Pilot Study Area	HGWC-13 Area				HGWC-8 Area					
	Sample Location	PT-14	PT-14	PT-15	PT-15	INW-03	INW-03	PT-09	PT-09	PT-10	PT-10
	Sample Date	05/02/2024	05/15/2024	05/02/2024	05/15/2024	5/14/2024	5/29/2024	05/14/2024	05/30/2024	05/15/2024	05/30/2024
ANALYTE	UNITS										
APPENDIX III											
Boron	mg/L	0.51	0.51	0.75	0.76	1.5	1.5	1.4	1.5	1.5	1.4
Calcium	mg/L	101	97.4	141	141	127	144	82.8	94.9	108	95.9
Chloride	mg/L	7.9	10.5	11.8	12.6	56.9	61.6	44.4	52.4	50.1	53.0
Fluoride	mg/L	0.43	0.26	0.55	0.35	0.20	0.13	0.37	0.33	0.22	0.17
pH, Field	SU	6.83	6.78	6.95	7.01	7.68	7.36	7.16	7.06	6.92	6.81
Sulfate	mg/L	169	175	278	271	178	187	130	133	146	124
TDS	mg/L	462	461	638	639	564	610	436	532	503	495
APPENDIX IV											
Antimony	mg/L	< 0.00054	< 0.00054	< 0.00054	< 0.00054	< 0.00054	<0.00054	< 0.00054	< 0.00054	< 0.00054	< 0.00054
Arsenic	mg/L	0.22	0.21	0.41	0.39	< 0.00084	< 0.0022 J	< 0.00084	0.0022 J	< 0.00084	0.0018 J
Barium	mg/L	0.037	0.038	0.044	0.043	0.075	0.12	0.058	0.062	0.054	0.052
Beryllium	mg/L	< 0.000094	0.00016 J	< 0.000094	< 0.000094	< 0.000094	< 0.000094	< 0.000094	< 0.000094	< 0.000094	< 0.000094
Cadmium	mg/L	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.0010	< 0.00010	0.00015 J	0.00010 J	< 0.00010	< 0.00010
Chromium	mg/L	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019
Cobalt	mg/L	0.021	0.020	0.052	0.059	0.00070 J	0.00087 J	0.0012 J	0.0010 J	0.0016 J	0.0014 J
Lead	mg/L	< 0.00016	0.00046 J	< 0.00016	< 0.00016	< 0.00016	< 0.00016	0.00017 J	< 0.00016	< 0.00016	< 0.00016
Lithium	mg/L	0.055	0.051	0.051	0.047	0.0050 J	0.0048 J	< 0.0016	< 0.0016	< 0.0016	< 0.0016
Mercury	mg/L	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013
Molybdenum	mg/L	0.011	0.011	0.017	0.021	0.082	0.060	0.27	0.24	0.092	0.053
Selenium	mg/L	0.0014 J	< 0.00096	< 0.00096	< 0.00096	< 0.00096	0.0016 J	< 0.00096	< 0.00096	< 0.00096	< 0.00096
Thallium	mg/L	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	<0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038
Fluoride	mg/L	0.43	0.26	0.55	0.35	0.20	0.13	0.37	0.33	0.22	0.17
Additional Parameters											
Bicarbonate Alkalinity as CaCO3	mg/L	121	121	124	134	175	176	139	138	132	116
Carbonate Alkalinity as CaCO3	mg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total Alkalinity as CaCO3	mg/L	121	121	124	134	175	176	139	138	132	116
Iron	mg/L	13.7	14.9	9.7	9.2	0.11	0.14	0.42	0.24	0.24	0.21
Magnesium	mg/L	12.7	12.7	15.6	16.1	17.1	16.5	23.7	19.9	14.3	13.1
Manganese	mg/L	3.1	3.1	5.6	5.7	0.45	1.2	0.19	0.28	0.74	0.52
Potassium	mg/L	5.4	5.0	5.2	5.3	13.8	6.1	6.1	6.2	6.7	6.6
Sodium	mg/L	6.7	6.7	6.8	8.1	12.4	11.1	9.3	11.5	9.2	9.5
Sulfide	mg/L	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022
Supplemental											
Oxidation Reduction Potential, Field	mV	-116.47	-109.98	93.76	-118.35	43.0	-26.7	49.89	83.36	20.06	52.5
pH, Field	SU	6.83	6.78	6.95	7.01	7.68	7.36	7.16	7.06	6.92	6.81
Disolved Oxygen, Field	mg/L	0.05	0.05	-0.03	0.1	0.25	0.61	0.04	0.05	0.25	0.43
Specific Conductance, Field	uS/cm	636.04	671.71	868.6	863.09	835.04	864.90	681.69	703.83	707.36	664.75
Temperature, Field	deg C	19.09	18.75	21.71	20.45	18.77	20.17	17.76	19.69	20	20.16
Turbidity, Field	NTU	4.27	4.99	2.99	0.77	4.98	0.56	4.98	4.71	4.92	3.01

Table 3
Summary of 2024 Baseline Groundwater Analytical Data
Plant Hammond AP-1, Floyd County, Georgia

		Pilot Study Area	HGWC-8 Area		
		Sample Location	PT-11	PT-11	PT-12	PT-12
		Sample Date	05/14/2024	05/29/2024	05/14/2024	05/29/2024
ANALYTE	UNITS					
APPENDIX III						
Boron	mg/L	1.6	1.4	1.6	1.5
Calcium	mg/L	90.9	95.7	99.7	91.0
Chloride	mg/L	41.4	39.4	50.3	48.0
Fluoride	mg/L	0.34	0.31	0.20	0.31
pH, Field	SU	6.98	7	6.58	6.82
Sulfate	mg/L	122	118	125	131
TDS	mg/L	441	474	523	488
APPENDIX IV					
Antimony	mg/L	< 0.00054	< 0.00054	< 0.00054	< 0.00054
Arsenic	mg/L	< 0.00084	0.0021 J	< 0.00084	0.0026 J
Barium	mg/L	0.057	0.072	0.069	0.069
Beryllium	mg/L	< 0.000094	< 0.000094	< 0.000094	< 0.000094
Cadmium	mg/L	0.00013 J	0.00013 J	0.00014 J	0.00011 J
Chromium	mg/L	< 0.0019	< 0.0019	< 0.0019	< 0.0019
Cobalt	mg/L	0.0016 J	0.0013 J	0.0044 J	0.0021 J
Lead	mg/L	< 0.00016	< 0.00016	0.00017 J	< 0.00016
Lithium	mg/L	< 0.0016	< 0.0016	< 0.0016	< 0.0016
Mercury	mg/L	< 0.00013	< 0.00013	< 0.00013	< 0.00013
Molybdenum	mg/L	0.24	0.17	0.085	0.22
Selenium	mg/L	< 0.00096	< 0.00096	< 0.00096	0.0015 J
Thallium	mg/L	< 0.00038	< 0.00038	< 0.00038	< 0.00038
Fluoride	mg/L	0.34	0.31	0.20	0.31
Additional Parameters					
Bicarbonate Alkalinity as CaCO3	mg/L	125	143	129	136
Carbonate Alkalinity as CaCO3	mg/L	< 5.0	< 5.0	< 5.0	< 5.0
Total Alkalinity as CaCO3	mg/L	125	143	129	136
Iron	mg/L	< 0.025	0.10	0.33	0.032 J
Magnesium	mg/L	16.2	16.7	16.6	18.6
Manganese	mg/L	0.28	0.27	1.0	0.75
Potassium	mg/L	6.0	6.5	6.8	5.7
Sodium	mg/L	8.8	9.2	11.8	9.6
Sulfide	mg/L	< 0.022	< 0.022	< 0.022	< 0.022
Supplemental					
Oxidation Reduction Potential, Field	mV	28.65	161.94	58.81	81.45
pH, Field	SU	6.98	7	6.58	6.82
Disolved Oxygen, Field	mg/L	0.07	0.42	0.32	0.71
Specific Conductance, Field	uS/cm	676.01	708.73	685.68	678.21
Temperature, Field	deg C	18.11	19.15	18.81	19.36
Turbidity, Field	NTU	1.43	3.84	4.71	0.73

Table 4
Summary of Daily Injection Volumes
Plant Hammond AP-1, Floyd County, Georgia

HGWC-13 Area		HGWC-8 Area	
Date	**Daily Injection Volume (gal)**	**Date**	**Daily Injection Volume (gal)**
10/4/2023	238	9/25/2023	492
10/9/2023	580	9/26/2023	1500
10/10/2023	1050	9/27/2023	2200
10/11/2023	1575	9/28/2023	2250
10/12/2023	1975	9/29/2023	2350
10/13/2023	1575	9/30/2023	2000
10/14/2023	1625	10/1/2023	2250
12/4/2023	16	10/2/2023	2300
12/4/2023	1630	10/3/2023	250
12/6/2023	25	10/15/2023	735
12/6/2023	350	10/16/2023	1540
12/7/2023	700	10/16/2023	540
12/8/2023	350	10/17/2023	585
12/8/2023	70	12/9/2023	200
7/9/2024	480*	12/10/2023	1150
7/10/2024	950	12/11/2023	760
7/12/2024	950	12/12/2023	640
7/14/2024	1800*	12/12/2023	185
7/16/2024	1800*	12/13/2023	2565
7/23/2024	1500*	7/11/2024	975
7/24/2024	1800*	7/13/2024	1200
7/29/2024	900*	7/15/2024	1200
7/31/2024	300	9/17/2024	1800
9/18/2024	700*	--	--
9/19/2024	1200*	--	--
9/20/2024	800*	--	--
TOTAL:	**24,939**	**TOTAL:**	**29,667**

Notes:
gal = gallons
* Injection volumes represent total volume injected simultaneously between two injection wells, INW-04 and INW-

Table 5
Summary of Daily Air Sparging Activities
Plant Hammond AP-1, Floyd County, Georgia

Well-ID	Date	Flow Rate (SCFM)	Duration (hours)
AS-03	7/26/2024	<1.0	2.5
AS-03	7/27/2024	<1.0	3
AS-04	7/27/2024	1.2	1
AS-03	7/28/2024	1.7	3
AS-03	7/30/2024	1.8	3
AS-03	9/9/2024	1-8	11.25
AS-04	9/9/2024	2-4	8
AS-03	9/10/2024	10	19
AS-04	9/10/2024	4	19
AS-03	9/11/2024	10	19
AS-04	9/11/2024	4	19
AS-03	9/12/2024	10	12
AS-04	9/12/2024	4	12
AS-03	9/16/2024	6	12
AS-04	9/16/2024	3	12
AS-03	9/17/2024	6	20
AS-04	9/17/2024	3	20
AS-03	9/18/2024	6-10	8
AS-04	9/18/2024	3-4	8
AS-03	9/19/2024	6-10	15
AS-04	9/19/2024	3-4	15
AS-03	9/20/2024	10	9
AS-04	9/20/2024	10	9
		TOTAL:	**260**

Notes:
SCFM = standard cubic feet per minute.

Table 6
Summary of Screening-Level Groundwater Analytical Data
Plant Hammond AP-1, Floyd County, Georgia

			Parameter [1,2]:	Total Iron	Dissolved Iron	Total Boron	Dissolved Boron	Total Molybdenum	Dissolved Molybdenum	Total Arsenic	Dissolved Arsenic
Area	**Well ID**	**Sample Date**	**Sample Time**								
HGWC-8	**PT-09**	5/31/2024[3]	11:52 AM	0.24	--	1.5	--	0.24	--	0.0022 J	--
		7/11/2024	6:00 PM	0.56	0.02	1.5	1.4	0.43	0.42	--	--
		7/13/2024	8:45 AM	0.36	< 0.018	1.4	1.5	0.34	0.33	--	--
		7/13/2024	4:38 PM	0.66	0.3	1.1	1.2	0.29	0.29	--	--
		7/15/2024	8:22 AM	0.38	0.031	1.2	1.3	0.3	0.27	--	--
		7/15/2024	4:02 PM	6.3	3.8	1.0	1.0	0.13	0.12	--	--
		7/17/2024	1:42 PM	0.78	0.46	1.0	1.0	0.25	0.24	--	--
	PT-10	5/30/2024[3]	2:40 PM	0.21	--	1.4	--	0.053	--	0.0018 J	
		7/11/2024	6:00 PM	0.37	< 0.018	1.6	1.7	0.16	0.15	--	--
		7/13/2024	8:50 AM	0.19	< 0.018	1.6	1.7	0.16	0.17	--	--
		7/13/2024	4:40 PM	0.12	< 0.018	1.6	1.7	0.18	0.16	--	--
		7/15/2024	5:19 PM	0.14	--	1.7	--	0.16	--	--	--
		7/17/2024	1:44 PM	0.10	--	1.7	--	0.17	--	--	--
	PT-11	5/29/2024[3]	4:43 PM	0.10	--	1.4	--	0.17	--	0.0021 J	--
		7/11/2024	8:00 PM	3.2	2.4	0.69	0.72	0.046	0.047	--	--
		7/13/2024	5:56 PM	11	9	0.57	0.6	0.024	0.022	--	--
		7/15/2024	8:46 AM	2.4	1.6	0.85	0.87	0.043	0.04	--	--
		7/15/2024	4:15 PM	44	37	0.49	0.51	0.0086	0.0069	--	--
		7/17/2024	9:22 AM	13	12	0.8	0.82	0.0087	0.0081	--	--
		7/24/2024	10:05 AM	4.9	3.6	1.2	1.2	0.045	0.037	--	--
	PT-12	5/29/2024[3]	12:08 PM	0.032 J	--	1.5	--	0.22	--	0.0026 J	--
		7/11/2024	8:15 PM	0.1	< 0.018	1.5	1.6	0.31	0.3	--	--
		7/13/2024	5:54 PM	0.22	0.024	1.2	1.3	0.23	0.23	--	--
		7/15/2024	5:20 PM	0.49	--	1.2	--	0.14	--	--	--
		7/17/2024	12:04 PM	0.6	< 0.018	1.2	1.3	0.23	0.23	--	--
HGWC-13 Area	**PT-07**	5/16/2024[3]	12:16 PM	15.7	--	0.50	--	0.0093 J	--	0.27	--
		7/10/2024	7:40 PM	41	14	0.54	0.49	--	--	0.32	0.23
		7/12/2024	6:12 PM	17	12	0.52	0.52	--	--	0.24	0.16
		7/18/2024	2:00 PM	21	16	0.58	0.59	--	--	0.28	0.26
		7/26/2024	8:10 PM	140	0.19	0.7	0.58	--	--	0.64	0.052
		7/27/2024	5:00 PM	190	0.6	0.71	0.56	--	--	0.29	0.025
		7/28/2024	5:00 PM	31	0.46	0.63	0.56	--	--	0.097	0.026
		7/29/2024	9:05 AM	26	6.4	0.6	0.54	--	--	0.13	0.055
		7/29/2024	6:43 PM	23	12	0.56	0.54	--	--	0.13	0.088
		7/30/2024	8:55 AM	31	12	0.62	0.57	--	--	0.18	0.091
		7/30/2024	6:00 PM	160	1.4	0.76	0.59	--	--	0.39	0.045
		7/31/2024	9:40 AM	110	2.8	0.61	0.51	--	--	0.44	0.03
		9/10/2024	10:45 AM	6.9	< 0.018	0.6	--	--	--	0.16	0.016
		9/10/2024	12:35 PM	1	< 0.018	0.6	--	--	--	0.055	0.032
		9/11/2024	9:50 AM	1.9	< 0.018	0.63	--	--	--	0.071	0.0065
		9/11/2024	10:45 AM	6.6	< 0.018	0.65	--	--	--	0.035	0.019
		9/12/2024	10:50 AM	1.8	< 0.018	0.61	--	--	--	0.022	0.01
		9/13/2024	8:45 AM	0.46	< 0.018	0.68	--	--	--	0.017	0.13
		9/13/2024	8:45 AM	0.04	0.46		--	--	--	0.017	0.013
		9/21/2024	11:45 AM	0.13	< 0.018	0.46	--	--	--	0.0092	0.0073
	PT-08	5/16/2024[3]	10:37 AM	8.0	--	0.73	--	0.017	--	0.23	--
		7/10/2024	9:00 PM	22	9.1	0.74	0.69	--	--	0.33	0.26
		7/16/2024	7:55 AM	7.3	7.4	0.8	0.76	--	--	0.25	0.28
		7/16/2024	6:45 PM	22	9.9	0.76	0.65	--	--	0.34	0.30
		7/18/2024	8:47 PM	8.8	7.5	0.72	0.75	--	--	0.29	0.26
		7/24/2024	9:00 AM	21	11	0.7	0.71	--	--	0.3	0.26

Table 6
Summary of Screening-Level Groundwater Analytical Data
Plant Hammond AP-1, Floyd County, Georgia

			Parameter [1,2]:	Total Iron	Dissolved Iron	Total Boron	Dissolved Boron	Total Molybdenum	Dissolved Molybdenum	Total Arsenic	Dissolved Arsenic
Area	**Well ID**	**Sample Date**	**Sample Time**								
HGWC-13 Area	**PT-08**	7/24/2024	8:00 PM	23	9.3	0.63	0.63	--	--	0.31	0.25
		7/25/2024	4:50 PM	17	--	0.67	--	--	--	0.35	--
		7/28/2024	4:30 PM	26	7.7	0.75	0.66	--	--	0.42	0.17
		7/30/2024	5:50 PM	25	7.7	0.78	0.7	--	--	0.34	0.12
		7/31/2024	10:00 AM	34	13	0.65	0.61	--	--	0.43	0.16
		9/13/2024	10:50 AM	1.1	0.21	0.72	--	--	--	0.066	0.022
		9/21/2024	11:45 AM	0.46	0.056	0.64	--	--	--	0.02	0.0055
	PT-13	5/15/2024[3]	6:45 PM	15	--	0.52	--	0.0087 J	--	0.29	--
		7/10/2024	8:12 PM	80	11	0.56	0.56	--	--	0.29	0.23
		7/12/2024	7:14 PM	24	13	0.58	0.59	--	--	0.3	0.23
		7/14/2024	8:30 AM	27	15	0.61	0.57	--	--	0.3	0.29
		7/14/2024	5:00 PM	28	20	0.45	0.43	--	--	0.27	0.23
		7/18/2024	11:47 AM	18	15	0.53	0.56	--	--	0.29	0.27
		7/24/2024	8:00 PM	66	51	0.39	0.39	--	--	0.2	0.15
		7/25/2024	3:20 PM	38	--	0.55	--	--	--	0.3	--
		7/26/2024	8:20 PM	42	16	0.54	0.5	--	--	0.26	0.18
		7/27/2024	5:00 PM	30	12	0.6	0.5	--	--	0.26	0.083
		7/28/2024	4:20 PM	23	13	0.59	0.51	--	--	0.19	0.11
		7/30/2024	6:10 PM	24	13	0.57	0.56	--	--	0.17	0.076
		7/31/2024	9:50 AM	36	23	0.56	0.54	--	--	0.22	0.13
		9/10/2024	12:45 PM	15	1.2	0.72	--	--	--	0.059	0.038
		9/13/2024	4:15 PM	2.6	1.6	0.65	--	--	--	0.012	0.0071
		9/21/2024	4:00 PM	1.7	0.74	0.5	0.54	--	--	0.0078	0.0028 J
	PT-14	5/15/2024[3]	6:27 PM	15	--	0.51	--	0.011	--	0.21	--
		7/12/2024	6:47 PM	53	10	0.46	0.44	--	--	0.17	0.079
		7/14/2024	8:30 AM	48	14	0.68	0.66	--	--	0.20	0.18
		7/14/2024	5:15 PM	73	19	0.32	0.28	--	--	0.14	0.035
		7/16/2024	7:45 AM	63	13	0.62	0.64	--	--	0.24	0.15
		7/16/2024	6:00 PM	34	20	0.62	0.40	--	--	0.08	0.024
		7/18/2024	4:32 PM	18	14	0.64	0.66	--	--	0.21	0.2
		7/24/2024	9:00 AM	87	24	0.68	0.61	--	--	0.21	0.051
		7/24/2024	8:00 PM	250	71	0.53	0.37	--	--	0.21	0.0043
		7/25/2024	2:40 PM	130	28	0.60	0.58	--	--	0.20	0.056
		7/26/2024	10:10 AM	40	18	0.63	0.57	--	--	0.16	0.14
		7/26/2024	8:00 PM	38	18	0.62	0.57	--	--	0.16	0.15
		7/27/2024	5:00 PM	62	2.3	0.67	0.57	--	--	0.26	0.019
		7/28/2024	3:30 PM	22	15	0.65	0.59	--	--	0.13	0.12
		7/29/2024	9:05 AM	52	16	0.62	0.57	--	--	0.20	0.13
		7/29/2024	12:00 PM	64	22	0.46	0.5	--	--	0.04	0.019
		7/29/2024	1:00 PM	120	53	0.46	0.36	--	--	0.093	0.022
		7/29/2024	3:00 PM	160	75	0.36	0.31	--	--	0.098	0.02
		7/29/2024	6:33 PM	110	70	0.43	0.38	--	--	0.095	0.012
		7/30/2024	9:05 AM	25	19	0.63	0.58	--	--	0.053	0.034
		7/30/2024	5:40 PM	32	17	0.63	0.59	--	--	0.11	0.054
		7/31/2024	9:10 AM	34	18	0.61	0.56	--	--	0.18	0.11
		7/31/2024	3:40 PM	17	4.3	0.31	0.32	--	--	0.051	0.014
		9/12/2024	11:45 AM	6.5	4.4	0.74	--	--	--	0.043	0.037
		9/13/2024	9:30 AM	11	7.6	0.71	--	--	--	0.084	0.067
		9/20/2024	10:05 AM	1.8	1.5	0.58	--	--	--	0.0078	0.0067
		9/21/2024	3:45 AM	3.3	2.8	0.58	--	--	--	0.0087	0.0078

Table 6
Summary of Screening-Level Groundwater Analytical Data
Plant Hammond AP-1, Floyd County, Georgia

			Parameter [1,2]:	Total Iron	Dissolved Iron	Total Boron	Dissolved Boron	Total Molybdenum	Dissolved Molybdenum	Total Arsenic	Dissolved Arsenic
Area	**Well ID**	**Sample Date**	**Sample Time**								
HGWC-13 Area	**PT-15**	5/15/2024[3]	4:10 PM	9.2	--	0.76	--	0.021	--	0.39	--
		7/14/2024	5:30 PM	14	8.2	0.69	0.69	--	--	0.42	0.38
		7/18/2024	6:13 PM	9.4	7.7	0.7	0.72	--	--	0.42	0.41
		7/24/2024	8:00 PM	13	12	0.65	0.64	--	--	0.33	0.36
		7/25/2024	4:40 PM	18	--	0.69	--	--	--	0.48	--
		9/13/2024	11:30 AM	0.29	0.16	0.73	--	--	--	0.014	0.013
		9/13/2024	11:30 AM	0.29	0.16	0.73	--	--	--	0.014	0.013
		9/18/2024	9:55 AM	0.35	0.021	0.68	--	--	--	0.0079	0.0056
		9/21/2024	10:15 AM	0.031 J	0.09 J	0.63	--	--	--	0.0062	0.0052

Notes:
< = Indicates the parameter was not detected above the analytical method detection limit (MDL).
-- = indicates sample was not collected on this date or sample was not analyzed for that parameter.
J = Indicates the parameter was estimated and detected between the MDL and the reporting limit (RL).
(1) Parameters are reported in units of milligrams per liter (mg/L).
(2) Metals were analyzed by EPA Method 6010D, 6020B.
(3) Data was collected from a baseline sampling event that occurred pre-injection activities.
(4) Screening-Level refers to data collected during injection and air sparging activities.

Table 7A

Summary of 2023 Post-injection Performance Monitoring Analytical Data

Plant Hammond AP-1, Floyd County, Georgia

		Pilot Study Area	HGWC-13 Area						
		Sample Location	PT-07	PT-07	PT-07	PT-07	PT-07	PT-07	PT-07	PT-07
		Sample Date	10/17/2023	10/24/2023	10/31/2023	11/07/2023	11/21/2023	12/08/2023	12/14/2023	12/20/2023
ANALYTE[1, 2, 3]	UNITS									
APPENDIX III										
Boron	mg/L	1.1	1.1	1.1	1.1	1.0	NA	1.0	1.0
Calcium	mg/L	151	NA	144	NA	121	NA	116	NA
Chloride	mg/L	15.3	15.7	16.5	NA	17.6	NA	19.4	NA
Fluoride	mg/L	0.35	0.38	0.36	NA	0.36	NA	0.38	NA
pH, Field	SU	6.89	6.83	6.75	6.89	6.89	7.2	7.17	7.13
Sulfate	mg/L	306	299	291	287	248	179	279	280
TDS	mg/L	677	NA	630	NA	566	NA	596	NA
APPENDIX IV									
Antimony	mg/L	< 0.0012	NA	< 0.00054	NA	< 0.00054	NA	< 0.00054	NA
Arsenic	mg/L	0.23	0.31	0.34	0.33	0.34	0.18	0.19	0.24
Barium	mg/L	0.092	NA	0.073	NA	0.058	NA	0.065	NA
Beryllium	mg/L	0.00014 J	NA	0.00023 J	NA	0.00014 J	NA	0.000097 J	NA
Cadmium	mg/L	< 0.00011	NA	< 0.00010	NA	< 0.00010	NA	< 0.00010	NA
Chromium	mg/L	< 0.0011	NA	< 0.0019	NA	< 0.0019	NA	< 0.0019	NA
Cobalt	mg/L	0.068	NA	0.081	NA	0.085	NA	0.025	NA
Lead	mg/L	0.00029 J	NA	< 0.00016	NA	< 0.00016	NA	< 0.00016	NA
Lithium	mg/L	0.062	NA	0.065	NA	0.060	NA	0.061	NA
Mercury	mg/L	< 0.00013	NA	< 0.00013	NA	< 0.00013	NA	< 0.00013	NA
Molybdenum	mg/L	0.011	NA	0.014	NA	0.015	NA	0.012	NA
Selenium	mg/L	< 0.0014	NA	< 0.00096	NA	< 0.00096	NA	< 0.00096	NA
Thallium	mg/L	0.00026 J	NA	< 0.00038	NA	< 0.00038	NA	< 0.00038	NA
Fluoride	mg/L	0.35	0.38	0.36	NA	0.36	NA	0.38	NA
Additional Parameters									
Bicarbonate Alkalinity as CaCO3	mg/L	120	NA	138	NA	138	NA	132	NA
Carbonate Alkalinity as CaCO3	mg/L	< 5.0	NA	< 5.0	NA	< 5.0	NA	< 5.0	NA
Total Alkalinity as CaCO3	mg/L	120	NA	138	NA	138	NA	132	NA
Iron	mg/L	18.1	18.5	20.0	4.0	17.7	28.4	10.5	13.4
Magnesium	mg/L	17.9	NA	17.9	NA	15.1	NA	35.6	NA
Manganese	mg/L	5.9	NA	5.1	NA	4.5	NA	3.3	NA
Potassium	mg/L	5.5	NA	6.9	NA	6.4	NA	6.2	NA
Sodium	mg/L	6.8	NA	7.6	NA	7.0	NA	7.4	NA
Sulfide	mg/L	< 0.022	NA	< 0.022	NA	< 0.022	NA	< 0.022	NA
Supplemental									
Oxidation Reduction Potential, Field	mV	-104.41	-103.83	-84.01	-111.48	-78.21	-126.5	34.42	-120.45
pH, Field	SU	6.89	6.83	6.75	6.89	6.89	7.2	7.17	7.13
Dissolved Oxygen, Field	mg/L	0.27	0.27	0.7	0.3	2.36	2.34	0.2	0.43
Specific Conductance, Field	uS/cm	835.69	857.51	793.71	974.44	745.93	621.06	854.78	817.25
Temperature, Field	deg C	20.71	19.83	19.32	20.67	19.18	19.41	18.33	18.29
Turbidity, Field	NTU	3.22	2.78	4.39	4.27	4.17	634	4.63	2.51
Total Iron (Field)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Ferrous Iron (Field)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

< = Indicates the parameter was not detected above the analytical method detection limit (MDL).

deg C = degrees Celsius

J = Indicates the parameter was estimated and detected between the MDL and the reporting limit (RL).

µS/cm = microsiemens per centimeter

mg/L = miligrams per liter.

mV = millivolts

NA = not applicable.

NTU = nephelometric turbidity units

SU = standard units

TDS = Total dissolved solids

(1) Appendix III/IV parameter per 40 CFR 257 Subpart D. Analysis of combined radium omitted from the pilot study monitoring program. Unless otherwise indicated, parameters are reported in units of milligrams per liter (mg/L).

(2) Metals were analyzed by EPA Method 6010D, 6020B, and 7470A, anions were analyzed by EPA Method 300.0, TDS was analyzed by SM2540C-2015.

(3) The pH value presented was recorded at the time of sample collection in the field.

Table 7A

Summary of 2023 Post-injection Performance Monitoring Analytical Data

Plant Hammond AP-1, Floyd County, Georgia

	Pilot Study Area	**HGWC-13 Area**							
	Sample Location	**PT-07**	**PT-07**	**PT-07**	**PT-07**	**PT-07**	**PT-08**	**PT-08**	**PT-08**
	Sample Date	**12/27/2023**	**01/03/2024**	**01/16/2024**	**02/15/2024**	**03/13/2024**	**10/17/2023**	**10/24/2023**	**10/31/2023**
ANALYTE[1, 2, 3]	**UNITS**								
APPENDIX III									
Boron	mg/L	1.2	1.2	1.1	0.86	0.79	0.51	1.1	1.1
Calcium	mg/L	138	NA	162	190	203	88.0	NA	115
Chloride	mg/L	17.7	NA	23.6	15.4	13.6	10.8	17.6	21.3
Fluoride	mg/L	0.34	NA	0.39	0.29	0.35	0.30	0.30	0.24
pH, Field	SU	7.21	7.02	6.91	6.84	6.82	6.79	6.75	6.54
Sulfate	mg/L	276	302	374	452	488	146	238	210
TDS	mg/L	661	NA	743	876	932	378	NA	484
APPENDIX IV									
Antimony	mg/L	< 0.00054	NA	< 0.00054	0.00069 J	0.00078 J	0.00062 J	NA	0.00079 J
Arsenic	mg/L	0.28	0.31	0.31	0.30	0.36	0.19	0.28	0.17
Barium	mg/L	0.074	NA	0.080	0.064	0.068	0.039	NA	0.051
Beryllium	mg/L	0.00011 J	NA	0.00011 J	< 0.000094	0.00011 J	< 0.000094	NA	0.00017 J
Cadmium	mg/L	< 0.00010	NA	< 0.00010	< 0.00010	< 0.00010	< 0.00010	NA	< 0.00010
Chromium	mg/L	< 0.0019	NA	< 0.0019	< 0.0019	< 0.0019	< 0.0019	NA	< 0.0019
Cobalt	mg/L	0.052	NA	0.072	0.084	0.12	0.018	NA	0.026
Lead	mg/L	< 0.00016	NA	< 0.00016	< 0.00016	< 0.00016	< 0.00016	NA	0.00019 J
Lithium	mg/L	0.079	NA	0.080	0.069	0.071	0.022 J	NA	0.013 J
Mercury	mg/L	< 0.00013	NA	< 0.00013	< 0.00013	< 0.00013	< 0.00013	NA	< 0.00013
Molybdenum	mg/L	0.011	NA	0.010	0.011	0.013	0.020	NA	0.024
Selenium	mg/L	< 0.00096	NA	< 0.00096	< 0.00096	< 0.00096	< 0.00096	NA	< 0.00096
Thallium	mg/L	< 0.00038	NA	< 0.00038	< 0.00038	< 0.00038	< 0.00038	NA	< 0.00038
Fluoride	mg/L	0.34	NA	0.39	0.29	0.35	0.30	0.30	0.24
Additional Parameters									
Bicarbonate Alkalinity as CaCO3	mg/L	137	NA	131	89.6	98.7	106	NA	126
Carbonate Alkalinity as CaCO3	mg/L	< 5.0	NA	< 5.0	< 5.0	< 5.0	< 5.0	NA	< 5.0
Total Alkalinity as CaCO3	mg/L	137	NA	131	89.6	98.7	106	NA	126
Iron	mg/L	15.8	20.9	22.8	24.5	25.3	6.5	8.0	5.8
Magnesium	mg/L	24.4	NA	23.7	26.4	24.9	10.6	NA	14.7
Manganese	mg/L	4.3	NA	5.0	5.8	5.7	2.9	NA	2.4
Potassium	mg/L	6.8	NA	7.1	7.1	6.3	4.6	NA	6.0
Sodium	mg/L	7.8	NA	7.4	7.5	6.9	4.8	NA	8.5
Sulfide	mg/L	< 0.022	NA	< 0.022	< 0.022	< 0.022	< 0.022	NA	< 0.022
Supplemental									
Oxidation Reduction Potential, Field	mV	52.94	-119.69	-124.45	-105.61	-97.33	-62.49	-75.66	-46.3
pH, Field	SU	7.21	7.02	6.91	6.84	6.82	6.79	6.75	6.54
Dissolved Oxygen, Field	mg/L	0.25	0.1	0.35	1.38	1.12	0.17	0.23	1.31
Specific Conductance, Field	uS/cm	804.84	839.53	952.88	1151.58	1182.15	504.85	736.95	747.41
Temperature, Field	deg C	17.01	17.83	17.31	19.11	18.39	19.28	20.57	19.22
Turbidity, Field	NTU	1.82	4.73	1.36	2.97	0	4.97	4.87	4.57
Total Iron (Field)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Ferrous Iron (Field)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA

Table 7A

Summary of 2023 Post-injection Performance Monitoring Analytical Data

Plant Hammond AP-1, Floyd County, Georgia

		Pilot Study Area	HGWC-13 Area						
		Sample Location	PT-08	PT-08	PT-08	PT-08	PT-08	PT-08	PT-08	PT-08
		Sample Date	11/07/2023	11/21/2023	12/08/2023	12/14/2023	12/20/2023	12/27/2023	01/03/2024	01/16/2024
ANALYTE[1, 2, 3]	UNITS									
APPENDIX III										
Boron	mg/L	1.0	1.1	NA	1.0	0.90	1.1	1.2	0.95
Calcium	mg/L	NA	125	NA	108	NA	105	NA	100
Chloride	mg/L	NA	18.9	NA	18.0	NA	18.9	NA	18.9
Fluoride	mg/L	NA	0.32	NA	0.28	NA	0.24	NA	0.27
pH, Field	SU	6.73	6.83	7.41	6.78	6.84	6.87	6.76	6.63
Sulfate	mg/L	273	247	217	193	191	180	205	196
TDS	mg/L	NA	545	NA	471	NA	469	NA	494
APPENDIX IV									
Antimony	mg/L	NA	< 0.00054	NA	< 0.00054	NA	< 0.00054	NA	0.00061 J
Arsenic	mg/L	0.24	0.28	0.39	0.22	0.22	0.19	0.28	0.21
Barium	mg/L	NA	0.051	NA	0.040	NA	0.047	NA	0.048
Beryllium	mg/L	NA	< 0.000094	NA	< 0.000094	NA	< 0.000094	NA	0.00010 J
Cadmium	mg/L	NA	< 0.00010	NA	< 0.00010	NA	< 0.00010	NA	< 0.00010
Chromium	mg/L	NA	< 0.0019	NA	< 0.0019	NA	< 0.0019	NA	< 0.0019
Cobalt	mg/L	NA	0.028	NA	0.026	NA	0.031	NA	0.035
Lead	mg/L	NA	< 0.00016	NA	< 0.00016	NA	< 0.00016	NA	< 0.00016
Lithium	mg/L	NA	0.026 J	NA	0.017 J	NA	0.015 J	NA	0.018 J
Mercury	mg/L	NA	< 0.00013	NA	< 0.00013	NA	< 0.00013	NA	< 0.00013
Molybdenum	mg/L	NA	0.032	NA	0.031	NA	0.035	NA	0.028
Selenium	mg/L	NA	< 0.00096	NA	< 0.00096	NA	< 0.00096	NA	< 0.00096
Thallium	mg/L	NA	< 0.00038	NA	< 0.00038	NA	< 0.00038	NA	< 0.00038
Fluoride	mg/L	NA	0.32	NA	0.28	NA	0.24	NA	0.27
Additional Parameters									
Bicarbonate Alkalinity as CaCO3	mg/L	NA	144	NA	141	NA	122	NA	116
Carbonate Alkalinity as CaCO3	mg/L	NA	< 5.0	NA	< 5.0	NA	< 5.0	NA	< 5.0
Total Alkalinity as CaCO3	mg/L	NA	144	NA	141	NA	122	NA	116
Iron	mg/L	5.7	6.7	37.9	5.0	4.8	4.9	5.9	6.9
Magnesium	mg/L	NA	14.4	NA	12.8	NA	11.8	NA	13.5
Manganese	mg/L	NA	3.5	NA	2.9	NA	2.3	NA	2.7
Potassium	mg/L	NA	5.9	NA	5.2	NA	5.3	NA	5.9
Sodium	mg/L	NA	7.0	NA	6.4	NA	7.1	NA	7.3
Sulfide	mg/L	NA	< 0.022	NA	< 0.022	NA	< 0.022	NA	< 0.022
Supplemental									
Oxidation Reduction Potential, Field	mV	-44.49	-50.51	-118.2	59.72	-62.31	77.65	-20.99	-27.71
pH, Field	SU	6.73	6.83	7.41	6.78	6.84	6.87	6.76	6.63
Dissolved Oxygen, Field	mg/L	0.99	1.33	3.61	1.35	0.21	0.59	0.71	0.33
Specific Conductance, Field	uS/cm	914.11	749.39	763.31	688.68	631.07	606.55	662.72	600.76
Temperature, Field	deg C	20.78	18.99	16.75	17.76	17.84	17.61	17.09	8.69
Turbidity, Field	NTU	4.81	4.12	194	4.43	3.51	0.56	3.17	1.55
Total Iron (Field)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Ferrous Iron (Field)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA

Table 7A

Summary of 2023 Post-injection Performance Monitoring Analytical Data

Plant Hammond AP-1, Floyd County, Georgia

		Pilot Study Area	HGWC-13 Area		HGWC-8 Area					
		Sample Location	PT-08	PT-08	PT-09	PT-09	PT-09	PT-09	PT-09	PT-09
		Sample Date	02/15/2024	03/13/2024	10/10/2023	10/17/2023	10/24/2023	10/31/2023	11/14/2023	12/14/2023
ANALYTE[1, 2, 3]	UNITS									
APPENDIX III										
Boron	mg/L		0.88	0.79	0.61	0.23	0.50	0.71	1.2	0.19
Calcium	mg/L		109	86.6	11.0	NA	56.2	NA	111	13.3
Chloride	mg/L		15.4	16.3	13.0	NA	14.2	NA	38.5	7.4
Fluoride	mg/L		0.15	0.16	0.38	NA	0.46	NA	0.35	0.43
pH, Field	SU		6.36	6.31	9.4	7.8	7.25	7.04	6.98	10.81
Sulfate	mg/L		251	175	71.6	25.2	69.3	107	179	24.9
TDS	mg/L		516	409	257	NA	246	NA	491	136
APPENDIX IV										
Antimony	mg/L		< 0.00054	0.0011 J	0.0017 J	NA	< 0.00054	NA	< 0.00054	< 0.00054
Arsenic	mg/L		0.19	0.16	< 0.0037	NA	< 0.00084	NA	< 0.00084	< 0.00084
Barium	mg/L		0.055	0.047	0.063	NA	0.079	NA	0.10	0.010
Beryllium	mg/L		< 0.000094	0.00012 J	< 0.000054	NA	< 0.000094	NA	< 0.000094	< 0.000094
Cadmium	mg/L		< 0.00010	< 0.00010	< 0.00011	NA	< 0.00010	NA	0.00011 J	0.00013 J
Chromium	mg/L		< 0.0019	< 0.0019	< 0.0011	NA	< 0.0019	NA	< 0.0019	< 0.0019
Cobalt	mg/L		0.033	0.034	0.00063 J	NA	0.00054 J	NA	0.0013 J	< 0.00032
Lead	mg/L		< 0.00016	< 0.00016	< 0.00012	NA	< 0.00016	NA	< 0.00016	< 0.00016
Lithium	mg/L		0.026 J	0.0092 J	0.0012 J	NA	< 0.0016	NA	< 0.0016	< 0.0016
Mercury	mg/L		< 0.00013	< 0.00013	< 0.00013	NA	< 0.00013	NA	< 0.00013	< 0.00013
Molybdenum	mg/L		0.0096 J	0.017	0.20	0.27	0.25	0.22	0.20	0.55
Selenium	mg/L		< 0.00096	< 0.00096	< 0.0014	NA	< 0.00096	NA	< 0.00096	< 0.00096
Thallium	mg/L		< 0.00038	< 0.00038	< 0.00018	NA	< 0.00038	NA	< 0.00038	< 0.00038
Fluoride	mg/L		0.15	0.16	0.38	NA	0.46	NA	0.35	0.43
Additional Parameters										
Bicarbonate Alkalinity as CaCO3	mg/L		69.0	83.0	112	NA	115	NA	133	14.7
Carbonate Alkalinity as CaCO3	mg/L		< 5.0	< 5.0	< 5.0	NA	< 5.0	NA	< 5.0	103
Total Alkalinity as CaCO3	mg/L		69.0	83.0	112	NA	115	NA	133	118
Iron	mg/L		10.6	6.5	0.089	0.040	0.40	0.067	< 0.025	0.061
Magnesium	mg/L		14.8	11.2	1.9	NA	13.7	NA	18.9	27.7
Manganese	mg/L		2.9	2.2	0.030 J	NA	0.076	NA	0.23	0.014 J
Potassium	mg/L		5.9	5.1	0.69	NA	3.8	NA	4.9	1.6
Sodium	mg/L		7.1	6.7	0.69 J	NA	4.1	NA	6.9	2.2
Sulfide	mg/L		< 0.022	< 0.022	< 0.022	NA	< 0.022	NA	< 0.022	< 0.022
Supplemental										
Oxidation Reduction Potential, Field	mV		33.23	17.62	-5.31	32.24	42.7	20.14	-12.94	-65.74
pH, Field	SU		6.36	6.31	9.4	7.8	7.25	7.04	6.98	10.81
Dissolved Oxygen, Field	mg/L		0.18	0.95	2.79	6.07	1.99	0.31	0.06	6.91
Specific Conductance, Field	uS/cm		753.81	581.66	345.12	252.68	367.85	528.08	813.75	282.14
Temperature, Field	deg C		16.85	18.96	22.18	21.47	21.31	20.06	19.07	18.03
Turbidity, Field	NTU		4.89	0.04	4.93	4.32	4.91	4.77	64.1	2.51
Total Iron (Field)	mg/L		NA	NA	NA	NA	NA	NA	NA	NA
Ferrous Iron (Field)	mg/L		NA	NA	NA	NA	NA	NA	NA	NA

Table 7A
Summary of 2023 Post-injection Performance Monitoring Analytical Data
Plant Hammond AP-1, Floyd County, Georgia

	Pilot Study Area	HGWC-8 Area							
	Sample Location	PT-09	PT-09	PT-09	PT-09	PT-09	PT-09	PT-10	PT-10
	Sample Date	12/20/2023	12/27/2023	01/03/2024	01/16/2024	02/15/2024	03/13/2024	10/10/2023	10/17/2023
ANALYTE[1, 2, 3]	UNITS								
APPENDIX III									
Boron	mg/L	0.44	0.99	1.2	1.0	1.6	1.8	1.7	1.3
Calcium	mg/L	NA	57.6	NA	55.5	111	82.7	125	NA
Chloride	mg/L	NA	30.4	NA	30.8	48.0	57.2	46.1	NA
Fluoride	mg/L	NA	0.39	NA	0.45	0.37	0.40	0.30	NA
pH, Field	SU	9.55	9.14	8.48	7.77	7.23	7.19	9.72	7.11
Sulfate	mg/L	97.1	147	173	128	132	139	184	122
TDS	mg/L	NA	401	NA	368	477	460	597	NA
APPENDIX IV									
Antimony	mg/L	NA	< 0.00054	NA	< 0.00054	< 0.00054	< 0.00054	< 0.0012	NA
Arsenic	mg/L	NA	0.0010 J	NA	< 0.00084	< 0.00084	0.0011 J	< 0.0037	NA
Barium	mg/L	NA	0.060	NA	0.043	0.051	0.064	0.076	NA
Beryllium	mg/L	NA	< 0.000094	NA	< 0.000094	< 0.000094	< 0.000094	< 0.000054	NA
Cadmium	mg/L	NA	0.00015 J	NA	0.00014 J	0.00014 J	0.00024 J	< 0.00011	NA
Chromium	mg/L	NA	< 0.0019	NA	< 0.0019	< 0.0019	< 0.0019	< 0.0011	NA
Cobalt	mg/L	NA	0.00051 J	NA	0.00058 J	0.00071 J	0.00085 J	0.0022 J	NA
Lead	mg/L	NA	< 0.00016	NA	< 0.00016	< 0.00016	< 0.00016	< 0.00012	NA
Lithium	mg/L	NA	< 0.0016	NA	< 0.0016	< 0.0016	< 0.0016	< 0.0073	NA
Mercury	mg/L	NA	< 0.00013	NA	< 0.00013	< 0.00013	< 0.00013	< 0.00013	NA
Molybdenum	mg/L	0.54	0.56	0.51	0.50	0.38	0.26	0.18	0.21
Selenium	mg/L	NA	< 0.00096	NA	< 0.00096	< 0.00096	< 0.00096	< 0.0014	NA
Thallium	mg/L	NA	< 0.00038	NA	< 0.00038	< 0.00038	< 0.00038	< 0.00018	NA
Fluoride	mg/L	NA	0.39	NA	0.45	0.37	0.40	0.30	NA
Additional Parameters									
Bicarbonate Alkalinity as CaCO3	mg/L	NA	86.2	NA	111	129	148	166	NA
Carbonate Alkalinity as CaCO3	mg/L	NA	< 5.0	NA	< 5.0	< 5.0	< 5.0	< 5.0	NA
Total Alkalinity as CaCO3	mg/L	NA	90.4	NA	111	129	148	166	NA
Iron	mg/L	0.24	0.27	0.071	0.11	10.7	0.28	1.6	0.84
Magnesium	mg/L	NA	34.1	NA	26.1	14.9	33.6	16.7	NA
Manganese	mg/L	NA	0.042	NA	0.15	3.0	0.20	1.6	NA
Potassium	mg/L	NA	4.0	NA	5.0	6.0	6.7	6.1	NA
Sodium	mg/L	NA	6.9	NA	9.9	7.2	11.6	8.4	NA
Sulfide	mg/L	NA	< 0.022	NA	< 0.022	< 0.022	< 0.022	< 0.022	NA
Supplemental									
Oxidation Reduction Potential, Field	mV	169.18	-6.94	-63.05	-0.49	-6.65	10.59	-278.56	-50.33
pH, Field	SU	9.55	9.14	8.48	7.77	7.23	7.19	9.72	7.11
Dissolved Oxygen, Field	mg/L	0.94	1.51	0.12	0.27	0.08	0.25	0.39	0.29
Specific Conductance, Field	uS/cm	403.87	533.31	617.95	511.03	678.76	731.33	898.8	568.18
Temperature, Field	deg C	17.65	18.78	16.43	14.23	18.42	17.39	21.48	20.31
Turbidity, Field	NTU	4.95	4.97	2.52	3.62	4.68	4.43	2.95	4.42
Total Iron (Field)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA
Ferrous Iron (Field)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA

Table 7A

Summary of 2023 Post-injection Performance Monitoring Analytical Data

Plant Hammond AP-1, Floyd County, Georgia

	Pilot Study Area	HGWC-8 Area									
	Sample Location	PT-10	PT-10	PT-10	PT-10	PT-10	PT-10	PT-10	PT-10	PT-10	PT-10
	Sample Date	10/24/2023	10/31/2023	11/14/2023	12/14/2023	12/20/2023	12/27/2023	01/03/2024	01/16/2024	02/15/2024	03/13/2024
ANALYTE[1, 2, 3]	UNITS										
APPENDIX III											
Boron	mg/L	1.3	1.1	1.3	1.6	1.3	1.6	1.7	2.1	2.0	1.6
Calcium	mg/L	90.6	NA	119	137	NA	109	NA	120	112	114
Chloride	mg/L	31.7	NA	43.3	46.9	NA	37.3	NA	55.2	60.3	93.5
Fluoride	mg/L	0.34	NA	0.35	0.33	NA	0.32	NA	0.27	0.18	0.20
pH, Field	SU	7.13	7.11	7.16	7.09	6.66	6.99	6.97	7.05	6.68	6.84
Sulfate	mg/L	102	108	184	206	165	157	170	163	139	37.6
TDS	mg/L	402	NA	516	569	NA	488	NA	512	518	507
APPENDIX IV											
Antimony	mg/L	< 0.00054	NA	< 0.00054	< 0.00054	NA	< 0.00054	NA	< 0.00054	< 0.00054	< 0.00054
Arsenic	mg/L	0.00085 J	NA	< 0.00084	< 0.00084	NA	< 0.00084	NA	< 0.00084	< 0.00084	0.0011 J
Barium	mg/L	0.056	NA	0.061	0.063	NA	0.055	NA	0.062	0.055	0.061
Beryllium	mg/L	< 0.000094	NA	< 0.000094	< 0.000094	NA	< 0.000094	NA	< 0.000094	< 0.000094	< 0.000094
Cadmium	mg/L	< 0.00010	NA	< 0.00010	< 0.00010	NA	< 0.00010	NA	< 0.00010	< 0.00010	< 0.00010
Chromium	mg/L	< 0.0019	NA	< 0.0019	< 0.0019	NA	< 0.0019	NA	< 0.0019	< 0.0019	< 0.0019
Cobalt	mg/L	0.0016 J	NA	0.0024 J	0.0027 J	NA	0.0023 J	NA	0.0020 J	0.0018 J	0.0014 J
Lead	mg/L	< 0.00016	NA	< 0.00016	< 0.00016	NA	< 0.00016	NA	< 0.00016	< 0.00016	< 0.00016
Lithium	mg/L	0.0016 J	NA	0.0022 J	0.0026 J	NA	0.0021 J	NA	< 0.0016	< 0.0016	< 0.0016
Mercury	mg/L	< 0.00013	NA	< 0.00013	< 0.00013	NA	< 0.00013	NA	< 0.00013	< 0.00013	< 0.00013
Molybdenum	mg/L	0.22	0.19	0.19	0.21	0.20	0.22	0.24	0.097	0.065	0.074
Selenium	mg/L	< 0.00096	NA	< 0.00096	< 0.00096	NA	< 0.00096	NA	< 0.00096	< 0.00096	< 0.00096
Thallium	mg/L	< 0.00038	NA	< 0.00038	< 0.00038	NA	< 0.00038	NA	< 0.00038	< 0.00038	< 0.00038
Fluoride	mg/L	0.34	NA	0.35	0.33	NA	0.32	NA	0.27	0.18	0.20
Additional Parameters											
Bicarbonate Alkalinity as CaCO3	mg/L	141	NA	136	141	NA	135	NA	158	139	135
Carbonate Alkalinity as CaCO3	mg/L	< 5.0	NA	< 5.0	< 5.0	NA	< 5.0	NA	< 5.0	< 5.0	< 5.0
Total Alkalinity as CaCO3	mg/L	141	NA	136	141	NA	135	NA	158	139	135
Iron	mg/L	0.91	0.66	0.56	0.71	0.78	0.51	0.46	0.30	0.32	0.61
Magnesium	mg/L	12.1	NA	15.3	18.9	NA	13.9	NA	16.1	15.3	14.4
Manganese	mg/L	0.95	NA	0.82	0.59	NA	0.47	NA	0.63	0.67	0.64
Potassium	mg/L	7.0	NA	6.6	7.5	NA	6.5	NA	8.0	7.2	6.6
Sodium	mg/L	7.3	NA	7.1	8.9	NA	7.7	NA	9.3	9.5	8.7
Sulfide	mg/L	< 0.022	NA	< 0.022	< 0.022	NA	< 0.022	NA	< 0.022	< 0.022	< 0.022
Supplemental											
Oxidation Reduction Potential, Field	mV	-80.61	-57.17	-50.86	-129.48	-10.29	-79.65	-40.46	-24.07	-3.45	-22.57
pH, Field	SU	7.13	7.11	7.16	7.09	6.66	6.99	6.97	7.05	6.68	6.84
Dissolved Oxygen, Field	mg/L	0.13	0.15	2.86	0.09	0.22	0.85	0.66	0.41	0.06	0.07
Specific Conductance, Field	uS/cm	548.18	483.92	713.27	711.29	708.31	627.32	648.52	731.31	731.35	739.98
Temperature, Field	deg C	21.19	19.84	20.6	19.15	16.12	18.65	16.78	17.09	18.42	18.52
Turbidity, Field	NTU	1.43	3.88	4.45	4.94	4.81	4.74	4.1	3.57	2.66	4.39
Total Iron (Field)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ferrous Iron (Field)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 7B

Summary of 2024 Post-injection Performance Monitoring Groundwater Analytical Data

Plant Hammond AP-1, Floyd County, Georgia

	Pilot Study Area	HGWC-13 Area										
	Sample Location	PT-07	PT-07	PT-07	PT-07	PT-07	PT-07	PT-07	PT-07	PT-07	PT-07	PT-07
	Sample Date	08/01/2024	08/09/2024	08/14/2024	08/20/2024	09/04/2024	09/24/2024	10/01/2024	10/08/2024	10/15/2024	11/04/2024	12/02/2024
ANALYTE	UNITS											
APPENDIX III												
Boron	mg/L	0.57	0.54	0.55	0.57	0.56	0.54	0.61	0.54	0.56	0.67	0.72
Calcium	mg/L	123	NA	127	NA	117	128	NA	108	NA	121	129
Chloride	mg/L	16.7	NA	18.6	NA	17.4	17.5	NA	18.6	NA	16.5	16.5
Fluoride	mg/L	0.22	NA	0.29	NA	0.37	0.26	NA	0.30	NA	0.29	0.35
pH, Field	SU	6.72	6.93	7.04	6.84	6.89	6.61	6.94	6.72	6.75	6.76	6.87
Sulfate	mg/L	223	NA	231	NA	221	249	NA	238	NA	194	192
TDS	mg/L	578	NA	574	NA	561	559	NA	548	NA	542	528
APPENDIX IV												
Antimony	mg/L	< 0.00054	NA	< 0.00054	NA	0.0014 J	0.00056 J	NA	< 0.00054	NA	< 0.00054	< 0.00038
Arsenic	mg/L	0.11	0.21	0.24	0.26	0.30	0.016	0.0062	0.025	0.044	0.11	0.15
Barium	mg/L	0.049	NA	0.047	NA	0.050	0.056	NA	0.051	NA	0.051	0.047
Beryllium	mg/L	0.00019 J	NA	0.00010 J	NA	< 0.000094	0.00012 J	NA	0.00014 J	NA	< 0.000094	0.000071 J
Cadmium	mg/L	< 0.00010	NA	< 0.00010	NA	< 0.00010	0.00015 J	NA	0.00016 J	NA	< 0.00010	0.00012 J
Chromium	mg/L	< 0.0019	NA	< 0.0019	NA	< 0.0019	< 0.0019	NA	< 0.0019	NA	< 0.0019	0.00032 J
Cobalt	mg/L	0.056	NA	0.059	NA	0.12	0.031	NA	0.033	NA	0.042	0.048
Lead	mg/L	< 0.00016	NA	< 0.00016	NA	< 0.00016	< 0.00016	NA	< 0.00016	NA	0.00019 J	< 0.000076
Lithium	mg/L	0.056	NA	0.058	NA	0.053	0.048	NA	0.051	NA	0.051	0.050
Mercury	mg/L	< 0.00013	NA	< 0.00013	NA	< 0.00013	< 0.00013	NA	0.00018 J	NA	< 0.00013	< 0.00013
Molybdenum	mg/L	0.0047 J	NA	0.0079 J	NA	0.010	0.0054 J	NA	0.0045 J	NA	0.0088 J	0.011
Selenium	mg/L	< 0.00096	NA	< 0.00096	NA	< 0.00096	0.0011 J	NA	< 0.00096	NA	< 0.00096	0.00097 J
Thallium	mg/L	0.00050 J	NA	< 0.00038	NA	< 0.00038	0.00067 J	NA	< 0.00038	NA	< 0.00038	0.00024 J
Fluoride	mg/L	0.22	NA	0.29	NA	0.37	0.26	NA	0.30	NA	0.29	0.35
Additional Parameters												
Bicarbonate Alkalinity as CaCO3	mg/L	119	NA	134	NA	143	136	NA	149	NA	152	150
Carbonate Alkalinity as CaCO3	mg/L	< 5.0	NA	< 5.0	NA	< 5.0	< 1.9	NA	< 1.9	NA	< 5.0	< 5.0
Total Alkalinity as CaCO3	mg/L	119	NA	134	NA	143	136	NA	149	NA	152	150
Iron	mg/L	13.2	18.3	18.4	17.9	15.6	0.54	0.23	3.2	4.3	6.6	7.7
Magnesium	mg/L	17.8	NA	18.7	NA	16.4	18.7	NA	17.0	NA	17.9	17.7
Manganese	mg/L	4.2	NA	4.3	NA	4.4	2.4	NA	2.8	NA	3.1	3.4
Potassium	mg/L	5.7	NA	5.7	NA	5.8	5.9	NA	5.6	NA	5.9	6.0
Sodium	mg/L	8.6	NA	9.5	NA	9.8	10.2	NA	10.5	NA	9.8	8.5
Sulfide	mg/L	< 0.022	NA	< 0.022	NA	< 0.022	< 0.011 H	NA	< 0.011	NA	< 0.022	< 0.022
Supplemental												
Oxidation Reduction Potential, Field	mV	-56.66	-85.29	-94.38	-91.63	-83.52	18.71	591.7	-20.46	-59.53	-79.29	-57.67
pH, Field	SU	6.72	6.93	7.04	6.84	6.89	6.61	6.94	6.72	6.75	6.76	6.87
Dissolved Oxygen, Field	mg/L	0.14	0.06	0.3	0.13	0.14	0.28	0.19	0.54	0.09	1.46	0.46
Specific Conductance, Field	uS/cm	777.88	772.04	708.53	790.53	752.53	716.65	754.99	729.91	747.98	756.66	760.18
Temperature, Field	deg C	18.01	20.75	20.27	21.73	20.23	22.16	21.1	20.76	19.49	19.98	18.82
Turbidity, Field	NTU	4.94	2.62	3.35	5	1.66	0.54	4.92	4.4	1.12	0.44	1.93
Total Iron (Field)	mg/L	NA	NA	NA	NA	5.5	NA	NA	NA	1.0	5.0	9.2
Ferrous Iron (Field)	mg/L	NA	NA	NA	NA	2.0	NA	NA	NA	0.50	4.5	6.5

Notes:

< = Indicates the parameter was not detected above the analytical method detection limit (MDL).

deg C = degrees Celsius

J = Indicates the parameter was estimated and detected between the MDL and the reporting limit (RL).

H = Indicates sample was received or analysis requested beyond the recognized method holding time.

µS/cm = microsiemens per centimeter

mg/L = miligrams per liter.

mV = millivolts

NA = not applicable.

ND = nondetectable.

NTU = nephelometric turbidity units

SU = standard units

TDS = Total dissolved solids

(1) Appendix III/IV parameter per 40 CFR 257 Subpart D. Analysis of combined radium omitted from the pilot study monitoring program. Unless otherwise indicated, parameters are reported in units of milligrams per liter (mg/L).

(2) Metals were analyzed by EPA Method 6010D, 6020B, and 7470A, anions were analyzed by EPA Method 300.0, TDS was analyzed by SM2540C-2015.

(3) The pH value presented was recorded at the time of sample collection in the field.

Table 7B
Summary of 2024 Post-injection Performance Monitoring Groundwater Analytical Data
Plant Hammond AP-1, Floyd County, Georgia

	Pilot Study Area	HGWC-13 Area									
	Sample Location	PT-07	PT-07	PT-07	PT-07	PT-08	PT-08	PT-08	PT-08	PT-08	PT-08
	Sample Date	01/06/2025	02/04/2025	03/05/2025	4/03/2025	08/01/2024	08/08/2024	08/14/2024	08/20/2024	09/05/2024	09/24/2024
ANALYTE	UNITS										
APPENDIX III											
Boron	mg/L	0.83 J	0.74	0.77	0.80	0.63	0.55	0.62	0.63	0.70	0.61
Calcium	mg/L	113	121	121	116	85.2	NA	99.1	NA	94.4	112
Chloride	mg/L	18.1	19.3	17.0	16.6	14.0	NA	17.0	NA	19.3	17.1
Fluoride	mg/L	0.38	0.40	0.34	0.34	0.16	NA	< 0.050	NA	0.16	0.25
pH, Field	SU	6.86	6.88	6.94	6.92	6.48	6.48	6.58	6.4	6.48	6.5
Sulfate	mg/L	181	157	159	159	176	NA	203	NA	193	239
TDS	mg/L	529	520	484	512	443	NA	474	NA	466	490
APPENDIX IV											
Antimony	mg/L	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00054	NA	< 0.00054	NA	0.0013 J	0.0012 J
Arsenic	mg/L	0.18	0.15	0.18	0.23	0.26	0.32	0.29	0.29	0.23	0.021
Barium	mg/L	0.047	0.047	0.049	0.044	0.044	NA	0.048	NA	0.048	0.050
Beryllium	mg/L	< 0.00015	< 0.00015	< 0.00015	< 0.00015	0.000098 J	NA	< 0.000094	NA	< 0.000094	0.00013 J
Cadmium	mg/L	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00010	NA	< 0.00010	NA	< 0.00010	0.00018 J
Chromium	mg/L	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0019	NA	< 0.0019	NA	< 0.0019	< 0.0019
Cobalt	mg/L	0.042	0.036	0.037	0.034	0.073	NA	0.084	NA	0.084	0.022
Lead	mg/L	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00016	NA	< 0.00016	NA	< 0.00016	< 0.00016
Lithium	mg/L	0.049	0.0461	0.0433	0.0408	0.022 J	NA	0.025 J	NA	0.015 J	0.035
Mercury	mg/L	< 0.00036	< 0.00012	< 0.000091	< 0.000091	< 0.00013	NA	< 0.00013	NA	< 0.00013	< 0.00013
Molybdenum	mg/L	0.011	0.013	0.012	0.011	0.012	NA	0.011	NA	0.010	0.0098 J
Selenium	mg/L	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.00096	NA	< 0.00096	NA	< 0.00096	0.0013 J
Thallium	mg/L	0.00027 J	0.00019 J	0.00031 J	0.00028 J	< 0.00038	NA	< 0.00038	NA	< 0.00038	0.00050 J
Fluoride	mg/L	0.38	0.40	0.34	0.34	0.16	NA	< 0.050	NA	0.16	0.25
Additional Parameters											
Bicarbonate Alkalinity as CaCO3	mg/L	163	169	163	169	76.4	NA	89.7	NA	77.7	91.8
Carbonate Alkalinity as CaCO3	mg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	< 5.0	NA	< 5.0	< 1.9
Total Alkalinity as CaCO3	mg/L	163	169	163	169	76.4	NA	89.7	NA	77.7	91.8
Iron	mg/L	7.8	7.5	5.9	7.6	14.5	16.7	15.5	14.8	9.8	1.1
Magnesium	mg/L	16.5	16.8	15.5	14.4	11.9	NA	13.6	NA	13.2	14.3
Manganese	mg/L	3.2	3.4	3.3 J	3.0	4.1	NA	4.2	NA	3.0	2.5
Potassium	mg/L	5.8	5.5	5.7	5.4	5.0	NA	4.9	NA	5.3	5.3
Sodium	mg/L	8.1	8.4	8.3	7.6	6.8	NA	7.2	NA	8.2	9.1
Sulfide	mg/L	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	NA	< 0.022	NA	< 0.022	< 0.011 H
Supplemental											
Oxidation Reduction Potential, Field	mV	-65.22	-92.81	70.4	-83.52	-35.37	-39.64	-19.66	-30.2	-32.93	37.08
pH, Field	SU	6.86	6.88	6.94	6.92	6.48	6.48	6.58	6.4	6.48	6.5
Dissolved Oxygen, Field	mg/L	0.17	0.1	0.7	0.78	0.22	0.1	0.26	0.11	6.22	2.16
Specific Conductance, Field	uS/cm	681.45	759.86	747.64	759.6	609.92	666.62	585.2	689.81	605.65	587.82
Temperature, Field	deg C	15.75	18.64	17.38	18.74	23.17	20.1	21.67	21.81	20.13	22.19
Turbidity, Field	NTU	0.39	1.21	0.4	0.41	4.96	4.89	3.76	4.77	4.81	4.25
Total Iron (Field)	mg/L	6.2	6.0	5.0	NA	NA	NA	NA	NA	3.5	NA
Ferrous Iron (Field)	mg/L	6.2	4.5	3.4	4.3	NA	NA	NA	NA	3.0	NA

Table 7B
Summary of 2024 Post-injection Performance Monitoring Groundwater Analytical Data
Plant Hammond AP-1, Floyd County, Georgia

	Pilot Study Area	HGWC-13 Area										
	Sample Location	PT-08	PT-08	PT-08	PT-08	PT-08	PT-08	PT-08	PT-08	PT-08	PT-13	PT-13
	Sample Date	10/01/2024	10/08/2024	10/15/2024	11/04/2024	12/02/2024	01/06/2025	02/04/2025	03/05/2025	04/02/2025	08/01/2024	08/09/2024
ANALYTE	UNITS											
APPENDIX III												
Boron	mg/L	0.56	0.58	0.59	0.70	0.85	0.92 J	0.82	1.0	1.0	0.51	0.52
Calcium	mg/L	NA	106	NA	105	111	105	107	108	119	111	NA
Chloride	mg/L	NA	18.1	NA	15.6	17.5	17.7	19.6	19.3	18.8	15.5	NA
Fluoride	mg/L	NA	0.23	NA	0.15	0.14	0.23	0.18	0.20	0.19	0.26	NA
pH, Field	SU	6.63	6.69	6.84	6.39	6.49	6.51	6.36	6.53	6.5	6.69	6.86
Sulfate	mg/L	NA	242	NA	187	187	183	170	177	175	229	NA
TDS	mg/L	NA	524	NA	474	451	479	483	478	491	549	NA
APPENDIX IV												
Antimony	mg/L	NA	< 0.00054	NA	< 0.00054	< 0.00038	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00054	NA
Arsenic	mg/L	0.085	0.066	0.052	0.027	0.010	0.062	0.033	0.018	0.027	0.20	0.26
Barium	mg/L	NA	0.051	NA	0.053	0.052	0.051	0.049	0.047	0.045	0.043	NA
Beryllium	mg/L	NA	< 0.000094	NA	< 0.000094	0.000070 J	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.000094	NA
Cadmium	mg/L	NA	0.00011 J	NA	< 0.00010	< 0.000041	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00010	NA
Chromium	mg/L	NA	< 0.0019	NA	< 0.0019	0.00040 J	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0019	NA
Cobalt	mg/L	NA	0.021	NA	0.032	0.048	0.042	0.040	0.033	0.024	0.040	NA
Lead	mg/L	NA	< 0.00016	NA	< 0.00016	< 0.000076	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00016	NA
Lithium	mg/L	NA	0.035	NA	0.023 J	0.020 J	0.028 J	0.0201 J	0.0149 J	0.0129 J	0.058	NA
Mercury	mg/L	NA	< 0.00013	NA	< 0.00013	< 0.00013	< 0.000091	< 0.00012	< 0.000091	< 0.000091	< 0.00013	NA
Molybdenum	mg/L	NA	0.0086 J	NA	0.0097 J	0.0068 J	0.010 J	0.0096 J	0.010	0.012	0.0052 J	NA
Selenium	mg/L	NA	< 0.00096	NA	0.0014 J	0.0012 J	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.00096	NA
Thallium	mg/L	NA	< 0.00038	NA	< 0.00038	< 0.00020	0.00025 J	0.00018 J	0.00025 J	0.00025 J	< 0.00038	NA
Fluoride	mg/L	NA	0.23	NA	0.15	0.14	0.23	0.18	0.20	0.19	0.26	NA
Additional Parameters												
Bicarbonate Alkalinity as CaCO3	mg/L	NA	114	NA	98.7	84.2	111	113	111	124	115	NA
Carbonate Alkalinity as CaCO3	mg/L	NA	< 1.9	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA
Total Alkalinity as CaCO3	mg/L	NA	114	NA	98.7	84.2	111	113	111	124	115	NA
Iron	mg/L	3.7	2.8	2.2	0.63	0.32	1.3	1.8	0.38	0.37	25.6	24.0
Magnesium	mg/L	NA	15.4	NA	14.4	14.3	13.7	13.4	13.0	12.5	15.5	NA
Manganese	mg/L	NA	2.2	NA	1.4	1.5	2.7	2.3	1.7	2.0	4.3	NA
Potassium	mg/L	NA	5.7	NA	5.7	6.0	5.5	5.0	5.2	4.9	5.3	NA
Sodium	mg/L	NA	9.9	NA	8.2	7.4	7.2	6.8	6.6	6.3	8.2	NA
Sulfide	mg/L	NA	< 0.011	NA	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	NA
Supplemental												
Oxidation Reduction Potential, Field	mV	-27.07	-19.98	-15.45	39.51	48.48	6.07	61.47	52.88	29.28	-86.24	-104.66
pH, Field	SU	6.63	6.69	6.84	6.39	6.49	6.51	6.36	6.53	6.5	6.69	6.86
Dissolved Oxygen, Field	mg/L	0.52	0.36	0.29	0.15	0.13	0.31	0.02	0.2	0.1	1.38	0.12
Specific Conductance, Field	uS/cm	732.73	669.84	702.16	643.29	607.25	670.03	674.81	698.87	695.92	719.27	745.85
Temperature, Field	deg C	21.51	20.42	19.46	19.37	18.52	15.56	19.17	17.66	20.01	23.83	20.66
Turbidity, Field	NTU	3.6	4.99	4.95	4.98	2.3	8.05	4.76	4.05	4.55	2.53	1.58
Total Iron (Field)	mg/L	NA	NA	2.5	0.60	0.40	2.0	1.0	0.50	NA	NA	NA
Ferrous Iron (Field)	mg/L	NA	NA	2.0	0.50	0.20	1.0	1.0	0.50	0.40	NA	NA

Table 7B

Summary of 2024 Post-injection Performance Monitoring Groundwater Analytical Data

Plant Hammond AP-1, Floyd County, Georgia

	Pilot Study Area	HGWC-13 Area										
	Sample Location	PT-13	PT-13	PT-13	PT-13	PT-13	PT-13	PT-13	PT-13	PT-13	PT-13	PT-13
	Sample Date	08/14/2024	08/20/2024	09/04/2024	09/24/2024	10/01/2024	10/08/2024	10/15/2024	11/04/2024	12/02/2024	01/06/2025	02/04/2025
ANALYTE	UNITS											
APPENDIX III												
Boron	mg/L	0.52	0.54	0.53	0.49	0.56	0.54	0.54	0.65	0.70	0.79 J	0.73
Calcium	mg/L	124	NA	120	122	NA	114	NA	119	129	113	114
Chloride	mg/L	17.7	NA	17.4	16.9	NA	18.8	NA	18.5	18.6	19.1	20.2
Fluoride	mg/L	0.28	NA	0.40	0.36	NA	0.35	NA	0.32	0.37	0.42	0.35
pH, Field	SU	6.93	6.62	6.76	6.52	6.63	6.65	6.66	6.7	6.82	6.8	6.82
Sulfate	mg/L	232	NA	241	261	NA	254	NA	199	200	186	161
TDS	mg/L	564	NA	570	518	NA	562	NA	550	528	540	527
APPENDIX IV												
Antimony	mg/L	< 0.00054	NA	< 0.00054	< 0.00054	NA	0.00066 J	NA	< 0.00054	< 0.00038	< 0.00050	< 0.00050
Arsenic	mg/L	0.26	0.25	0.31	0.021	0.0026 J	0.033	0.064	0.14	0.19	0.20	0.19
Barium	mg/L	0.043	NA	0.050	0.050	NA	0.050	NA	0.050	0.047	0.047	0.046
Beryllium	mg/L	< 0.000094	NA	< 0.000094	< 0.000094	NA	< 0.000094	NA	0.00011 J	0.000082 J	< 0.00015	< 0.00015
Cadmium	mg/L	< 0.00010	NA	< 0.00010	0.00011 J	NA	< 0.00010	NA	< 0.00010	0.000054 J	< 0.00012	< 0.00012
Chromium	mg/L	< 0.0019	NA	< 0.0019	< 0.0019	NA	< 0.0019	NA	< 0.0019	0.00039 J	< 0.0012	< 0.0012
Cobalt	mg/L	0.036	NA	0.038	0.022	NA	0.025	NA	0.024	0.023	0.021	0.018
Lead	mg/L	< 0.00016	NA	< 0.00016	0.00057 J	NA	< 0.00016	NA	< 0.00016	0.00011 J	< 0.00025	< 0.00025
Lithium	mg/L	0.058	NA	0.059	0.052	NA	0.053	NA	0.058	0.058	0.053	0.0520
Mercury	mg/L	< 0.00013	NA	< 0.00013	< 0.00013	NA	< 0.00013	NA	< 0.00013	< 0.00013	< 0.000091	< 0.00012
Molybdenum	mg/L	0.0072 J	NA	0.0088 J	0.0031 J	NA	0.0043 J	NA	0.0072 J	0.0085 J	0.0088 J	0.0099 J
Selenium	mg/L	< 0.00096	NA	< 0.00096	0.0013 J	NA	< 0.00096	NA	0.0011 J	0.0011 J	< 0.0012	< 0.0012
Thallium	mg/L	< 0.00038	NA	< 0.00038	< 0.00038	NA	< 0.00038	NA	< 0.00038	0.00023 J	0.00030 J	0.00021 J
Fluoride	mg/L	0.28	NA	0.40	0.36	NA	0.35	NA	0.32	0.37	0.42	0.35
Additional Parameters												
Bicarbonate Alkalinity as CaCO3	mg/L	118	NA	134	105	NA	132	NA	147	145	155	163
Carbonate Alkalinity as CaCO3	mg/L	< 5.0	NA	< 5.0	< 1.9	NA	< 1.9	NA	< 5.0	< 5.0	< 5.0	< 5.0
Total Alkalinity as CaCO3	mg/L	118	NA	134	105	NA	132	NA	147	145	155	163
Iron	mg/L	22.8	21.6	17.2	5.3	1.3	6.6	7.2	8.6	9.5	7.7	7.6
Magnesium	mg/L	16.9	NA	16.1	16.1	NA	16.2	NA	16.9	17.8	16.4	16.4
Manganese	mg/L	4.0	NA	4.1	3.2	NA	3.2	NA	2.9	3.0	2.8	2.9
Potassium	mg/L	5.4	NA	5.9	5.4	NA	5.7	NA	5.9	6.1	6.0	5.4
Sodium	mg/L	9.2	NA	10.6	9.2	NA	10.7	NA	11.3	10.1	8.8	8.4
Sulfide	mg/L	< 0.022	NA	< 0.022	< 0.011 H	NA	< 0.011	NA	< 0.022	< 0.022	< 0.022	< 0.022
Supplemental												
Oxidation Reduction Potential, Field	mV	-86.83	-61.57	-77.3	-13.81	716.91	-29.39	-50.75	-54.08	-59.12	-104.81	-84.83
pH, Field	SU	6.93	6.62	6.76	6.52	6.63	6.65	6.66	6.7	6.82	6.8	6.82
Dissolved Oxygen, Field	mg/L	0.59	0.97	0.03	0.37	0.06	0.15	0.92	3.41	0.52	0.04	0.13
Specific Conductance, Field	uS/cm	699.08	794.29	834.28	682.25	726.14	691.25	734.97	759.92	773.35	682.49	753.4
Temperature, Field	deg C	20.18	21.82	20.72	23.01	21.04	20.24	19.8	19.85	18.53	17.29	18.27
Turbidity, Field	NTU	2.64	3.99	2.64	4.97	4.83	4.83	4.98	4.66	4.74	4.96	4.9
Total Iron (Field)	mg/L	NA	NA	6.0	NA	NA	NA	5.0	5.0	4.0	6.8	5.5
Ferrous Iron (Field)	mg/L	NA	NA	5.5	NA	NA	NA	3.0	2.5	NA	6.6	4.0

Table 7B
Summary of 2024 Post-injection Performance Monitoring Groundwater Analytical Data
Plant Hammond AP-1, Floyd County, Georgia

	Pilot Study Area	HGWC-13 Area										
	Sample Location	PT-13	PT-13	PT-14	PT-14	PT-14	PT-14	PT-14	PT-14	PT-14	PT-14	PT-14
	Sample Date	03/05/2025	04/02/2025	08/01/2024	08/08/2024	08/13/2024	08/20/2024	09/05/2024	09/24/2024	10/01/2024	10/08/2024	10/15/2024
ANALYTE	UNITS											
APPENDIX III												
Boron	mg/L	0.81	0.84	0.55	0.55	0.60	0.59	0.62	0.59	0.56	0.57	0.59
Calcium	mg/L	125	127	123	NA	136	NA	121	135	NA	116	NA
Chloride	mg/L	17.3	18.5	17.8	NA	19.6	NA	19.1	19.6	NA	20.4	NA
Fluoride	mg/L	0.36	0.36	0.22	NA	0.21	NA	0.27	0.28	NA	0.27	NA
pH, Field	SU	6.93	6.85	6.84	6.95	7.03	6.75	6.99	6.69	6.73	6.87	6.94
Sulfate	mg/L	167	166	224	NA	239	NA	236	259	NA	249	NA
TDS	mg/L	528	517	599	NA	621	NA	586	588	NA	557	NA
APPENDIX IV												
Antimony	mg/L	< 0.00050	< 0.00050	< 0.00054	NA	< 0.00054	NA	< 0.00054	< 0.00054	NA	< 0.00054	NA
Arsenic	mg/L	0.19	0.17	0.15	0.22	0.24	0.23	0.23	0.058	0.040	0.15	0.20
Barium	mg/L	0.054	0.047	0.045	NA	0.048	NA	0.048	0.050	NA	0.047	NA
Beryllium	mg/L	0.00019 J	< 0.00015	< 0.000094	NA	< 0.000094	NA	< 0.000094	< 0.000094	NA	0.00011 J	NA
Cadmium	mg/L	< 0.00012	< 0.00012	< 0.00010	NA	< 0.00010	NA	< 0.00010	< 0.00010	NA	< 0.00010	NA
Chromium	mg/L	< 0.0012	< 0.0012	< 0.0019	NA	< 0.0019	NA	< 0.0019	< 0.0019	NA	< 0.0019	NA
Cobalt	mg/L	0.019	0.018	0.025	NA	0.028	NA	0.025	0.022	NA	0.023	NA
Lead	mg/L	0.00055 J	< 0.00025	< 0.00016	NA	< 0.00016	NA	< 0.00016	0.00038 J	NA	0.00026 J	NA
Lithium	mg/L	0.0448	0.0423	0.049	NA	0.053	NA	0.049	0.049	NA	0.046	NA
Mercury	mg/L	< 0.000091	< 0.000091	< 0.00013	NA	< 0.00013	NA	< 0.00013	< 0.00013	NA	< 0.00013	NA
Molybdenum	mg/L	0.011	0.0079 J	0.011	NA	0.014	NA	0.015	0.010	NA	0.015	NA
Selenium	mg/L	< 0.0012	< 0.0012	< 0.00096	NA	< 0.00096	NA	< 0.00096	< 0.00096	NA	< 0.00096	NA
Thallium	mg/L	0.00031 J	0.00036 J	< 0.00038	NA	< 0.00038	NA	< 0.00038	< 0.00038	NA	< 0.00038	NA
Fluoride	mg/L	0.36	0.36	0.22	NA	0.21	NA	0.27	0.28	NA	0.27	NA
Additional Parameters												
Bicarbonate Alkalinity as CaCO3	mg/L	160	166	153	NA	153	NA	156	142	NA	151	NA
Carbonate Alkalinity as CaCO3	mg/L	< 5.0	< 5.0	< 5.0	NA	< 5.0	NA	< 5.0	< 1.9	NA	< 1.9	NA
Total Alkalinity as CaCO3	mg/L	160	166	153	NA	153	NA	156	142	NA	151	NA
Iron	mg/L	6.3	5.8	17.5	17.3	18.9	17.7	14.9	9.9	6.7	13.7	14.4
Magnesium	mg/L	16.4	15.1	18.7	NA	21.0	NA	18.6	19.5	NA	18.5	NA
Manganese	mg/L	3.5 J	3.2	3.4	NA	3.6	NA	3.0	3.4	NA	2.8	NA
Potassium	mg/L	6.0	5.8	5.9	NA	6.4	NA	6.1	5.8	NA	6.1	NA
Sodium	mg/L	8.3	8.2	8.8	NA	9.7	NA	9.6	10.3	NA	11.1	NA
Sulfide	mg/L	< 0.022	< 0.022	< 0.022	NA	< 0.022	NA	< 0.022	< 0.011 H	NA	< 0.011	NA
Supplemental												
Oxidation Reduction Potential, Field	mV	334.98	-50.1	-113.97	-70.38	-102.92	-81.07	-73.89	-69.92	-42.98	-125.1	-125.03
pH, Field	SU	6.93	6.85	6.84	6.95	7.03	6.75	6.99	6.69	6.73	6.87	6.94
Dissolved Oxygen, Field	mg/L	0.16	0.04	0.16	1.7	0.15	1.51	0.05	0.24	0.13	0.19	0.01
Specific Conductance, Field	uS/cm	750.54	731.33	824.67	790.64	734.47	834.47	826.47	783.86	778.06	793.03	795.29
Temperature, Field	deg C	17.89	19.86	19.24	20.85	21.1	21.02	20.59	21.91	19.49	20.83	18.94
Turbidity, Field	NTU	3.82	4.97	0.96	2.96	0.85	1.12	1.7	4.97	4.89	4.2	4.23
Total Iron (Field)	mg/L	5.2	NA	NA	NA	NA	NA	6.0	NA	NA	NA	10
Ferrous Iron (Field)	mg/L	5.2	3.6	NA	NA	NA	NA	6.4	NA	NA	NA	5.0

Table 7B

Summary of 2024 Post-injection Performance Monitoring Groundwater Analytical Data

Plant Hammond AP-1, Floyd County, Georgia

	Pilot Study Area	**HGWC-13 Area**										
	Sample Location	**PT-14**	**PT-14**	**PT-14**	**PT-14**	**PT-14**	**PT-14**	**PT-15**	**PT-15**	**PT-15**	**PT-15**	**PT-15**
	Sample Date	**11/04/2024**	**12/02/2024**	**01/06/2025**	**02/04/2025**	**03/05/2025**	**04/02/2025**	**08/01/2024**	**08/09/2024**	**08/14/2024**	**08/20/2024**	**09/04/2024**
ANALYTE	UNITS											
APPENDIX III												
Boron	mg/L	0.66	0.74	0.80 J	0.75	0.78	0.81	0.63	0.60	0.63	0.63	0.69
Calcium	mg/L	123	137	125	123	114	111	117	NA	123	NA	107
Chloride	mg/L	15.2	17.8	19.5	20.5	16.4	15.8	14.4	NA	15.7	NA	15.2
Fluoride	mg/L	0.25	0.31	0.34	0.30	0.33	0.32	0.29	NA	0.29	NA	0.36
pH, Field	SU	6.9	7.18	6.9	6.81	7	6.96	6.79	6.91	6.97	6.72	6.82
Sulfate	mg/L	196	184	213	170	163	165	206	NA	212	NA	204
TDS	mg/L	628	560	551	546	510	515	544	NA	548	NA	521
APPENDIX IV												
Antimony	mg/L	< 0.00054	< 0.00038	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00054	NA	< 0.00054	NA	< 0.00054
Arsenic	mg/L	0.26	0.27	0.26	0.26	0.37	0.42	0.42	0.43	0.42	0.42	0.43
Barium	mg/L	0.045	0.043	0.043	0.043	0.045	0.042	0.042	NA	0.044	NA	0.048
Beryllium	mg/L	< 0.000094	0.000056 J	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.000094	NA	0.000096 J	NA	0.000099 J
Cadmium	mg/L	< 0.00010	< 0.000041	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00010	NA	< 0.00010	NA	< 0.00010
Chromium	mg/L	< 0.0019	0.00036 J	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0019	NA	< 0.0019	NA	< 0.0019
Cobalt	mg/L	0.023	0.024	0.023	0.019	0.025	0.022	0.056	NA	0.061	NA	0.079
Lead	mg/L	< 0.00016	0.00015 J	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00016	NA	< 0.00016	NA	< 0.00016
Lithium	mg/L	0.051	0.054	0.054	0.0528	0.0489	0.0470	0.050	NA	0.052	NA	0.042
Mercury	mg/L	< 0.00013	< 0.00013	< 0.000091	< 0.00012	< 0.000091	< 0.000091	< 0.00013	NA	< 0.00013	NA	< 0.00013
Molybdenum	mg/L	0.016	0.016	0.013	0.015	0.012	0.010	0.013	NA	0.013	NA	0.017
Selenium	mg/L	0.0012 J	0.0010 J	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.00096	NA	< 0.00096	NA	< 0.00096
Thallium	mg/L	< 0.00038	< 0.00020	0.00015 J	< 0.00015	0.00016 J	0.00019 J	< 0.00038	NA	< 0.00038	NA	< 0.00038
Fluoride	mg/L	0.25	0.31	0.34	0.30	0.33	0.32	0.29	NA	0.29	NA	0.36
Additional Parameters												
Bicarbonate Alkalinity as CaCO3	mg/L	148	149	161	170	154	163	129	NA	128	NA	149
Carbonate Alkalinity as CaCO3	mg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	< 5.0	NA	< 5.0
Total Alkalinity as CaCO3	mg/L	148	149	161	170	154	163	129	NA	128	NA	149
Iron	mg/L	13.5	14.2	10.5	11.7	10.7	10.7	13.4	14.5	12.8	13.3	7.4
Magnesium	mg/L	17.6	18.9	16.8	16.8	16.3	14.8	14.5	NA	15.3	NA	13.1
Manganese	mg/L	2.8	2.9	3.2	3.1	3.4 J	3.3	5.4	NA	5.5	NA	4.9
Potassium	mg/L	5.8	6.1	5.7	5.6	6.0	5.7	5.4	NA	5.3	NA	5.0
Sodium	mg/L	8.7	8.0	7.9	8.8	8.4	7.3	7.7	NA	8.1	NA	7.9
Sulfide	mg/L	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	NA	< 0.022	NA	< 0.022
Supplemental												
Oxidation Reduction Potential, Field	mV	-100.01	-85.02	-106.69	-71.64	-78.32	-102.32	-67.75	-77.45	-76.12	-64.13	-95.53
pH, Field	SU	6.9	7.18	6.9	6.81	7	6.96	6.79	6.91	6.97	6.72	6.82
Dissolved Oxygen, Field	mg/L	0.33	0.11	4.01	0.06	1.63	0.11	1.89	0.06	0.39	0.77	0.06
Specific Conductance, Field	uS/cm	769.88	787.18	760.72	790.08	719.2	726.72	705.43	706.7	660.8	740.25	765.04
Temperature, Field	deg C	19.23	18.13	17.13	18.25	17.84	20.72	23.76	20.77	21.85	21.77	20.77
Turbidity, Field	NTU	1.12	4.76	4.85	3.72	3.59	4.58	0.82	1.07	0.97	4.41	4.65
Total Iron (Field)	mg/L	16	5.6	7.0	6.5	7.0	NA	NA	NA	NA	NA	4.5
Ferrous Iron (Field)	mg/L	2.5	5.2	7.0	5.5	3.5	4.4	NA	NA	NA	NA	2.0

Table 7B
Summary of 2024 Post-injection Performance Monitoring Groundwater Analytical Data
Plant Hammond AP-1, Floyd County, Georgia

	Pilot Study Area	**HGWC-13 Area**									
	Sample Location	**PT-15**	**PT-15**	**PT-15**	**PT-15**	**PT-15**	**PT-15**	**PT-15**	**PT-15**	**PT-15**	**PT-15**
	Sample Date	**09/24/2024**	**10/01/2024**	**10/08/2024**	**10/15/2024**	**11/04/2024**	**12/02/2024**	**01/06/2025**	**02/04/2025**	**03/05/2025**	**04/02/2025**
ANALYTE	UNITS										
APPENDIX III											
Boron	mg/L	0.64	0.63	0.60	0.62	0.74	0.86	0.90 J	0.80	0.86	0.87
Calcium	mg/L	118	NA	109	NA	119	129	121	117	120	122
Chloride	mg/L	14.5	NA	17.2	NA	16.0	17.4	16.1	17.4	15.2	16.9
Fluoride	mg/L	0.31	NA	0.31	NA	0.28	0.37	0.37	0.32	0.33	0.32
pH, Field	SU	6.73	6.81	6.72	7.04	6.7	6.76	6.76	6.79	6.88	6.78
Sulfate	mg/L	242	NA	245	NA	194	175	187	173	172	170
TDS	mg/L	473	NA	509	NA	543	497	519	515	524	511
APPENDIX IV											
Antimony	mg/L	0.00065 J	NA	0.00061 J	NA	< 0.00054	0.00063 J	< 0.00050	< 0.00050	< 0.00050	< 0.00050
Arsenic	mg/L	0.0097	0.0034 J	0.013	0.022	0.040	0.024	0.053	0.078	0.079	0.088
Barium	mg/L	0.049	NA	0.051	NA	0.051	0.051	0.049	0.052	0.053	0.051
Beryllium	mg/L	< 0.000094	NA	0.00012 J	NA	< 0.000094	0.000062 J	< 0.00015	< 0.00015	< 0.00015	< 0.00015
Cadmium	mg/L	0.00029 J	NA	0.00025 J	NA	0.00034 J	0.00025 J	0.00039 J	0.00031 J	0.00038 J	0.00032 J
Chromium	mg/L	< 0.0019	NA	< 0.0019	NA	< 0.0019	0.00026 J	< 0.0012	< 0.0012	< 0.0012	< 0.0012
Cobalt	mg/L	0.012	NA	0.016	NA	0.019	0.025	0.025	0.026	0.027	0.028
Lead	mg/L	< 0.00016	NA	< 0.00016	NA	< 0.00016	< 0.000076	< 0.00025	< 0.00025	< 0.00025	< 0.00025
Lithium	mg/L	0.040	NA	0.038	NA	0.046	0.041	0.043	0.0421	0.0390	0.0355
Mercury	mg/L	< 0.00013	NA	< 0.00013	NA	< 0.00013	< 0.00013	< 0.000091	< 0.00012	< 0.000091	< 0.000091
Molybdenum	mg/L	0.010	NA	0.011	NA	0.012	0.015	0.014	0.014	0.017	0.012
Selenium	mg/L	0.0038 J	NA	0.0029 J	NA	0.0020 J	0.0017 J	< 0.0012	< 0.0012	< 0.0012	< 0.0012
Thallium	mg/L	0.00044 J	NA	0.00039 J	NA	0.00041 J	0.00044 J	0.00055 J	0.00050 J	0.00063 J	0.00062 J
Fluoride	mg/L	0.31	NA	0.31	NA	0.28	0.37	0.37	0.32	0.33	0.32
Additional Parameters											
Bicarbonate Alkalinity as CaCO3	mg/L	81.7	NA	114	NA	140	141	155	146	153	157
Carbonate Alkalinity as CaCO3	mg/L	< 1.9	NA	< 1.9	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total Alkalinity as CaCO3	mg/L	81.7	NA	114	NA	140	141	155	146	153	157
Iron	mg/L	0.15	0.12	0.95	1.2	1.1	0.38	0.90	2.3	0.65	1.1
Magnesium	mg/L	12.3	NA	13.4	NA	14.2	14.6	14.3	14.6	14.3	13.3
Manganese	mg/L	2.3	NA	2.5	NA	2.9	2.4	4.0	4.1	4.7	4.1
Potassium	mg/L	5.1	NA	5.3	NA	5.3	6.1	5.7	5.4	5.6	5.5
Sodium	mg/L	7.7	NA	9.2	NA	8.8	9.3	7.7	7.4	7.0	7.0
Sulfide	mg/L	< 0.011 H	NA	< 0.011	NA	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022
Supplemental											
Oxidation Reduction Potential, Field	mV	41.74	61.86	13.17	-19.57	-26.73	13.95	-24.43	-47.44	571.81	48.82
pH, Field	SU	6.73	6.81	6.72	7.04	6.7	6.76	6.76	6.79	6.88	6.78
Dissolved Oxygen, Field	mg/L	0.43	0.55	0.91	0.05	0.16	0.32	0.48	0.11	0.22	0.13
Specific Conductance, Field	uS/cm	582.11	771.11	674.38	710.88	724.15	703.58	643.69	748.89	732.7	728.24
Temperature, Field	deg C	20.93	20.64	20.43	19.83	19.69	18.43	16.09	19.68	17.41	19.65
Turbidity, Field	NTU	0.55	4.97	3.69	3.45	0.21	2.7	4.4	2.75	1.38	1.05
Total Iron (Field)	mg/L	NA	NA	NA	1.5	1.5	0.20	1.2	5.5	1.2	NA
Ferrous Iron (Field)	mg/L	NA	NA	NA	1.0	1.5	ND	1.2	2.5	1.0	1.2

Table 7B
Summary of 2024 Post-injection Performance Monitoring Groundwater Analytical Data
Plant Hammond AP-1, Floyd County, Georgia

	Pilot Study Area	HGWC-8 Area										
	Sample Location	PT-09	PT-09	PT-09	PT-09	PT-09	PT-09	PT-09	PT-09	PT-09	PT-09	PT-09
	Sample Date	06/26/2024	07/31/2024	08/06/2024	08/12/2024	08/21/2024	09/04/2024	09/25/2024	10/02/2024	10/09/2024	10/16/2024	11/05/2024
ANALYTE	UNITS											
APPENDIX III												
Boron	mg/L	1.5	1.1	1.1	1.2	1.3	1.4	1.2	1.4	1.4	1.3	1.6
Calcium	mg/L	93.2	96.9	NA	92.5	NA	87.9	111	NA	92.4	NA	106
Chloride	mg/L	48.9	29.3	NA	42.3	NA	45.3	39.4	NA	45.9	NA	48.3
Fluoride	mg/L	0.33	0.33	NA	0.35	NA	0.43	0.33	NA	0.39	NA	0.37
pH, Field	SU	6.91	6.9	6.93	7.02	6.83	6.86	6.67	6.81	6.9	6.79	6.79
Sulfate	mg/L	125	172	NA	157	NA	149	236	NA	200	NA	165
TDS	mg/L	469	500	NA	521	NA	486	547	NA	493	NA	563
APPENDIX IV												
Antimony	mg/L	< 0.00054	0.0010 J	NA	< 0.00054	NA	< 0.00054	< 0.00054	NA	< 0.00054	NA	0.00060 J
Arsenic	mg/L	< 0.00084	< 0.00084	NA	< 0.00084	NA	< 0.00084	0.0034 J	NA	< 0.00084	NA	0.0028 J
Barium	mg/L	0.070	0.072	NA	0.066	NA	0.068	0.089	NA	0.073	NA	0.072
Beryllium	mg/L	0.00015 J	0.00013 J	NA	< 0.000094	NA	< 0.000094	< 0.000094	NA	< 0.000094	NA	< 0.000094
Cadmium	mg/L	0.00010 J	0.00028 J	NA	0.00021 J	NA	0.00021 J	0.00030 J	NA	0.00018 J	NA	0.00023 J
Chromium	mg/L	< 0.0019	< 0.0019	NA	< 0.0019	NA	< 0.0019	< 0.0019	NA	< 0.0019	NA	< 0.0019
Cobalt	mg/L	0.0015 J	0.0037 J	NA	0.0033 J	NA	0.0027 J	0.0066	NA	0.0040 J	NA	0.0040 J
Lead	mg/L	0.00033 J	< 0.00016	NA	< 0.00016	NA	< 0.00016	< 0.00016	NA	< 0.00016	NA	< 0.00016
Lithium	mg/L	< 0.0016	0.0019 J	NA	0.0019 J	NA	0.0022 J	0.0035 J	NA	0.0021 J	NA	0.0029 J
Mercury	mg/L	< 0.00013	< 0.00013	NA	< 0.00013	NA	< 0.00013	< 0.00013	NA	< 0.00013	NA	< 0.00013
Molybdenum	mg/L	0.28	0.24	0.24	0.25	0.24	0.26	0.14	0.14	0.18	0.18	0.22
Selenium	mg/L	< 0.00096	< 0.00096	NA	< 0.00096	NA	< 0.00096	< 0.00096	NA	< 0.00096	NA	0.00099 J
Thallium	mg/L	< 0.00038	< 0.00038	NA	< 0.00038	NA	< 0.00038	< 0.00038	NA	< 0.00038	NA	< 0.00038
Fluoride	mg/L	0.33	0.33	NA	0.35	NA	0.43	0.33	NA	0.39	NA	0.37
Additional Parameters												
Bicarbonate Alkalinity as CaCO3	mg/L	117	119	NA	120	NA	121	112	NA	123	NA	122
Carbonate Alkalinity as CaCO3	mg/L	< 5.0	< 5.0	NA	< 5.0	NA	< 5.0	< 1.9	NA	< 1.9	NA	< 5.0
Total Alkalinity as CaCO3	mg/L	117	119	NA	120	NA	121	112	NA	123	NA	122
Iron	mg/L	1.2	0.13	0.31	0.34	0.23	0.31	0.24	0.12	0.073	0.34	0.37
Magnesium	mg/L	17.1	24.5	NA	23.9	NA	24.9	27.2	NA	25.3	NA	25.0
Manganese	mg/L	0.22	0.47	NA	0.36	NA	0.28	0.73	NA	0.58	NA	0.44
Potassium	mg/L	7.2	6.1	NA	6.1	NA	6.1	5.8	NA	6.0	NA	6.4
Sodium	mg/L	12.1	6.6	NA	7.8	NA	8.9	7.0	NA	9.5	NA	9.7
Sulfide	mg/L	< 0.022	< 0.022	NA	< 0.022	NA	< 0.022	< 0.011 H	NA	< 0.011	NA	< 0.022
Supplemental												
Oxidation Reduction Potential, Field	mV	29.99	113.75	36.62	53.69	107.95	39.09	45.21	447.23	100.9	39.18	74.25
pH, Field	SU	6.91	6.9	6.93	7.02	6.83	6.86	6.67	6.81	6.9	6.79	6.79
Dissolved Oxygen, Field	mg/L	0.16	0.54	0.22	0.04	0.3	0.01	0.83	0.05	0.04	0.04	0.15
Specific Conductance, Field	uS/cm	673.97	699.07	660	601.6	665.92	634.71	737.13	696.66	722.62	759.06	756.7
Temperature, Field	deg C	20.57	19.5	22.69	22.39	23.47	21.70	20.24	21.11	21.43	19.06	20.16
Turbidity, Field	NTU	9.9	3.03	4.97	4.48	4.84	4.74	4.9	3.87	3.46	4.92	3.78
Total Iron (Field)	mg/L	NA	NA	NA	NA	NA	3.5	NA	NA	NA	ND	ND
Ferrous Iron (Field)	mg/L	NA	NA	NA	NA	NA	3.0	NA	NA	NA	ND	ND

Table 7B

Summary of 2024 Post-injection Performance Monitoring Groundwater Analytical Data

Plant Hammond AP-1, Floyd County, Georgia

	Pilot Study Area	HGWC-8 Area										
	Sample Location	**PT-09**	**PT-09**	**PT-09**	**PT-09**	**PT-09**	**PT-10**	**PT-10**	**PT-10**	**PT-10**	**PT-10**	**PT-10**
	Sample Date	**12/03/2024**	**01/07/2025**	**02/05/2025**	**03/06/2025**	**04/03/2025**	**06/26/2024**	**07/31/2024**	**08/01/2024**	**08/05/2024**	**08/09/2024**	**08/13/2024**
ANALYTE	UNITS											
APPENDIX III												
Boron	mg/L	1.6	1.8	1.6	1.8	1.8	1.4	1.6	NA	0.015 J	NA	1.7
Calcium	mg/L	116	90.2	89.3	98.6	102	104	102	NA	NA	NA	107
Chloride	mg/L	48.3	50.2	50.4	57.6	56.9	47.2	46.4	NA	NA	NA	47.5
Fluoride	mg/L	0.40	0.37	0.37	0.31	0.30	0.22	0.22	NA	NA	NA	0.25
pH, Field	SU	7.09	6.94	6.68	6.81	6.78	6.88	NA	6.85	NA	6.87	7.05
Sulfate	mg/L	157	127	111	128	122	135	117	NA	NA	NA	122
TDS	mg/L	521	490	422	488	516	480	535	NA	NA	NA	449
APPENDIX IV												
Antimony	mg/L	< 0.00038	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00054	< 0.00054	NA	NA	NA	0.0010 J
Arsenic	mg/L	0.0020 J	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.00084	< 0.00084	NA	NA	NA	< 0.00084
Barium	mg/L	0.066	0.065	0.060	0.068	0.064	0.050	0.046	NA	NA	NA	0.049
Beryllium	mg/L	0.000030 J	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.000094	< 0.000094	NA	NA	NA	< 0.000094
Cadmium	mg/L	0.00024 J	0.00013 J	< 0.00012	0.00013 J	< 0.00012	< 0.00010	0.00012 J	NA	NA	NA	0.00013 J
Chromium	mg/L	0.00037 J	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0019	< 0.0019	NA	NA	NA	< 0.0019
Cobalt	mg/L	0.0028 J	0.0023 J	0.0022 J	0.0022 J	0.0015 J	0.0015 J	0.0015 J	NA	NA	NA	0.0016 J
Lead	mg/L	< 0.000076	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00016	< 0.00016	NA	NA	NA	< 0.00016
Lithium	mg/L	0.0025 J	0.0021 J	0.00155 J	0.00101 J	0.00124 J	< 0.0016	< 0.0016	NA	NA	NA	< 0.0016
Mercury	mg/L	< 0.00013	< 0.000091	< 0.00012	< 0.000091	< 0.000091	< 0.00013	< 0.00013	NA	NA	NA	< 0.00013
Molybdenum	mg/L	0.25	0.19	0.23	0.17	0.16	0.13	0.15	NA	< 0.00062	NA	0.17
Selenium	mg/L	0.00096 J	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.00096	< 0.00096	NA	NA	NA	< 0.00096
Thallium	mg/L	< 0.00020	0.00019 J	< 0.00015	0.00017 J	0.00017 J	< 0.00038	< 0.00038	NA	NA	NA	< 0.00038
Fluoride	mg/L	0.40	0.37	0.37	0.31	0.30	0.22	0.22	NA	NA	NA	0.25
Additional Parameters												
Bicarbonate Alkalinity as CaCO3	mg/L	121	131	131	130	126	121	133	NA	NA	NA	133
Carbonate Alkalinity as CaCO3	mg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	NA	NA	< 5.0
Total Alkalinity as CaCO3	mg/L	121	131	131	130	126	121	133	NA	NA	NA	133
Iron	mg/L	0.049	0.26	1.0	0.55	0.061	0.13	< 0.025	NA	0.11	NA	0.31
Magnesium	mg/L	23.1	20.7	20.6	20.3	17.1	14.1	13.7	NA	NA	NA	14.4
Manganese	mg/L	0.37	0.36 J	0.33	0.44	0.36 J	0.54	0.48	NA	NA	NA	0.50
Potassium	mg/L	6.9	6.7	6.2	7.1	6.3	7.2	6.7	NA	NA	NA	7.2
Sodium	mg/L	10.1	14.1	12.3	14.4	12.1	9.6	8.8	NA	NA	NA	9.1
Sulfide	mg/L	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	NA	NA	NA	< 0.022
Supplemental												
Oxidation Reduction Potential, Field	mV	40.04	33.41	79.84	406.97	55.27	37.29	NA	124.56	NA	33.6	44
pH, Field	SU	7.09	6.94	6.68	6.81	6.78	6.88	NA	6.85	NA	6.87	7.05
Dissolved Oxygen, Field	mg/L	0.69	0.13	0.1	0.1	0.05	0.06	NA	1.15	NA	0.11	0.04
Specific Conductance, Field	uS/cm	730.13	641.49	693.51	733.89	716.18	700.17	NA	667.61	NA	644.85	579.22
Temperature, Field	deg C	17.31	15.9	18.52	16.48	20.38	22.57	NA	17.27	NA	22.38	22.14
Turbidity, Field	NTU	1.41	4.93	4.62	4.73	4.85	2.14	NA	1.34	NA	3.87	4.87
Total Iron (Field)	mg/L	ND	0.20	ND	0.75	NA	NA	NA	NA	NA	NA	NA
Ferrous Iron (Field)	mg/L	ND	ND	ND	0.75	ND	NA	NA	NA	NA	NA	NA

Table 7B

Summary of 2024 Post-injection Performance Monitoring Groundwater Analytical Data

Plant Hammond AP-1, Floyd County, Georgia

	Pilot Study Area	HGWC-8 Area										
	Sample Location	PT-10	PT-10	PT-10	PT-10	PT-10	PT-10	PT-10	PT-10	PT-10	PT-10	PT-10
	Sample Date	08/20/2024	09/04/2024	09/25/2024	10/02/2024	10/09/2024	10/16/2024	11/05/2024	12/03/2024	01/07/2025	02/05/2025	03/06/2025
ANALYTE	UNITS											
APPENDIX III												
Boron	mg/L	1.7	1.6	1.6	1.7	1.6	1.5	1.7	1.7	1.6	1.5	1.4
Calcium	mg/L	NA	99.0	113	NA	109	NA	107	114	93.1	98.1	96.7
Chloride	mg/L	NA	46.2	49.6	NA	50.0	NA	45.1	46.1	50.4	46.3	48.4
Fluoride	mg/L	NA	0.28	0.32	NA	0.29	NA	0.27	0.27	0.20	0.19	0.19
pH, Field	SU	6.86	6.96	6.69	6.99	7.01	8.15	6.9	6.83	6.6	6.66	6.71
Sulfate	mg/L	NA	118	158	NA	165	NA	129	130	112	110	114
TDS	mg/L	NA	473	521	NA	484	NA	527	470	414	401	455
APPENDIX IV												
Antimony	mg/L	NA	< 0.00054	< 0.00054	NA	< 0.00054	NA	< 0.00054	< 0.00038	< 0.00050	< 0.00050	< 0.00050
Arsenic	mg/L	NA	< 0.00084	0.0024 J	NA	< 0.00084	NA	0.0021 J	< 0.0016	< 0.0012	< 0.0012	< 0.0012
Barium	mg/L	NA	0.047	0.053	NA	0.054	NA	0.050	0.047	0.048	0.046	0.051
Beryllium	mg/L	NA	< 0.000094	< 0.000094	NA	< 0.000094	NA	< 0.000094	< 0.000026	< 0.00015	< 0.00015	< 0.00015
Cadmium	mg/L	NA	0.00011 J	0.00017 J	NA	< 0.00010	NA	0.00013 J	0.00015 J	< 0.00012	< 0.00012	< 0.00012
Chromium	mg/L	NA	< 0.0019	0.0039 J	NA	< 0.0019	NA	< 0.0019	0.00025 J	< 0.0012	< 0.0012	< 0.0012
Cobalt	mg/L	NA	0.0015 J	0.0019 J	NA	0.0013 J	NA	0.0014 J	0.0015 J	0.0013 J	0.0014 J	0.0013 J
Lead	mg/L	NA	< 0.00016	< 0.00016	NA	< 0.00016	NA	< 0.00016	< 0.000076	< 0.00025	< 0.00025	< 0.00025
Lithium	mg/L	NA	< 0.0016	< 0.0016	NA	< 0.0016	NA	< 0.0016	0.0010 J	0.00058 J	0.000905 J	0.00111 J
Mercury	mg/L	NA	< 0.00013	< 0.00013	NA	< 0.00013	NA	< 0.00013	< 0.00013	< 0.000091	< 0.00012	< 0.000091
Molybdenum	mg/L	0.16	0.18	0.23	0.16	0.18	0.16	0.21	0.18	0.043	0.079	0.052
Selenium	mg/L	NA	< 0.00096	< 0.00096	NA	< 0.00096	NA	0.0011 J	0.00095 J	< 0.0012	< 0.0012	< 0.0012
Thallium	mg/L	NA	< 0.00038	< 0.00038	NA	< 0.00038	NA	< 0.00038	< 0.00020	< 0.00015	< 0.00015	< 0.00015
Fluoride	mg/L	NA	0.28	0.32	NA	0.29	NA	0.27	0.27	0.20	0.19	0.19
Additional Parameters												
Bicarbonate Alkalinity as CaCO3	mg/L	NA	130	131	NA	141	NA	132	118	105	114	115
Carbonate Alkalinity as CaCO3	mg/L	NA	< 5.0	< 1.9	NA	< 1.9	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total Alkalinity as CaCO3	mg/L	NA	130	131	NA	141	NA	132	118	105	114	115
Iron	mg/L	0.18	0.077	0.060	0.17	0.12	0.51	0.033 J	< 0.025	0.19	1.0	0.17
Magnesium	mg/L	NA	13.1	14.2	NA	14.1	NA	13.9	13.8	12.3	12.9	12.5
Manganese	mg/L	NA	0.42	0.43	NA	0.60	NA	0.40	0.37	0.42 J	0.43	0.55
Potassium	mg/L	NA	6.8	6.6	NA	7.0	NA	6.9	7.1	7.1	6.6	6.9
Sodium	mg/L	NA	8.7	9.0	NA	9.1	NA	9.2	8.8	10.3	9.1	9.8
Sulfide	mg/L	NA	< 0.022	< 0.011 H	NA	< 0.011	NA	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022
Supplemental												
Oxidation Reduction Potential, Field	mV	149.87	410.18	51.4	-6.23	-19.44	-103.72	126.05	57.02	12.01	13.17	1.52
pH, Field	SU	6.86	6.96	6.69	6.99	7.01	8.15	6.9	6.83	6.6	6.66	6.71
Dissolved Oxygen, Field	mg/L	0.48	0.42	0.38	0.28	0.24	0.12	0.09	0.15	0.07	0.24	0.43
Specific Conductance, Field	uS/cm	664.93	662.09	661.53	674.4	679.88	708.42	677.87	678.04	546.13	623.67	672.95
Temperature, Field	deg C	22.76	22	19.71	21.62	20.49	17.85	19.54	18.32	15.87	17.9	15.74
Turbidity, Field	NTU	4.27	1.36	3.46	2.31	0.24	4.53	1.92	0.94	2.65	1.49	0.78
Total Iron (Field)	mg/L	NA	ND	NA	NA	NA	0.50	ND	ND	ND	1.0	ND
Ferrous Iron (Field)	mg/L	NA	ND	NA	NA	NA	0.25	ND	ND	ND	ND	ND

Table 7B
Summary of 2024 Post-injection Performance Monitoring Groundwater Analytical Data
Plant Hammond AP-1, Floyd County, Georgia

		Pilot Study Area	HGWC-8 Area								
		Sample Location	PT-10	PT-11	PT-11	PT-11	PT-11	PT-11	PT-11	PT-11	PT-11	PT-11
		Sample Date	04/03/2025	08/07/2024	08/12/2024	08/21/2024	09/04/2024	09/25/2024	10/02/2024	10/09/2024	10/16/2024	11/05/2024
ANALYTE	UNITS											
APPENDIX III												
Boron	mg/L	1.7	1.3	1.5	1.5	1.4	1.5	1.3	1.5	1.3	1.6
Calcium	mg/L	124	NA	96.7	NA	94.9	109	NA	91.9	NA	112
Chloride	mg/L	54.3	NA	41.7	NA	46.1	48.3	NA	37.6	NA	46.9
Fluoride	mg/L	0.15	NA	0.32	NA	0.43	0.33	NA	0.32	NA	0.31
pH, Field	SU	6.82	6.79	6.97	6.82	6.95	6.63	6.64	6.64	6.57	6.8
Sulfate	mg/L	138	NA	139	NA	139	200	NA	211	NA	156
TDS	mg/L	532	NA	456	NA	483	546	NA	496	NA	563
APPENDIX IV											
Antimony	mg/L	< 0.00050	NA	< 0.00054	NA	< 0.00054	< 0.00054	NA	< 0.00054	NA	< 0.00054
Arsenic	mg/L	< 0.0012	NA	< 0.00084	NA	0.00087 J	0.0031 J	NA	0.0014 J	NA	0.0030 J
Barium	mg/L	0.056	NA	0.072	NA	0.070	0.078	NA	0.067	NA	0.074
Beryllium	mg/L	< 0.00015	NA	< 0.000094	NA	< 0.000094	< 0.000094	NA	< 0.000094	NA	< 0.000094
Cadmium	mg/L	< 0.00012	NA	0.00022 J	NA	0.00017 J	0.00030 J	NA	0.00017 J	NA	0.00018 J
Chromium	mg/L	< 0.0012	NA	< 0.0019	NA	< 0.0019	< 0.0019	NA	< 0.0019	NA	< 0.0019
Cobalt	mg/L	< 0.0012	NA	0.015	NA	0.0066	0.025	NA	0.015	NA	0.0079
Lead	mg/L	< 0.00025	NA	< 0.00016	NA	< 0.00016	< 0.00016	NA	< 0.00016	NA	< 0.00016
Lithium	mg/L	0.00160 J	NA	0.0059 J	NA	0.0039 J	0.0067 J	NA	0.0057 J	NA	0.0046 J
Mercury	mg/L	< 0.000091	NA	< 0.00013	NA	< 0.00013	< 0.00013	NA	< 0.00013	NA	< 0.00013
Molybdenum	mg/L	0.040	0.086	0.10	0.12	0.14	0.074	0.069	0.066	0.062	0.11
Selenium	mg/L	< 0.0012	NA	< 0.00096	NA	< 0.00096	< 0.00096	NA	< 0.00096	NA	< 0.00096
Thallium	mg/L	< 0.00015	NA	< 0.00038	NA	< 0.00038	< 0.00038	NA	< 0.00038	NA	< 0.00038
Fluoride	mg/L	0.15	NA	0.32	NA	0.43	0.33	NA	0.32	NA	0.31
Additional Parameters											
Bicarbonate Alkalinity as CaCO3	mg/L	134	NA	126	NA	133	98.0	NA	108	NA	128
Carbonate Alkalinity as CaCO3	mg/L	< 5.0	NA	< 5.0	NA	< 5.0	< 1.9	NA	< 1.9	NA	< 5.0
Total Alkalinity as CaCO3	mg/L	134	NA	126	NA	133	98.0	NA	108	NA	128
Iron	mg/L	0.18	0.36	0.25	0.10	0.41	3.7	1.8	0.24	0.82	0.19
Magnesium	mg/L	12.3	NA	20.6	NA	17.8	20.3	NA	21.6	NA	19.1
Manganese	mg/L	0.71	NA	1.0	NA	0.59	1.4	NA	1.1	NA	0.66
Potassium	mg/L	6.8	NA	6.1	NA	6.1	5.6	NA	5.7	NA	6.3
Sodium	mg/L	9.1	NA	8.5	NA	8.6	8.1	NA	7.8	NA	9.1
Sulfide	mg/L	< 0.022	NA	< 0.022	NA	< 0.022	< 0.011 H	NA	< 0.011	NA	< 0.022
Supplemental											
Oxidation Reduction Potential, Field	mV	139.02	30.21	55.49	112.47	55.38	-13.49	406.71	21.8	21.06	59.93
pH, Field	SU	6.82	6.79	6.97	6.82	6.95	6.63	6.64	6.64	6.57	6.8
Dissolved Oxygen, Field	mg/L	0.11	0.06	0.07	0.12	0	0.07	0.06	0.16	0.08	0.14
Specific Conductance, Field	uS/cm	767.32	642.12	586.44	660.19	619.84	676.04	658.94	664.68	735.6	735.89
Temperature, Field	deg C	20.49	21.8	21.66	21.37	21.51	20.04	21.2	20.48	18.96	19.82
Turbidity, Field	NTU	0.49	4.9	4.4	4.4	4.82	4.97	4.7	1.23	4.84	1.79
Total Iron (Field)	mg/L	NA	NA	NA	NA	0.30	NA	NA	NA	1.0	ND
Ferrous Iron (Field)	mg/L	ND	NA	NA	NA	ND	NA	NA	NA	0.5	ND

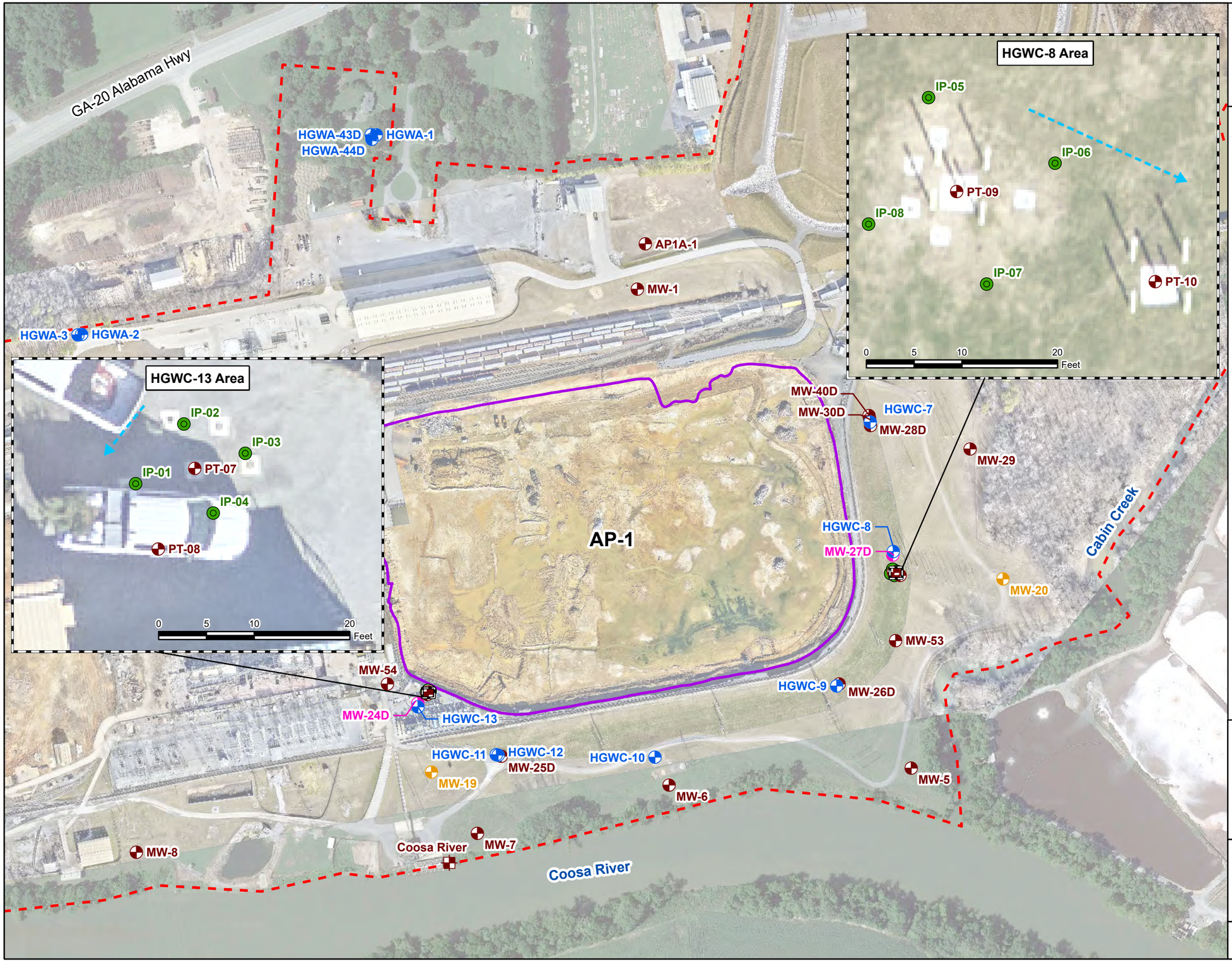
Table 7B
Summary of 2024 Post-injection Performance Monitoring Groundwater Analytical Data
Plant Hammond AP-1, Floyd County, Georgia

	Pilot Study Area	HGWC-8 Area									
	Sample Location	PT-11	PT-11	PT-11	PT-11	PT-11	PT-12	PT-12	PT-12	PT-12	PT-12
	Sample Date	12/03/2024	01/07/2025	02/05/2025	03/06/2025	04/03/2025	08/06/2024	08/13/2024	08/21/2024	09/04/2024	09/25/2024
ANALYTE	UNITS										
APPENDIX III											
Boron	mg/L	1.6	1.7	1.5	1.6	1.5	1.1	1.1	1.2	1.0	0.81
Calcium	mg/L	120	88.8	95.8	89.2	97.3	NA	98.4	NA	90.2	106
Chloride	mg/L	44.0	34.5	37.7	34.7	39.0	NA	31.7	NA	28.7	22.9
Fluoride	mg/L	0.31	0.28	0.27	0.29	0.28	NA	0.32	NA	0.38	0.27
pH, Field	SU	7.08	6.87	6.65	6.86	6.75	6.87	7.04	6.84	6.88	6.51
Sulfate	mg/L	139	103	96.4	94.7	105	NA	178	NA	187	266
TDS	mg/L	486	424	400	420	460	NA	546	NA	500	573
APPENDIX IV											
Antimony	mg/L	< 0.00038	< 0.00050	< 0.00050	< 0.00050	< 0.00050	NA	< 0.00054	NA	< 0.00054	< 0.00054
Arsenic	mg/L	< 0.0016	< 0.0012	< 0.0012	< 0.0012	< 0.0012	NA	0.00089 J	NA	0.0017 J	0.0031 J
Barium	mg/L	0.067	0.060	0.062	0.066	0.063	NA	0.070	NA	0.068	0.087
Beryllium	mg/L	< 0.000026	< 0.00015	< 0.00015	< 0.00015	< 0.00015	NA	< 0.000094	NA	< 0.000094	< 0.000094
Cadmium	mg/L	0.00015 J	< 0.00012	< 0.00012	< 0.00012	< 0.00012	NA	0.00024 J	NA	0.00024 J	0.00055
Chromium	mg/L	0.00045 J	< 0.0012	< 0.0012	< 0.0012	< 0.0012	NA	< 0.0019	NA	< 0.0019	< 0.0019
Cobalt	mg/L	0.0044 J	0.0017 J	0.0024 J	0.0019 J	0.0014 J	NA	0.0022 J	NA	0.0028 J	0.011
Lead	mg/L	< 0.000076	< 0.00025	< 0.00025	< 0.00025	< 0.00025	NA	< 0.00016	NA	< 0.00016	< 0.00016
Lithium	mg/L	0.0027 J	0.0010 J	0.00159 J	0.00117 J	0.00125 J	NA	0.0025 J	NA	0.0020 J	0.0044 J
Mercury	mg/L	< 0.00013	< 0.000091	< 0.00012	< 0.000091	< 0.000091	NA	< 0.00013	NA	< 0.00013	< 0.00013
Molybdenum	mg/L	0.12	0.12	0.11	0.13	0.12	0.20	0.23	0.21	0.19	0.088
Selenium	mg/L	0.00092 J	< 0.0012	< 0.0012	< 0.0012	< 0.0012	NA	< 0.00096	NA	< 0.00096	< 0.00096
Thallium	mg/L	< 0.00020	< 0.00015	< 0.00015	< 0.00015	< 0.00015	NA	< 0.00038	NA	< 0.00038	< 0.00038
Fluoride	mg/L	0.31	0.28	0.27	0.29	0.28	NA	0.32	NA	0.38	0.27
Additional Parameters											
Bicarbonate Alkalinity as CaCO3	mg/L	122	121	121	117	121	NA	128	NA	124	90.2
Carbonate Alkalinity as CaCO3	mg/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	< 5.0	NA	< 5.0	< 1.9
Total Alkalinity as CaCO3	mg/L	122	121	121	117	121	NA	128	NA	124	90.2
Iron	mg/L	0.17	0.014 J	0.89	0.41	0.48	0.33	0.082	0.078	0.14	0.21
Magnesium	mg/L	16.9	12.8	13.8	16.0	15.0	NA	24.5	NA	26.4	30.0
Manganese	mg/L	0.45	0.33 J	0.35	0.41	0.35 J	NA	0.62	NA	0.77	2.6
Potassium	mg/L	7.2	6.7	6.3	6.7	5.9	NA	5.8	NA	5.5	5.1
Sodium	mg/L	9.5	8.9	8.5	9.0	8.3	NA	6.6	NA	6.7	6.1
Sulfide	mg/L	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	NA	< 0.022	NA	< 0.022	< 0.011
Supplemental											
Oxidation Reduction Potential, Field	mV	28.87	35.71	80.6	449.53	54.25	34.9	51.29	63.32	37.07	76.57
pH, Field	SU	7.08	6.87	6.65	6.86	6.75	6.87	7.04	6.84	6.88	6.51
Dissolved Oxygen, Field	mg/L	0.11	0.09	0.1	0.12	0.09	0.07	0.02	0.06	0.01	0.86
Specific Conductance, Field	uS/cm	710	559.68	630.82	633.63	655.81	676.48	606.97	700.15	669.56	709.24
Temperature, Field	deg C	17	15.26	17.91	17.06	19.89	23.48	21.23	22.22	21.94	19.99
Turbidity, Field	NTU	0.7	0.35	2.26	4.2	4.32	4.98	4.38	2.92	4.42	4.72
Total Iron (Field)	mg/L	NA	ND	0.50	ND	NA	NA	NA	NA	ND	NA
Ferrous Iron (Field)	mg/L	NA	ND	0.50	ND	ND	NA	NA	NA	ND	NA

Table 7B
Summary of 2024 Post-injection Performance Monitoring Groundwater Analytical Data
Plant Hammond AP-1, Floyd County, Georgia

	Pilot Study Area	HGWC-8 Area								
	Sample Location	PT-12	PT-12	PT-12	PT-12	PT-12	PT-12	PT-12	PT-12	PT-12
	Sample Date	10/02/2024	10/09/2024	10/16/2024	11/05/2024	12/03/2024	01/07/2025	02/05/2025	03/06/2025	04/03/2025
ANALYTE	UNITS									
APPENDIX III										
Boron	mg/L	1.3	1.3	1.2	1.1	1.6	1.8	1.6	1.7	1.7
Calcium	mg/L	NA	87.3	NA	98.0	105	90.2	91.4	92.3	100
Chloride	mg/L	NA	41.9	NA	32.2	44.2	55.0	44.0	49.4	52.4
Fluoride	mg/L	NA	0.32	NA	0.26	0.30	0.27	0.25	0.23	0.22
pH, Field	SU	6.71	6.79	9.50	6.61	6.65	6.62	6.53	6.47	6.43
Sulfate	mg/L	NA	203	NA	204	179	130	114	111	115
TDS	mg/L	NA	485	NA	549	526	506	416	445	431
APPENDIX IV										
Antimony	mg/L	NA	0.0022 J	NA	< 0.00054	< 0.00038	< 0.00050	< 0.00050	< 0.00050	< 0.00050
Arsenic	mg/L	NA	0.0015 J	NA	0.0046 J	0.0027 J	< 0.0012	< 0.0012	< 0.0012	< 0.0012
Barium	mg/L	NA	0.071	NA	0.074	0.062	0.057	0.055	0.056	0.054
Beryllium	mg/L	NA	< 0.000094	NA	< 0.000094	0.000057 J	< 0.00015	< 0.00015	< 0.00015	< 0.00015
Cadmium	mg/L	NA	0.00031 J	NA	0.00037 J	0.00028 J	0.00013 J	0.00015 J	0.00014 J	0.00013 J
Chromium	mg/L	NA	< 0.0019	NA	< 0.0019	0.00067 J	< 0.0012	< 0.0012	< 0.0012	< 0.0012
Cobalt	mg/L	NA	0.0044 J	NA	0.0053	0.0035 J	0.0019 J	0.0023 J	0.0020 J	0.0017 J
Lead	mg/L	NA	0.00074 J	NA	< 0.00016	0.000093 J	< 0.00025	< 0.00025	< 0.00025	< 0.00025
Lithium	mg/L	NA	0.0029 J	NA	0.0037 J	0.0023 J	0.00095 J	0.00122 J	0.000922 J	0.00110 J
Mercury	mg/L	NA	< 0.00013	NA	< 0.00013	< 0.00013	< 0.000091	< 0.00012	< 0.000091	< 0.000091
Molybdenum	mg/L	0.14	0.18	0.16	0.12	0.16	0.13	0.16	0.13	0.11
Selenium	mg/L	NA	< 0.00096	NA	< 0.00096	< 0.00092	< 0.0012	< 0.0012	< 0.0012	< 0.0012
Thallium	mg/L	NA	< 0.00038	NA	< 0.00038	< 0.00020	0.00017 J	< 0.00015	0.00016 J	0.00016 J
Fluoride	mg/L	NA	0.32	NA	0.26	0.30	0.27	0.25	0.23	0.22
Additional Parameters										
Bicarbonate Alkalinity as CaCO3	mg/L	NA	113	NA	107	116	126	120	116	115
Carbonate Alkalinity as CaCO3	mg/L	NA	< 1.9	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Total Alkalinity as CaCO3	mg/L	NA	113	NA	107	116	126	120	116	115
Iron	mg/L	0.043 J	0.091	0.48	0.14	0.33	0.11	1.4	0.25	0.26
Magnesium	mg/L	NA	24.8	NA	31.4	28.7	17.8	19.1	16.9	14.9
Manganese	mg/L	NA	1.1	NA	1.4	0.86	0.41 J	0.44	0.43	0.41
Potassium	mg/L	NA	5.6	NA	5.4	6.1	6.5	6.0	6.7	6.0
Sodium	mg/L	NA	7.8	NA	7.6	10.9	12.8	11.0	10.8	10.2
Sulfide	mg/L	NA	< 0.011	NA	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022
Supplemental										
Oxidation Reduction Potential, Field	mV	75.58	92.77	4.4	94.28	68.68	57.17	55.94	431.41	485.45
pH, Field	SU	6.71	6.79	9.50	6.61	6.65	6.62	6.53	6.47	6.43
Dissolved Oxygen, Field	mg/L	2.21	0.07	0.05	0.08	0.18	0.09	0.09	0.11	0.11
Specific Conductance, Field	uS/cm	674.5	691.29	715.28	717.5	741.65	649.55	651.97	660.11	681.72
Temperature, Field	deg C	20.84	20.81	19.15	20.15	17.5	15.86	18.97	17.28	20.21
Turbidity, Field	NTU	2.93	4.65	6.8	3.23	3.47	4.9	3.89	4.71	2.97
Total Iron (Field)	mg/L	NA	NA	ND	ND	ND	0.20	4.0	ND	NA
Ferrous Iron (Field)	mg/L	NA	NA	ND	ND	ND	ND	ND	ND	ND

FIGURES



N

LEGEND

- Detection Monitoring Well
- Horizontal Assessment Monitoring Well
- Vertical Assessment Monitoring Well
- Piezometer (see Note 1)
- Surface Water Level Gauge Point
- Injection Point
- Approximate Groundwater Flow Direction
- Approximate AP-1 Boundary
- Plant Hammond Property Boundary

Notes:
1. Piezometers PT-07, PT-08, PT-09, PT-10, MW-53 and MW-54 were installed in support of an Assessment of Corrective Measures pre-design investigation and are not included in the monitoring well network.
2. Aerial photograph source: Google Earth Pro, August 2019 and Georgia Power Company, January 2024 and January 2025.

0 150 300 600

SCALE IN FEET

PILOT STUDY DPT INJECTION AND PERFORMANCE MONITORING WELL LOCATIONS

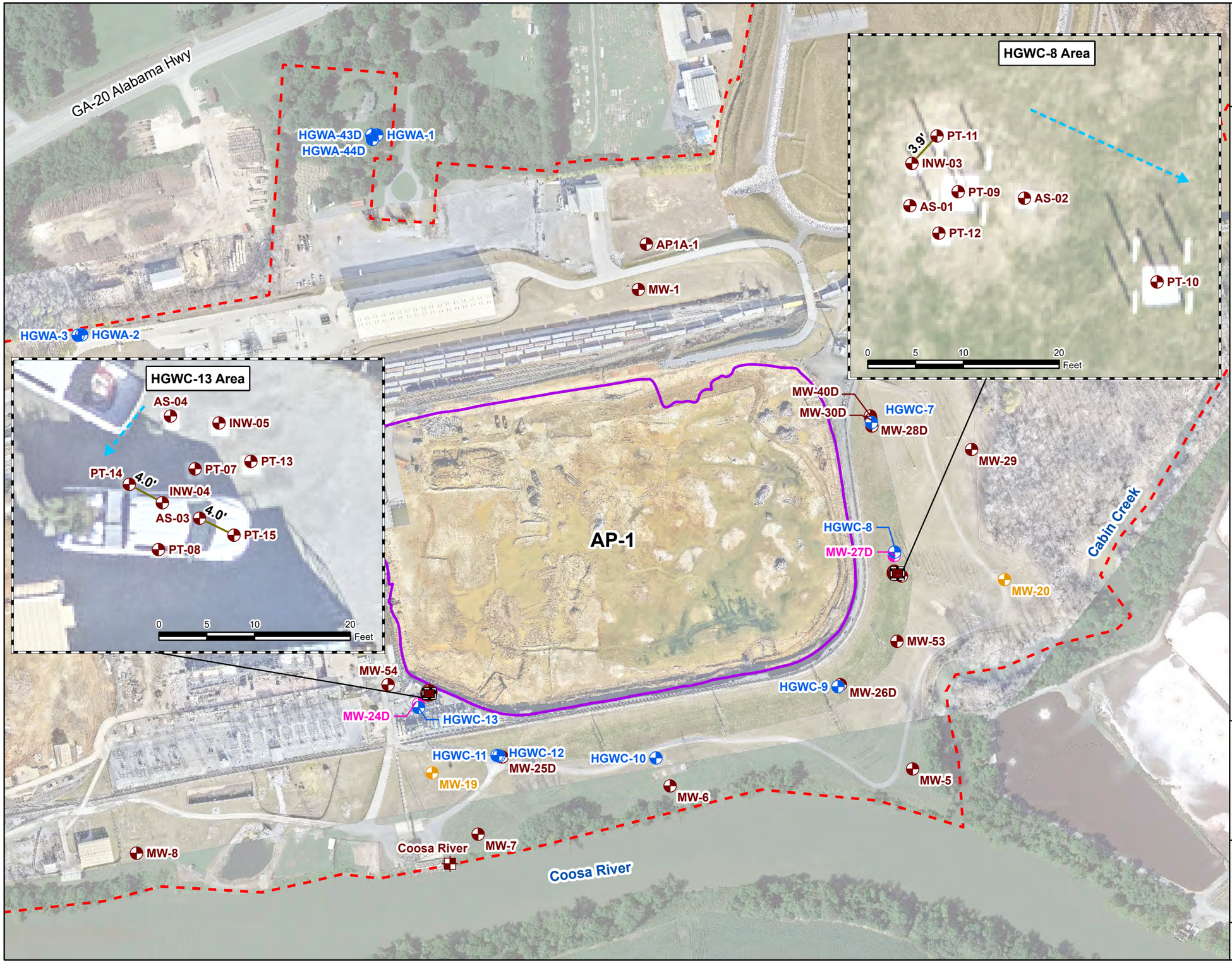
GEORGIA POWER COMPANY
PLANT HAMMOND AP-1
ROME, FLOYD COUNTY, GEORGIA

Prepared For: Georgia Power

Prepared By: Geosyntec consultants

KENNESAW, GA | AUGUST 2025

FIGURE 1



N

LEGEND

- Detection Monitoring Well
- Horizontal Assessment Monitoring Well
- Vertical Assessment Monitoring Well
- Piezometer (see Note 1 and 2)
- Surface Water Level Gauge Point
- Distance Between Well (in feet)
- Approximate Groundwater Flow Direction
- Approximate AP-1 Boundary
- Plant Hammond Property Boundary

Notes:
1. Piezometers AS-01, AS-02, AS-03, AS-04, INW-03, INW-04, INW-05, PT-07, PT-08, PT-09, PT-10, PT-11, PT-12, PT-13, PT-14, PT-15, MW-53 and MW-54 were installed in support of an Assessment of Corrective Measures pre-design investigation and are not included in the monitoring well network.
2. INW-03, INW-04, and INW-05 are temporary pilot study injection wells. AS-01, AS-02, AS-03, and AS-04 are temporary pilot study air sparge wells.
3. Aerial photograph source: Google Earth Pro, August 2019 and Georgia Power Company, January 2024 and January 2025.

0 150 300 600

SCALE IN FEET

PILOT STUDY INJECTION AND PERFORMANCE MONITORING WELL LOCATIONS

GEORGIA POWER COMPANY
PLANT HAMMOND AP-1
ROME, FLOYD COUNTY, GEORGIA

Prepared For: Georgia Power

Prepared By: Geosyntec consultants

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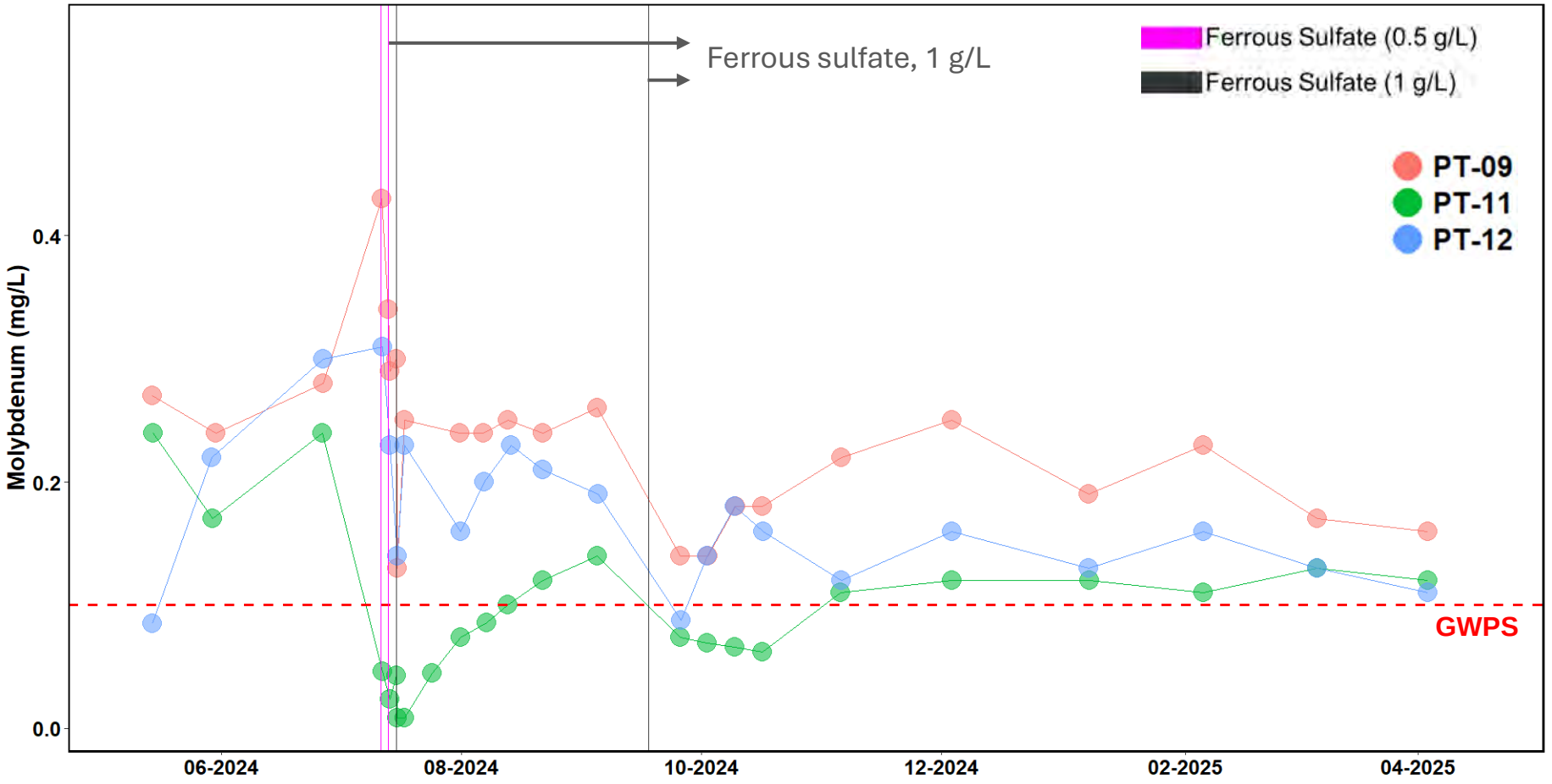
FIGURE 2



Notes:
1. mg/L = milligrams per liter; g/L = grams per liter.
2. The Groundwater Protection Standard (GWPS) for molybdenum is 0.1 mg/L.

FIGURE 3 – HGWC-8 AREA – MOLYBDENUM TIME SERIES

GEORGIA POWER COMPANY
PLANT HAMMOND AP-1
ROME, FLOYD COUNTY, GEORGIA

PREPARED FOR: Georgia Power

PREPARED BY: Geosyntec consultants

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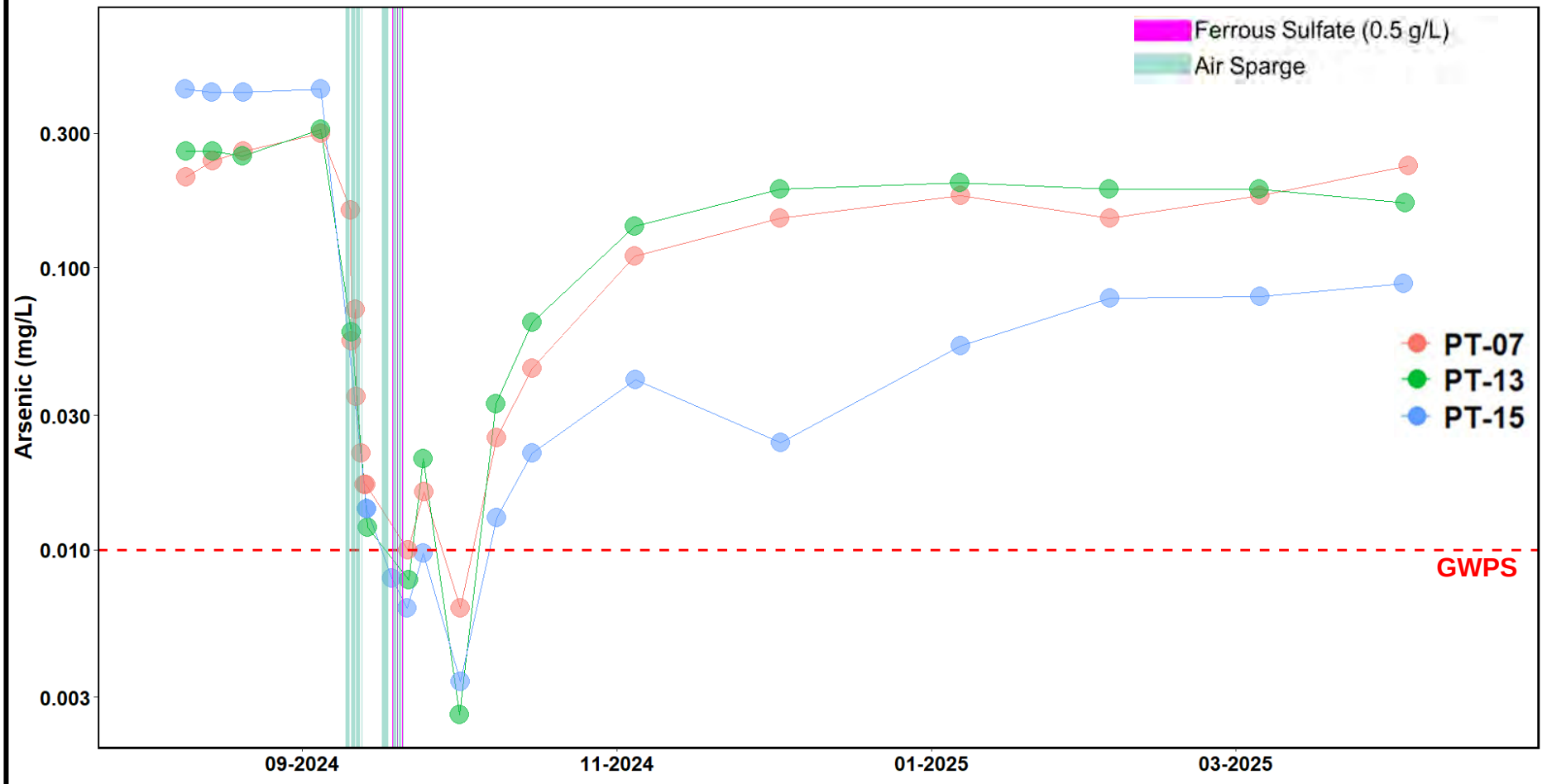

Notes:
1. mg/L = milligrams per liter; g/L = grams per liter.
2. The Groundwater Protection Standard (GWPS) for arsenic is 0.01 mg/L.

FIGURE 4 – HGWC-13 AREA – ARSENIC TIME SERIES

GEORGIA POWER COMPANY
PLANT HAMMOND AP-1
ROME, FLOYD COUNTY, GEORGIA

PREPARED FOR: Georgia Power

PREPARED BY: Geosyntec consultants

KENNESAW, GA | AUGUST 2025

APPENDIX A

2023 and 2024 Pilot Study Post-Injection Event Report, Plant Hammond Ash Pond 1

2023 Pilot Study Post-Injection Event Report, Plant Hammond Ash Pond 1

Prepared for

Georgia Power Company
241 Ralph McGill Blvd NE
Atlanta, Georgia 30308

PILOT STUDY POST-INJECTION EVENT REPORT

PILOT TEST NO. UPT000062
PLANT HAMMOND ASH POND 1 (AP-1)

Prepared by

engineers | scientists | innovators

1255 Roberts Boulevard, Suite 200
Kennesaw, Georgia 30144

Project Number GW6581G

November 2023

Geosyntec
consultants

CERTIFICATION STATEMENT

I hereby certify that this *Pilot Study Post-Injection Event Report* was prepared by, or under the direct supervision of, a Qualified Groundwater Scientist, in accordance with the Georgia Environmental Protection Division Rules of Solid Waste Management. According to 391-3-4-.01, a Qualified Groundwater Scientist is "a professional engineer or geologist registered to practice in Georgia who has received a baccalaureate or post-graduate degree in the natural sciences or engineering and has sufficient training and experience in groundwater hydrology and related fields that enable individuals to make sound professional judgments regarding groundwater monitoring, contaminant fate and transport, and corrective action." The design presented within this workplan was developed in compliance with the Georgia Rules of Solid Waste Management, Chapter 391-3-4.10.

_____ November 7, 2023

Whitney B. Law — Date

Georgia Professional Engineer No. 36641

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LIST OF ACRONYMS

ACM	Assessment of Corrective Measures
AP-1	Ash Pond 1
bgs	below ground surface
Cascade	Cascade Drilling, Inc.
CCR	coal combustion residual
CFR	Code of Federal Regulations
Co	cobalt
DO	dissolved oxygen
DPT	direct push technology
$FeSO_4$	ferrous sulfate
ft	feet
gal	gallons
gpd	gallons per day
gpm	gallons per minute
GA EPD	Georgia Environmental Protection Division
Georgia Power	Georgia Power Company
Geosyntec	Geosyntec Consultants, Inc.
GWPS	Groundwater Protection Standard
IBC	intermediate bulk container
lb	pound
MNA	monitored natural attenuation
mg/L	milligrams per liter
MgO	magnesium oxide
ORP	oxidation-reduction potential
psi	pounds per square inch
PVC	polyvinyl chloride
ROI	radius of influence
SSL	statistically significant level
UIC	Underground Injection Control
US EPA	United States Environmental Protection Agency

1. BACKGROUND AND OBJECTIVES

On behalf of Georgia Power Company (Georgia Power), this *Pilot Study Post-Injection Event Report* (Report) was developed by Geosyntec Consultants, Inc. (Geosyntec) at the request of the Georgia Environmental Protection Division (GA EPD) Wastewater Regulatory Program in their pilot test notification approval, dated August 24, 2023. In-situ geochemical injections, coupled with monitored natural attenuation (MNA), have been proposed as corrective measures to address concentrations of molybdenum (Mo) and arsenic (As) reported at statistically significant levels (SSLs) above Groundwater Protection Standards (GWPS) in detection monitoring wells HGWC-8 and HGWC-13, respectively, at Georgia Power Plant Hammond Ash Pond 1 (AP-1; Site).

Design of in-situ geochemical injection corrective measures includes multiple assessment and design components, including pilot studies to evaluate injection delivery and the performance of injectates prior to implementing a full scale remedy. These pilot tests will collect data that will be used to evaluate:

1. Radius of influence (ROI) of the injected amendment to evaluate future injection point spacing requirements;

2. Sustainable injection pressure and flowrate; and

3. Injectate dosing and efficacy of treating As and Mo in groundwater to below the GWPS.

This Report summarizes the well installation activities completed in June 2023, baseline sampling activities completed in July and August 2023, and injection activities completed in September and October 2023. These field activities were conducted in accordance with the *HGWC-8 Pilot Study Workplan* and the *HGWC-13 Pilot Study Workplan* (collectively referred to herein as "Workplans") (Geosyntec, 2023b, 2023c) associated with the Underground Injection Control (UIC) Pilot Test Notification Form. This Report has been prepared in accordance with requirements stipulated in the August 24, 2023 UIC Program pilot test notification approval letter.

1.1 Site Background

Plant Hammond, shown on **Figure 1**, is located in Floyd County, approximately 10 miles west of Rome, Georgia. Plant Hammond was a four-unit, coal-fired electric generating facility and was retired on July 29, 2019. The physical address of the plant is 5963 Alabama Highway, Rome, Georgia, 30165.

AP-1 is one of four coal combustion residual (CCR) ponds utilized over the course of power generation at Plant Hammond. AP-1 is a 35-acre surface impoundment located near the center of Plant Hammond and was used primarily as a dewatering facility for fly ash and bottom ash. AP-1 closure activities, consisting of closure by removal, have been initiated under GA EPD's approved closure permit No. 057-023D(CCR).

As documented in the *Draft Remedy Selection Report* (Geosyntec, 2022), CCR groundwater monitoring-related activities are performed at AP-1 in accordance with the United States Environmental Protection Agency (US EPA) CCR Rule (federal CCR Rule) (40 Code of Federal Regulations [CFR] 257 Subpart D). The locations of AP-1 detection monitoring wells, assessment monitoring wells, and piezometers are shown on **Figure 2**.

A Mo SSL was identified at detection well HGWC-8 along the eastern boundary of AP-1 and an As SSL was identified at detection monitoring well HGWC-13 along the southwest boundary of AP-1 (**Figure 2**) as part of the assessment monitoring program. These SSLs have been horizontally and vertically delineated to levels below the GWPS (Geosyntec, 2022).

As part of implementing the Assessment of Corrective Measures (ACM) process at AP-1, a high resolution site characterization was conducted in August 2022 for HGWC-8 and February 2023 for HGWC-13, to characterize and refine proposed treatment areas. The results are summarized in the Workplans (GEOS Submittal ID: 778366). The information collected informed the pilot study summarized in this Report.

2. WELL INSTALLATION

Four performance monitoring wells (PT-07 through PT-10) were installed in accordance with the Workplans in June 2023. The locations are shown on **Figure 2** and the well construction details are provided in **Table 1.** Actual screen interval elevations varied by less than 0.7 feet (ft) from the originally proposed depths based on field topographic variations and lithology. A copy of the *Well Design, Installation, and Development Report – Addendum No. 5* detailing the design, installation, and development of these wells is included in **Appendix A**.

Well drilling, installation, and surface completion activities were performed by Cascade Drilling, Inc. (Cascade). The boreholes were advanced using rotosonic drilling techniques with continuous core collection. A Terra Sonic compact crawler size track mounted rig with a 6-inch sonic drill rod was used to install the wells.

3. BASELINE CHARACTERIZATION

Two rounds of groundwater samples were collected from the performance monitoring wells (PT-07 through PT-10) in July and August 2023 to establish pre-injection baseline conditions.

Groundwater samples and water quality field parameters (i.e., pH, conductivity, dissolved oxygen [DO], temperature, and oxidation-reduction potential [ORP]) were collected using low-flow sampling procedures in accordance with the current AP-1 *Groundwater Monitoring Plan* (Geosyntec, 2023a) and the Workplans. Groundwater samples were placed in ice-packed coolers and submitted to Pace Analytical Services, LLC (Pace Analytical) in Peachtree Corners, Georgia, following chain-of-custody protocol. Samples were analyzed for Appendix III and IV constituents, and select geochemical parameters and metals in accordance with the Workplans to support evaluation of injectate efficacy. The results for the July and August 2023 sampling events are presented in **Table 2**. The analytical laboratory results and field sampling and equipment calibration forms are provided in **Appendix B**.

4. INJECTION ACTIVITIES

Injection activities were performed over two shifts between September 25 and October 17, 2023, by Cascade with technical supervision conducted by Geosyntec. A staging and mixing area was established prior to injection. Three-hundred-gallon (gal) cone bottom mixing and storage tanks were set up within a secondary containment berm and spill kits were maintained on-site to manage any spills or daylighting. Injectate consisted of either ferrous sulfate ($FeSO_4$) heptahydrate or magnesium oxide (MgO) obtained from TerraSystems, Inc. mixed with potable water obtained from an on-site fire hydrant that was designated in the Workplans.

Pre-determined quantities of $FeSO_4$ or MgO were measured on a digital scale and combined with potable water in mix tanks. The injectate was mixed using a recirculation pump prior to injection, in accordance with the Workplan, in the 300-gal mix tanks. A pump was used to deliver injectate through steel rods to a 2-ft long steel well screen advanced using direct push technology (DPT) drilling. Injections were initiated at the top of injectable treatment zone and proceeded downward (i.e., top-down). In some injection point borings the DPT injection system was pressurized with potable water while advancing the tooling to prevent clogging of the injection screen with aquifer solids. After reaching the target treatment interval, potable water pressurization was stopped and the injection of injectate was initiated. Injection point boreholes were abandoned to the ground surface with bentonite chips upon completion of the injection boring in accordance with the Workplans.

Injection pressures, flowrates, and water levels in nearby performance monitoring wells were measured throughout injection activities, and the daily maximum injection volume across both pilot study areas was below the value included in the Pilot Test Notification Form (3,500 gal per day [gpd]). A summary of daily injected volumes is included in **Table 3.** Field forms are included in **Appendix C**.

4.1 HGWC-8 Injection Area (East Area)

Injections occurred at four injection locations surrounding PT-09 (located south of HGWC-8 and east of AP-1, as shown on **Figure 2**), starting with IP-05. An initial injection consisting of potable water (i.e., without $FeSO_4$ or MgO) was conducted to verify that injection instrumentation was functioning, no leaks in the system were present, and to assess the aquifer response to pressurized injection. Approximately 500 gal of potable water was injected in each 2-ft interval from 19 to 27 ft below ground surface (bgs).

Following completion of the potable water injections, 850 gal of $1.11x10^{-4}$ pounds per gallon (lb/gal) $FeSO_4$ (or 13 milligrams per liter (mg/L) $FeSO_4$ heptahydrate) was injected in 2-ft intervals from 19 to 27 ft bgs at IP-08, followed sequentially by IP-05, IP-07, and IP-06. Injections in the 17 to 19 ft interval were unsuccessful at all locations due to insufficient transmissivity in the aquifer. A second injection at IP-08 (denoted as IP-08A in field forms) consisting of 0.001% MgO was conducted to assess aquifer response. Prior to initiating the injection of MgO, approximately 1 gal of potable water was observed daylighting. Spilled potable water was addressed in accordance with the Workplans, the injection point was offset approximately 2 ft, and no additional daylighting was observed.

The maximum observed flowrate and injection pressure during HGWC-8 pilot study injections was approximately 6.8 gal per minute (gpm) and 4 pounds per square inch (psi), which were below the maximum proposed values included in the Pilot Test Notification Form[1]. Approximately 2,000 gal of potable water and 17,000 gal of injectate was injected at the four injection locations associated with the HGWC-18 pilot study area over the course of twelve days, with a daily maximum of 2,350 gal injected.

4.2 HGWC-13 Injection Area (Southwest Area)

Starting at IP-01, DPT tooling was advanced at four injection locations surrounding PT-07 (located northeast of HGWC-13 and south of AP-1, as shown on **Figure 2**) using similar means and methods employed near HGWC-8. Consistent with the HGWC-8 pilot study approach, an initial injection consisting of potable water (i.e., without $FeSO_4$ or MgO) was conducted to verify that injection instrumentation was functioning, no leaks in the system were present, and to assess the aquifer response to pressurized injection. Between 55 and 238 gal potable water was injected in each 2-ft intervals starting from 35 ft bgs down to 45 ft bgs. In contrast with the HGWC-8 pilot study are injections, transmissivity varied substantially between injection points with groundwater mounding typically less than 2 ft. As such, smaller volumes were injected in intervals where transmissivity was low and minimal mounding was observed in nearby PT wells.

Following completion of potable water injections, 175 gal of $1.67x10^{-4}$ lb/gal (or 20 mg/L $FeSO_4$ heptahydrate) was injected at IP-04 from 35 to 43 ft bgs and 375 gal from 45 to 49 ft bgs. Injection volumes were increased in intervals 45 to 49 ft bgs[2] based on observed mounding PT-07 and PT-08. At IP-03, 350 gal of $FeSO_4$ was injected in each 2-ft

[1] The proposed injection flowrate and pressure included in the Pilot Test Notification Form for IP-05 through IP-08 were 15 gpm and 4 psi, respectively.
[2] The targeted bottom of the treatment zone was 49 ft based on the surveyed as-built bottom elevation of the PT-07 well screen.

intervals from 35 to 38.5 ft bgs and from 41 to 49 ft bgs[3]. At IP-02, 350 gal $FeSO_4$ was injected in each 2-ft interval from 35 to 39 ft bgs, 50 gal from 39 to 41 ft bgs, and 350 gal from 41 to 48.5 ft bgs[4]. At IP-01, 350 gal FeSO4 was injected in 2-ft intervals from 33 to 41 ft bgs, 50 gal from 41 to 43 ft bgs, and 350 gal from 47 to 49 ft bgs.

The maximum observed flowrate and injection pressure during HGWC-13 pilot study injections was approximately 5 gpm and 11 psi, which were below the maximum proposed values included in the Pilot Test Notification Form[5]. Approximately 818 gal of potable water and 7,625 gal of injectate was injected at the four injection locations associated with the HGWC-13 pilot study area over the course of seven days, with a daily maximum of 1,975 gal injected.

[3] The injection screen was raised to 36.5 to 38.5 ft bgs after encountering insufficient transmissivity at 37 to 39 ft bgs. Similarly, insufficient transmissivity was encountered from 39 to 41 ft bgs.
[4] The injection screen was raised to 46.5 to 48.5 ft bgs after encountering insufficient transmissivity at 47 to 49 ft bgs.
[5] The proposed injection flowrate and pressure included in the Pilot Test Notification Form for IP-01 through IP-04 were 15 gpm and 4 psi, respectively.

5. POST-INJECTION PERFORMANCE MONITORING AND REPORTING

In accordance with the Workplans, groundwater quality data from each performance monitoring event will be directly compared against the Mo and As GWPS and the results of the baseline characterization to evaluate the efficacy of $FeSO_4$ and MgO as a method of remediation. In addition, Appendix IV monitoring parameters[6] will be analyzed and monitored over the duration of the pilot study to evaluate potential localized mobilization of other Appendix IV parameters following injections.

Post-injection performance monitoring was initiated on October 10 and October 17, 2023, for the HGWC-8 and HGWC-13 pilot study areas, respectively, with groundwater samples collected from their respective performance monitoring wells. The monitoring frequency will be weekly for four weeks, then monthly for a period of five months, and finally, quarterly for a period of one year for a maximum total duration of 1.5 years of performance monitoring.

Updates concerning the pilot study results will be reported to GA EPD Solid Waste Management Program as brief summaries included as part of semiannual groundwater monitoring and corrective action reporting. Links to these reports will be emailed to the GA EPD Wastewater Regulatory Program. A comprehensive technical memorandum will be prepared at the conclusion of the pilot study for inclusion in a semiannual groundwater monitoring report.

[6] Excluding radium.

6. REFERENCES

Geosyntec, 2022. *Draft Remedy Selection Report, Georgia Power Company, Plant Hammond Ash Pond 1 (AP-1).* August 2022.

Geosyntec, 2023a. *Groundwater Monitoring Plan – Plant Hammond Ash Pond 1 (AP-1)*. July 2023, revision 2.

Geosyntec, 2023b. *HGWC-8 Pilot Study Workplan, Plant Hammond Ash Pond 1 (AP-1).* August 2023.

Geosyntec, 2023c. *HGWC-13 Pilot Study Workplan, Plant Hammond Ash Pond 1 (AP-1).* August 2023.

TABLES

Table 1
Summary of Well Construction Details
Plant Hammond AP-1, Floyd County, Georgia

Pilot Study Area	Well ID	Well Completion	Installation Date	Northing [1]	Easting [1]	Ground Surface Elevation [2] (ft)	Top of Casing Elevation [2] (ft)	Top of Screen Elevation (ft)	Bottom of Screen Elevation (ft)	Well Depth (ft bgs) [3]	Screen Interval Length (ft)
HGWC-13 (Southwest Area)	PT-07	Flush Mount	6/3/2023	1548675.24	1940933.39	592.00	591.75	554.40	544.30	48.00	10
	PT-08	Flush Mount	6/3/2023	1548666.82	1940929.58	592.10	591.83	560.20	550.20	42.20	10
HGWC-8 (East Area)	PT-09	Protective Riser	6/1/2023	1549049.74	1942393.11	577.33	580.35	560.18	550.18	27.45	10
	PT-10	Protective Riser	6/1/2023	1549040.34	1942413.88	577.39	580.44	560.29	550.29	27.40	10

Notes:

ft bgs = feet below ground surface.

(1) Coordinates in North American Datum (NAD) 1983, State Plane, Georgia-West, feet. Survey was completed by GEL Solutions and certified July 17, 2023, and August 30, 2023.

(2) Vertical elevations are referenced to the North American Vertical Datum (NAVD) of 1988. Ground surface elevation defined at the survey nail installed within the well pad. Survey was completed by GEL Solutions and certified July 17, 2023, and August 30, 2023.

(3) Total well depth accounts for 0.3 ft sump.

Table 2
Summary of Baseline Groundwater Analytical Data
Plant Hammond AP-1, Floyd County, Georgia

	Pilot Study Area:	Southwest Area				East Area			
	Well ID:	PT-07	PT-07	PT-08	PT-08	PT-09	PT-09	PT-10	PT-10
	Sample Date:	7/13/2023	8/9/2023	7/13/2023	8/9/2023	7/13/2023	8/9/2023	7/13/2023	8/9/2023
	Parameter [1,2,3]								
APPENDIX III	Boron	1.0	0.93	1.0	0.99	2.1	1.6	2.2	2.1
	Calcium	168	173	161	146	110	136	127	116
	Chloride	15.7	13.5	17.0	14.5	55.3	47.5	67.2	62.5
	Fluoride	0.36	0.28	0.36	0.27	0.24	0.26	0.33	0.27
	pH	6.76	6.82	6.66	6.82	6.57	6.89	7.01	7.18
	Sulfate	411	339	417	290	160	188	145	123
	TDS	808	771	734	682	534	594	557	553
APPENDIX IV	Antimony	<0.0012	<0.0012	<0.0012	<0.0012	0.0027 J	<0.0012	<0.0012	<0.0012
	Arsenic	0.34	0.27	0.33	0.32	<0.0037	<0.0037	<0.0037	<0.0037
	Barium	0.056	0.053	0.051	0.050	0.053	0.057	0.074	0.070
	Beryllium	0.00012 J	0.000095 J	0.00011 J	0.000073 J	0.000077 J	<0.000054	<0.000054	<0.000054
	Cadmium	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011
	Chromium	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011
	Cobalt	0.13	0.090	0.031	0.032	0.0045 J	0.0028 J	0.0026 J	0.0019 J
	Fluoride	0.36	0.28	0.36	0.27	0.24	0.26	0.33	0.27
	Lead	<0.00012	<0.00012	0.00019 J	<0.00012	0.00014 J	<0.00012	<0.00012	<0.00012
	Lithium	0.060	0.069	0.065	0.073	0.0013 J	0.0017 J	0.0014 J	0.0012 J
	Mercury	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013
	Molybdenum	0.017	0.012	0.0079 J	0.0071 J	0.065	0.21	0.10	0.096
	Selenium	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014
	Thallium	0.00024 J	0.00022 J	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018
INORGANICS	Alkalinity (Bicarbonate) as $CaCO_3$	102	116	107	118	144	150	185	199
	Alkalinity (Carbonate) as $CaCO_3$	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	Alkalinity (Total) as $CaCO_3$	102	116	107	118	144	150	185	199
	Sodium	6.1	7.2	6.9	6.8	10.6	10.3	10.5	9.4
	Sulfide	<0.022	<0.022	0.036 J	<0.022	<0.022	<0.022	<0.022	0.045 J
METALS	Iron	23.8	27.1	24.2	22.0	0.33	0.10	3.1	2.9
	Magnesium	18.5	19.4	18.9	17.3	15.6	18.2	16.8	16.8
	Manganese	8.2	7.6	8.7	6.8	0.79	0.51	3.5	3.1
	Potassium	6.0	6.8	6.0	6.3	6.8	7.7	7.1	6.7
FIELD	Dissolved Oxygen	0.30	0.40	0.09	0.94	0.02	0.58	0.03	0.12
	Oxidation-Reduction Potential (mV)	-111	-90.9	-124.9	-84.4	18.4	14.4	-161.5	-80.9
	Temperature (°C)	27.26	21.19	24.53	20.60	24.48	21.59	21.95	21.79
	Specific Conductance (µS/cm)	1065	1012	1007	909.2	779.8	826.9	842.2	770.5
	pH (s.u.)	6.76	6.82	6.66	6.82	6.57	6.89	7.01	7.18
	Turbidity (NTU)	4.91	0.18	4.41	3.98	4.95	0.56	4.94	4.55

Notes:
< = Indicates the parameter was not detected above the analytical method detection limit (MDL).
°C = degrees Celsius
J = Indicates the parameter was estimated and detected between the MDL and the reporting limit (RL).
µS/cm = microsiemens per centimeter
mV = millivolts
NTU = nephelometric turbidity units
s.u. = standard units
TDS = Total dissolved solids
(1) Appendix III/IV parameter per 40 CFR 257 Subpart D. Analysis of combined radium omitted from the pilot study monitoring program. Unless otherwise indicated, parameters are reported in units of milligrams per liter (mg/L).
(2) Metals were analyzed by EPA Method 6010D, 6020B, and 7470A, anions were analyzed by EPA Method 300.0, TDS was analyzed by SM2540C-2015, and combined radium 226/228 by EPA Methods 9315/9320.
(3) The pH value presented was recorded at the time of sample collection in the field.

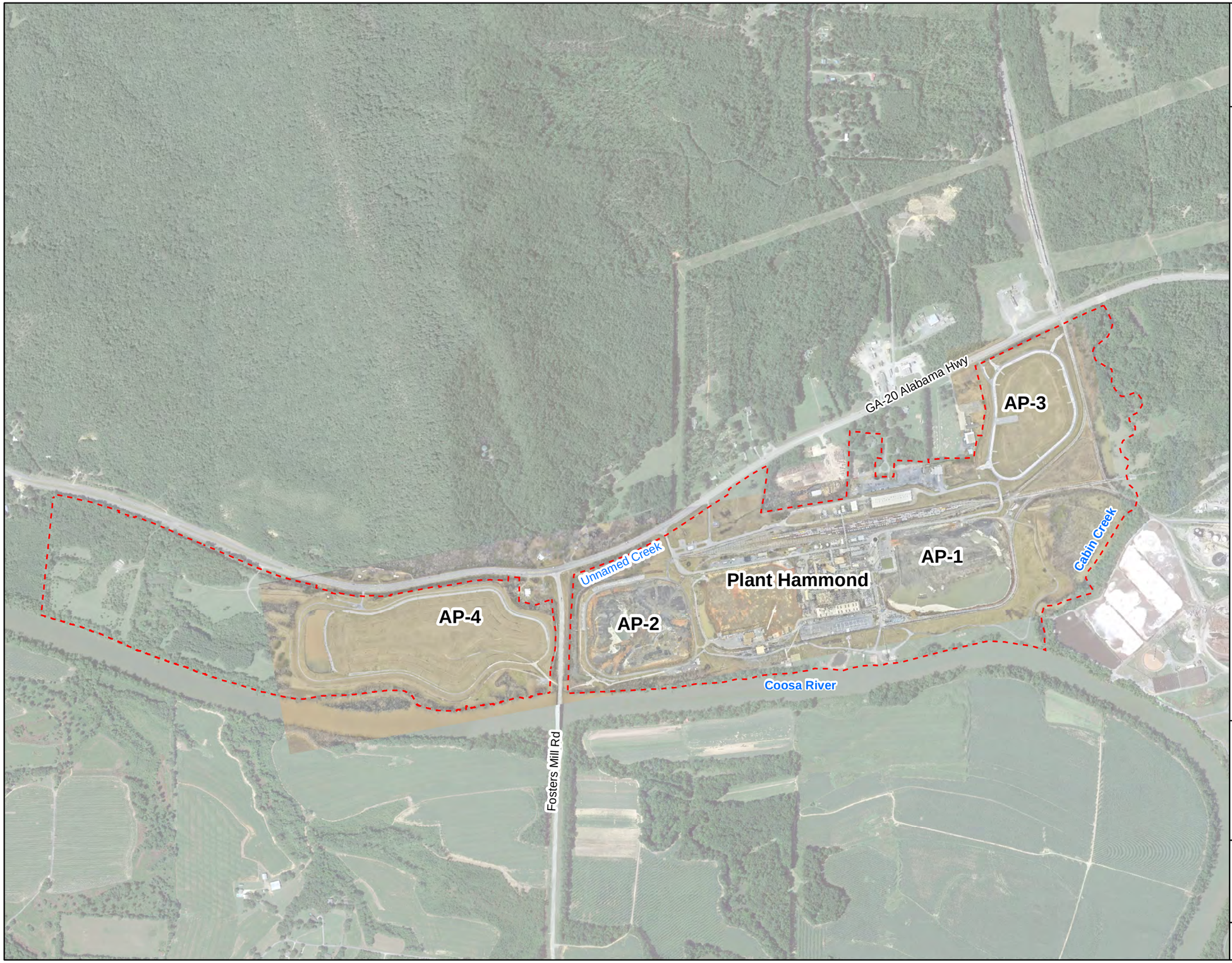
Table 3

Summary of Daily Injection Volumes
Plant Hammond AP-1, Floyd County, Georgia

Date	Daily Injection Volume (gal)	
	HGWC-8 (East Area)	HGWC-13 (Southwest Area)
9/25/2023*	500	--
9/26/2023*	1,500	--
09/27/2023	2,200	--
09/28/2023	2,250	--
09/29/2023	2,350	--
09/30/2023	2,000	--
10/01/2023	2,250	--
10/02/2023	2,300	--
10/03/2023	250	--
10/4/2023*	--	238
10/9/2023*	--	580
10/10/2023	--	1,050
10/11/2023	--	1,575
10/12/2023	--	1,975
10/13/2023	--	1,400
10/14/2023	--	1,625
10/15/2023	735	--
10/16/2023	2,080	--
10/17/2023	585	--
TOTAL:	**19,000**	**8,443**

Notes:
-- = indicates no injections occurred on this date
* = injection consisted of potable water
gal = gallons

FIGURES



N

LEGEND

Plant Hammond Property Boundary

Note:
1. Aerial photograph source: Google Earth Pro, August 2019 and Georgia Power Company, February 2023.

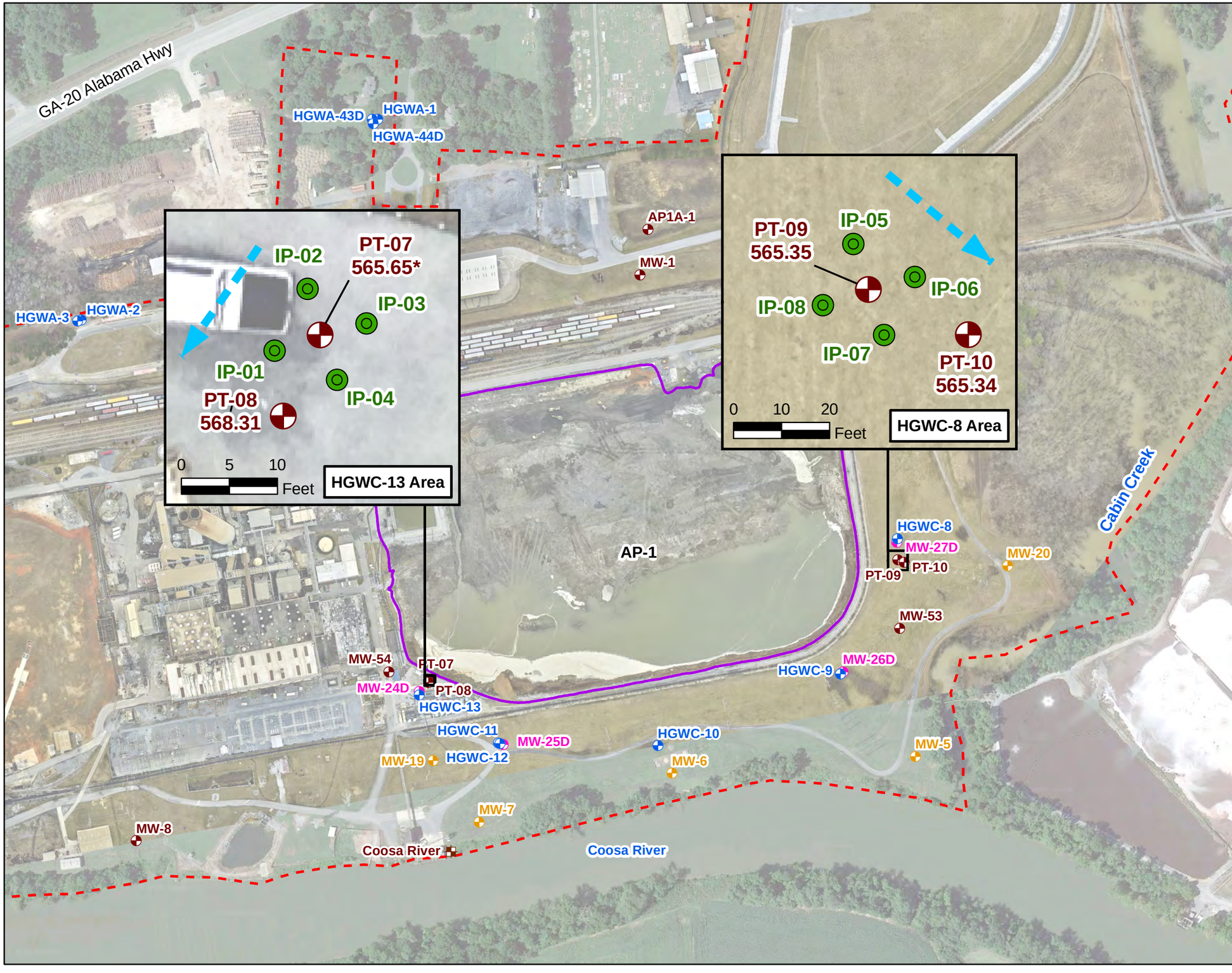
0 625 1,250 2,500

SCALE IN FEET

SITE LOCATION MAP

GEORGIA POWER COMPANY
PLANT HAMMOND AP-1
ROME, FLOYD COUNTY, GEORGIA

Prepared For: Georgia Power		**FIGURE 1**
Prepared By: Geosyntec consultants		
KENNESAW, GA	NOVEMBER 2023	



N

LEGEND

- Detection Monitoring Well
- Horizontal Assessment Monitoring
- Vertical Assessment Monitoring
- Piezometer (See Note 2)
- Surface Water Level Gauge Point
- Injection Point
- Approximate Groundwater Flow Direction
- Approximate AP-1
- Plant Hammond Property Boundary

Notes:
1. Piezometers PT-07, PT-08, PT-09, PT-10, MW-53 and MW-54 were installed in support of an Assessment of Corrective Measures geochemical injections pilot study and are not included in the routine semiannual sampling of the monitoring well network.
2. Piezometer water elevations for PT-07 through PT-09 were recorded on August 7, 2023. Elevation are in feet (ft) referenced to the North American Vertical Datum of 1998 (NAVD 88).
3. "*" - The groundwater flow direction in this area is based on historical data for the site and does not consider PT-07.
4. Aerial photograph source: Google Earth Pro, August 2019, and Georgia Power Company, February 2023.

0 150 300 600

SCALE IN FEET

PILOT STUDY INJECTION POINT AND MONITORING WELL LOCATIONS

GEORGIA POWER COMPANY
PLANT HAMMOND AP-1
ROME, FLOYD COUNTY, GEORGIA

Prepared For: Georgia Power

Prepared By: Geosyntec consultants

KENNESAW, GA | NOVEMBER 2023

FIGURE 2

APPENDIX A

Well Design, Installation, and Development Report – Addendum No. 5

Prepared for

Georgia Power Company
241 Ralph McGill Blvd NE
Atlanta, Georgia 30308

WELL DESIGN, INSTALLATION, AND DEVELOPMENT REPORT - ADDENDUM No. 5

PLANT HAMMOND ASH POND 1 (AP-1)

Prepared by

engineers | scientists | innovators

1255 Roberts Boulevard, Suite 200
Kennesaw, Georgia 30144

Project Number GW6581E

October 2023

Georgia Power

CERTIFICATION PAGE

I hereby certify that this *Well Design, Installation, and Development Report – Addendum No. 5, Plant Hammond Ash Pond 1 (AP-1)* has been prepared by, or under the direct supervision of, a Qualified Groundwater Scientist with Geosyntec Consultants, Inc. and is in compliance with the United States Environmental Protection Agency Coal Combustion Residual Rule [40 Code of Federal Regulations 257 Subpart D], specifically §257.91(e)(1), and the Georgia Environmental Protection Division Rules for Solid Waste Management 391-3-4-.10.

According to 391-3-4-.01, a Qualified Groundwater Scientist is "a professional engineer or geologist registered to practice in Georgia who has received a baccalaureate or post-graduate degree in the natural sciences or engineering and has sufficient training and experience in groundwater hydrology and related fields that enable individuals to make sound professional judgments regarding groundwater monitoring, contaminant fate and transport, and corrective action."

October 3, 2023

Christine Hug P.G. Date
Georgia Professional Geologist No. 002221
Project Manager
Geosyntec Consultants

Geosyntec
consultants

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Appendix B Boring and Well Construction Logs
Appendix C Well Development and Equipment Calibration Forms
Appendix D Certified Well Survey Data

LIST OF ACRONYMS

AP	Ash Pond
ASTM	American Society for Testing and Materials
CCR	coal combustion residual
CFR	Code of Federal Regulations
CFS	Civil Field Services
DO	dissolved oxygen
GA EPD	Georgia Environmental Protection Division
Georgia Power	Georgia Power Company
NAD	North America Datum
NAVD	North American Vertical Datum
NSF	National Sanitation Foundation
ORP	oxygen reduction potential
PVC	polyvinyl chloride
SCS	Southern Company Services
TOC	top of casing
US EPA	United States Environmental Protection Agency

1. INTRODUCTION

This report provides details regarding the design, installation, and development of six piezometers[1] (MW-53, MW-54, PT-07, PT-08, PT-09, and PT-10) to supplement the current groundwater monitoring system at Georgia Power Company (Georgia Power) Plant Hammond (Site) Ash Pond 1 (AP-1). The report was prepared as an addendum to previously submitted well design, installation, development and decommissioning reports issued for the Site (ERM, 2017; Geosyntec 2019, 2020a, 2020b, and 2020c), and meets the requirements promulgated in the United States Environmental Protection Agency (US EPA) coal combustion residual (CCR) rule [40 Code of Federal Regulations (CFR) Part 257, Subpart D], specifically 40 CFR §257.91(e)(1) and Georgia Environmental Protection Division (GA EPD) Rules for Solid Waste Management 391-3-4-.10.

Plant Hammond is located in Floyd County, approximately 10 miles west of Rome, Georgia. The current groundwater monitoring system at AP-1 includes a network of detection monitoring wells, assessment monitoring wells, and piezometers. The locations of these wells and piezometers are shown on **Figure 1**.

MW-53 and MW-54 were installed to characterize site conditions. PT-07, PT-08, PT-09, and PT-10 were installed to specifically monitor the performance of the pilot study injections in support of the Assessment of Corrective Measures program.

[1] For the purposes of this report, unless otherwise specified, the term "well" will be used interchangeably with "piezometer".

2. DRILLING AND WELL INSTALLATION

Well installation and development activities were performed according to accepted industry standards and following guidelines within the Manual for Groundwater Monitoring (GA EPD, 1991). Well drilling, installation, and surface completion activities were performed by Cascade Drilling, Inc. of Midland, North Carolina. In accordance with the Georgia Water Well Standards Act, the driller was required to have an insurance bond on file with the State of Georgia at the time of drilling. A copy of this bond is provided in **Appendix A**. A geologist under the supervision of a professional geologist (PG) registered to practice in the State of Georgia, both of whom are employed with Geosyntec Consultants (Geosyntec), documented the drilling and installation efforts to record observations, soil and rock descriptions, subsurface stratigraphy, water elevations, and other field activities. Geosyntec was also responsible for the development of the newly installed wells.

The locations of the new piezometers are shown on **Figure 1**. Well construction details are provided in **Table 1**; boring and well construction logs are included in **Appendix B**.

2.1 Drilling Method

The boreholes were advanced using rotosonic drilling techniques with continuous core collection. Terra Sonic compact crawler size track mounted rig with a 6-inch sonic drill rod was used to install the wells. Care was taken so that the drilling methods did not introduce contamination of the groundwater from surface activities. Drilling equipment was cleaned prior to mobilizing to the site.

2.2 Screened Interval

Details regarding the well screened intervals are provided in **Table 1**. The wells are screened in the uppermost water bearing unit of the Site. Screened elevations across the new wells range from approximately 564.98 to 544.30 feet (referenced to the North American Vertical Datum of 1988). The wells were constructed with a 10 foot well screen segment.

2.3 Well Casings and Screens

The wells were constructed of 2-inch inner diameter Schedule 40 polyvinyl chloride (PVC) casing with flush-threaded fittings. The wells were installed with a 10-foot nominal length pre-packed dual-wall well screen with 0.010-inch slots. The casing and

pre-packed screens arrived pre-cleaned and packaged by the manufacturer. The pre-packed well screens were constructed onsite by packing sand between slotted PVC and the well screen. Well construction materials are sufficiently durable to resist chemical and physical degradation and do not interfere with the quality of groundwater samples. Casing and screen are flush-threaded. Solvent or glue was not used to construct the wells. A threaded bottom cap was attached to the bottom of each well screen. The PVC products used were American Society for Testing and Materials (ASTM) and National Sanitation Foundation (NSF) rated. Well screen interval details are provided in **Table 1**.

2.4 Well Intake Design

The wells were designed and constructed to: (1) allow sufficient groundwater flow to the well for sampling; (2) minimize the passage of formation materials (turbidity) into the well; and (3) ensure sufficient structural integrity to prevent collapse of the well. The annular space between the face of the formation and the screens was filled to minimize passage of formation materials into the well. A filter pack of clean, well-rounded, quartz sand was installed in each well. The 0.01-inch slot size was selected to minimize the inflow of formation material without impairing influent groundwater flow.

2.5 Filter Pack

Highly Pure Quartzite of Consolidated Aggregates Co. silica sand filter pack was used as the appropriate gradation for the wells. The filter pack material meets the ASTM D5092 uniformity coefficient specification of 2.5 or less, with a uniformity coefficient of 1.6.

Filter pack material was placed within the pre-packed dual-wall well screens and in the annular space between the outside of the pre-pack screen and borehole wall to ensure an adequate thickness of filter pack material between the wells and the formation. Placement of the filter pack between the borehole wall and PVC was placed via gravity-pouring. Filter pack material placed in the annular space outside of the well screens extended approximately 2 feet above the top of screens. No bridging occurred during filter pack placement at any of the well locations.

Upon placement of the filter pack, the wells were pumped with a submersible pump to assure settlement of the filter pack. The top of filter pack depth was measured following pumping to ensure appropriate extension of filter sand above the screens. The depth of top of filter pack was measured and recorded on the well construction logs provided in **Appendix B**.

2.6 Annular Seal

A minimum of two feet of bentonite chips (PelPlug un-coated 3/8-inch bentonite pellets) were placed immediately above the filter pack by gravity-pouring into the annular space and hydrated per manufacture's specifications. A tremie pipe was used to probe the annular space to ensure that no bridging occurred. The bentonite was hydrated with potable water for a duration meeting the manufacture's specifications prior to grouting the remaining annulus.

The annulus above the bentonite seal was grouted with AquaGuard bentonite grout placed via tremie pipe and direct pour methods from the top of the bentonite seal. During grouting, care was taken to assure that the bentonite seal was not disturbed by locating the base of the tremie pipe approximately 2 feet above the bentonite seal and injecting grout at low pressure/velocity. A cement apron 4-feet by 4-feet by 4-inches was poured around the protective risers at wells MW-53, PT-09, and PT-10. A cement apron 2-feet by 2-feet by 4-inches was poured around flush mount wells PT-07, PT-08, and MW-54. The pads were mounded slightly outward to direct surface drainage away from the wells.

2.7 Cap and Protective Casing

The well risers at MW-53, PT-09, and PT-10 were fitted with a locking cap and a lockable cover. A one-quarter inch vent hole was drilled into the PVC riser pipes to provide an avenue for the escape of gas. A weep hole was drilled in the outer protective casing near the bottom above the concrete pad. Pea gravel was placed inside the protective casing between the riser pipe and the outer casing. The wells were clearly marked with the proper well identification number on the stand-up casing. The lockable cover guards the casing from damage and the locking caps serve as a security device to prevent well tampering. Bollards were installed around MW-53, and well cluster PT-09, and PT-10 to protect the general well area.

MW-54, PT-07, and PT-08 were installed with flush-mounted well vaults and watertight flush-mounted well covers. The wells were clearly marked with the proper well identification number on a secured aluminum well tag on the manhole covers.

Construction details are documented on the well construction logs provided in **Appendix B**.

3. WELL DEVELOPMENT

The wells were developed using a combination of surging and pumping to (1) restore the natural hydraulic conductivity of the formation, and (2) to remove fine-grained sediment to ensure low-turbidity groundwater samples. The wells were alternately surged and purged until visually clear of particulates. Turbidity, pH, temperature, conductivity, oxidation-reduction potential (ORP), and dissolved oxygen (DO) measurements were recorded to ensure that each well was fully developed. The well development and calibration field forms are included in **Appendix C**.

4. SURVEY

Upon completion of the well installations, select horizontal locations and vertical elevations were surveyed by a Georgia-licensed surveyor. The top of the PVC well casing [top of casing (TOC) elevation] and the survey pin installed at the well pads were surveyed to within 0.5-foot horizontal accuracy and to 0.01-foot vertical accuracy. The horizontal location (i.e., northings and eastings) was recorded in feet relative to the North America Datum of 1983 (NAD) with the vertical elevation recorded in feet relative to the North American Vertical Datum of 1988. Certified survey data are provided in the well construction table (**Table 1**). A copy of the certified well survey data for the new wells are provided in **Appendix D**.

5. REFERENCES

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TABLE

Table 1
Summary of Well Construction Details
Plant Hammond AP-1, Floyd County, Georgia

Well ID	Purpose	Well Completion	Installation Date	Northing [1]	Easting [1]	Ground Surface Elevation [2] (ft)	Top of Casing Elevation [2] (ft)	Top of Screen Elevation (ft)	Bottom of Screen Elevation (ft)	Well Depth (ft bgs) [3]
PT-07	Piezometer	Flush Mount	6/3/2023	1548675.24	1940933.39	592.00	591.75	554.40	544.30	48.00
PT-08	Piezometer	Flush Mount	6/3/2023	1548666.82	1940929.58	592.10	591.83	560.20	550.20	42.20
PT-09	Piezometer	Protective Riser	6/1/2023	1549049.74	1942393.11	577.33	580.35	560.18	550.18	27.45
PT-10	Piezometer	Protective Riser	6/1/2023	1549040.34	1942413.88	577.39	580.44	560.29	550.29	27.40
MW-53	Piezometer	Protective Riser	6/2/2023	1548835.51	1942399.62	577.64	580.59	554.54	544.54	33.40
MW-54	Piezometer	Flush mount	6/2/2023	1548699.51	1940805.03	592.98	592.66	564.98	554.98	38.30

Notes:

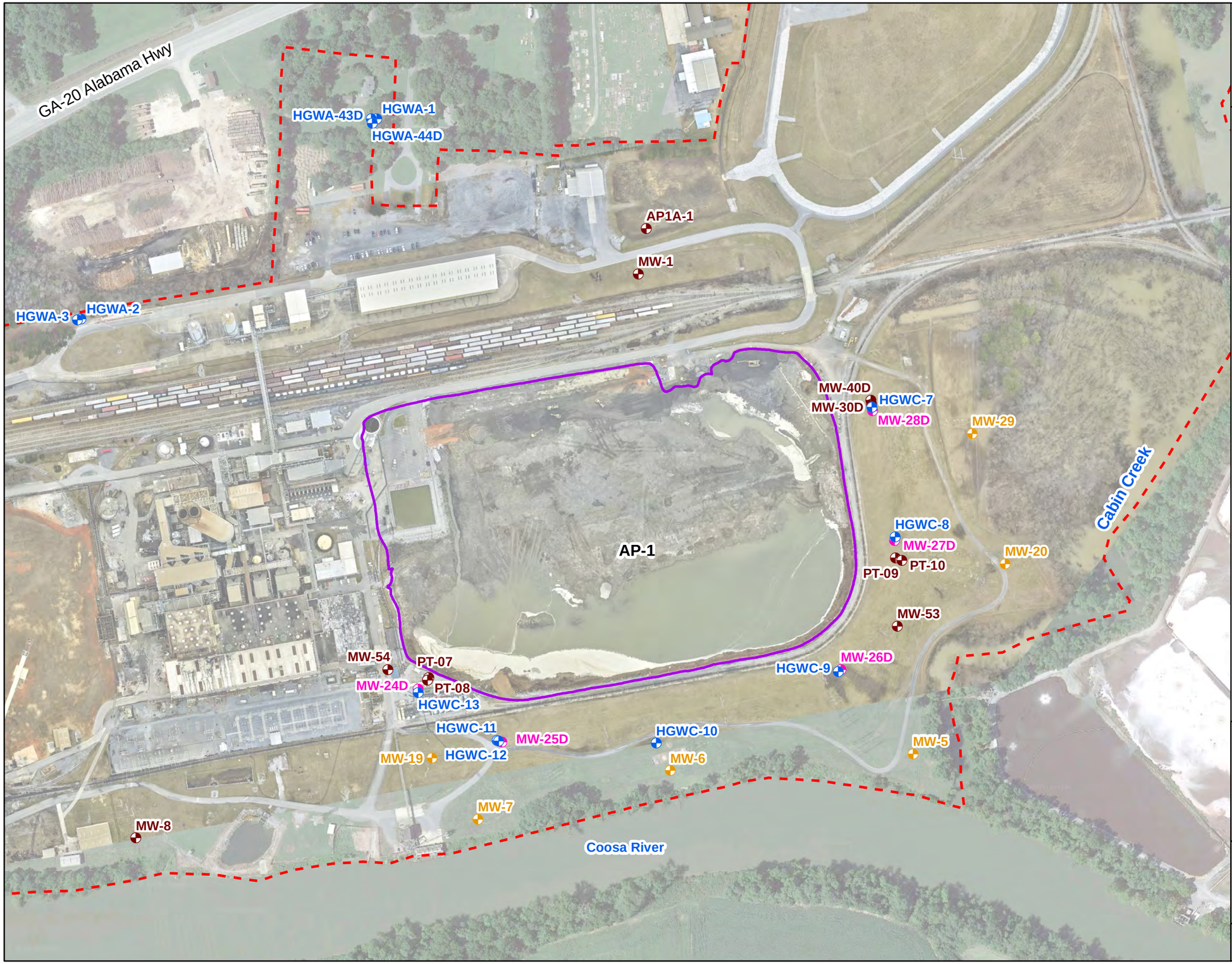
ft bgs = feet below ground surface.

(1) Coordinates in North American Datum (NAD) 1983, State Plane, Georgia-West, feet. Survey was completed by GEL Solutions and certified July 17, 2023, and August 30, 2023.

(2) Vertical elevations are referenced to the North American Vertical Datum (NAVD) of 1988. Ground surface elevation defined at the survey nail installed within the well pad.
Survey was completed by GEL Solutions and certified July 17, 2023, and August 30, 2023.

(3) Total well depth accounts for 0.3 ft sump.

FIGURE



N

LEGEND

- Detection Monitoring Well
- Horizontal Assessment Monitoring Well
- Vertical Assessment Monitoring Well
- Piezometer
- Approximate AP-1 Boundary
- Plant Hammond Property Boundary

Notes:

1. Aerial photograph source: Google Earth Pro, August 2019, and Georgia Power Company, February 2023.

0 150 300 600

SCALE IN FEET

GROUNDWATER MONITORING NETWORK MAP

GEORGIA POWER COMPANY
PLANT HAMMOND AP-1
ROME, FLOYD COUNTY, GEORGIA

Prepared For: Georgia Power

Prepared By: Geosyntec consultants

KENNESAW, GA | OCTOBER 2023

FIGURE 1

APPENDIX A

Well Driller Performance Bonds

CONTINUATION
CERTIFICATE

Atlantic Specialty Insurance Company , Surety upon

a certain Bond No. 800033976

dated effective September 27, 2017
(MONTH-DAY-YEAR)

on behalf of Ricky Davis / Cascade Drilling, L.P.
(PRINCIPAL)

and in favor of Department of Natural Resources, State of Georgia
(OBLIGEE)

does hereby continue said bond in force for the further period

beginning on June 30, 2023
(MONTH-DAY-YEAR)

and ending on June 30, 2025
(MONTH-DAY-YEAR)

Amount of bond Thirty Thousand and 00/100 Dollars ($30,000.00)

Description of bond Performance Bond for Water Well Contractors

Premium:

PROVIDED: That this continuation certificate does not create a new obligation and is executed upon the express condition and provision that the Surety's liability under said bond and this and all Continuation Certificates issued in connection therewith shall not be cumulative and that the said Surety's aggregate liability under said bond and this and all such Continuation Certificates on account of all defaults committed during the period (regardless of the number of years) said bond had been and shall be in force, shall not in any event exceed the amount of said bond as hereinbefore set forth.

Signed and dated on April 13, 2023
(MONTH-DAY-YEAR)

Atlantic Specialty Insurance Company

By _____
ATTORNEY-IN-FACT Carlos A. Albelo

intact INSURANCE

Power of Attorney

KNOW ALL MEN BY THESE PRESENTS, that ATLANTIC SPECIALTY INSURANCE COMPANY, a New York corporation with its principal office in Plymouth, Minnesota, does hereby constitute and appoint: **Megan Sivley, Melissa Haddick, Sandra Parker, Orlando Aguirre, Stacy Killebrew, Carlos A. Albelo**, each individually if there be more than one named, its true and lawful Attorney-in-Fact, to make, execute, seal and deliver, for and on its behalf as surety, any and all bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof; provided that no bond or undertaking executed under this authority shall exceed in amount the sum of: **unlimited** and the execution of such bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof in pursuance of these presents, shall be as binding upon said Company as if they had been fully signed by an authorized officer of the Company and sealed with the Company seal. This Power of Attorney is made and executed by authority of the following resolutions adopted by the Board of Directors of ATLANTIC SPECIALTY INSURANCE COMPANY on the twenty-fifth day of September, 2012:

Resolved: That the President, any Senior Vice President or Vice-President (each an "Authorized Officer") may execute for and in behalf of the Company any and all bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof, and affix the seal of the Company thereto; and that the Authorized Officer may appoint and authorize an Attorney-in-Fact to execute on behalf of the Company any and all such instruments and to affix the Company seal thereto; and that the Authorized Officer may at any time remove any such Attorney-in-Fact and revoke all power and authority given to any such Attorney-in-Fact.

Resolved: That the Attorney-in-Fact may be given full power and authority to execute for and in the name and on behalf of the Company any and all bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof, and any such instrument executed by any such Attorney-in-Fact shall be as binding upon the Company as if signed and sealed by an Authorized Officer and, further, the Attorney-in-Fact is hereby authorized to verify any affidavit required to be attached to bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof.

This power of attorney is signed and sealed by facsimile under the authority of the following Resolution adopted by the Board of Directors of ATLANTIC SPECIALTY INSURANCE COMPANY on the twenty-fifth day of September, 2012:

Resolved: That the signature of an Authorized Officer, the signature of the Secretary or the Assistant Secretary, and the Company seal may be affixed by facsimile to any power of attorney or to any certificate relating thereto appointing an Attorney-in-Fact for purposes only of executing and sealing any bond, undertaking, recognizance or other written obligation in the nature thereof, and any such signature and seal where so used, being hereby adopted by the Company as the original signature of such officer and the original seal of the Company, to be valid and binding upon the Company with the same force and effect as though manually affixed.

IN WITNESS WHEREOF, ATLANTIC SPECIALTY INSURANCE COMPANY has caused these presents to be signed by an Authorized Officer and the seal of the Company to be affixed this first day of January, 2023.

ATLANTIC SPECIALTY INSURANCE COMPANY CORPORATE SEAL 1986 NEW YORK

By _____
Sarah A. Kolar, General Counsel

STATE OF MINNESOTA
HENNEPIN COUNTY

On this first day of January, 2023, before me personally came Sarah A. Kolar, General Counsel of ATLANTIC SPECIALTY INSURANCE COMPANY, to me personally known to be the individual and officer described in and who executed the preceding instrument, and she acknowledged the execution of the same, and being by me duly sworn, that she is the said officer of the Company aforesaid, and that the seal affixed to the preceding instrument is the seal of said Company and that the said seal and the signature as such officer was duly affixed and subscribed to the said instrument by the authority and at the direction of the Company.

ALISON DWAN NASH-TROUT
NOTARY PUBLIC - MINNESOTA
My Commission Expires
January 31, 2026

_____
Notary Public

I, the undersigned, Secretary of ATLANTIC SPECIALTY INSURANCE COMPANY, a New York Corporation, do hereby certify that the foregoing power of attorney is in full force and has not been revoked, and the resolutions set forth above are now in force.

Signed and sealed. Dated 13th day of April, 2023.

ATLANTIC SPECIALTY INSURANCE COMPANY CORPORATE SEAL 1986 NEW YORK

This Power of Attorney expires
January 31, 2025

_____
Kara Barrow, Secretary

Please direct bond verifications to surety@intactinsurance.com

APPENDIX B

Boring and Well Construction Logs

Geosyntec consultants
engineers | scientists | innovators

PT-07

CLIENT Southern Company Services
PROJECT NAME Plant Hammond Well Installation
PROJECT NUMBER GW6581E
PROJECT LOCATION Plant Hammond
DATE STARTED 06/03/23 **COMPLETED** 06/03/23
NORTHING 1548675.24 ft **EASTING** 1940933.39 ft
DRILLER Cascade Drilling
GROUND ELEVATION 592.00 ft **BORING DIAMETER** 6 in.
DRILLING METHOD Sonic
TOP OF CASING ELEVATION 591.75 ft
SAMPLING METHOD Sonic Core
GEOPHYSICAL CONTRACTOR ---
RIG TYPE Terrasonic Compact Crawler
LOGGED BY T. Kessler **CHECKED BY** C. Hug

DEPTH (ft)	ELEVATION (ft)	REMARKS	MATERIAL DESCRIPTION	CONSTRUCTION DIAGRAM
0	590	Air knifed material	SILTY SAND, reddish-brown, fine sand with abundant angular fine gravel, moist.	Flush mount well cover set in concrete
10	580	Hard drilling; high water return.	579.0 CLAY, reddish-brown to gray, trace fine sand, trace angular fine gravel, medium plasticity, moist.	Approx. 45 gallon of Aquaguard Bentonite Grout
20	570		572.0 CLAY, reddish yellow, trace silt, medium plasticity, moist, red and gray mottling throughout.	
30	560		27 to 30 ft: Light gray, trace fine sand. 559.0 SANDY CLAY, reddish yellow, fine sand with trace rounded gravel, medium to low plasticity, wet. 557.0	Approx 3.75 gallon of uncoated 3/8" bentonite pellets
40	550		SILTY SAND, reddish yellow, subangular, medium to fine sand, rounded, fine gravel throughout, wet. 551.0 SILTY CLAY, reddish yellow, medium to high plasticity, moist to wet, trace gray mottling.	Approx. 19 gallon of 20/40 Silica Sand 0.010 slot size 2" Pre Pack, U-Pack Screen
		Hard drilling; rock at 46 feet bgs.	545.0 No recovery (47 to 48.6 ft) 543.4	0.3 ft Sump

Bottom of borehole at 48.6 feet below ground surface (ft bgs).

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PT-08

CLIENT Southern Company Services
PROJECT NAME Plant Hammond Well Installation
PROJECT NUMBER GW6581E
PROJECT LOCATION Plant Hammond
DATE STARTED 06/03/23 **COMPLETED** 06/03/23
NORTHING 1548666.82 ft **EASTING** 1940929.58 ft
DRILLER Cascade Drilling
GROUND ELEVATION 592.10 ft **BORING DIAMETER** 6 in.
DRILLING METHOD Sonic
TOP OF CASING ELEVATION 591.83 ft
SAMPLING METHOD Sonic Core
GEOPHYSICAL CONTRACTOR ---
RIG TYPE Terrasonic Compact Crawler
LOGGED BY T. Kessler **CHECKED BY** C. Hug

DEPTH (ft)	ELEVATION (ft)	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	CONSTRUCTION DIAGRAM
0	590	Air knifed material		SILTY SAND, reddish-brown, fine sand, abundant angular fine to coarse gravel, moist.	Flush mount well cover set in concrete
				582.1	
10	580	Very soft drilling, no vibrations to 18 feet bgs. Fill material from 13-16 feet bgs.		CLAY, reddish-brown to gray, trace fine sand and angular to rounded fine gravel, trace silt, medium plasticity, moist, trace organic material.	Approx. 35 gallon of Aquaguard Bentonite Grout
				572.1	
20	570	Drilling becomes harder; significant amount of return water to surface during overdrill.		CLAY, red to yellowish red, trace silt and trace fine sand from 20-21 feet bgs, medium plasticity, moist, gray mottling throughout.	Approx 2.5 gallon of uncoated 3/8" bentonite pellets
30	560			559.1	Approx. 19 gallon of 20/40 Silica Sand
				SILTY SAND, yellowish red, fine sand with trace rounded fine gravel, moist to wet.	
				555.1	0.010 slot size 2" Pre Pack, U-Pack Screen
				SILTY SAND, yellowish red, subrounded medium to fine sand, abundant rounded fine to coarse gravel, wet.	
40	550			550.6	
				SANDY CLAY, yellowish red, fine sand and trace gravel, medium plasticity, moist.	0.3 ft Sump
				549.1	

Bottom of borehole at 43.0 feet below ground surface (ft bgs).

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PT-09

CLIENT Southern Company Services
PROJECT NAME Plant Hammond Well Installation
PROJECT NUMBER GW6581E
PROJECT LOCATION Plant Hammond
DATE STARTED 05/31/23 **COMPLETED** 06/01/23
NORTHING 1549049.74 ft **EASTING** 1942393.11 ft
DRILLER Cascade Drilling
GROUND ELEVATION 577.33 ft **BORING DIAMETER** 6 in.
DRILLING METHOD Sonic
TOP OF CASING ELEVATION 580.35 ft
SAMPLING METHOD Sonic Core
GEOPHYSICAL CONTRACTOR ---
RIG TYPE Terrasonic Compact Crawler
LOGGED BY T. Kessler **CHECKED BY** C. Hug

DEPTH (ft)	ELEVATION (ft)	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	CONSTRUCTION DIAGRAM
0		Hand augered from 0-10 feet bgs.		CLAY, reddish-brown, trace fine sand, medium to low plasticity, dry to moist, trace organics.	Aboveground well cover set in concrete
	570				Approx. 17 gallon of Aquauard Bentonite Grout
				567.3	
10		Water encountered at ~11 feet bgs; easy drilling.		CLAY, reddish-brown to yellowish-brown, trace fine sand, medium to low plasticity, moist, gray mottling throughout.	Approx. 2.5 gallon of uncoated 3/8" bentonite pellets
				560.3	
	560	Alluvium from 17-28 feet bgs.		CLAYEY SAND, gray to yellowish-brown, subrounded medium to fine sand and trace silt, medium plasticity clay, moist to wet. 18 to 18.3 ft: Trace subrounded gravel.	Approx. 19 gallon of 20/40 Silica Sand
				559.0	
20				CLAYEY SAND, yellowish-brown, subrounded medium to fine sand, abundant rounded to subrounded gravel, abundant silt, wet. From 20 ft: Medium to coarse grained sand, trace silt.	0.010 slot size 2" Pre Pack, U-Pack Screen
				From 26 ft: Trace rounded fine to coarse gravel.	
	550				0.3 ft Sump
				548.8	

Bottom of borehole at 28.5 feet below ground surface (ft bgs).

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PT-10

CLIENT Southern Company Services
PROJECT NAME Plant Hammond Well Installation
PROJECT NUMBER GW6581E
PROJECT LOCATION Plant Hammond
DATE STARTED 06/01/23 **COMPLETED** 06/01/23
NORTHING 1549040.34 ft **EASTING** 1942413.88 ft
DRILLER Cascade Drilling
GROUND ELEVATION 577.39 ft **BORING DIAMETER** 6 in.
DRILLING METHOD Sonic
TOP OF CASING ELEVATION 580.44 ft
SAMPLING METHOD Sonic Core
GEOPHYSICAL CONTRACTOR ---
RIG TYPE Terrasonic Compact Crawler
LOGGED BY T. Kessler **CHECKED BY** C. Hug

DEPTH (ft)	ELEVATION (ft)	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	CONSTRUCTION DIAGRAM
0		Hand augered from 0-10 feet bgs.		CLAY, brown to reddish-brown, trace sand, medium to low plasticity, moist, trace organics, black and gray mottling throughout.	Aboveground well cover set in concrete
	570				Approx. 15 gallon of Aquauard Bentonite Grout
				567.4	
10				CLAY, yellowish-brown, trace fine sand, medium to low plasticity, moist to dry, gray and red mottling throughout.	Approx. 2.5 gallon of uncoated 3/8" bentonite pellets
				560.4	
	560			SANDY CLAY, yellowish-brown, medium to low plasticity, trace subrounded gravel, moist to wet.	Approx. 19 gallon of 20/40 Silica Sand
				558.9	
				CLAYEY SAND, yellowish-brown/reddish yellow, subrounded medium to fine sand, abundant rounded/sub rounded gravel, abundant silt.	
20				557.4	
				556.4	
				SANDY CLAY, reddish yellow, medium plasticity, abundant subrounded gravel, trace fine sand, wet.	0.010 slot size 2" Pre Pack, U-Pack Screen
				SILTY SAND, yellow, medium to fine, subangular, with trace subrounded fine gravel, wet.	
		Hard drilling from 26-27.5 feet bgs; rod drop from 26.5-27 feet bgs.		552.9	
				SILTY CLAY, brown, low plasticity, abundant fine sand and subrounded fine gravel, wet.	
				550.9	
	550			LIMESTONE, gray, hard, effervesces with acid.	0.3 ft Sump
				549.4	

Bottom of borehole at 28.0 feet below ground surface (ft bgs).

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MW-53

CLIENT Southern Company Services
PROJECT NAME Plant Hammond Well Installation
PROJECT NUMBER GW6581E
PROJECT LOCATION Plant Hammond
DATE STARTED 06/01/23 **COMPLETED** 06/02/23
NORTHING 1548835.51 ft **EASTING** 1942399.62 ft
DRILLER Cascade Drilling
GROUND ELEVATION 577.64 ft **BORING DIAMETER** 6 in.
DRILLING METHOD Sonic
TOP OF CASING ELEVATION 580.59 ft
SAMPLING METHOD Sonic Core
GEOPHYSICAL CONTRACTOR ---
RIG TYPE Terrasonic Compact Crawler
LOGGED BY T. Kessler **CHECKED BY** C. Hug

DEPTH (ft)	ELEVATION (ft)	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION
0		Hand augered from 0-10 feet bgs.		CLAY, reddish-brown, medium to low plasticity, dry to moist, trace organic, black mottling throughout.
	570			567.6
10				CLAY, reddish yellow, trace silt, medium to low plasticity, moist, gray mottling throughout. From 11 ft: Trace organics.
	560			558.6
				CLAYEY SAND, reddish yellow, medium to coarse grained, subrounded, moist to wet. 557.6
20				CLAY, reddish yellow, medium plasticity, abundant rounded gravel and abundant silt, wet. 555.6
				SAND, reddish yellow, subrounded to subangular, fine to coarse grained with trace rounded gravel and trace low plasticity clay, wet.
	550	Drill to 30 feet bgs. Rod drop from 30-33 feet bgs.		
30				543.2

CONSTRUCTION DIAGRAM

- Aboveground well cover set in concrete
- Approx. 25 gallon of Aquauard Bentonite Grout
- Approx. 2.5 gallon of uncoated 3/8" bentonite pellets
- Approx. 19 gallon of 20/40 Silica Sand
- 0.010 slot size 2" Pre Pack, U-Pack Screen
- 0.3 ft Sump

Bottom of borehole at 34.4 feet below ground surface (ft bgs).

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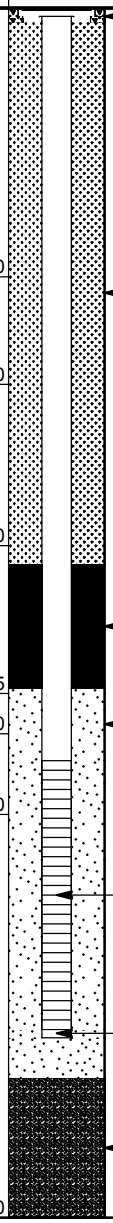
MW-54

CLIENT Southern Company Services
PROJECT NAME Plant Hammond Well Installation
PROJECT NUMBER GW6581E
PROJECT LOCATION Plant Hammond
DATE STARTED 06/02/23 **COMPLETED** 06/02/23
NORTHING 1548699.51 ft **EASTING** 1940805.03 ft
DRILLER Cascade Drilling
GROUND ELEVATION 592.98 ft **BORING DIAMETER** 6 in.
DRILLING METHOD Sonic
TOP OF CASING ELEVATION 592.66 ft
SAMPLING METHOD Sonic Core
GEOPHYSICAL CONTRACTOR ---
RIG TYPE Terrasonic Compact Crawler
LOGGED BY T. Kessler **CHECKED BY** C. Hug

DEPTH (ft)	ELEVATION (ft)	REMARKS	MATERIAL DESCRIPTION
0	590	Air knifed material	CLAY, reddish yellow, trace silt, medium plasticity, wet, dark gray mottling.
			583.0
10	580	Gravel from 10.5 feet bgs is collapse from air knife material.	SILTY SAND, dark gray to black, subrounded medium to fine sand, trace rounded gravel, moist.
			579.0
			CLAY, reddish yellow, medium plasticity, moist to dry, red black and gray mottling throughout.
			573.0
20	570	Slow drilling.	SILTY CLAY, reddish yellow, hard, medium to low plasticity, dry to moist, red/gray mottling throughout.
			567.5
			SILTY SAND, pink/light yellowish gray, fine, subrounded, moist.
			566.0
			SANDY CLAY, reddish yellow, low plasticity, sand is fine to medium, moist.
			563.0
30	560		SAND, reddish yellow/light gray, fine-grained with trace of fine, rounded gravel throughout, wet.
			36 to 36.3 ft: Clay.
40	550	Drilled to 39 feet bgs; core barrel sinks to 45 feet bgs; settles on rock.	
			548.0

CONSTRUCTION DIAGRAM



Bottom of borehole at 45.0 feet below ground surface (ft bgs).

APPENDIX C

Well Development and Equipment Calibration Forms

Geosyntec consultants

GROUNDWATER SAMPLING LOG SHEET

Client: SCS
Site: Plant Hammond
Well ID: PT-07
Total Depth (ft): 48.6
Depth to Water (ft): 24.3
Well Diameter (in): 2
Well Volume (gal) = 0.041d²h: 3.99
Well Volume (L) = gal * 3.785: 15.10
d = well diameter (inches); h = length of water column (feet)
Well Type: (Flush) Stick Up
Well Lock: Yes (No)
Well Cap Condition: (Good) Replace
Well Tag Present: (Yes) No

Project No.: GNV65816
Location: AP-1
Pump Type/Model: Monsoon
Tubing Material: Poly
Pump Intake Depth (ft): 43
Start/Stop Purge Time: 1205/1301
Purge Rate (mL/min): 8000
Total Purge Volume (L): 388
Purge Method: Low-Flow Well Volume Other: —
Sampling Method: Pump Discharge Other: —

Sampling Date: 6/28/23
Sampler's Name: AN
Sample Collection Time: —
Sample Purge Rate (mL/min): —
Sample ID: —
Laboratory Analyses: —
QA/QC Collected? —
QA/QC I.D. —

All sample containers requiring chemical preservation properly preserved prior to demob from well? Yes No

Time	pH (SU)	Spec. Cond. (µS/cm)	ORP (mV)	DO (mg/L)	Temp. (°C)	Turbidity (NTUs)	DTW (ft btoc)	Purge Rate (mL/min)	Purged Volume (L)	Notes (Purge method, water clarity, odor, purge rate, issues with pump/well/weather/etc.)
1205										Begin pre purging
1231	6.87	950.09	-58.2	0.01	19.25	73	28.5	8000	168	motor got filament stuck, had to clean multiple times
1236	6.85	953.21	-93.0	0.00	18.90	57.6	28.8	8000	208	
1241	6.85	954.95	-71.8	4.28	19.16	1083 AU	28.1	8000	248	had to remove filament
1246	6.86	953.78	-88.6	0.00	18.92	12.4	28.1	8000	288	
1251	6.86	955.59	-78.3	0.24	18.97	50.1	28.1	8000	328	
1256	6.86	953.56	-53.4	0.00	18.92	12.4	28.1	8000	348	
1301	6.86	954.07	-53.2	0.00	18.96	8.32	28.1	8000	388	
									6/28/23 AN	
Stabilizing Criteria	**+/- 0.1 SU**	**+/- 5%**		0.2 mg/L or 10% for DO > 0.5 mg/L (whichever is greater)		**< 5 NTUs**	**< 0.3 ft**	**> 100 mL < 250 mL**	**> 3L**	

Geosyntec consultants

GROUNDWATER SAMPLING LOG SHEET

Client: SCS
Site: Plant Hammond
Well ID: PT-07
Total Depth (ft): 48.6
Depth to Water (ft): 24.3
Well Diameter (in): 2
Well Volume (gal) = 0.041d²h: 3.99
Well Volume (L) = gal * 3.785: 15.10
d = well diameter (inches); h = length of water column (feet)
Well Type: (Flush) Stick Up
Well Lock: Yes (No)
Well Cap Condition: (Good) Replace
Well Tag Present: (Yes) No

Project No.: GWES81G
Location: AP-1
Pump Type/Model: monsoon
Tubing Material: poly
Pump Intake Depth (ft): 43
Start/Stop Purge Time: 1303 / 1328
Purge Rate (mL/min): 200
Total Purge Volume (L): 5
Purge Method: (Low-Flow) Well Volume Other: –
Sampling Method: Pump Discharge Other: –

Sampling Date: 6/28/23
Sampler's Name: AN
Sample Collection Time: –
Sample Purge Rate (mL/min): –
Sample ID: –
Laboratory Analyses: –
QA/QC Collected? –
QA/QC I.D. –

All sample containers requiring chemical preservation properly preserved prior to demob from well? Yes No

Time	pH (SU)	Spec. Cond. (µS/cm)	ORP (mV)	DO (mg/L)	Temp. (°C)	Turbidity (NTUs)	DTW (ft btoc)	Purge Rate (mL/min)	Purged Volume (L)	Notes (Purge method, water clarity, odor, purge rate, issues with pump/well/weather/etc.)
1308	6.72	1046.8	-68.3	0.02	20.5	14.6	25.8	200	1	
1313	6.69	1058.8	-95.3	0.01	19.9	7.21	25.8	200	2	
1318	6.666	1073.6	-66.7	0.02	21.46	6.75	25.58	200	3	
1323	6.666	1069.0	-71.4	0.02	24.11	8.72	25.5	200	4	
1328	6.68	1045.1	-64.1	0.02	22.27	4.15	25.5	200	5	
Stabilizing Criteria	**+/- 0.1 SU**	**+/- 5%**		0.2 mg/L or 10% for DO > 0.5 mg/L (whichever is greater)		**< 5 NTUs**	**< 0.3 ft**	**> 100 mL < 250 mL**	**> 3L**	

Geosyntec consultants

GROUNDWATER SAMPLING LOG SHEET

Client: SCS
Site: Plant Hammond
Well ID: PT-08
Total Depth (ft): 42.2
Depth to Water (ft): 22.7
Well Diameter (in): 2
Well Volume (gal) = 0.041d²h: 3.198
Well Volume (L) = gal * 3 785: 12.104
d = well diameter (inches); h = length of water column (feet)
Well Type: (Flush) Stick Up
Well Lock: Yes (No)
Well Cap Condition: (Good) Replace
Well Tag Present: (Yes) No

Project No.: GW6581G
Location: AP-1
Pump Type/Model: monsoon
Tubing Material: poly
Pump Intake Depth (ft): 32
Start/Stop Purge Time: 0820/0908
Purge Rate (mL/min): 10000
Total Purge Volume (L): 480
Purge Method: Low-Flow Well Volume Other: —
Sampling Method: Pump Discharge Other: —

Sampling Date: 01/29/23
Sampler's Name: AN
Sample Collection Time: —
Sample Purge Rate (mL/min): —
Sample ID: —
Laboratory Analyses: —
QA/QC Collected? —
QA/QC I D. —

All sample containers requiring chemical preservation properly preserved prior to demob from well? Yes No

Time	pH (SU)	Spec. Cond. (µS/cm)	ORP (mV)	DO (mg/L)	Temp. (°C)	Turbidity (NTUs)	DTW (ft btoc)	Purge Rate (mL/min)	Purged Volume (L)	Notes (Purge method, water clarity, odor, purge rate, issues with pump/well/weather/etc.)
0843	6.58	1022.7	-54.0	0.03	18.88	614 AV	28.6	10000	230	pre-purge 20 mins
0848	6.103	1026.8	-87.0	0.02	18.79	70.8	28.6	10000	280	
0853	6.105	1026.8	-56.7	0.01	18.78	36.9	28.6	10000	330	
0858	6.105	1027.8	-55.6	0.01	18.75	22.8	28.6	10000	380	
0903	6.106	1028.1	-88.0	0.01	18.78	11.7	28.6	10000	430	
0908	6.106	1027.7	-88.0	0.01	18.78	9.55	28.6	10000	480	
							AN			
								01/29/23		
Stabilizing Criteria	**+/- 0.1 SU**	**+/- 5%**		0.2 mg/L or 10% for DO > 0.5 mg/L (whichever is greater)		**< 5 NTUs**	**< 0.3 ft**	**> 100 mL < 250 mL**	**> 3L**	

Geosyntec consultants

GROUNDWATER SAMPLING LOG SHEET

Client: SCS
Site: Plant Hammond
Well ID: PT-08
Total Depth (ft): 42.2
Depth to Water (ft): 22.7
Well Diameter (in): 2
Well Volume (gal) = 0.041d²h: 3.198
Well Volume (L) = gal * 3.785: 12.104
d = well diameter (inches); h = length of water column (feet)

Well Type: (Flush) Stick Up
Well Lock: Yes (No)
Well Cap Condition: (Good) Replace
Well Tag Present: (Yes) No

Project No.: GW65816
Location: AP-1
Pump Type/Model: Monsoon
Tubing Material: poly
Pump Intake Depth (ft): 32
Start/Stop Purge Time: 0908/0940
Purge Rate (mL/min): 250
Total Purge Volume (L): 8
Purge Method: (Low-Flow) Well Volume Other: —
Sampling Method: Pump Discharge Other: —

Sampling Date: 6/29/23
Sampler's Name: AN
Sample Collection Time: —
Sample Purge Rate (mL/min): —
Sample ID: —
Laboratory Analyses: —
QA/QC Collected? —
QA/QC I.D. —

All sample containers requiring chemical preservation properly preserved prior to demob from well? Yes No

Time	pH (SU)	Spec. Cond. (µS/cm)	ORP (mV)	DO (mg/L)	Temp. (°C)	Turbidity (NTUs)	DTW (ft btoc)	Purge Rate (mL/min)	Purged Volume (L)	Notes (Purge method, water clarity, odor, purge rate, issues with pump/well/weather/etc.)
0915	6.163	1044.1	-67.1	0.04	20.88	15.8	23.1	250	1.75	Pre-Purge for flow (~7 min)
0920	6.07	1035.0	-63.0	0.07	22.12	17.7	23.1	250	3	
0925	6.04	1032.0	-91.1	0.07	21.93	12.62	23.1	250	4.25	
0930	6.04	1039.16	-61.2	0.06	22.09	10.77	23.1	250	5.5	
0935	6.05	1037.5	-59.7	0.05	22.00	5.71	23.1	250	6.75	
0940	6.05	1037.9	-89.0	0.05	22.02	4.68	23.1	250	8	
										6/29/23 AN
Stabilizing Criteria	**+/- 0.1 SU**	**+/- 5%**		0.2 mg/L or 10% for DO > 0.5 mg/L (whichever is greater)		**< 5 NTUs**	**< 0.3 ft**	**> 100 mL < 250 mL**	**> 3L**	

Geosyntec consultants

GROUNDWATER SAMPLING LOG SHEET

Client:	Southern Company	Project No.:	GN165581
Site:	Plant Hammond	Location:	Plant Hammond
Well ID:	PT-09	Pump Type/Model:	mega monsoon pro
Total Depth (ft):	31	Tubing Material:	poly
Depth to Water (ft):	14.65	Pump Intake Depth (ft):	26
Well Diameter (in):	2	Start/Stop Purge Time:	0830 / 1123
Well Volume (gal) = 0.041d²h:	2.681	Purge Rate (mL/min):	15,000, 250
Well Volume (L) = gal * 3.785:	10.14	Total Purge Volume (L):	1458.75

d = well diameter (inches); h = length of water column (feet)

Purge Method: Low-Flow Well Volume Other: —

Sampling Method: Pump Discharge Other: —

Sampling Date:	6/27/23	
Sampler's Name:	AN	
Sample Collection Time:	—	
Sample Purge Rate (mL/min):	—	
Sample ID:	—	
Laboratory Analyses:	—	
QA/QC Collected?	—	
QA/QC I.D.	—	

Well Type:	Flush	(Stick Up)
Well Lock:	(Yes)	No
Well Cap Condition:	(Good)	Replace
Well Tag Present:	(Yes)	No

All sample containers requiring chemical preservation properly preserved prior to demob from well? Yes No

Time	pH (SU)	Spec. Cond. (µS/cm)	ORP (mV)	DO (mg/L)	Temp. (°C)	Turbidity (NTUs)	DTW (ft btoc)	Purge Rate (mL/min)	Purged Volume (L)	Notes (Purge method, water clarity, odor, purge rate, issues with pump/well/weather/etc.)
0852	6.72	865.25	2.9	0.03	18.39	3884 AU	15.35	15,000	330	pre-purged for 20 min
0858	6.74	868.23	8.7	0.02	18.21	2747 AU	15.3	15,000	405	
0902	6.74	867.72	-5.7	0.01	18.21	2249 AU	15.3	15,000	480	
0906	6.75	867.44	12.4	0.01	18.20	723 AU	15.3	15,000	540	
0911	6.75	865.02	-2.0	0.01	18.20	1205 AU	15.3	15,000	615	
0916	6.75	868.97	14.1	0.01	18.21	128 NTU	15.3	15,000	690	
0921	6.75	864.78	10.3	0.01	18.23	69.1 AU	15.3	15,000	765	
0926	6.75	867.14	-0.7	0.00	18.25	37.8	15.3	15,000	840	
0931	6.75	868.88	16.6	0.00	18.25	37.3	15.3	15,000	915	
0936	6.75	867.76	13.7	0.00	18.21	7.3	15.3	15,000	990	
0941	6.75	866.15	8.2	0.00	18.26	5.7	15.3	15,000	1065	
0946	6.75	870.58	17.5	0.00	18.26	23.8	15.3	15,000	1140	
0951	6.75	868.96	18.0	0.00	18.20	21.2	15.3	15,000	1215	
0956	6.75	869.01	18.3	0.00	18.15	14.3	15.3	15,000	1290	
1001	6.75	867.43	18.4	0.00	18.26	11.9	15.3	15,000	1365	
1006	6.75	861.04	10.4	0.00	18.16	8.37	15.3	15,000	1440	
1011	6.76	864.47	14.8	0.01	18.14	23.7	15.3	250	1491.25	switch to low flow to stabilize
1016	6.72	834.85	15.3	0.04	24.8	17.4	14.9	250	1442.5	
1023	6.74	861.19	11.8	0.00	19.08	36.1	14.9	250	1443.75	
Stabilizing Criteria	**+/- 0.1 SU**	**+/- 5%**		0.2 mg/L or 10% for DO > 0.5 mg/L (whichever is greater)		**< 5 NTUs**	**< 0.3 ft**	**> 100 mL < 250 mL**	**> 3L**	

Geosyntec consultants

GROUNDWATER SAMPLING LOG SHEET

Client: Southern Company
Site: Plant Hammond
Well ID: PT-09
Total Depth (ft): 31
Depth to Water (ft): 14.65
Well Diameter (in): 2
Well Volume (gal) = 0.041d²h: 2.686
Well Volume (L) = gal * 3 785: 10.14
d = well diameter (inches); h = length of water column (feet)
Well Type: Flush / (Stick Up)
Well Lock: (Yes) / No
Well Cap Condition: (Good) / Replace
Well Tag Present: (Yes) / No

Project No.: 6ANGS81
Location: Plant Hammond
Pump Type/Model: mega monsoon pro
Tubing Material: poly
Pump Intake Depth (ft): 26
Start/Stop Purge Time: 1030 / 1123
Purge Rate (mL/min): 15000, 250
Total Purge Volume (L): 1458.75
Purge Method: Low-Flow / Well Volume / Other: —
Sampling Method: Pump Discharge / Other: —

Sampling Date: 01/27/2023
Sampler's Name: AN
Sample Collection Time: —
Sample Purge Rate (mL/min): —
Sample ID: —
Laboratory Analyses: —
QA/QC Collected? —
QA/QC I D. —

All sample containers requiring chemical preservation properly preserved prior to demob from well? Yes No

Time	pH (SU)	Spec. Cond. (µS/cm)	ORP (mV)	DO (mg/L)	Temp. (°C)	Turbidity (NTUs)	DTW (ft btoc)	Purge Rate (mL/min)	Purged Volume (L)	Notes (Purge method, water clarity, odor, purge rate, issues with pump/well/weather/etc.)
1028	6.74	804.55	12.6	0.00	18.96	30.3	14.9	250	1445	
1033	6.74	804.37	12.8	0.00	18.97	25.4	14.9	250	1446.25	
1038	6.75	802.81	13.0	0.00	18.89	21.0	14.9	250	1447.5	
1043	6.74	803.05	1.3	0.00	18.85	18.9	14.9	250	1448.75	
1048	6.75	803.72	12.9	0.00	18.88	19.9	14.9	250	1450	
1053	6.75	803.74	1.7	0.00	18.84	14.2	14.9	250	1451.25	
1058	6.75	803.80	0.4	0.00	18.90	13.2	14.9	250	1452.5	
1103	6.75	803.59	0.4	0.00	18.90	9.57	14.9	250	1453.75	
1108	6.75	805.55	12.7	0.00	18.94	7.39	14.9	250	1455	
1113	6.75	804.61	2.6	0.00	18.88	4.26	14.9	250	1456.25	
1118	6.75	804.98	13.6	0.00	18.97	3.93	14.9	250	1457.5	
1123	6.75	805.63	14.3	0.00	18.84	3.03	14.9	250	1458.75	
Stabilizing Criteria	**+/- 0.1 SU**	**+/- 5%**		0.2 mg/L or 10% for DO > 0.5 mg/L (whichever is greater)		**< 5 NTUs**	**< 0.3 ft**	**> 100 mL < 250 mL**	**> 3L**	

AN 01/27/23

Geosyntec consultants

GROUNDWATER SAMPLING LOG SHEET

Client: SCS
Site: Plant Hammond
Well ID: PT-10
Total Depth (ft): 30.7
Depth to Water (ft): 14.80
Well Diameter (in): 2
Well Volume (gal) = 0.041d²h: 2.61
Well Volume (L) = gal * 3.785: 9.88
d = well diameter (inches); h = length of water column (feet)
Well Type: Flush / (Stick Up)
Well Lock: (Yes) / No
Well Cap Condition: (Good) / Replace
Well Tag Present: (Yes) / No

Project No.: CANC6S816
Location: AP-1
Pump Type/Model: Monsoon
Tubing Material: poly
Pump Intake Depth (ft): 25
Start/Stop Purge Time: 1435 / 1618
Purge Rate (mL/min): 9000
Total Purge Volume (L): 58.5
Purge Method: Low-Flow / Well Volume / Other: —
Sampling Method: Pump Discharge / Other: —

Sampling Date: 06/27/23
Sampler's Name: AN
Sample Collection Time: —
Sample Purge Rate (mL/min): —
Sample ID: —
Laboratory Analyses: —
QA/QC Collected? —
QA/QC I.D. —

All sample containers requiring chemical preservation properly preserved prior to demob from well? Yes No

Time	pH (SU)	Spec. Cond. (µS/cm)	ORP (mV)	DO (mg/L)	Temp. (°C)	Turbidity (NTUs)	DTW (ft btoc)	Purge Rate (mL/min)	Purged Volume (L)	Notes (Purge method, water clarity, odor, purge rate, issues with pump/well/weather/etc.)
1435										Start purge, purged dry,
1450										waited + began to purge
1504	6.93	856.25	-34.9	0.25	18.79	89.1	16.8	9000	180	
1509	6.94	855.27	-25.4	0.30	18.88	44.8	16.9	9000	225	
1514	6.93	851.86	-22.8	0.37	18.63	36.4	17.45	9000	270	
1519	6.93	856.43	-48.9	0.27	18.53	94.2	17.6	9000	315	
1524	6.91	859.79	-40.4	0.17	18.58	25.5	17.3	9000	360	
1529							↓	9000	405	Motor broke, had to replace
1603	6.91	856.85	-45.5	0.22	18.01	875AV	19.8	9000	450	
1608	6.90	857.92	-38.9	0.12	17.89	84.4	19.05	9000	495	
1613	6.89	858.38	-38.5	0.12	17.85	18.3	19.1	9000	540	
1618	6.88	858.15	-11.1	0.12	17.85	7.09	19.1	9000	585	
		AN	6/27/23							
Stabilizing Criteria	**+/- 0.1 SU**	**+/- 5%**		0.2 mg/L or 10% for DO > 0.5 mg/L (whichever is greater)		**< 5 NTUs**	**< 0.3 ft**	**> 100 mL < 250 mL**	**> 3L**	

Geosyntec consultants

GROUNDWATER SAMPLING LOG SHEET

Client:	SCS	Project No.:	GWE581
Site:	Plant Hammond	Location:	AP-1
Well ID:	PT-10	Pump Type/Model:	Monsoon
Total Depth (ft):	30.7	Tubing Material:	poly
Depth to Water (ft):	14.8	Pump Intake Depth (ft):	25
Well Diameter (in):	2	Start/Stop Purge Time:	1626/1636
Well Volume (gal) = 0.041d²h:	2.61	Purge Rate (mL/min):	300
Well Volume (L) = gal * 3.785:	9.89	Total Purge Volume (L):	4.5

d = well diameter (inches); h = length of water column (feet)

Purge Method: (Low-Flow) Well Volume Other: –

Sampling Method: Pump Discharge Other: –

Sampling Date:	10/27/23
Sampler's Name:	AW
Sample Collection Time:	–
Sample Purge Rate (mL/min):	–
Sample ID:	–
Laboratory Analyses:	–
QA/QC Collected?	–
QA/QC I.D.	–

Well Type: Flush (Stick Up)

Well Lock: (Yes) No

Well Cap Condition: (Good) Replace

Well Tag Present: (Yes) No

All sample containers requiring chemical preservation properly preserved prior to demob from well? Yes No

Time	pH (SU)	Spec. Cond. (µS/cm)	ORP (mV)	DO (mg/L)	Temp. (°C)	Turbidity (NTUs)	DTW (ft btoc)	Purge Rate (mL/min)	Purged Volume (L)	Notes (Purge method, water clarity, odor, purge rate, issues with pump/well/weather/etc.)
1626	6.87	860.76	-18.4	0.01	18.91	4.80	15.4	300	1.5	
1631	6.87	865.22	-12.1	0.02	18.88	2.34	15.4	300	3	
1636	6.88	863.27	-37.8	0.04	18.76	1.09	15.4	300	4.5	

Geosyntec consultants

GROUNDWATER SAMPLING LOG SHEET

Client: SCS
Site: Plant Hammond
Well ID: MW-53
Total Depth (ft): ~~45.6~~ AN 36.6
Depth to Water (ft): 15.8
Well Diameter (in): 2
Well Volume (gal) = 0.041d²h: 3.41
Well Volume (L) = gal * 3.785: 12.91
d = well diameter (inches); h = length of water column (feet)

Well Type: Flush (Stick Up)
Well Lock: (Yes) No
Well Cap Condition: (Good) Replace
Well Tag Present: (Yes) No

Project No.: GW0581G
Location: AP-1
Pump Type/Model: Monsoon
Tubing Material: POLY
Pump Intake Depth (ft): ~~40~~ AN 31.6
Start/Stop Purge Time: ~~1550~~ 0350/1652
Purge Rate (mL/min): 15000
Total Purge Volume (L): 930
Purge Method: Low-Flow Well Volume Other: —
Sampling Method: Pump Discharge Other: —

Sampling Date: 6/29/23
Sampler's Name: AN
Sample Collection Time: —
Sample Purge Rate (mL/min): —
Sample ID: —
Laboratory Analyses: —
QA/QC Collected? —
QA/QC I.D. —

All sample containers requiring chemical preservation properly preserved prior to demob from well? Yes No

Time	pH (SU)	Spec. Cond. (µS/cm)	ORP (mV)	DO (mg/L)	Temp. (°C)	Turbidity (NTUs)	DTW (ft btoc)	Purge Rate (mL/min)	Purged Volume (L)	Notes (Purge method, water clarity, odor, purge rate, issues with pump/well/weather/etc.)
0350										begin pre-purge, filament turn
1612	6.64	944.07	18.9	0.01	18.25	901 AV	16.7	15000	330	PVC got stuck, had to clean
1617	6.69	945.14	8.5	0.00	18.17	58	19.6	15000	405	
1622	6.67	952.03	18.8	0.00	18.17	94.7	19.6	15000	480	
1627	6.67	954.81	18.1	0.00	18.19	102.9	19.6	15000	555	
1632	6.67	956.48	12.6	0.00	18.20	41.4	19.6	15000	630	
1637	6.67	960.70	19.2	0.00	18.21	40.8	19.6	15000	705	
1642	6.67	957.41	20.1	0.00	18.21	25.2	19.6	15000	780	
1647	6.67	960.21	20.3	0.00	18.23	22.8	19.6	15000	855	
1652	6.67	959.28	20.3	0.00	18.23	9.95	19.6	15000	930	
										6/29/23 AN
Stabilizing Criteria	**+/- 0.1 SU**	**+/- 5%**		0.2 mg/L or 10% for DO > 0.5 mg/L (whichever is greater)		**< 5 NTUs**	**< 0.3 ft**	**> 100 mL < 250 mL**	**> 3L**	

Geosyntec consultants

GROUNDWATER SAMPLING LOG SHEET

Client: SCS
Site: Plant Hammond
Well ID: MW-S3
Total Depth (ft): 36.6
Depth to Water (ft): 15.8
Well Diameter (in): 2
Well Volume (gal) = 0.041d²h: 3.41
Well Volume (L) = gal * 3.785: 12.91
d = well diameter (inches); h = length of water column (feet)

Well Type: Flush (Stick Up)
Well Lock: (Yes) No
Well Cap Condition: (Good) Replace
Well Tag Present: (Yes) No

Project No.: GW1658816
Location: AD-1
Pump Type/Model: monsoon
Tubing Material: poly
Pump Intake Depth (ft): 31.6
Start/Stop Purge Time: 1658/1751
Purge Rate (mL/min): 300
Total Purge Volume (L): 14.9
Purge Method: (Low-Flow) Well Volume Other: –
Sampling Method: Pump Discharge Other: –

Sampling Date: 6/29/23
Sampler's Name: AN
Sample Collection Time: –
Sample Purge Rate (mL/min): –
Sample ID: –
Laboratory Analyses: –
QA/QC Collected? –
QA/QC I.D. –

All sample containers requiring chemical preservation properly preserved prior to demob from well? Yes No

Time	pH (SU)	Spec. Cond. (µS/cm)	ORP (mV)	DO (mg/L)	Temp. (°C)	Turbidity (NTUs)	DTW (ft btoc)	Purge Rate (mL/min)	Purged Volume (L)	Notes (Purge method, water clarity, odor, purge rate, issues with pump/well/weather/etc.)
1701	6.67	979.82	19.4	0.15	21.17	21.4	16.3	300	0.9	pre purge for flow
1706	6.57	910.53	19.4	0.09	22.62	42.2	16.0	300	2.4	
1711	6.53	886.85	14.4	0.00	22.09	41.9	16.0	300	3.9	
1716	6.52	876.80	17.6	0.04	21.33	45.0	16.0	300	5.4	
1721	6.52	871.62	8.4	0.02	19.62	38.0	16.0	300	6.9	
1726	6.51	871.99	14.1	0.01	19.46	18.0	16.0	300	7.4	
1731	6.64	953.33	8.5	0.00	18.55	39.6	16.0	300	8.9	
1736	6.64	952.14	15.4	0.00	18.57	11.78	16.0	300	10.4	MW
1741	6.64	949.89	13.5	0.00	18.52	7.09	16.0	300	11.9	
1746	6.64	950.31	6.2	0.00	18.57	5.15	16.0	300	13.4	
1751	6.64	951.32	5.6	0.00	18.64	4.93	16.0	300	14.9	
										6/29/23 AN
Stabilizing Criteria	**+/- 0.1 SU**	**+/- 5%**		0.2 mg/L or 10% for DO > 0.5 mg/L (whichever is greater)		**< 5 NTUs**	**< 0.3 ft**	**> 100 mL < 250 mL**	**> 3L**	

Geosyntec consultants

GROUNDWATER SAMPLING LOG SHEET

Client: SCS
Site: Plant Hammond
Well ID: MW-54
Total Depth (ft): 38.8
Depth to Water (ft): 23.3
Well Diameter (in): 2
Well Volume (gal) = 0.041d²h: 2.54
Well Volume (L) = gal * 3.785: 9.61
d = well diameter (inches); h = length of water column (feet)

Well Type: (Flush) Stick Up
Well Lock: Yes (No)
Well Cap Condition: (Good) Replace
Well Tag Present: (Yes) No

Project No.: GW0581G
Location: AP-2
Pump Type/Model: Monsoon
Tubing Material: poly
Pump Intake Depth (ft): 33.8
Start/Stop Purge Time: 1030/1116
Purge Rate (mL/min): 10000
Total Purge Volume (L): 460
Purge Method: Low-Flow Well Volume Other: –
Sampling Method: Pump Discharge Other: –

Sampling Date: 6/29/23
Sampler's Name: AN
Sample Collection Time: –
Sample Purge Rate (mL/min): –
Sample ID: –
Laboratory Analyses: –
QA/QC Collected? –
QA/QC I.D. –

All sample containers requiring chemical preservation properly preserved prior to demob from well? Yes No

Time	pH (SU)	Spec. Cond. (µS/cm)	ORP (mV)	DO (mg/L)	Temp. (°C)	Turbidity (NTUs)	DTW (ft btoc)	Purge Rate (mL/min)	Purged Volume (L)	Notes (Purge method, water clarity, odor, purge rate, issues with pump/well/weather/etc.)
1051	6.77	743.50	-1.8	0.02	20.88	863 AN	27.3	10000	210	
1056	6.77	745.92	-28.3	0.03	20.44	overrange	27.3	10000	260	
1101	6.78	753.73	-27.2	0.02	20.36	68.6	28.0	10000	310	
1106	6.78	756.16	-8.2	0.01	20.35	53.0	28.0	10000	360	
1111	6.78	759.90	-8.7	0.02	20.30	12.94	28.0	10000	410	
1116	6.77	747.9	-26.1	0.08	20.30	8.58 AN3	28.0	10000	460	
						AN	6/29/23			
Stabilizing Criteria	**+/- 0.1 SU**	**+/- 5%**		0.2 mg/L or 10% for DO > 0.5 mg/L (whichever is greater)		**< 5 NTUs**	**< 0.3 ft**	**> 100 mL < 250 mL**	**> 3L**	

Geosyntec consultants

GROUNDWATER SAMPLING LOG SHEET

Client: SCS
Site: Plant Hammond
Well ID: MW-54
Total Depth (ft): 38.8
Depth to Water (ft): 23.3
Well Diameter (in): 2
Well Volume (gal) = 0.041d²h: 2.54
Well Volume (L) = gal * 3.785: 9.61
d = well diameter (inches); h = length of water column (feet)
Well Type: (Flush) Stick Up
Well Lock: Yes (No)
Well Cap Condition: (Good) Replace
Well Tag Present: (Yes) No

Project No.: GW0S816
Location: AP-1
Pump Type/Model: monsoon
Tubing Material: poly
Pump Intake Depth (ft): 33.8
Start/Stop Purge Time: 1125/1237
Purge Rate (mL/min): 250
Total Purge Volume (L): 18
Purge Method: (Low-Flow) Well Volume Other: —
Sampling Method: Pump Discharge Other: —

Sampling Date: 6/29/23
Sampler's Name: AN
Sample Collection Time: —
Sample Purge Rate (mL/min): —
Sample ID: —
Laboratory Analyses: —
QA/QC Collected? —
QA/QC I D. —

All sample containers requiring chemical preservation properly preserved prior to demob from well? Yes No

Time	pH (SU)	Spec. Cond. (µS/cm)	ORP (mV)	DO (mg/L)	Temp. (°C)	Turbidity (NTUs)	DTW (ft btoc)	Purge Rate (mL/min)	Purged Volume (L)	Notes (Purge method, water clarity, odor, purge rate, issues with pump/well/weather/etc.)
1127	6.69	748.01	-2.0	0.30	22.48	11.5	23.6	250	0.5	
1132	6.73	750.46	-22.8	0.15	24.17	12.80	23.6	250	1.75	
1137	6.74	739.19	-26.3	0.12	24.78	11.44	23.6	250	3	
1142	6.74	706.06	-26.6	0.11	23.82	37.7	23.6	250	4.25	
1147	6.71	708.108	-26.6	0.12	23.33	69.0	23.6	250	5.5	
1152	6.71	718.13	-28.5	0.11	24.04	56.1	23.6	250	6.75	
1157	6.71	723.43	-29.9	0.11	23.29	50.4	23.6	250	8	
1202	6.72	707.70	-8.4	0.10	25.15	7.0	23.6	250	9.25	
1207	6.70	704.43	-23.2	0.14	23.18	58.1	23.6	250	10.5	
1212	6.72	728.86	-24.4	0.08	23.18	27.0	23.6	250	11.75	
1217	6.67	684.7	-13.5	0.28	23.164	600+N	23.6	250	13	
1222	6.73	711.77	-17.7	0.11	22.27	108.6	23.6	250	14.25	
1227	6.77	737.69	-37.4	0.02	21.87	11.9	23.6	250	15.5	
1232	6.77	740.76	-46.6	0.89	21.87	5.18	23.6	250	16.75	
1237	6.77	746.91	-36.5	0.02	21.85	3.54	21.85	250	~~18~~	
										AN 6/29/23
Stabilizing Criteria	**+/- 0.1 SU**	**+/- 5%**		0.2 mg/L or 10% for DO > 0.5 mg/L (whichever is greater)		**< 5 NTUs**	**< 0.3 ft**	**> 100 mL < 250 mL**	**> 3L**	

Geosyntec consultants

EQUIPMENT CALIBRATION LOG

Field Technician: Mana Neely | Date: 6/27/23 | Time (start): 0735 | Time (finish): 0755

smarTroll SN: 883553 | Turbidity Meter Type: LaMote 2020we | SN: 7007-1416

Weather Conditions: 66-89°, sunny | Facility and Unit: Plant Hammond | Project No.: GW6581

Calibration log

	Standard Lot # / Date of Expiration	Temp of Standard (°C)	Value of Standard	Initial Reading	Post-Cal Reading	Acceptable Range	Pass?	Comments
Specific Conductance (µS/cm)	22250153 11/23	27.06	4490	4,501.1	4486.0	+/- 5 %	(Yes) No	
pH (4)			4.00	4.18	3.99	+/- 0.1 SU	(Yes) No	
Mid-Day pH (4) check	—	—	4.00	—	—	+/- 0.1 SU	Yes No	
pH (7)	2216893 11/23	26.72	7.00	6.97	7.00	+/- 0.1 SU	(Yes) No	
Mid-Day pH (7) check	—	—	7.00	—	—	+/- 0.1 SU	Yes No	
pH (10)	21320202 12/23	26.92	10.00	9.89	10.00	+/- 0.1 SU	(Yes) No	
Mid-Day pH (10) check	—	—	10.00	—	—	+/- 0.1 SU	Yes No	
ORP (mV)	2390144 11/23	25.06	228	217.0	228.2	+/- 20mV	(Yes) No	
DO (%) (1pt, 100% water saturated air cal)	[redacted]		100	98.78%	99.78%	+/- 6 % saturation	(Yes) No	
Turbidity 0 NTU			0	0.04	-0.01	+/- 0.5 NTU	(Yes) No	
Turbidity 1 NTU			1.00	~~0.37~~ 0.80	0.99	+/- 0.5 NTU	(Yes) No	
Turbidity 10 NTU			10.00	12.42	9.87	+/- 0.5 NTU	(Yes) No	

Geosyntec consultants

EQUIPMENT CALIBRATION LOG

Field Technician: Mana Neely

Date: 6/28/23

Time (start): 0730

Time (finish): 0800

smarTroll SN: 883553

Turbidity Meter Type: LaMote 2020we

SN: 7007-1416

Weather Conditions: 62-92°; sunny

Facility and Unit: Plant Hammond

Project No.: GW6581

Calibration log

	Standard Lot # / Date of Expiration	Temp of Standard (°C)	Value of Standard	Initial Reading	Post-Cal Reading	Acceptable Range	Pass?	Comments
Specific Conductance (µS/cm)	22250153 11/23	24.51	4490	4435.3	4490.8	+/- 5 %	(Yes) No	
pH (4)			4.00	4.21	3.99	+/- 0.1 SU	(Yes) No	
Mid-Day pH (4) check	–	–	4.00	–	–	+/- 0.1 SU	Yes No	
pH (7)	22108933 11/23	23.80	7.00	7.00	7.00	+/- 0.1 SU	(Yes) No	
Mid-Day pH (7) check	–	–	7.00	–	–	+/- 0.1 SU	Yes No	
pH (10)	21320202 12/23	24.24	10.00	9.85	10.00	+/- 0.1 SU	(Yes) No	
Mid-Day pH (10) check	–	–	10.00	–	–	+/- 0.1 SU	Yes No	
ORP (mV)	21390144 11/23	22.83	228	231	228.4	+/- 20mV	(Yes) No	
DO (%) (1pt, 100% water saturated air cal)	[redacted]		100	98.60	100.52	+/- 6 % saturation	(Yes) No	
Turbidity 0 NTU			0	-0.02	0.00	+/- 0.5 NTU	(Yes) No	
Turbidity 1 NTU			1.00	0.62	0.75	+/- 0.5 NTU	(Yes) No	
Turbidity 10 NTU			10.00	12.35	9.96	+/- 0.5 NTU	(Yes) No	

Geosyntec consultants

EQUIPMENT CALIBRATION LOG

Field Technician: Anana Neely

Date: 6/29/23

Time (start): 0735 Time (finish): 0755

smarTroll SN: 883553

Turbidity Meter Type: LaMote 2020we

SN: 7007-1416

Weather Conditions: 65-94° sunny

Facility and Unit: Plant Hammond

Project No.: GW6581

Calibration log

	Standard Lot # / Date of Expiration	Temp of Standard (°C)	Value of Standard	Initial Reading	Post-Cal Reading	Acceptable Range	Pass?	Comments
Specific Conductance (µS/cm)	22250153 11/23	25.95	4490	4478.9	4494.5	+/- 5 %	(Yes) No	
pH (4)			4.00	4.24	3.99	+/- 0.1 SU	(Yes) No	
Mid-Day pH (4) check	–	–	4.00	–	–	+/- 0.1 SU	Yes No	
pH (7)	2216893 11/23	25.14	7.00	6.91	7.00	+/- 0.1 SU	(Yes) No	
Mid-Day pH (7) check	–	–	7.00	–	–	+/- 0.1 SU	Yes No	
pH (10)	21320202 12/23	25.92	10.00	9.86	10.00	+/- 0.1 SU	(Yes) No	
Mid-Day pH (10) check	–	–	10.00	–	–	+/- 0.1 SU	Yes No	
ORP (mV)	21390144 11/23	23.50	228	226.2	228.0	+/- 20mV	(Yes) No	
DO (%) (1pt, 100% water saturated air cal)	[redacted]		100	99.65	100.48	+/- 6 % saturation	(Yes) No	
Turbidity 0 NTU			0	0.27	0.00	+/- 0.5 NTU	(Yes) No	
Turbidity 1 NTU			1.00	0.42	0.95	+/- 0.5 NTU	(Yes) No	
Turbidity 10 NTU			10.00	9.82	10.04	+/- 0.5 NTU	(Yes) No	

APPENDIX D

Certified Well Survey Data

Well ID	Casing Northing	Casing Easting	Top of Casing Elevation	Nail or Pad Northing	Nail or Pad Easting	Nail or Pad Elevation	Description
MW-53	1548835.51	1942399.62	580.59	1548835.08	1942400.25	577.64	NAIL ON PAD
PT-09	1549049.74	1942393.11	580.35	1549049.80	1942394.19	577.33	NAIL ON PAD
PT-10	1549040.34	1942413.88	580.44	1549040.30	1942415.26	577.39	NAIL ON PAD
Benchmark	Northing	Easting	Elevation				
BM-H3	1548237.413	1941013.571	574.63				

SURVEY DATA CERTIFICATION FOR SOUTHERN COMPANY TO DETERMINE NORTHING, EASTING, AND VERTICAL ELEVATION OF THE NAIL IN THE CONCRETE PAD & THE PVC WELL CASING. DATE OF FIELD SURVEY & INSPECTION: 07/11/2023. FIELD SURVEY POSITIONAL TOLERANCE=0.5 FEET HORIZONTAL-NAD'83, 0.01 VERTICAL-NAVD '88. EQUIPMENT USED FOR HORIZONTAL LOCATION: TRIMBLE R12 RTK GPS & TRIMBLE S5 ROBOTIC TOTAL STATION. THE VERTICAL LOCATION OF EACH SURVEYED POINT WAS ESTABLISHED BASED UPON LEVEL RUNS WITH A DIGITAL LEVEL LOOP FROM VERTICAL CONTROL ESTABLISHED BY ON-SITE BENCHMARK BM-H3 SET BY GEL SOLUTIONS USING A TRIMBLE DINI LEVEL

7/17/2023

COA - LS003119
Exp. 12/31/2023

Well ID	Casing Northing	Casing Easting	Top of Casing	Nail or Pad Northing	Nail or Pad Easting	Nail or Pad Elevation	Description
MW-54	1548699.509	1940805.028	592.66	1548699.426	1940804.22	592.977	Nail on Pad
PT-07	1548675.239	1940933.391	591.75	1548675.251	1940932.71	591.998	Nail on Pad
PT-08	1548666.824	1940929.582	591.83	1548666.667	1940928.983	592.104	Nail on Pad
Benchmark	Northing	Easting	Elevation				
BM-H3	1548237.413	1941013.571	574.63				

SURVEY DATA CERTIFICATION FOR SOUTHERN COMPANY TO DETERMINE NORTHING, EASTING, AND VERTICAL ELEVATION OF THE NAIL IN THE CONCRETE PAD & THE PVC WELL CASING. DATE OF FIELD SURVEY & INSPECTION: 08/29/2023. FIELD SURVEY POSITIONAL TOLERANCE=0.5 FEET HORIZONTAL-NAD'83, 0.01 VERTICAL-NAVD '88. EQUIPMENT USED FOR HORIZONTAL LOCATION: TRIMBLE R12 RTK GPS & TRIMBLE S5 ROBOTIC TOTAL STATION. THE VERTICAL LOCATION OF EACH SURVEYED POINT WAS ESTABLISHED BASED UPON LEVEL RUNS WITH A DIGITAL LEVEL LOOP FROM VERTICAL CONTROL ESTABLISHED BY ON-SITE BENCHMARK BM-H3 SET BY GEL SOLUTIONS USING A TRIMBLE DINI LEVEL

8/30/2023

COA - LS003119
Exp. 12/31/2023

APPENDIX B

Baseline Analytical Laboratory Results and Field Sampling Forms

Laboratory Analytical Reports

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

July 28, 2023

Kristen Jurinko
Southern Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, GA 30308

RE: Project: Hammond AP-1
Pace Project No.: 92677694

Dear Kristen Jurinko:

Enclosed are the analytical results for sample(s) received by the laboratory on July 17, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte
- Pace Analytical Services - Peachtree Corners, GA

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Bonnie Vang
bonnie.vang@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Kip Gray, Geosyntec
Christine Hug, Geosyntec Consultants, Inc.
Whitney Law, Geosyntec Consultants
Laura Midkiff, Southern Company
Caroline Nelson, Geosyntec

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Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: Hammond AP-1
Pace Project No.: 92677694

Pace Analytical Services Charlotte
South Carolina Laboratory ID: 99006
9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Laboratory ID: 99006
South Carolina Certification #: 99006001
South Carolina Drinking Water Cert. #: 99006003
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Louisiana DoH Drinking Water #: LA029
Virginia/VELAP Certification #: 460221

Pace Analytical Services Asheville
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Laboratory ID: 99030
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners
110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812
North Carolina Certification #: 381
South Carolina Certification #: 98011001
Virginia Certification #: 460204

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SAMPLE SUMMARY

Project: Hammond AP-1
Pace Project No.: 92677694

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92677694001	**HAM-HGWC-8**	Water	07/13/23 10:35	07/17/23 12:30
92677694002	**HAM-PT-09**	Water	07/13/23 12:47	07/17/23 12:30
92677694003	**HAM-PT-10**	Water	07/13/23 14:15	07/17/23 12:30
92677694004	**HAM-PT-07**	Water	07/13/23 16:22	07/17/23 12:30
92677694005	**HAM-PT-08**	Water	07/13/23 17:51	07/17/23 12:30
92677694006	**HAM-AP1-FD-01**	Water	07/13/23 00:00	07/17/23 12:30
92677694007	**HAM-AP1-FB-01**	Water	07/17/23 08:40	07/17/23 12:30
92677694008	**HAM-HGWC-13**	Water	07/17/23 11:47	07/17/23 12:30

REPORT OF LABORATORY ANALYSIS

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Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: Hammond AP-1
Pace Project No.: 92677694

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92677694001	**HAM-HGWC-8**	EPA 6010D	MS	6
		EPA 6020B	CW1	12
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	YEG	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92677694002	**HAM-PT-09**	EPA 6010D	MS	6
		EPA 6020B	CW1	12
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	YEG	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92677694003	**HAM-PT-10**	EPA 6010D	MS	6
		EPA 6020B	CW1	12
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92677694004	**HAM-PT-07**	EPA 6010D	MS	6
		EPA 6020B	CW1	12
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92677694005	**HAM-PT-08**	EPA 6010D	MS	6
		EPA 6020B	CW1	12
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92677694006	**HAM-AP1-FD-01**	EPA 6010D	MS	6
		EPA 6020B	CW1	12

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SAMPLE ANALYTE COUNT

Project: Hammond AP-1
Pace Project No.: 92677694

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92677694007	**HAM-AP1-FB-01**	EPA 6010D	MS	6
		EPA 6020B	CW1	12
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92677694008	**HAM-HGWC-13**	EPA 6010D	MS	6
		EPA 6020B	CW1	12
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3

PASI-A = Pace Analytical Services - Asheville
PASI-C = Pace Analytical Services - Charlotte
PASI-GA = Pace Analytical Services - Peachtree Corners, GA

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SUMMARY OF DETECTION

Project: Hammond AP-1
Pace Project No.: 92677694

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92677694001	**HAM-HGWC-8**					
	Performed by	CUSTOMER			07/17/23 17:16	
	pH	6.65	Std. Units		07/17/23 17:16	
EPA 6010D	Manganese	0.28	mg/L	0.040	07/20/23 15:39	
EPA 6010D	Potassium	6.9	mg/L	0.50	07/20/23 15:39	
EPA 6010D	Sodium	8.8	mg/L	1.0	07/20/23 15:39	M1
EPA 6010D	Calcium	107	mg/L	1.0	07/20/23 15:39	M1
EPA 6010D	Magnesium	14.9	mg/L	0.050	07/20/23 15:39	M1
EPA 6010D	Iron	0.27	mg/L	0.040	07/25/23 15:53	
EPA 6020B	Barium	0.047	mg/L	0.0050	07/19/23 17:55	
EPA 6020B	Beryllium	0.000073J	mg/L	0.00050	07/19/23 17:55	
EPA 6020B	Boron	2.0	mg/L	0.20	07/21/23 16:37	
EPA 6020B	Cadmium	0.00031J	mg/L	0.00050	07/19/23 17:55	
EPA 6020B	Cobalt	0.0015J	mg/L	0.0050	07/19/23 17:55	
EPA 6020B	Lithium	0.0015J	mg/L	0.030	07/19/23 17:55	
EPA 6020B	Molybdenum	0.30	mg/L	0.010	07/19/23 17:55	
EPA 6020B	Thallium	0.00026J	mg/L	0.0010	07/19/23 17:55	
SM 2540C-2015	Total Dissolved Solids	513	mg/L	25.0	07/18/23 15:24	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	136	mg/L	5.0	07/19/23 19:16	
SM 2320B-2011	Alkalinity, Total as CaCO3	136	mg/L	5.0	07/19/23 19:16	
EPA 300.0 Rev 2.1 1993	Chloride	47.9	mg/L	1.0	07/19/23 03:12	
EPA 300.0 Rev 2.1 1993	Fluoride	0.49	mg/L	0.10	07/19/23 03:12	
EPA 300.0 Rev 2.1 1993	Sulfate	163	mg/L	3.0	07/19/23 09:10	
92677694002	**HAM-PT-09**					
	Performed by	CUSTOMER			07/17/23 17:16	
	pH	6.57	Std. Units		07/17/23 17:16	
EPA 6010D	Iron	0.33	mg/L	0.040	07/25/23 16:08	
EPA 6010D	Manganese	0.79	mg/L	0.040	07/20/23 15:59	
EPA 6010D	Potassium	6.8	mg/L	0.50	07/20/23 15:59	
EPA 6010D	Sodium	10.6	mg/L	1.0	07/20/23 15:59	
EPA 6010D	Calcium	110	mg/L	1.0	07/20/23 15:59	
EPA 6010D	Magnesium	15.6	mg/L	0.050	07/20/23 15:59	
EPA 6020B	Antimony	0.0027J	mg/L	0.0030	07/19/23 18:19	
EPA 6020B	Barium	0.053	mg/L	0.0050	07/19/23 18:19	
EPA 6020B	Beryllium	0.000077J	mg/L	0.00050	07/19/23 18:19	
EPA 6020B	Boron	2.1	mg/L	0.20	07/21/23 16:55	
EPA 6020B	Cobalt	0.0045J	mg/L	0.0050	07/19/23 18:19	
EPA 6020B	Lithium	0.0013J	mg/L	0.030	07/19/23 18:19	
EPA 6020B	Molybdenum	0.065	mg/L	0.010	07/19/23 18:19	
SM 2540C-2015	Total Dissolved Solids	534	mg/L	25.0	07/18/23 15:24	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	144	mg/L	5.0	07/19/23 19:26	
SM 2320B-2011	Alkalinity, Total as CaCO3	144	mg/L	5.0	07/19/23 19:26	
EPA 300.0 Rev 2.1 1993	Chloride	55.3	mg/L	1.0	07/19/23 03:27	
EPA 300.0 Rev 2.1 1993	Fluoride	0.24	mg/L	0.10	07/19/23 03:27	
EPA 300.0 Rev 2.1 1993	Sulfate	160	mg/L	3.0	07/19/23 09:53	

REPORT OF LABORATORY ANALYSIS

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SUMMARY OF DETECTION

Project: Hammond AP-1
Pace Project No.: 92677694

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92677694003	**HAM-PT-10**					
	Performed by	CUSTOMER			07/17/23 17:16	
	pH	7.01	Std. Units		07/17/23 17:16	
EPA 6010D	Manganese	3.5	mg/L	0.040	07/20/23 16:14	
EPA 6010D	Potassium	7.1	mg/L	0.50	07/20/23 16:14	
EPA 6010D	Sodium	10.5	mg/L	1.0	07/20/23 16:14	
EPA 6010D	Calcium	127	mg/L	1.0	07/20/23 16:14	
EPA 6010D	Magnesium	16.8	mg/L	0.050	07/20/23 16:14	
EPA 6010D	Iron	3.1	mg/L	0.040	07/25/23 16:12	
EPA 6020B	Barium	0.074	mg/L	0.0050	07/19/23 18:25	
EPA 6020B	Boron	2.2	mg/L	0.20	07/21/23 17:01	
EPA 6020B	Cobalt	0.0026J	mg/L	0.0050	07/19/23 18:25	
EPA 6020B	Lithium	0.0014J	mg/L	0.030	07/19/23 18:25	
EPA 6020B	Molybdenum	0.10	mg/L	0.010	07/19/23 18:25	
SM 2540C-2015	Total Dissolved Solids	557	mg/L	25.0	07/18/23 15:24	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	185	mg/L	5.0	07/20/23 16:41	
SM 2320B-2011	Alkalinity, Total as CaCO3	185	mg/L	5.0	07/20/23 16:41	
EPA 300.0 Rev 2.1 1993	Chloride	67.2	mg/L	1.0	07/19/23 04:10	
EPA 300.0 Rev 2.1 1993	Fluoride	0.33	mg/L	0.10	07/19/23 04:10	
EPA 300.0 Rev 2.1 1993	Sulfate	145	mg/L	3.0	07/19/23 10:07	
92677694004	**HAM-PT-07**					
	Performed by	CUSTOMER			07/17/23 17:16	
	pH	6.76	Std. Units		07/17/23 17:16	
EPA 6010D	Manganese	8.2	mg/L	0.040	07/20/23 16:19	
EPA 6010D	Potassium	6.0	mg/L	0.50	07/20/23 16:19	
EPA 6010D	Sodium	6.1	mg/L	1.0	07/20/23 16:19	
EPA 6010D	Calcium	168	mg/L	1.0	07/20/23 16:19	
EPA 6010D	Magnesium	18.5	mg/L	0.050	07/20/23 16:19	
EPA 6010D	Iron	23.8	mg/L	0.040	07/25/23 16:17	
EPA 6020B	Arsenic	0.34	mg/L	0.010	07/19/23 18:30	
EPA 6020B	Barium	0.056	mg/L	0.0050	07/19/23 18:30	
EPA 6020B	Beryllium	0.00012J	mg/L	0.00050	07/19/23 18:30	
EPA 6020B	Boron	1.0	mg/L	0.20	07/21/23 17:07	
EPA 6020B	Cobalt	0.13	mg/L	0.0050	07/19/23 18:30	
EPA 6020B	Lithium	0.060	mg/L	0.030	07/19/23 18:30	
EPA 6020B	Molybdenum	0.017	mg/L	0.010	07/19/23 18:30	
EPA 6020B	Thallium	0.00024J	mg/L	0.0010	07/19/23 18:30	
SM 2540C-2015	Total Dissolved Solids	808	mg/L	25.0	07/18/23 15:24	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	102	mg/L	5.0	07/20/23 16:53	
SM 2320B-2011	Alkalinity, Total as CaCO3	102	mg/L	5.0	07/20/23 16:53	
EPA 300.0 Rev 2.1 1993	Chloride	15.7	mg/L	1.0	07/19/23 04:24	
EPA 300.0 Rev 2.1 1993	Fluoride	0.36	mg/L	0.10	07/19/23 04:24	
EPA 300.0 Rev 2.1 1993	Sulfate	411	mg/L	9.0	07/19/23 10:21	
92677694005	**HAM-PT-08**					
	Performed by	CUSTOMER			07/17/23 17:17	

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(704)875-9092

SUMMARY OF DETECTION

Project: Hammond AP-1
Pace Project No.: 92677694

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92677694005	**HAM-PT-08**					
	pH	6.66	Std. Units		07/17/23 17:17	
EPA 6010D	Manganese	8.7	mg/L	0.040	07/20/23 16:24	
EPA 6010D	Potassium	6.0	mg/L	0.50	07/20/23 16:24	
EPA 6010D	Sodium	6.9	mg/L	1.0	07/20/23 16:24	
EPA 6010D	Calcium	161	mg/L	1.0	07/20/23 16:24	
EPA 6010D	Magnesium	18.9	mg/L	0.050	07/20/23 16:24	
EPA 6010D	Iron	24.2	mg/L	0.040	07/25/23 16:38	
EPA 6020B	Arsenic	0.33	mg/L	0.010	07/19/23 18:36	
EPA 6020B	Barium	0.051	mg/L	0.0050	07/19/23 18:36	
EPA 6020B	Beryllium	0.00011J	mg/L	0.00050	07/19/23 18:36	
EPA 6020B	Boron	1.0	mg/L	0.20	07/21/23 17:13	
EPA 6020B	Cobalt	0.031	mg/L	0.0050	07/19/23 18:36	
EPA 6020B	Lithium	0.065	mg/L	0.030	07/19/23 18:36	
EPA 6020B	Molybdenum	0.0079J	mg/L	0.010	07/19/23 18:36	
SM 2540C-2015	Total Dissolved Solids	734	mg/L	25.0	07/18/23 15:25	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	107	mg/L	5.0	07/20/23 17:03	
SM 2320B-2011	Alkalinity, Total as CaCO3	107	mg/L	5.0	07/20/23 17:03	
SM 4500-S2D-2011	Sulfide	0.036J	mg/L	0.10	07/20/23 03:42	
EPA 300.0 Rev 2.1 1993	Chloride	17.0	mg/L	1.0	07/19/23 04:38	
EPA 300.0 Rev 2.1 1993	Fluoride	0.36	mg/L	0.10	07/19/23 04:38	
EPA 300.0 Rev 2.1 1993	Sulfate	417	mg/L	8.0	07/19/23 12:00	
92677694006	**HAM-AP1-FD-01**					
EPA 6010D	Iron	24.6	mg/L	0.040	07/25/23 16:48	
EPA 6010D	Manganese	8.6	mg/L	0.040	07/20/23 16:29	
EPA 6010D	Potassium	6.4	mg/L	0.50	07/20/23 16:29	
EPA 6010D	Sodium	6.6	mg/L	1.0	07/20/23 16:29	
EPA 6010D	Calcium	180	mg/L	1.0	07/20/23 16:29	
EPA 6010D	Magnesium	19.6	mg/L	0.050	07/20/23 16:29	
EPA 6020B	Arsenic	0.34	mg/L	0.010	07/19/23 18:54	
EPA 6020B	Barium	0.057	mg/L	0.0050	07/19/23 18:54	
EPA 6020B	Beryllium	0.00011J	mg/L	0.00050	07/19/23 18:54	
EPA 6020B	Boron	0.99	mg/L	0.20	07/21/23 17:19	
EPA 6020B	Cobalt	0.14	mg/L	0.0050	07/19/23 18:54	
EPA 6020B	Lithium	0.060	mg/L	0.030	07/19/23 18:54	
EPA 6020B	Molybdenum	0.018	mg/L	0.010	07/19/23 18:54	
EPA 6020B	Thallium	0.00025J	mg/L	0.0010	07/19/23 18:54	
SM 2540C-2015	Total Dissolved Solids	804	mg/L	25.0	07/18/23 15:25	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	102	mg/L	5.0	07/20/23 17:12	
SM 2320B-2011	Alkalinity, Total as CaCO3	102	mg/L	5.0	07/20/23 17:12	
EPA 300.0 Rev 2.1 1993	Chloride	15.6	mg/L	1.0	07/19/23 04:53	
EPA 300.0 Rev 2.1 1993	Fluoride	0.31	mg/L	0.10	07/19/23 04:53	
EPA 300.0 Rev 2.1 1993	Sulfate	428	mg/L	9.0	07/19/23 12:56	
92677694008	**HAM-HGWC-13**					
	Performed by	CUSTOMER			07/17/23 17:17	
	pH	6.67	Std. Units		07/17/23 17:17	

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SUMMARY OF DETECTION

Project: Hammond AP-1
Pace Project No.: 92677694

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92677694008	**HAM-HGWC-13**					
EPA 6010D	Iron	7.2	mg/L	0.040	07/20/23 16:39	
EPA 6010D	Manganese	8.9	mg/L	0.040	07/20/23 16:39	
EPA 6010D	Potassium	6.0	mg/L	0.50	07/20/23 16:39	
EPA 6010D	Sodium	6.8	mg/L	1.0	07/20/23 16:39	
EPA 6010D	Calcium	179	mg/L	1.0	07/20/23 16:39	
EPA 6010D	Magnesium	19.5	mg/L	0.050	07/20/23 16:39	
EPA 6020B	Arsenic	0.63	mg/L	0.010	07/19/23 19:06	
EPA 6020B	Barium	0.056	mg/L	0.0050	07/19/23 19:06	
EPA 6020B	Beryllium	0.00012J	mg/L	0.00050	07/19/23 19:06	
EPA 6020B	Boron	1.0	mg/L	0.20	07/21/23 17:43	
EPA 6020B	Cobalt	0.018	mg/L	0.0050	07/19/23 19:06	
EPA 6020B	Lithium	0.048	mg/L	0.030	07/19/23 19:06	
EPA 6020B	Molybdenum	0.017	mg/L	0.010	07/19/23 19:06	
EPA 6020B	Thallium	0.00030J	mg/L	0.0010	07/19/23 19:06	
SM 2540C-2015	Total Dissolved Solids	817	mg/L	25.0	07/18/23 15:31	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	140	mg/L	5.0	07/20/23 17:26	
SM 2320B-2011	Alkalinity, Total as CaCO3	140	mg/L	5.0	07/20/23 17:26	
EPA 300.0 Rev 2.1 1993	Chloride	17.8	mg/L	1.0	07/19/23 05:50	
EPA 300.0 Rev 2.1 1993	Fluoride	0.32	mg/L	0.10	07/19/23 05:50	
EPA 300.0 Rev 2.1 1993	Sulfate	393	mg/L	8.0	07/19/23 13:10	M1

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92677694

Sample: HAM-HGWC-8 **Lab ID: 92677694001** Collected: 07/13/23 10:35 Received: 07/17/23 12:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		07/17/23 17:16		
pH	**6.65**	Std. Units			1		07/17/23 17:16		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Manganese	**0.28**	mg/L	0.040	0.011	1	07/20/23 09:50	07/20/23 15:39	7439-96-5	
Potassium	**6.9**	mg/L	0.50	0.15	1	07/20/23 09:50	07/20/23 15:39	7440-09-7	
Sodium	**8.8**	mg/L	1.0	0.58	1	07/20/23 09:50	07/20/23 15:39	7440-23-5	M1
Calcium	**107**	mg/L	1.0	0.12	1	07/20/23 09:50	07/20/23 15:39	7440-70-2	M1
Magnesium	**14.9**	mg/L	0.050	0.012	1	07/20/23 09:50	07/20/23 15:39	7439-95-4	M1
Iron	**0.27**	mg/L	0.040	0.025	1	07/20/23 09:50	07/25/23 15:53	7439-89-6	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.0012	1	07/18/23 13:46	07/19/23 17:55	7440-36-0	
Arsenic	ND	mg/L	0.010	0.0037	1	07/18/23 13:46	07/19/23 17:55	7440-38-2	
Barium	**0.047**	mg/L	0.0050	0.00067	1	07/18/23 13:46	07/19/23 17:55	7440-39-3	
Beryllium	**0.000073J**	mg/L	0.00050	0.000054	1	07/18/23 13:46	07/19/23 17:55	7440-41-7	
Boron	**2.0**	mg/L	0.20	0.043	5	07/18/23 13:46	07/21/23 16:37	7440-42-8	
Cadmium	**0.00031J**	mg/L	0.00050	0.00011	1	07/18/23 13:46	07/19/23 17:55	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	07/18/23 13:46	07/19/23 17:55	7440-47-3	
Cobalt	**0.0015J**	mg/L	0.0050	0.00039	1	07/18/23 13:46	07/19/23 17:55	7440-48-4	
Lithium	**0.0015J**	mg/L	0.030	0.00073	1	07/18/23 13:46	07/19/23 17:55	7439-93-2	
Molybdenum	**0.30**	mg/L	0.010	0.00074	1	07/18/23 13:46	07/19/23 17:55	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	07/18/23 13:46	07/19/23 17:55	7782-49-2	
Thallium	**0.00026J**	mg/L	0.0010	0.00018	1	07/18/23 13:46	07/19/23 17:55	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	07/27/23 12:00	07/27/23 14:51	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**513**	mg/L	25.0	25.0	1		07/18/23 15:24		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**136**	mg/L	5.0	5.0	1		07/19/23 19:16		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		07/19/23 19:16		
Alkalinity, Total as CaCO3	**136**	mg/L	5.0	5.0	1		07/19/23 19:16		

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92677694

Sample: HAM-HGWC-8 **Lab ID: 92677694001** Collected: 07/13/23 10:35 Received: 07/17/23 12:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		07/20/23 03:39	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**47.9**	mg/L	1.0	0.60	1		07/19/23 03:12	16887-00-6	
Fluoride	**0.49**	mg/L	0.10	0.050	1		07/19/23 03:12	16984-48-8	
Sulfate	**163**	mg/L	3.0	1.5	3		07/19/23 09:10	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92677694

Sample: HAM-PT-09 **Lab ID: 92677694002** Collected: 07/13/23 12:47 Received: 07/17/23 12:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		07/17/23 17:16		
pH	**6.57**	Std. Units			1		07/17/23 17:16		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.33**	mg/L	0.040	0.025	1	07/20/23 09:50	07/25/23 16:08	7439-89-6	
Manganese	**0.79**	mg/L	0.040	0.011	1	07/20/23 09:50	07/20/23 15:59	7439-96-5	
Potassium	**6.8**	mg/L	0.50	0.15	1	07/20/23 09:50	07/20/23 15:59	7440-09-7	
Sodium	**10.6**	mg/L	1.0	0.58	1	07/20/23 09:50	07/20/23 15:59	7440-23-5	
Calcium	**110**	mg/L	1.0	0.12	1	07/20/23 09:50	07/20/23 15:59	7440-70-2	
Magnesium	**15.6**	mg/L	0.050	0.012	1	07/20/23 09:50	07/20/23 15:59	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.0027J**	mg/L	0.0030	0.0012	1	07/18/23 13:46	07/19/23 18:19	7440-36-0	
Arsenic	ND	mg/L	0.010	0.0037	1	07/18/23 13:46	07/19/23 18:19	7440-38-2	
Barium	**0.053**	mg/L	0.0050	0.00067	1	07/18/23 13:46	07/19/23 18:19	7440-39-3	
Beryllium	**0.000077J**	mg/L	0.00050	0.000054	1	07/18/23 13:46	07/19/23 18:19	7440-41-7	
Boron	**2.1**	mg/L	0.20	0.043	5	07/18/23 13:46	07/21/23 16:55	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	07/18/23 13:46	07/19/23 18:19	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	07/18/23 13:46	07/19/23 18:19	7440-47-3	
Cobalt	**0.0045J**	mg/L	0.0050	0.00039	1	07/18/23 13:46	07/19/23 18:19	7440-48-4	
Lithium	**0.0013J**	mg/L	0.030	0.00073	1	07/18/23 13:46	07/19/23 18:19	7439-93-2	
Molybdenum	**0.065**	mg/L	0.010	0.00074	1	07/18/23 13:46	07/19/23 18:19	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	07/18/23 13:46	07/19/23 18:19	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	07/18/23 13:46	07/19/23 18:19	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	07/27/23 12:00	07/27/23 14:53	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**534**	mg/L	25.0	25.0	1		07/18/23 15:24		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**144**	mg/L	5.0	5.0	1		07/19/23 19:26		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		07/19/23 19:26		
Alkalinity, Total as CaCO3	**144**	mg/L	5.0	5.0	1		07/19/23 19:26		

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92677694

Sample: HAM-PT-09 **Lab ID: 92677694002** Collected: 07/13/23 12:47 Received: 07/17/23 12:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		07/20/23 03:41	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**55.3**	mg/L	1.0	0.60	1		07/19/23 03:27	16887-00-6	
Fluoride	**0.24**	mg/L	0.10	0.050	1		07/19/23 03:27	16984-48-8	
Sulfate	**160**	mg/L	3.0	1.5	3		07/19/23 09:53	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92677694

Sample: HAM-PT-10 **Lab ID: 92677694003** Collected: 07/13/23 14:15 Received: 07/17/23 12:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		07/17/23 17:16		
pH	**7.01**	Std. Units			1		07/17/23 17:16		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Manganese	**3.5**	mg/L	0.040	0.011	1	07/20/23 09:50	07/20/23 16:14	7439-96-5	
Potassium	**7.1**	mg/L	0.50	0.15	1	07/20/23 09:50	07/20/23 16:14	7440-09-7	
Sodium	**10.5**	mg/L	1.0	0.58	1	07/20/23 09:50	07/20/23 16:14	7440-23-5	
Calcium	**127**	mg/L	1.0	0.12	1	07/20/23 09:50	07/20/23 16:14	7440-70-2	
Magnesium	**16.8**	mg/L	0.050	0.012	1	07/20/23 09:50	07/20/23 16:14	7439-95-4	
Iron	**3.1**	mg/L	0.040	0.025	1	07/20/23 09:50	07/25/23 16:12	7439-89-6	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.0012	1	07/18/23 13:46	07/19/23 18:25	7440-36-0	
Arsenic	ND	mg/L	0.010	0.0037	1	07/18/23 13:46	07/19/23 18:25	7440-38-2	
Barium	**0.074**	mg/L	0.0050	0.00067	1	07/18/23 13:46	07/19/23 18:25	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	07/18/23 13:46	07/19/23 18:25	7440-41-7	
Boron	**2.2**	mg/L	0.20	0.043	5	07/18/23 13:46	07/21/23 17:01	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	07/18/23 13:46	07/19/23 18:25	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	07/18/23 13:46	07/19/23 18:25	7440-47-3	
Cobalt	**0.0026J**	mg/L	0.0050	0.00039	1	07/18/23 13:46	07/19/23 18:25	7440-48-4	
Lithium	**0.0014J**	mg/L	0.030	0.00073	1	07/18/23 13:46	07/19/23 18:25	7439-93-2	
Molybdenum	**0.10**	mg/L	0.010	0.00074	1	07/18/23 13:46	07/19/23 18:25	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	07/18/23 13:46	07/19/23 18:25	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	07/18/23 13:46	07/19/23 18:25	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	07/27/23 12:00	07/27/23 15:09	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**557**	mg/L	25.0	25.0	1		07/18/23 15:24		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**185**	mg/L	5.0	5.0	1		07/20/23 16:41		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		07/20/23 16:41		
Alkalinity, Total as CaCO3	**185**	mg/L	5.0	5.0	1		07/20/23 16:41		

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92677694

Sample: HAM-PT-10 **Lab ID: 92677694003** Collected: 07/13/23 14:15 Received: 07/17/23 12:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		07/20/23 03:41	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**67.2**	mg/L	1.0	0.60	1		07/19/23 04:10	16887-00-6	
Fluoride	**0.33**	mg/L	0.10	0.050	1		07/19/23 04:10	16984-48-8	
Sulfate	**145**	mg/L	3.0	1.5	3		07/19/23 10:07	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92677694

Sample: HAM-PT-07 **Lab ID: 92677694004** Collected: 07/13/23 16:22 Received: 07/17/23 12:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		07/17/23 17:16		
pH	**6.76**	Std. Units			1		07/17/23 17:16		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Manganese	**8.2**	mg/L	0.040	0.011	1	07/20/23 09:50	07/20/23 16:19	7439-96-5	
Potassium	**6.0**	mg/L	0.50	0.15	1	07/20/23 09:50	07/20/23 16:19	7440-09-7	
Sodium	**6.1**	mg/L	1.0	0.58	1	07/20/23 09:50	07/20/23 16:19	7440-23-5	
Calcium	**168**	mg/L	1.0	0.12	1	07/20/23 09:50	07/20/23 16:19	7440-70-2	
Magnesium	**18.5**	mg/L	0.050	0.012	1	07/20/23 09:50	07/20/23 16:19	7439-95-4	
Iron	**23.8**	mg/L	0.040	0.025	1	07/20/23 09:50	07/25/23 16:17	7439-89-6	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.0012	1	07/18/23 13:46	07/19/23 18:30	7440-36-0	
Arsenic	**0.34**	mg/L	0.010	0.0037	1	07/18/23 13:46	07/19/23 18:30	7440-38-2	
Barium	**0.056**	mg/L	0.0050	0.00067	1	07/18/23 13:46	07/19/23 18:30	7440-39-3	
Beryllium	**0.00012J**	mg/L	0.00050	0.000054	1	07/18/23 13:46	07/19/23 18:30	7440-41-7	
Boron	**1.0**	mg/L	0.20	0.043	5	07/18/23 13:46	07/21/23 17:07	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	07/18/23 13:46	07/19/23 18:30	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	07/18/23 13:46	07/19/23 18:30	7440-47-3	
Cobalt	**0.13**	mg/L	0.0050	0.00039	1	07/18/23 13:46	07/19/23 18:30	7440-48-4	
Lithium	**0.060**	mg/L	0.030	0.00073	1	07/18/23 13:46	07/19/23 18:30	7439-93-2	
Molybdenum	**0.017**	mg/L	0.010	0.00074	1	07/18/23 13:46	07/19/23 18:30	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	07/18/23 13:46	07/19/23 18:30	7782-49-2	
Thallium	**0.00024J**	mg/L	0.0010	0.00018	1	07/18/23 13:46	07/19/23 18:30	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	07/27/23 12:00	07/27/23 15:12	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**808**	mg/L	25.0	25.0	1		07/18/23 15:24		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**102**	mg/L	5.0	5.0	1		07/20/23 16:53		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		07/20/23 16:53		
Alkalinity, Total as CaCO3	**102**	mg/L	5.0	5.0	1		07/20/23 16:53		

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92677694

Sample: HAM-PT-07 **Lab ID: 92677694004** Collected: 07/13/23 16:22 Received: 07/17/23 12:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		07/20/23 03:42	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**15.7**	mg/L	1.0	0.60	1		07/19/23 04:24	16887-00-6	
Fluoride	**0.36**	mg/L	0.10	0.050	1		07/19/23 04:24	16984-48-8	
Sulfate	**411**	mg/L	9.0	4.5	9		07/19/23 10:21	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92677694

Sample: HAM-PT-08 **Lab ID: 92677694005** Collected: 07/13/23 17:51 Received: 07/17/23 12:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		07/17/23 17:17		
pH	**6.66**	Std. Units			1		07/17/23 17:17		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Manganese	**8.7**	mg/L	0.040	0.011	1	07/20/23 09:50	07/20/23 16:24	7439-96-5	
Potassium	**6.0**	mg/L	0.50	0.15	1	07/20/23 09:50	07/20/23 16:24	7440-09-7	
Sodium	**6.9**	mg/L	1.0	0.58	1	07/20/23 09:50	07/20/23 16:24	7440-23-5	
Calcium	**161**	mg/L	1.0	0.12	1	07/20/23 09:50	07/20/23 16:24	7440-70-2	
Magnesium	**18.9**	mg/L	0.050	0.012	1	07/20/23 09:50	07/20/23 16:24	7439-95-4	
Iron	**24.2**	mg/L	0.040	0.025	1	07/20/23 09:50	07/25/23 16:38	7439-89-6	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.0012	1	07/18/23 13:46	07/19/23 18:36	7440-36-0	
Arsenic	**0.33**	mg/L	0.010	0.0037	1	07/18/23 13:46	07/19/23 18:36	7440-38-2	
Barium	**0.051**	mg/L	0.0050	0.00067	1	07/18/23 13:46	07/19/23 18:36	7440-39-3	
Beryllium	**0.00011J**	mg/L	0.00050	0.000054	1	07/18/23 13:46	07/19/23 18:36	7440-41-7	
Boron	**1.0**	mg/L	0.20	0.043	5	07/18/23 13:46	07/21/23 17:13	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	07/18/23 13:46	07/19/23 18:36	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	07/18/23 13:46	07/19/23 18:36	7440-47-3	
Cobalt	**0.031**	mg/L	0.0050	0.00039	1	07/18/23 13:46	07/19/23 18:36	7440-48-4	
Lithium	**0.065**	mg/L	0.030	0.00073	1	07/18/23 13:46	07/19/23 18:36	7439-93-2	
Molybdenum	**0.0079J**	mg/L	0.010	0.00074	1	07/18/23 13:46	07/19/23 18:36	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	07/18/23 13:46	07/19/23 18:36	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	07/18/23 13:46	07/19/23 18:36	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	07/27/23 12:00	07/27/23 15:14	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**734**	mg/L	25.0	25.0	1		07/18/23 15:25		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**107**	mg/L	5.0	5.0	1		07/20/23 17:03		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		07/20/23 17:03		
Alkalinity, Total as CaCO3	**107**	mg/L	5.0	5.0	1		07/20/23 17:03		

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92677694

Sample: HAM-PT-08 **Lab ID: 92677694005** Collected: 07/13/23 17:51 Received: 07/17/23 12:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	**0.036J**	mg/L	0.10	0.022	1		07/20/23 03:42	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**17.0**	mg/L	1.0	0.60	1		07/19/23 04:38	16887-00-6	
Fluoride	**0.36**	mg/L	0.10	0.050	1		07/19/23 04:38	16984-48-8	
Sulfate	**417**	mg/L	8.0	4.0	8		07/19/23 12:00	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92677694

Sample: HAM-AP1-FD-01 **Lab ID: 92677694006** Collected: 07/13/23 00:00 Received: 07/17/23 12:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**24.6**	mg/L	0.040	0.025	1	07/20/23 09:50	07/25/23 16:48	7439-89-6	
Manganese	**8.6**	mg/L	0.040	0.011	1	07/20/23 09:50	07/20/23 16:29	7439-96-5	
Potassium	**6.4**	mg/L	0.50	0.15	1	07/20/23 09:50	07/20/23 16:29	7440-09-7	
Sodium	**6.6**	mg/L	1.0	0.58	1	07/20/23 09:50	07/20/23 16:29	7440-23-5	
Calcium	**180**	mg/L	1.0	0.12	1	07/20/23 09:50	07/20/23 16:29	7440-70-2	
Magnesium	**19.6**	mg/L	0.050	0.012	1	07/20/23 09:50	07/20/23 16:29	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.0012	1	07/18/23 13:46	07/19/23 18:54	7440-36-0	
Arsenic	**0.34**	mg/L	0.010	0.0037	1	07/18/23 13:46	07/19/23 18:54	7440-38-2	
Barium	**0.057**	mg/L	0.0050	0.00067	1	07/18/23 13:46	07/19/23 18:54	7440-39-3	
Beryllium	**0.00011J**	mg/L	0.00050	0.000054	1	07/18/23 13:46	07/19/23 18:54	7440-41-7	
Boron	**0.99**	mg/L	0.20	0.043	5	07/18/23 13:46	07/21/23 17:19	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	07/18/23 13:46	07/19/23 18:54	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	07/18/23 13:46	07/19/23 18:54	7440-47-3	
Cobalt	**0.14**	mg/L	0.0050	0.00039	1	07/18/23 13:46	07/19/23 18:54	7440-48-4	
Lithium	**0.060**	mg/L	0.030	0.00073	1	07/18/23 13:46	07/19/23 18:54	7439-93-2	
Molybdenum	**0.018**	mg/L	0.010	0.00074	1	07/18/23 13:46	07/19/23 18:54	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	07/18/23 13:46	07/19/23 18:54	7782-49-2	
Thallium	**0.00025J**	mg/L	0.0010	0.00018	1	07/18/23 13:46	07/19/23 18:54	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	07/27/23 12:00	07/27/23 15:17	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**804**	mg/L	25.0	25.0	1		07/18/23 15:25		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**102**	mg/L	5.0	5.0	1		07/20/23 17:12		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		07/20/23 17:12		
Alkalinity, Total as CaCO3	**102**	mg/L	5.0	5.0	1		07/20/23 17:12		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		07/20/23 03:42	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**15.6**	mg/L	1.0	0.60	1		07/19/23 04:53	16887-00-6	
Fluoride	**0.31**	mg/L	0.10	0.050	1		07/19/23 04:53	16984-48-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92677694

Sample: HAM-AP1-FD-01 **Lab ID: 92677694006** Collected: 07/13/23 00:00 Received: 07/17/23 12:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**428**	mg/L	9.0	4.5	9		07/19/23 12:56	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92677694

Sample: HAM-AP1-FB-01 **Lab ID: 92677694007** Collected: 07/17/23 08:40 Received: 07/17/23 12:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Manganese	ND	mg/L	0.040	0.011	1	07/20/23 09:50	07/20/23 16:34	7439-96-5	
Potassium	ND	mg/L	0.50	0.15	1	07/20/23 09:50	07/20/23 16:34	7440-09-7	
Sodium	ND	mg/L	1.0	0.58	1	07/20/23 09:50	07/20/23 16:34	7440-23-5	
Calcium	ND	mg/L	1.0	0.12	1	07/20/23 09:50	07/20/23 16:34	7440-70-2	
Magnesium	ND	mg/L	0.050	0.012	1	07/20/23 09:50	07/20/23 16:34	7439-95-4	
Iron	ND	mg/L	0.040	0.025	1	07/20/23 09:50	07/25/23 16:53	7439-89-6	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.0012	1	07/18/23 13:46	07/19/23 19:00	7440-36-0	
Arsenic	ND	mg/L	0.010	0.0037	1	07/18/23 13:46	07/19/23 19:00	7440-38-2	
Barium	ND	mg/L	0.0050	0.00067	1	07/18/23 13:46	07/19/23 19:00	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	07/18/23 13:46	07/19/23 19:00	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	07/18/23 13:46	07/21/23 17:37	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	07/18/23 13:46	07/19/23 19:00	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	07/18/23 13:46	07/19/23 19:00	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	07/18/23 13:46	07/19/23 19:00	7440-48-4	
Lithium	ND	mg/L	0.030	0.00073	1	07/18/23 13:46	07/19/23 19:00	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	07/18/23 13:46	07/19/23 19:00	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	07/18/23 13:46	07/19/23 19:00	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	07/18/23 13:46	07/19/23 19:00	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	07/27/23 12:00	07/27/23 15:19	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		07/18/23 15:30		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		07/20/23 17:22		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		07/20/23 17:22		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		07/20/23 17:22		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		07/20/23 04:00	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		07/19/23 05:07	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		07/19/23 05:07	16984-48-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92677694

Sample: HAM-AP1-FB-01 **Lab ID: 92677694007** Collected: 07/17/23 08:40 Received: 07/17/23 12:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	ND	mg/L	1.0	0.50	1		07/19/23 05:07	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92677694

Sample: HAM-HGWC-13 **Lab ID: 92677694008** Collected: 07/17/23 11:47 Received: 07/17/23 12:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		07/17/23 17:17		
pH	**6.67**	Std. Units			1		07/17/23 17:17		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**7.2**	mg/L	0.040	0.025	1	07/20/23 09:50	07/20/23 16:39	7439-89-6	
Manganese	**8.9**	mg/L	0.040	0.011	1	07/20/23 09:50	07/20/23 16:39	7439-96-5	
Potassium	**6.0**	mg/L	0.50	0.15	1	07/20/23 09:50	07/20/23 16:39	7440-09-7	
Sodium	**6.8**	mg/L	1.0	0.58	1	07/20/23 09:50	07/20/23 16:39	7440-23-5	
Calcium	**179**	mg/L	1.0	0.12	1	07/20/23 09:50	07/20/23 16:39	7440-70-2	
Magnesium	**19.5**	mg/L	0.050	0.012	1	07/20/23 09:50	07/20/23 16:39	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.0012	1	07/18/23 13:46	07/19/23 19:06	7440-36-0	
Arsenic	**0.63**	mg/L	0.010	0.0037	1	07/18/23 13:46	07/19/23 19:06	7440-38-2	
Barium	**0.056**	mg/L	0.0050	0.00067	1	07/18/23 13:46	07/19/23 19:06	7440-39-3	
Beryllium	**0.00012J**	mg/L	0.00050	0.000054	1	07/18/23 13:46	07/19/23 19:06	7440-41-7	
Boron	**1.0**	mg/L	0.20	0.043	5	07/18/23 13:46	07/21/23 17:43	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	07/18/23 13:46	07/19/23 19:06	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	07/18/23 13:46	07/19/23 19:06	7440-47-3	
Cobalt	**0.018**	mg/L	0.0050	0.00039	1	07/18/23 13:46	07/19/23 19:06	7440-48-4	
Lithium	**0.048**	mg/L	0.030	0.00073	1	07/18/23 13:46	07/19/23 19:06	7439-93-2	
Molybdenum	**0.017**	mg/L	0.010	0.00074	1	07/18/23 13:46	07/19/23 19:06	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	07/18/23 13:46	07/19/23 19:06	7782-49-2	
Thallium	**0.00030J**	mg/L	0.0010	0.00018	1	07/18/23 13:46	07/19/23 19:06	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	07/27/23 12:00	07/27/23 15:22	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**817**	mg/L	25.0	25.0	1		07/18/23 15:31		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**140**	mg/L	5.0	5.0	1		07/20/23 17:26		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		07/20/23 17:26		
Alkalinity, Total as CaCO3	**140**	mg/L	5.0	5.0	1		07/20/23 17:26		

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92677694

Sample: HAM-HGWC-13 **Lab ID: 92677694008** Collected: 07/17/23 11:47 Received: 07/17/23 12:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		07/20/23 04:00	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**17.8**	mg/L	1.0	0.60	1		07/19/23 05:50	16887-00-6	
Fluoride	**0.32**	mg/L	0.10	0.050	1		07/19/23 05:50	16984-48-8	
Sulfate	**393**	mg/L	8.0	4.0	8		07/19/23 13:10	14808-79-8	M1

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92677694

QC Batch: 787863
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92677694001, 92677694002, 92677694003, 92677694004, 92677694005, 92677694006, 92677694007, 92677694008

METHOD BLANK: 4084625 Matrix: Water
Associated Lab Samples: 92677694001, 92677694002, 92677694003, 92677694004, 92677694005, 92677694006, 92677694007, 92677694008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	07/20/23 15:30	
Iron	mg/L	ND	0.040	0.025	07/25/23 15:43	
Magnesium	mg/L	ND	0.050	0.012	07/20/23 15:30	
Manganese	mg/L	ND	0.040	0.011	07/20/23 15:30	
Potassium	mg/L	ND	0.50	0.15	07/20/23 15:30	
Sodium	mg/L	ND	1.0	0.58	07/20/23 15:30	

LABORATORY CONTROL SAMPLE: 4084626

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	0.92J	92	80-120	
Iron	mg/L	1	0.99	99	80-120	
Magnesium	mg/L	1	0.93	93	80-120	
Manganese	mg/L	1	0.94	94	80-120	
Potassium	mg/L	1	0.88	88	80-120	
Sodium	mg/L	1	0.84J	84	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4085060 4085061

Parameter	Units	92677694001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	107	1	1	109	104	196	-279	75-125	4	20	M1
Iron	mg/L	0.27	1	1	1.3	1.3	99	105	75-125	5	20	
Magnesium	mg/L	14.9	1	1	16.2	15.6	128	74	75-125	3	20	M1
Manganese	mg/L	0.28	1	1	1.2	1.3	96	100	75-125	3	20	
Potassium	mg/L	6.9	1	1	8.1	7.8	118	90	75-125	3	20	
Sodium	mg/L	8.8	1	1	9.9	9.5	111	73	75-125	4	20	M1

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92677694

QC Batch: 787489
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92677694001, 92677694002, 92677694003, 92677694004, 92677694005, 92677694006, 92677694007, 92677694008

METHOD BLANK: 4082463 Matrix: Water
Associated Lab Samples: 92677694001, 92677694002, 92677694003, 92677694004, 92677694005, 92677694006, 92677694007, 92677694008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.0012	07/19/23 17:43	
Arsenic	mg/L	ND	0.010	0.0037	07/19/23 17:43	
Barium	mg/L	ND	0.0050	0.00067	07/19/23 17:43	
Beryllium	mg/L	ND	0.00050	0.000054	07/19/23 17:43	
Boron	mg/L	ND	0.040	0.0086	07/21/23 16:25	
Cadmium	mg/L	ND	0.00050	0.00011	07/19/23 17:43	
Chromium	mg/L	ND	0.0050	0.0011	07/19/23 17:43	
Cobalt	mg/L	ND	0.0050	0.00039	07/19/23 17:43	
Lithium	mg/L	ND	0.030	0.00073	07/19/23 17:43	
Molybdenum	mg/L	ND	0.010	0.00074	07/19/23 17:43	
Selenium	mg/L	ND	0.0050	0.0014	07/19/23 17:43	
Thallium	mg/L	ND	0.0010	0.00018	07/19/23 17:43	

LABORATORY CONTROL SAMPLE: 4082464

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	107	80-120	
Arsenic	mg/L	0.1	0.099	99	80-120	
Barium	mg/L	0.1	0.096	96	80-120	
Beryllium	mg/L	0.1	0.10	102	80-120	
Boron	mg/L	1	1.1	110	80-120	
Cadmium	mg/L	0.1	0.10	103	80-120	
Chromium	mg/L	0.1	0.10	102	80-120	
Cobalt	mg/L	0.1	0.10	101	80-120	
Lithium	mg/L	0.1	0.10	103	80-120	
Molybdenum	mg/L	0.1	0.10	102	80-120	
Selenium	mg/L	0.1	0.10	101	80-120	
Thallium	mg/L	0.1	0.097	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4082465 4082466

Parameter	Units	92677694001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.11	0.11	109	110	75-125	1	20	
Arsenic	mg/L	ND	0.1	0.1	0.10	0.11	104	106	75-125	2	20	
Barium	mg/L	0.047	0.1	0.1	0.16	0.16	114	113	75-125	1	20	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92677694

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4082465 4082466

Parameter	Units	92677694001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Beryllium	mg/L	0.000073J	0.1	0.1	0.095	0.096	95	96	75-125	1	20	
Boron	mg/L	2.0	1	1	3.1	2.9	108	94	75-125	5	20	
Cadmium	mg/L	0.00031J	0.1	0.1	0.10	0.10	102	104	75-125	1	20	
Chromium	mg/L	ND	0.1	0.1	0.10	0.099	101	99	75-125	2	20	
Cobalt	mg/L	0.0015J	0.1	0.1	0.10	0.099	99	97	75-125	1	20	
Lithium	mg/L	0.0015J	0.1	0.1	0.099	0.099	97	98	75-125	0	20	
Molybdenum	mg/L	0.30	0.1	0.1	0.42	0.42	121	123	75-125	1	20	
Selenium	mg/L	ND	0.1	0.1	0.11	0.11	106	106	75-125	0	20	
Thallium	mg/L	0.00026J	0.1	0.1	0.097	0.096	97	96	75-125	1	20	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92677694

QC Batch: 789561
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92677694001, 92677694002, 92677694003, 92677694004, 92677694005, 92677694006, 92677694007, 92677694008

METHOD BLANK: 4092350 Matrix: Water
Associated Lab Samples: 92677694001, 92677694002, 92677694003, 92677694004, 92677694005, 92677694006, 92677694007, 92677694008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	07/27/23 14:41	

LABORATORY CONTROL SAMPLE: 4092351

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0023	92	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4092352 4092353

Parameter	Units	92677694002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0021	0.0021	83	85	75-125	2	20	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92677694

QC Batch: 787441 | Analysis Method: SM 2540C-2015
QC Batch Method: SM 2540C-2015 | Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92677694001, 92677694002, 92677694003, 92677694004, 92677694005, 92677694006, 92677694007, 92677694008

METHOD BLANK: 4082157 Matrix: Water
Associated Lab Samples: 92677694001, 92677694002, 92677694003, 92677694004, 92677694005, 92677694006, 92677694007, 92677694008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	07/18/23 15:23	

LABORATORY CONTROL SAMPLE: 4082158

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	409	102	80-120	

SAMPLE DUPLICATE: 4082159

Parameter	Units	92677694001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	513	511	0	10	

SAMPLE DUPLICATE: 4082160

Parameter	Units	92677696005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1460	1570	8	10	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92677694

QC Batch: 787723
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92677694001, 92677694002

METHOD BLANK: 4083535 Matrix: Water
Associated Lab Samples: 92677694001, 92677694002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	07/19/23 16:09	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	07/19/23 16:09	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	07/19/23 16:09	

LABORATORY CONTROL SAMPLE: 4083536

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	52.8	106	80-120	

LABORATORY CONTROL SAMPLE: 4083537

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	49.5	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4083538 4083539

Parameter	Units	92677420019 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	48.7	50	50	102	103	106	108	80-120	1	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4083540 4083541

Parameter	Units	92677318002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	330	50	50	390	394	120	129	80-120	1	25	M1

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92677694

QC Batch: 788121 | Analysis Method: SM 2320B-2011
QC Batch Method: SM 2320B-2011 | Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92677694003, 92677694004, 92677694005, 92677694006, 92677694007, 92677694008

METHOD BLANK: 4085797 Matrix: Water
Associated Lab Samples: 92677694003, 92677694004, 92677694005, 92677694006, 92677694007, 92677694008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	07/20/23 16:09	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	07/20/23 16:09	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	07/20/23 16:09	

LABORATORY CONTROL SAMPLE: 4085798

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.4	103	80-120	

LABORATORY CONTROL SAMPLE: 4085799

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.7	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4085800 4085801

Parameter	Units	92677753005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	121	50	50	180	180	118	118	80-120	0	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4085802 4085803

Parameter	Units	92677753006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	76.8	50	50	129	131	103	108	80-120	2	25	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92677694

QC Batch: 787902 — Analysis Method: SM 4500-S2D-2011
QC Batch Method: SM 4500-S2D-2011 — Analysis Description: 4500S2D Sulfide Water
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92677694001, 92677694002, 92677694003, 92677694004, 92677694005, 92677694006

METHOD BLANK: 4084741 — Matrix: Water
Associated Lab Samples: 92677694001, 92677694002, 92677694003, 92677694004, 92677694005, 92677694006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	0.022	07/20/23 03:38	

LABORATORY CONTROL SAMPLE: 4084742

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	0.49	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4084743 — 4084744

Parameter	Units	92677694001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.47	0.47	93	93	80-120	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4084745 — 4084746

Parameter	Units	92677696005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.48	0.46	94	90	80-120	5	10	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92677694

QC Batch: 787903
QC Batch Method: SM 4500-S2D-2011
Analysis Method: SM 4500-S2D-2011
Analysis Description: 4500S2D Sulfide Water
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92677694007, 92677694008

METHOD BLANK: 4084747 Matrix: Water
Associated Lab Samples: 92677694007, 92677694008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	0.022	07/20/23 03:57	

LABORATORY CONTROL SAMPLE: 4084748

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	0.49	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4084749 4084750

Parameter	Units	92678161006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.53	0.54	105	108	80-120	3	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4084751 4084752

Parameter	Units	92677696012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.43	0.47	84	93	80-120	10	10	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92677694

QC Batch: 787373
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92677694001, 92677694002, 92677694003, 92677694004, 92677694005, 92677694006, 92677694007

METHOD BLANK: 4081842 Matrix: Water
Associated Lab Samples: 92677694001, 92677694002, 92677694003, 92677694004, 92677694005, 92677694006, 92677694007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	07/18/23 12:46	
Fluoride	mg/L	ND	0.10	0.050	07/18/23 12:46	
Sulfate	mg/L	ND	1.0	0.50	07/18/23 12:46	

LABORATORY CONTROL SAMPLE: 4081843

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.3	101	90-110	
Fluoride	mg/L	2.5	2.5	101	90-110	
Sulfate	mg/L	50	49.5	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4081844 4081845

Parameter	Units	92677589002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	2.9	50	50	54.1	54.7	102	104	90-110	1	10	
Fluoride	mg/L	ND	2.5	2.5	2.7	2.7	107	107	90-110	0	10	
Sulfate	mg/L	25.2	50	50	75.9	76.5	101	103	90-110	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4081846 4081847

Parameter	Units	92677589020 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	21.6	50	50	60.3	60.3	78	77	90-110	0	10	M1
Fluoride	mg/L	0.37J	2.5	2.5	2.8J	3.2J	96	113	90-110		10	M1
Sulfate	mg/L	3080	50	50	3000	2940	-145	-278	90-110	2	10	M1

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92677694

QC Batch: 787377
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92677694008

METHOD BLANK: 4081859 Matrix: Water
Associated Lab Samples: 92677694008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	07/19/23 05:21	
Fluoride	mg/L	ND	0.10	0.050	07/19/23 05:21	
Sulfate	mg/L	ND	1.0	0.50	07/19/23 05:21	

LABORATORY CONTROL SAMPLE: 4081860

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.4	101	90-110	
Fluoride	mg/L	2.5	2.4	98	90-110	
Sulfate	mg/L	50	49.8	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4081861 4081862

Parameter	Units	92677694008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	17.8	50	50	69.7	70.1	104	105	90-110	1	10	
Fluoride	mg/L	0.32	2.5	2.5	2.8	2.8	98	99	90-110	1	10	
Sulfate	mg/L	393	50	50	422	418	58	49	90-110	1	10	M1

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Huntersville, NC 28078
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QUALIFIERS

Project: Hammond AP-1
Pace Project No.: 92677694

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Hammond AP-1
Pace Project No.: 92677694

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92677694001	**HAM-HGWC-8**				
92677694002	**HAM-PT-09**				
92677694003	**HAM-PT-10**				
92677694004	**HAM-PT-07**				
92677694005	**HAM-PT-08**				
92677694008	**HAM-HGWC-13**				
92677694001	**HAM-HGWC-8**	EPA 3010A	787863	EPA 6010D	788067
92677694002	**HAM-PT-09**	EPA 3010A	787863	EPA 6010D	788067
92677694003	**HAM-PT-10**	EPA 3010A	787863	EPA 6010D	788067
92677694004	**HAM-PT-07**	EPA 3010A	787863	EPA 6010D	788067
92677694005	**HAM-PT-08**	EPA 3010A	787863	EPA 6010D	788067
92677694006	**HAM-AP1-FD-01**	EPA 3010A	787863	EPA 6010D	788067
92677694007	**HAM-AP1-FB-01**	EPA 3010A	787863	EPA 6010D	788067
92677694008	**HAM-HGWC-13**	EPA 3010A	787863	EPA 6010D	788067
92677694001	**HAM-HGWC-8**	EPA 3005A	787489	EPA 6020B	787561
92677694002	**HAM-PT-09**	EPA 3005A	787489	EPA 6020B	787561
92677694003	**HAM-PT-10**	EPA 3005A	787489	EPA 6020B	787561
92677694004	**HAM-PT-07**	EPA 3005A	787489	EPA 6020B	787561
92677694005	**HAM-PT-08**	EPA 3005A	787489	EPA 6020B	787561
92677694006	**HAM-AP1-FD-01**	EPA 3005A	787489	EPA 6020B	787561
92677694007	**HAM-AP1-FB-01**	EPA 3005A	787489	EPA 6020B	787561
92677694008	**HAM-HGWC-13**	EPA 3005A	787489	EPA 6020B	787561
92677694001	**HAM-HGWC-8**	EPA 7470A	789561	EPA 7470A	789666
92677694002	**HAM-PT-09**	EPA 7470A	789561	EPA 7470A	789666
92677694003	**HAM-PT-10**	EPA 7470A	789561	EPA 7470A	789666
92677694004	**HAM-PT-07**	EPA 7470A	789561	EPA 7470A	789666
92677694005	**HAM-PT-08**	EPA 7470A	789561	EPA 7470A	789666
92677694006	**HAM-AP1-FD-01**	EPA 7470A	789561	EPA 7470A	789666
92677694007	**HAM-AP1-FB-01**	EPA 7470A	789561	EPA 7470A	789666
92677694008	**HAM-HGWC-13**	EPA 7470A	789561	EPA 7470A	789666
92677694001	**HAM-HGWC-8**	SM 2540C-2015	787441		
92677694002	**HAM-PT-09**	SM 2540C-2015	787441		
92677694003	**HAM-PT-10**	SM 2540C-2015	787441		
92677694004	**HAM-PT-07**	SM 2540C-2015	787441		
92677694005	**HAM-PT-08**	SM 2540C-2015	787441		
92677694006	**HAM-AP1-FD-01**	SM 2540C-2015	787441		
92677694007	**HAM-AP1-FB-01**	SM 2540C-2015	787441		
92677694008	**HAM-HGWC-13**	SM 2540C-2015	787441		
92677694001	**HAM-HGWC-8**	SM 2320B-2011	787723		
92677694002	**HAM-PT-09**	SM 2320B-2011	787723		
92677694003	**HAM-PT-10**	SM 2320B-2011	788121		
92677694004	**HAM-PT-07**	SM 2320B-2011	788121		
92677694005	**HAM-PT-08**	SM 2320B-2011	788121		
92677694006	**HAM-AP1-FD-01**	SM 2320B-2011	788121		
92677694007	**HAM-AP1-FB-01**	SM 2320B-2011	788121		
92677694008	**HAM-HGWC-13**	SM 2320B-2011	788121		

REPORT OF LABORATORY ANALYSIS

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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Hammond AP-1
Pace Project No.: 92677694

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92677694001	**HAM-HGWC-8**	SM 4500-S2D-2011	787902		
92677694002	**HAM-PT-09**	SM 4500-S2D-2011	787902		
92677694003	**HAM-PT-10**	SM 4500-S2D-2011	787902		
92677694004	**HAM-PT-07**	SM 4500-S2D-2011	787902		
92677694005	**HAM-PT-08**	SM 4500-S2D-2011	787902		
92677694006	**HAM-AP1-FD-01**	SM 4500-S2D-2011	787902		
92677694007	**HAM-AP1-FB-01**	SM 4500-S2D-2011	787903		
92677694008	**HAM-HGWC-13**	SM 4500-S2D-2011	787903		
92677694001	**HAM-HGWC-8**	EPA 300.0 Rev 2.1 1993	787373		
92677694002	**HAM-PT-09**	EPA 300.0 Rev 2.1 1993	787373		
92677694003	**HAM-PT-10**	EPA 300.0 Rev 2.1 1993	787373		
92677694004	**HAM-PT-07**	EPA 300.0 Rev 2.1 1993	787373		
92677694005	**HAM-PT-08**	EPA 300.0 Rev 2.1 1993	787373		
92677694006	**HAM-AP1-FD-01**	EPA 300.0 Rev 2.1 1993	787373		
92677694007	**HAM-AP1-FB-01**	EPA 300.0 Rev 2.1 1993	787373		
92677694008	**HAM-HGWC-13**	EPA 300.0 Rev 2.1 1993	787377		

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Pace ANALYTICAL SERVICES

DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #:

WO# : 92677694

92677694

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace ☐ Other:

Custody Seal Present? ☑ Yes ☐ No **Seals Intact?** ☑ Yes ☐ No

Date/Initials Person Examining Contents: 7-19-23 A

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☐ N/A

Thermometer: ☑ IR Gun ID: 214

Type of Ice: ☐ Wet ☐ Blue ☐ None

Cooler Temp: 6.5 **Correction Factor:** Add/Subtract (°C) -0.0

Cooler Temp Corrected (°C): 6.5

Temp should be above freezing to 6°C

☐ Samples out of temp criteria. Samples on ice, cooling process has begun

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☑ No	☐ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: WG				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

Qualtrax ID: 69614

***Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.**

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

****Bottom half of box is to list number of bottles**

*****Check all unpreserved Nitrates for chlorine**

Project # **WO# : 92677694**

PM: BV Due Date: 07/31/23

CLIENT: 92- GP-HAM

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		2	1			1	1																						
2		2	1			1	1																						
3		2	1			1	1																						
4		2	1			1	1																						
5		2	1			1	1																						
6		2	1			1	1																						
7		2	1			1	1																						
8		2	1			1	1																						
9																													
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

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www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of

Section A Required Client Information:
Company: GA Power
Address: Atlanta, GA
Email To: SCS Contacts
Phone: Fax:
Requested Due Date/TAT: 10 Day

Section B Required Project Information:
Report To: SCS Contacts
Copy To: Geosyntec Contacts
Task Code: HAM-CCR-CA-20230713
Purchase Order No.:
Project Name: Hammond AP-1
Project Number:

Section C Invoice Information:
Attention: Southern Co.
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager: Bonnie Vang
Pace Profile #: 10839- 16483-20

REGULATORY AGENCY
☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☑ OTHER CCR

Site Location STATE: GA

Section D Required Client Information

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE DATE	COLLECTED COMPOSITE TIME	COLLECTED COMPOSITE DATE	COLLECTED COMPOSITE TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	Full App. III and IV metals	Major Ions (10839-21)	Boron and Cobalt	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
																	Requested Analysis Filtered (Y/N)	N	N				92677694
HAM-HGWC-8	WG	G	7/13/23	1035			21	5	X		X		X			ZnAc		X	X			N	001 pH = 6.65
HAM-PT-09	WG	G	7/13/23	1747			24	5	X		X		X			ZnAc		X	X			N	002 pH = 6.57
HAM-PT-10	WG	G	7/13/23	1415			22	5	X		X		X			ZnAc		X	X			N	003 pH = 7.01
HAM-PT-07	WG	G	7/13/23	1622			27	5	X		X		X			ZnAc		X	X			N	004 pH = 6.76
HAM-PT-08	WG	G	7/13/23	1751			24	5	X		X		X			ZnAc		X	X			N	005 pH = 6.66
HAM-AP1-FD-01	WG	G	7/13/23	0000			-	5	X		X		X			ZnAc		X	X			N	006 -
HAM-AP1-FB-01	WG	G	7/17/23	0840			-	5	X		X		X			ZnAc		X	X			N	007 -
HAM-APHGWC-13	WG	G	7/17/23	1147			23	5	X		X		X			ZnAc		X	X			N	008 pH = 6.07
																						N	

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Code: HAM-CCR-CA-20230713	Alana Neely / Geosyntec	7/17/23	1230	Ryan Williams / Pace	7/17/23	1230	
	Ryan Williams / Pace	7/18/23	1425		7/17	1425	

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Alana Neely / Geosyntec Consultants, In
SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY): 7/17/23

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

August 25, 2023

Kristen Jurinko
Southern Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, GA 30308

RE: Project: Hammond AP-1 (CCR-CA)
Pace Project No.: 92682397

Dear Kristen Jurinko:

Enclosed are the analytical results for sample(s) received by the laboratory on August 11, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Asheville
- Pace Analytical Services - Peachtree Corners, GA

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Angela M. Baioni

Angela Baioni for
Bonnie Vang
bonnie.vang@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Kip Gray, Geosyntec
Christine Hug, Geosyntec Consultants, Inc.
Whitney Law, Geosyntec Consultants
Laura Midkiff, Southern Company
Caroline Nelson, Geosyntec

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CERTIFICATIONS

Project: Hammond AP-1 (CCR-CA)
Pace Project No.: 92682397

Pace Analytical Services Asheville
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Laboratory ID: 99030
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners
110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812
North Carolina Certification #: 381
South Carolina Certification #: 98011001
Virginia Certification #: 460204

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Hammond AP-1 (CCR-CA)
Pace Project No.: 92682397

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92682397001	**HAM-PT-07**	Water	08/09/23 17:59	08/11/23 13:12
92682397002	**HAM-PT-08**	Water	08/09/23 10:50	08/11/23 13:12
92682397003	**HAM-PT-09**	Water	08/09/23 14:42	08/11/23 13:12
92682397004	**HAM-PT-10**	Water	08/09/23 13:05	08/11/23 13:12
92682397005	**HAM-MW-53**	Water	08/09/23 16:40	08/11/23 13:12
92682397006	**HAM-MW-54**	Water	08/09/23 16:51	08/11/23 13:12
92682397007	**HAM-AP1-FD-06**	Water	08/09/23 00:00	08/11/23 13:12
92682397008	**HAM-AP1-FB-06**	Water	08/09/23 16:50	08/11/23 13:12

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SAMPLE ANALYTE COUNT

Project: Hammond AP-1 (CCR-CA)
Pace Project No.: 92682397

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92682397001	**HAM-PT-07**	EPA 6010D	MS	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92682397002	**HAM-PT-08**	EPA 6010D	DRB	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92682397003	**HAM-PT-09**	EPA 6010D	DRB	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92682397004	**HAM-PT-10**	EPA 6010D	MS	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92682397005	**HAM-MW-53**	EPA 6020B	CW1	2
92682397006	**HAM-MW-54**	EPA 6020B	CW1	2
92682397007	**HAM-AP1-FD-06**	EPA 6010D	MS	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3

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SAMPLE ANALYTE COUNT

Project: Hammond AP-1 (CCR-CA)
Pace Project No.: 92682397

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92682397008	**HAM-AP1-FB-06**	EPA 6010D	MS	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3

PASI-A = Pace Analytical Services - Asheville
PASI-GA = Pace Analytical Services - Peachtree Corners, GA

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SUMMARY OF DETECTION

Project: Hammond AP-1 (CCR-CA)
Pace Project No.: 92682397

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92682397001	**HAM-PT-07**					
EPA 6010D	Iron	27.1	mg/L	0.040	08/18/23 21:03	
EPA 6010D	Manganese	7.6	mg/L	0.040	08/18/23 21:03	
EPA 6010D	Potassium	6.8	mg/L	0.50	08/18/23 21:03	
EPA 6010D	Sodium	7.2	mg/L	1.0	08/18/23 21:03	
EPA 6010D	Calcium	173	mg/L	1.0	08/18/23 21:03	
EPA 6010D	Magnesium	19.4	mg/L	0.050	08/18/23 21:03	
EPA 6020B	Arsenic	0.27	mg/L	0.010	08/22/23 16:32	
EPA 6020B	Barium	0.053	mg/L	0.0050	08/22/23 16:32	
EPA 6020B	Beryllium	0.000095J	mg/L	0.00050	08/22/23 16:32	
EPA 6020B	Boron	0.93	mg/L	0.040	08/23/23 13:17	
EPA 6020B	Cobalt	0.090	mg/L	0.0050	08/23/23 13:17	
EPA 6020B	Lithium	0.069	mg/L	0.030	08/23/23 13:17	
EPA 6020B	Molybdenum	0.012	mg/L	0.010	08/22/23 16:32	
EPA 6020B	Thallium	0.00022J	mg/L	0.0010	08/22/23 16:32	
SM 2540C-2015	Total Dissolved Solids	771	mg/L	25.0	08/15/23 16:56	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	116	mg/L	5.0	08/16/23 15:20	
SM 2320B-2011	Alkalinity, Total as CaCO3	116	mg/L	5.0	08/16/23 15:20	
EPA 300.0 Rev 2.1 1993	Chloride	13.5	mg/L	1.0	08/15/23 21:32	
EPA 300.0 Rev 2.1 1993	Fluoride	0.28	mg/L	0.10	08/15/23 21:32	
EPA 300.0 Rev 2.1 1993	Sulfate	339	mg/L	7.0	08/16/23 08:19	
92682397002	**HAM-PT-08**					
EPA 6010D	Iron	22.0	mg/L	0.040	08/18/23 21:13	
EPA 6010D	Manganese	6.8	mg/L	0.040	08/18/23 21:13	
EPA 6010D	Potassium	6.3	mg/L	0.50	08/18/23 21:13	
EPA 6010D	Sodium	6.8	mg/L	1.0	08/18/23 21:13	
EPA 6010D	Calcium	146	mg/L	1.0	08/18/23 21:13	
EPA 6010D	Magnesium	17.3	mg/L	0.050	08/18/23 21:13	
EPA 6020B	Arsenic	0.32	mg/L	0.010	08/22/23 16:39	
EPA 6020B	Barium	0.050	mg/L	0.0050	08/22/23 16:39	
EPA 6020B	Beryllium	0.000073J	mg/L	0.00050	08/22/23 16:39	
EPA 6020B	Boron	0.99	mg/L	0.040	08/23/23 13:23	
EPA 6020B	Cobalt	0.032	mg/L	0.0050	08/22/23 16:39	
EPA 6020B	Lithium	0.073	mg/L	0.030	08/23/23 13:23	
EPA 6020B	Molybdenum	0.0071J	mg/L	0.010	08/22/23 16:39	
SM 2540C-2015	Total Dissolved Solids	682	mg/L	25.0	08/15/23 16:57	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	118	mg/L	5.0	08/16/23 15:40	
SM 2320B-2011	Alkalinity, Total as CaCO3	118	mg/L	5.0	08/16/23 15:40	
EPA 300.0 Rev 2.1 1993	Chloride	14.5	mg/L	1.0	08/15/23 22:30	
EPA 300.0 Rev 2.1 1993	Fluoride	0.27	mg/L	0.10	08/15/23 22:30	
EPA 300.0 Rev 2.1 1993	Sulfate	290	mg/L	6.0	08/16/23 09:16	M1
92682397003	**HAM-PT-09**					
EPA 6010D	Iron	0.10	mg/L	0.040	08/18/23 21:18	
EPA 6010D	Manganese	0.51	mg/L	0.040	08/18/23 21:18	
EPA 6010D	Potassium	7.7	mg/L	0.50	08/18/23 21:18	
EPA 6010D	Sodium	10.3	mg/L	1.0	08/18/23 21:18	
EPA 6010D	Calcium	136	mg/L	1.0	08/18/23 21:18	

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SUMMARY OF DETECTION

Project: Hammond AP-1 (CCR-CA)
Pace Project No.: 92682397

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92682397003	**HAM-PT-09**					
EPA 6010D	Magnesium	18.2	mg/L	0.050	08/18/23 21:18	
EPA 6020B	Barium	0.057	mg/L	0.0050	08/22/23 16:43	
EPA 6020B	Boron	1.6	mg/L	0.40	08/23/23 19:25	
EPA 6020B	Cobalt	0.0028J	mg/L	0.0050	08/22/23 16:43	
EPA 6020B	Lithium	0.0017J	mg/L	0.030	08/22/23 16:43	
EPA 6020B	Molybdenum	0.21	mg/L	0.010	08/22/23 16:43	
SM 2540C-2015	Total Dissolved Solids	594	mg/L	25.0	08/15/23 16:57	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	150	mg/L	5.0	08/16/23 15:50	
SM 2320B-2011	Alkalinity, Total as CaCO3	150	mg/L	5.0	08/16/23 15:50	
EPA 300.0 Rev 2.1 1993	Chloride	47.5	mg/L	1.0	08/15/23 23:14	
EPA 300.0 Rev 2.1 1993	Fluoride	0.26	mg/L	0.10	08/15/23 23:14	
EPA 300.0 Rev 2.1 1993	Sulfate	188	mg/L	4.0	08/16/23 09:59	
92682397004	**HAM-PT-10**					
EPA 6010D	Iron	2.9	mg/L	0.040	08/23/23 21:33	
EPA 6010D	Manganese	3.1	mg/L	0.040	08/23/23 21:33	
EPA 6010D	Potassium	6.7	mg/L	0.50	08/23/23 21:33	M1
EPA 6010D	Sodium	9.4	mg/L	1.0	08/23/23 21:33	M1
EPA 6010D	Calcium	116	mg/L	1.0	08/23/23 21:33	M1
EPA 6010D	Magnesium	16.8	mg/L	0.050	08/23/23 21:33	M1
EPA 6020B	Barium	0.070	mg/L	0.0050	08/22/23 16:51	
EPA 6020B	Boron	2.1	mg/L	0.40	08/23/23 19:48	
EPA 6020B	Cobalt	0.0019J	mg/L	0.0050	08/22/23 16:51	
EPA 6020B	Lithium	0.0012J	mg/L	0.030	08/22/23 16:51	
EPA 6020B	Molybdenum	0.096	mg/L	0.010	08/22/23 16:51	
SM 2540C-2015	Total Dissolved Solids	553	mg/L	25.0	08/15/23 16:57	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	199	mg/L	5.0	08/16/23 16:00	
SM 2320B-2011	Alkalinity, Total as CaCO3	199	mg/L	5.0	08/16/23 16:00	
SM 4500-S2D-2011	Sulfide	0.045J	mg/L	0.10	08/15/23 06:30	
EPA 300.0 Rev 2.1 1993	Chloride	62.5	mg/L	1.0	08/15/23 23:42	
EPA 300.0 Rev 2.1 1993	Fluoride	0.27	mg/L	0.10	08/15/23 23:42	
EPA 300.0 Rev 2.1 1993	Sulfate	123	mg/L	3.0	08/16/23 10:27	
92682397005	**HAM-MW-53**					
EPA 6020B	Boron	1.5	mg/L	0.040	08/22/23 20:17	
EPA 6020B	Molybdenum	0.14	mg/L	0.010	08/22/23 20:17	
92682397006	**HAM-MW-54**					
EPA 6020B	Arsenic	0.085	mg/L	0.010	08/22/23 20:23	
EPA 6020B	Boron	0.45	mg/L	0.040	08/22/23 20:23	
92682397007	**HAM-AP1-FD-06**					
EPA 6010D	Iron	21.3	mg/L	0.040	08/23/23 21:54	
EPA 6010D	Manganese	6.8	mg/L	0.040	08/23/23 21:54	
EPA 6010D	Potassium	5.6	mg/L	0.50	08/23/23 21:54	
EPA 6010D	Sodium	6.3	mg/L	1.0	08/23/23 21:54	
EPA 6010D	Calcium	128	mg/L	1.0	08/23/23 21:54	
EPA 6010D	Magnesium	16.7	mg/L	0.050	08/23/23 21:54	
EPA 6020B	Arsenic	0.36	mg/L	0.010	08/22/23 20:29	

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SUMMARY OF DETECTION

Project: Hammond AP-1 (CCR-CA)
Pace Project No.: 92682397

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92682397007	**HAM-AP1-FD-06**					
EPA 6020B	Barium	0.047	mg/L	0.0050	08/22/23 20:29	
EPA 6020B	Beryllium	0.000065J	mg/L	0.00050	08/22/23 20:29	
EPA 6020B	Boron	0.90	mg/L	0.040	08/22/23 20:29	
EPA 6020B	Cobalt	0.034	mg/L	0.0050	08/22/23 20:29	
EPA 6020B	Lithium	0.066	mg/L	0.030	08/22/23 20:29	
EPA 6020B	Molybdenum	0.0068J	mg/L	0.010	08/22/23 20:29	
SM 2540C-2015	Total Dissolved Solids	699	mg/L	25.0	08/15/23 16:57	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	111	mg/L	5.0	08/16/23 16:12	
SM 2320B-2011	Alkalinity, Total as CaCO3	111	mg/L	5.0	08/16/23 16:12	
EPA 300.0 Rev 2.1 1993	Chloride	14.6	mg/L	1.0	08/16/23 03:19	
EPA 300.0 Rev 2.1 1993	Fluoride	0.29	mg/L	0.10	08/16/23 03:19	
EPA 300.0 Rev 2.1 1993	Sulfate	293	mg/L	6.0	08/16/23 12:22	
92682397008	**HAM-AP1-FB-06**					
EPA 6020B	Boron	0.012J	mg/L	0.040	08/22/23 20:35	

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CCR-CA)
Pace Project No.: 92682397

Sample: HAM-PT-07 **Lab ID: 92682397001** Collected: 08/09/23 17:59 Received: 08/11/23 13:12 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**27.1**	mg/L	0.040	0.025	1	08/18/23 10:36	08/18/23 21:03	7439-89-6	
Manganese	**7.6**	mg/L	0.040	0.011	1	08/18/23 10:36	08/18/23 21:03	7439-96-5	
Potassium	**6.8**	mg/L	0.50	0.15	1	08/18/23 10:36	08/18/23 21:03	7440-09-7	
Sodium	**7.2**	mg/L	1.0	0.58	1	08/18/23 10:36	08/18/23 21:03	7440-23-5	
Calcium	**173**	mg/L	1.0	0.12	1	08/18/23 10:36	08/18/23 21:03	7440-70-2	
Magnesium	**19.4**	mg/L	0.050	0.012	1	08/18/23 10:36	08/18/23 21:03	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.0012	1	08/16/23 14:27	08/22/23 16:32	7440-36-0	
Arsenic	**0.27**	mg/L	0.010	0.0037	1	08/16/23 14:27	08/22/23 16:32	7440-38-2	
Barium	**0.053**	mg/L	0.0050	0.00067	1	08/16/23 14:27	08/22/23 16:32	7440-39-3	
Beryllium	**0.000095J**	mg/L	0.00050	0.000054	1	08/16/23 14:27	08/22/23 16:32	7440-41-7	
Boron	**0.93**	mg/L	0.040	0.0086	1	08/16/23 14:27	08/23/23 13:17	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	08/16/23 14:27	08/22/23 16:32	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/16/23 14:27	08/23/23 13:17	7440-47-3	
Cobalt	**0.090**	mg/L	0.0050	0.00039	1	08/16/23 14:27	08/23/23 13:17	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	08/16/23 14:27	08/22/23 16:32	7439-92-1	
Lithium	**0.069**	mg/L	0.030	0.00073	1	08/16/23 14:27	08/23/23 13:17	7439-93-2	
Molybdenum	**0.012**	mg/L	0.010	0.00074	1	08/16/23 14:27	08/22/23 16:32	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	08/16/23 14:27	08/22/23 16:32	7782-49-2	
Thallium	**0.00022J**	mg/L	0.0010	0.00018	1	08/16/23 14:27	08/22/23 16:32	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	08/17/23 12:00	08/17/23 15:18	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**771**	mg/L	25.0	25.0	1		08/15/23 16:56		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**116**	mg/L	5.0	5.0	1		08/16/23 15:20		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		08/16/23 15:20		
Alkalinity, Total as CaCO3	**116**	mg/L	5.0	5.0	1		08/16/23 15:20		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		08/15/23 06:29	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**13.5**	mg/L	1.0	0.60	1		08/15/23 21:32	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CCR-CA)
Pace Project No.: 92682397

Sample: HAM-PT-07 **Lab ID: 92682397001** Collected: 08/09/23 17:59 Received: 08/11/23 13:12 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.28**	mg/L	0.10	0.050	1		08/15/23 21:32	16984-48-8	
Sulfate	**339**	mg/L	7.0	3.5	7		08/16/23 08:19	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CCR-CA)
Pace Project No.: 92682397

Sample: HAM-PT-08 **Lab ID: 92682397002** Collected: 08/09/23 10:50 Received: 08/11/23 13:12 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**22.0**	mg/L	0.040	0.025	1	08/18/23 10:36	08/18/23 21:13	7439-89-6	
Manganese	**6.8**	mg/L	0.040	0.011	1	08/18/23 10:36	08/18/23 21:13	7439-96-5	
Potassium	**6.3**	mg/L	0.50	0.15	1	08/18/23 10:36	08/18/23 21:13	7440-09-7	
Sodium	**6.8**	mg/L	1.0	0.58	1	08/18/23 10:36	08/18/23 21:13	7440-23-5	
Calcium	**146**	mg/L	1.0	0.12	1	08/18/23 10:36	08/18/23 21:13	7440-70-2	
Magnesium	**17.3**	mg/L	0.050	0.012	1	08/18/23 10:36	08/18/23 21:13	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.0012	1	08/16/23 14:27	08/22/23 16:39	7440-36-0	
Arsenic	**0.32**	mg/L	0.010	0.0037	1	08/16/23 14:27	08/22/23 16:39	7440-38-2	
Barium	**0.050**	mg/L	0.0050	0.00067	1	08/16/23 14:27	08/22/23 16:39	7440-39-3	
Beryllium	**0.000073J**	mg/L	0.00050	0.000054	1	08/16/23 14:27	08/22/23 16:39	7440-41-7	
Boron	**0.99**	mg/L	0.040	0.0086	1	08/16/23 14:27	08/23/23 13:23	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	08/16/23 14:27	08/22/23 16:39	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/16/23 14:27	08/22/23 16:39	7440-47-3	
Cobalt	**0.032**	mg/L	0.0050	0.00039	1	08/16/23 14:27	08/22/23 16:39	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	08/16/23 14:27	08/22/23 16:39	7439-92-1	
Lithium	**0.073**	mg/L	0.030	0.00073	1	08/16/23 14:27	08/23/23 13:23	7439-93-2	
Molybdenum	**0.0071J**	mg/L	0.010	0.00074	1	08/16/23 14:27	08/22/23 16:39	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	08/16/23 14:27	08/22/23 16:39	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	08/16/23 14:27	08/22/23 16:39	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	08/17/23 12:00	08/17/23 15:34	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**682**	mg/L	25.0	25.0	1		08/15/23 16:57		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**118**	mg/L	5.0	5.0	1		08/16/23 15:40		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		08/16/23 15:40		
Alkalinity, Total as CaCO3	**118**	mg/L	5.0	5.0	1		08/16/23 15:40		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		08/15/23 06:29	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**14.5**	mg/L	1.0	0.60	1		08/15/23 22:30	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CCR-CA)
Pace Project No.: 92682397

Sample: HAM-PT-08 **Lab ID: 92682397002** Collected: 08/09/23 10:50 Received: 08/11/23 13:12 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.27**	mg/L	0.10	0.050	1		08/15/23 22:30	16984-48-8	
Sulfate	**290**	mg/L	6.0	3.0	6		08/16/23 09:16	14808-79-8	M1

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CCR-CA)
Pace Project No.: 92682397

Sample: HAM-PT-09 **Lab ID: 92682397003** Collected: 08/09/23 14:42 Received: 08/11/23 13:12 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.10**	mg/L	0.040	0.025	1	08/18/23 10:36	08/18/23 21:18	7439-89-6	
Manganese	**0.51**	mg/L	0.040	0.011	1	08/18/23 10:36	08/18/23 21:18	7439-96-5	
Potassium	**7.7**	mg/L	0.50	0.15	1	08/18/23 10:36	08/18/23 21:18	7440-09-7	
Sodium	**10.3**	mg/L	1.0	0.58	1	08/18/23 10:36	08/18/23 21:18	7440-23-5	
Calcium	**136**	mg/L	1.0	0.12	1	08/18/23 10:36	08/18/23 21:18	7440-70-2	
Magnesium	**18.2**	mg/L	0.050	0.012	1	08/18/23 10:36	08/18/23 21:18	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.0012	1	08/16/23 14:27	08/22/23 16:43	7440-36-0	
Arsenic	ND	mg/L	0.010	0.0037	1	08/16/23 14:27	08/22/23 16:43	7440-38-2	
Barium	**0.057**	mg/L	0.0050	0.00067	1	08/16/23 14:27	08/22/23 16:43	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	08/16/23 14:27	08/22/23 16:43	7440-41-7	
Boron	**1.6**	mg/L	0.40	0.086	10	08/16/23 14:27	08/23/23 19:25	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	08/16/23 14:27	08/22/23 16:43	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/16/23 14:27	08/22/23 16:43	7440-47-3	
Cobalt	**0.0028J**	mg/L	0.0050	0.00039	1	08/16/23 14:27	08/22/23 16:43	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	08/16/23 14:27	08/22/23 16:43	7439-92-1	
Lithium	**0.0017J**	mg/L	0.030	0.00073	1	08/16/23 14:27	08/22/23 16:43	7439-93-2	
Molybdenum	**0.21**	mg/L	0.010	0.00074	1	08/16/23 14:27	08/22/23 16:43	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	08/16/23 14:27	08/22/23 16:43	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	08/16/23 14:27	08/22/23 16:43	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	08/17/23 12:00	08/17/23 15:37	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**594**	mg/L	25.0	25.0	1		08/15/23 16:57		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**150**	mg/L	5.0	5.0	1		08/16/23 15:50		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		08/16/23 15:50		
Alkalinity, Total as CaCO3	**150**	mg/L	5.0	5.0	1		08/16/23 15:50		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		08/15/23 06:30	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**47.5**	mg/L	1.0	0.60	1		08/15/23 23:14	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CCR-CA)
Pace Project No.: 92682397

Sample: HAM-PT-09 **Lab ID: 92682397003** Collected: 08/09/23 14:42 Received: 08/11/23 13:12 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.26**	mg/L	0.10	0.050	1		08/15/23 23:14	16984-48-8	
Sulfate	**188**	mg/L	4.0	2.0	4		08/16/23 09:59	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CCR-CA)
Pace Project No.: 92682397

Sample: HAM-PT-10 **Lab ID: 92682397004** Collected: 08/09/23 13:05 Received: 08/11/23 13:12 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**2.9**	mg/L	0.040	0.025	1	08/23/23 12:06	08/23/23 21:33	7439-89-6	
Manganese	**3.1**	mg/L	0.040	0.011	1	08/23/23 12:06	08/23/23 21:33	7439-96-5	
Potassium	**6.7**	mg/L	0.50	0.15	1	08/23/23 12:06	08/23/23 21:33	7440-09-7	M1
Sodium	**9.4**	mg/L	1.0	0.58	1	08/23/23 12:06	08/23/23 21:33	7440-23-5	M1
Calcium	**116**	mg/L	1.0	0.12	1	08/23/23 12:06	08/23/23 21:33	7440-70-2	M1
Magnesium	**16.8**	mg/L	0.050	0.012	1	08/23/23 12:06	08/23/23 21:33	7439-95-4	M1
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.0012	1	08/16/23 14:27	08/22/23 16:51	7440-36-0	
Arsenic	ND	mg/L	0.010	0.0037	1	08/16/23 14:27	08/22/23 16:51	7440-38-2	
Barium	**0.070**	mg/L	0.0050	0.00067	1	08/16/23 14:27	08/22/23 16:51	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	08/16/23 14:27	08/22/23 16:51	7440-41-7	
Boron	**2.1**	mg/L	0.40	0.086	10	08/16/23 14:27	08/23/23 19:48	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	08/16/23 14:27	08/22/23 16:51	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/16/23 14:27	08/22/23 16:51	7440-47-3	
Cobalt	**0.0019J**	mg/L	0.0050	0.00039	1	08/16/23 14:27	08/22/23 16:51	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	08/16/23 14:27	08/22/23 16:51	7439-92-1	
Lithium	**0.0012J**	mg/L	0.030	0.00073	1	08/16/23 14:27	08/22/23 16:51	7439-93-2	
Molybdenum	**0.096**	mg/L	0.010	0.00074	1	08/16/23 14:27	08/22/23 16:51	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	08/16/23 14:27	08/22/23 16:51	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	08/16/23 14:27	08/22/23 16:51	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	08/17/23 12:00	08/17/23 15:39	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**553**	mg/L	25.0	25.0	1		08/15/23 16:57		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**199**	mg/L	5.0	5.0	1		08/16/23 16:00		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		08/16/23 16:00		
Alkalinity, Total as CaCO3	**199**	mg/L	5.0	5.0	1		08/16/23 16:00		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	**0.045J**	mg/L	0.10	0.022	1		08/15/23 06:30	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**62.5**	mg/L	1.0	0.60	1		08/15/23 23:42	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CCR-CA)
Pace Project No.: 92682397

Sample: HAM-PT-10 **Lab ID: 92682397004** Collected: 08/09/23 13:05 Received: 08/11/23 13:12 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.27**	mg/L	0.10	0.050	1		08/15/23 23:42	16984-48-8	
Sulfate	**123**	mg/L	3.0	1.5	3		08/16/23 10:27	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CCR-CA)
Pace Project No.: 92682397

Sample: HAM-MW-53 **Lab ID: 92682397005** Collected: 08/09/23 16:40 Received: 08/11/23 13:12 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Boron	**1.5**	mg/L	0.040	0.0086	1	08/17/23 10:25	08/22/23 20:17	7440-42-8	
Molybdenum	**0.14**	mg/L	0.010	0.00074	1	08/17/23 10:25	08/22/23 20:17	7439-98-7	

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CCR-CA)
Pace Project No.: 92682397

Sample: HAM-MW-54 **Lab ID: 92682397006** Collected: 08/09/23 16:51 Received: 08/11/23 13:12 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Arsenic	**0.085**	mg/L	0.010	0.0037	1	08/17/23 10:25	08/22/23 20:23	7440-38-2	
Boron	**0.45**	mg/L	0.040	0.0086	1	08/17/23 10:25	08/22/23 20:23	7440-42-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CCR-CA)
Pace Project No.: 92682397

Sample: HAM-AP1-FD-06 **Lab ID: 92682397007** Collected: 08/09/23 00:00 Received: 08/11/23 13:12 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**21.3**	mg/L	0.040	0.025	1	08/23/23 12:06	08/23/23 21:54	7439-89-6	
Manganese	**6.8**	mg/L	0.040	0.011	1	08/23/23 12:06	08/23/23 21:54	7439-96-5	
Potassium	**5.6**	mg/L	0.50	0.15	1	08/23/23 12:06	08/23/23 21:54	7440-09-7	
Sodium	**6.3**	mg/L	1.0	0.58	1	08/23/23 12:06	08/23/23 21:54	7440-23-5	
Calcium	**128**	mg/L	1.0	0.12	1	08/23/23 12:06	08/23/23 21:54	7440-70-2	
Magnesium	**16.7**	mg/L	0.050	0.012	1	08/23/23 12:06	08/23/23 21:54	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.0012	1	08/17/23 10:25	08/22/23 20:29	7440-36-0	
Arsenic	**0.36**	mg/L	0.010	0.0037	1	08/17/23 10:25	08/22/23 20:29	7440-38-2	
Barium	**0.047**	mg/L	0.0050	0.00067	1	08/17/23 10:25	08/22/23 20:29	7440-39-3	
Beryllium	**0.000065J**	mg/L	0.00050	0.000054	1	08/17/23 10:25	08/22/23 20:29	7440-41-7	
Boron	**0.90**	mg/L	0.040	0.0086	1	08/17/23 10:25	08/22/23 20:29	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	08/17/23 10:25	08/22/23 20:29	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/17/23 10:25	08/23/23 17:24	7440-47-3	
Cobalt	**0.034**	mg/L	0.0050	0.00039	1	08/17/23 10:25	08/22/23 20:29	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	08/17/23 10:25	08/22/23 20:29	7439-92-1	
Lithium	**0.066**	mg/L	0.030	0.00073	1	08/17/23 10:25	08/22/23 20:29	7439-93-2	
Molybdenum	**0.0068J**	mg/L	0.010	0.00074	1	08/17/23 10:25	08/22/23 20:29	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	08/17/23 10:25	08/22/23 20:29	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	08/17/23 10:25	08/22/23 20:29	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	08/17/23 12:00	08/17/23 15:42	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**699**	mg/L	25.0	25.0	1		08/15/23 16:57		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**111**	mg/L	5.0	5.0	1		08/16/23 16:12		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		08/16/23 16:12		
Alkalinity, Total as CaCO3	**111**	mg/L	5.0	5.0	1		08/16/23 16:12		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		08/15/23 06:31	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**14.6**	mg/L	1.0	0.60	1		08/16/23 03:19	16887-00-6	

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Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Hammond AP-1 (CCR-CA)
Pace Project No.: 92682397

Sample: HAM-AP1-FD-06 **Lab ID: 92682397007** Collected: 08/09/23 00:00 Received: 08/11/23 13:12 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.29**	mg/L	0.10	0.050	1		08/16/23 03:19	16984-48-8	
Sulfate	**293**	mg/L	6.0	3.0	6		08/16/23 12:22	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CCR-CA)
Pace Project No.: 92682397

Sample: HAM-AP1-FB-06 **Lab ID: 92682397008** Collected: 08/09/23 16:50 Received: 08/11/23 13:12 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	08/23/23 12:06	08/23/23 21:59	7439-89-6	
Manganese	ND	mg/L	0.040	0.011	1	08/23/23 12:06	08/23/23 21:59	7439-96-5	
Potassium	ND	mg/L	0.50	0.15	1	08/23/23 12:06	08/23/23 21:59	7440-09-7	
Sodium	ND	mg/L	1.0	0.58	1	08/23/23 12:06	08/23/23 21:59	7440-23-5	
Calcium	ND	mg/L	1.0	0.12	1	08/23/23 12:06	08/23/23 21:59	7440-70-2	
Magnesium	ND	mg/L	0.050	0.012	1	08/23/23 12:06	08/23/23 21:59	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.0012	1	08/17/23 10:25	08/22/23 20:35	7440-36-0	
Arsenic	ND	mg/L	0.010	0.0037	1	08/17/23 10:25	08/22/23 20:35	7440-38-2	
Barium	ND	mg/L	0.0050	0.00067	1	08/17/23 10:25	08/22/23 20:35	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	08/17/23 10:25	08/22/23 20:35	7440-41-7	
Boron	**0.012J**	mg/L	0.040	0.0086	1	08/17/23 10:25	08/22/23 20:35	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	08/17/23 10:25	08/22/23 20:35	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/17/23 10:25	08/23/23 17:28	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	08/17/23 10:25	08/22/23 20:35	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	08/17/23 10:25	08/22/23 20:35	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	08/17/23 10:25	08/22/23 20:35	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	08/17/23 10:25	08/22/23 20:35	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	08/17/23 10:25	08/22/23 20:35	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	08/17/23 10:25	08/22/23 20:35	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	08/17/23 12:00	08/17/23 15:44	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		08/15/23 16:57		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		08/16/23 16:22		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		08/16/23 16:22		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		08/16/23 16:22		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		08/15/23 06:32	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		08/16/23 03:33	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CCR-CA)
Pace Project No.: 92682397

Sample: HAM-AP1-FB-06 **Lab ID: 92682397008** Collected: 08/09/23 16:50 Received: 08/11/23 13:12 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	ND	mg/L	0.10	0.050	1		08/16/23 03:33	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		08/16/23 03:33	14808-79-8	

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QUALITY CONTROL DATA

Project: Hammond AP-1 (CCR-CA)
Pace Project No.: 92682397

QC Batch: 793618
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92682397001, 92682397002, 92682397003

METHOD BLANK: 4112489 Matrix: Water
Associated Lab Samples: 92682397001, 92682397002, 92682397003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	08/18/23 19:00	
Iron	mg/L	ND	0.040	0.025	08/18/23 19:00	
Magnesium	mg/L	ND	0.050	0.012	08/18/23 19:00	
Manganese	mg/L	ND	0.040	0.011	08/18/23 19:00	
Potassium	mg/L	ND	0.50	0.15	08/18/23 19:00	
Sodium	mg/L	ND	1.0	0.58	08/18/23 19:00	

LABORATORY CONTROL SAMPLE: 4112490

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.1	108	80-120	
Iron	mg/L	1	1.0	102	80-120	
Magnesium	mg/L	1	1.0	101	80-120	
Manganese	mg/L	1	0.99	99	80-120	
Potassium	mg/L	1	1.1	106	80-120	
Sodium	mg/L	1	1.1	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4112491 4112492

Parameter	Units	92682392001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	8.4	1	1	8.8	9.3	35	92	75-125	6	20	M1
Iron	mg/L	ND	1	1	1.0	1.0	100	100	75-125	0	20	
Magnesium	mg/L	3.4	1	1	4.1	4.3	72	92	75-125	5	20	M1
Manganese	mg/L	ND	1	1	0.98	0.99	97	98	75-125	1	20	
Potassium	mg/L	0.32J	1	1	1.3	1.5	102	113	75-125	8	20	
Sodium	mg/L	9.5	1	1	10	10.5	44	103	75-125	6	20	M1

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QUALITY CONTROL DATA

Project: Hammond AP-1 (CCR-CA)
Pace Project No.: 92682397

QC Batch: 795409
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92682397004, 92682397007, 92682397008

METHOD BLANK: 4121384 Matrix: Water
Associated Lab Samples: 92682397004, 92682397007, 92682397008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	08/23/23 21:12	
Iron	mg/L	ND	0.040	0.025	08/23/23 21:12	
Magnesium	mg/L	ND	0.050	0.012	08/23/23 21:12	
Manganese	mg/L	ND	0.040	0.011	08/23/23 21:12	
Potassium	mg/L	ND	0.50	0.15	08/23/23 21:12	
Sodium	mg/L	ND	1.0	0.58	08/23/23 21:12	

LABORATORY CONTROL SAMPLE: 4121385

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	0.93J	93	80-120	
Iron	mg/L	1	1.0	102	80-120	
Magnesium	mg/L	1	1.1	109	80-120	
Manganese	mg/L	1	1.0	105	80-120	
Potassium	mg/L	1	1.0	100	80-120	
Sodium	mg/L	1	1.1	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4121386 4121387

Parameter	Units	92682397004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	116	1	1	112	116	-370	-33	75-125	3	20	M1
Iron	mg/L	2.9	1	1	3.7	3.8	84	95	75-125	3	20	
Magnesium	mg/L	16.8	1	1	17.0	17.5	22	63	75-125	2	20	M1
Manganese	mg/L	3.1	1	1	4.0	4.0	83	90	75-125	2	20	
Potassium	mg/L	6.7	1	1	7.5	7.7	73	98	75-125	3	20	M1
Sodium	mg/L	9.4	1	1	9.9	10.3	54	92	75-125	4	20	M1

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QUALITY CONTROL DATA

Project: Hammond AP-1 (CCR-CA)
Pace Project No.: 92682397

QC Batch: 794002
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92682397001, 92682397002, 92682397003, 92682397004

METHOD BLANK: 4114214 Matrix: Water
Associated Lab Samples: 92682397001, 92682397002, 92682397003, 92682397004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	0.0043	0.0030	0.0012	08/22/23 15:04	
Arsenic	mg/L	ND	0.010	0.0037	08/22/23 15:04	
Barium	mg/L	ND	0.0050	0.00067	08/22/23 15:04	
Beryllium	mg/L	ND	0.00050	0.000054	08/22/23 15:04	
Boron	mg/L	ND	0.040	0.0086	08/22/23 15:04	
Cadmium	mg/L	ND	0.00050	0.00011	08/22/23 15:04	
Chromium	mg/L	ND	0.0050	0.0011	08/22/23 15:04	
Cobalt	mg/L	ND	0.0050	0.00039	08/22/23 15:04	
Lead	mg/L	ND	0.0010	0.00012	08/22/23 15:04	
Lithium	mg/L	ND	0.030	0.00073	08/22/23 15:04	
Molybdenum	mg/L	ND	0.010	0.00074	08/22/23 15:04	
Selenium	mg/L	ND	0.0050	0.0014	08/22/23 15:04	
Thallium	mg/L	ND	0.0010	0.00018	08/22/23 15:04	

LABORATORY CONTROL SAMPLE: 4114215

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	112	80-120	
Arsenic	mg/L	0.1	0.10	102	80-120	
Barium	mg/L	0.1	0.10	100	80-120	
Beryllium	mg/L	0.1	0.11	110	80-120	
Boron	mg/L	1	1.1	110	80-120	
Cadmium	mg/L	0.1	0.10	102	80-120	
Chromium	mg/L	0.1	0.11	106	80-120	
Cobalt	mg/L	0.1	0.10	104	80-120	
Lead	mg/L	0.1	0.10	105	80-120	
Lithium	mg/L	0.1	0.11	110	80-120	
Molybdenum	mg/L	0.1	0.11	107	80-120	
Selenium	mg/L	0.1	0.11	105	80-120	
Thallium	mg/L	0.1	0.11	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4114216 4114217

Parameter	Units	92682396010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	0.0014J	0.1	0.1	0.11	0.10	107	101	75-125	6	20	
Arsenic	mg/L	0.0040J	0.1	0.1	0.12	0.11	112	104	75-125	7	20	

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QUALITY CONTROL DATA

Project: Hammond AP-1 (CCR-CA)
Pace Project No.: 92682397

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4114216 4114217

Parameter	Units	92682396010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	mg/L	0.042	0.1	0.1	0.16	0.15	118	108	75-125	6	20	
Beryllium	mg/L	0.00071	0.1	0.1	0.090	0.085	89	84	75-125	6	20	
Boron	mg/L	10.1	1	1	10.9	10.7	77	57	75-125	2	20	M1
Cadmium	mg/L	0.00059	0.1	0.1	0.099	0.094	98	94	75-125	5	20	
Chromium	mg/L	ND	0.1	0.1	0.10	0.097	104	97	75-125	7	20	
Cobalt	mg/L	0.21	0.1	0.1	0.31	0.29	102	83	75-125	6	20	
Lead	mg/L	0.00013J	0.1	0.1	0.067	0.064	67	64	75-125	5	20	M1
Lithium	mg/L	0.0024J	0.1	0.1	0.097	0.092	95	89	75-125	6	20	
Molybdenum	mg/L	ND	0.1	0.1	0.11	0.10	109	104	75-125	5	20	
Selenium	mg/L	0.013	0.1	0.1	0.13	0.13	122	113	75-125	8	20	
Thallium	mg/L	0.00021J	0.1	0.1	0.069	0.066	68	65	75-125	5	20	M1

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QUALITY CONTROL DATA

Project: Hammond AP-1 (CCR-CA)
Pace Project No.: 92682397

QC Batch: 794177
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92682397005, 92682397006, 92682397007, 92682397008

METHOD BLANK: 4115107 Matrix: Water
Associated Lab Samples: 92682397005, 92682397006, 92682397007, 92682397008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.0012	08/22/23 18:42	
Arsenic	mg/L	ND	0.010	0.0037	08/22/23 18:42	
Barium	mg/L	ND	0.0050	0.00067	08/22/23 18:42	
Beryllium	mg/L	ND	0.00050	0.000054	08/22/23 18:42	
Boron	mg/L	ND	0.040	0.0086	08/22/23 18:42	
Cadmium	mg/L	ND	0.00050	0.00011	08/22/23 18:42	
Chromium	mg/L	ND	0.0050	0.0011	08/23/23 16:28	
Cobalt	mg/L	ND	0.0050	0.00039	08/22/23 18:42	
Lead	mg/L	ND	0.0010	0.00012	08/22/23 18:42	
Lithium	mg/L	ND	0.030	0.00073	08/22/23 18:42	
Molybdenum	mg/L	ND	0.010	0.00074	08/22/23 18:42	
Selenium	mg/L	ND	0.0050	0.0014	08/22/23 18:42	
Thallium	mg/L	ND	0.0010	0.00018	08/22/23 18:42	

LABORATORY CONTROL SAMPLE: 4115108

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.10	104	80-120	
Arsenic	mg/L	0.1	0.094	94	80-120	
Barium	mg/L	0.1	0.096	96	80-120	
Beryllium	mg/L	0.1	0.093	93	80-120	
Boron	mg/L	1	0.94	94	80-120	
Cadmium	mg/L	0.1	0.096	96	80-120	
Chromium	mg/L	0.1	0.10	100	80-120	
Cobalt	mg/L	0.1	0.090	90	80-120	
Lead	mg/L	0.1	0.094	94	80-120	
Lithium	mg/L	0.1	0.098	98	80-120	
Molybdenum	mg/L	0.1	0.095	95	80-120	
Selenium	mg/L	0.1	0.097	97	80-120	
Thallium	mg/L	0.1	0.093	93	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4115109 4115110

Parameter	Units	92681886001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.10	0.10	104	103	75-125	1	20	
Arsenic	mg/L	ND	0.1	0.1	0.099	0.098	99	98	75-125	1	20	

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QUALITY CONTROL DATA

Project: Hammond AP-1 (CCR-CA)
Pace Project No.: 92682397

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4115109 4115110

Parameter	Units	92681886001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	mg/L	0.039	0.1	0.1	0.14	0.14	103	103	75-125	1	20	
Beryllium	mg/L	0.000067J	0.1	0.1	0.094	0.091	94	91	75-125	4	20	
Boron	mg/L	0.029J	1	1	0.97	0.94	94	91	75-125	3	20	
Cadmium	mg/L	ND	0.1	0.1	0.098	0.099	98	99	75-125	1	20	
Chromium	mg/L	ND	0.1	0.1	0.10	0.10	102	101	75-125	1	20	
Cobalt	mg/L	0.00041J	0.1	0.1	0.092	0.091	91	91	75-125	0	20	
Lead	mg/L	ND	0.1	0.1	0.093	0.092	93	92	75-125	1	20	
Lithium	mg/L	ND	0.1	0.1	0.095	0.094	95	93	75-125	2	20	
Molybdenum	mg/L	ND	0.1	0.1	0.096	0.096	96	95	75-125	0	20	
Selenium	mg/L	ND	0.1	0.1	0.10	0.099	100	99	75-125	1	20	
Thallium	mg/L	ND	0.1	0.1	0.092	0.092	92	92	75-125	0	20	

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QUALITY CONTROL DATA

Project: Hammond AP-1 (CCR-CA)
Pace Project No.: 92682397

QC Batch: 794154 | Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A | Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92682397001, 92682397002, 92682397003, 92682397004, 92682397007, 92682397008

METHOD BLANK: 4115033 Matrix: Water
Associated Lab Samples: 92682397001, 92682397002, 92682397003, 92682397004, 92682397007, 92682397008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	08/17/23 15:13	

LABORATORY CONTROL SAMPLE: 4115034

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0023	93	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4115035 4115036

Parameter	Units	92682397001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0024	0.0024	94	94	75-125	0	20	

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REPORT OF LABORATORY ANALYSIS

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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Hammond AP-1 (CCR-CA)
Pace Project No.: 92682397

QC Batch: 793700 | Analysis Method: SM 2540C-2015
QC Batch Method: SM 2540C-2015 | Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92682397001, 92682397002, 92682397003, 92682397004, 92682397007, 92682397008

METHOD BLANK: 4112841 Matrix: Water
Associated Lab Samples: 92682397001, 92682397002, 92682397003, 92682397004, 92682397007, 92682397008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	08/15/23 16:52	

LABORATORY CONTROL SAMPLE: 4112842

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	446	112	80-120	

SAMPLE DUPLICATE: 4112843

Parameter	Units	92682396001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1890	1910	1	10	

SAMPLE DUPLICATE: 4112844

Parameter	Units	92682397001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	771	760	1	10	

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QUALITY CONTROL DATA

Project: Hammond AP-1 (CCR-CA)
Pace Project No.: 92682397

QC Batch: 793896 | Analysis Method: SM 2320B-2011
QC Batch Method: SM 2320B-2011 | Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92682397001, 92682397002, 92682397003, 92682397004, 92682397007, 92682397008

METHOD BLANK: 4113632 Matrix: Water
Associated Lab Samples: 92682397001, 92682397002, 92682397003, 92682397004, 92682397007, 92682397008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	08/16/23 13:58	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	08/16/23 13:58	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	08/16/23 13:58	

LABORATORY CONTROL SAMPLE: 4113633

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	52.1	104	80-120	

LABORATORY CONTROL SAMPLE: 4113634

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	55.0	110	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4113635 4113636

Parameter	Units	92682175001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	464	50	50	487	487	47	46	80-120	0	25	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4113637 4113638

Parameter	Units	92682175002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	12.5	50	50	65.7	65.4	106	106	80-120	0	25	

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QUALITY CONTROL DATA

Project: Hammond AP-1 (CCR-CA)
Pace Project No.: 92682397

QC Batch: 793500 | Analysis Method: SM 4500-S2D-2011
QC Batch Method: SM 4500-S2D-2011 | Analysis Description: 4500S2D Sulfide Water
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92682397001, 92682397002, 92682397003, 92682397004, 92682397007, 92682397008

METHOD BLANK: 4111958 Matrix: Water
Associated Lab Samples: 92682397001, 92682397002, 92682397003, 92682397004, 92682397007, 92682397008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	0.022	08/15/23 06:24	

LABORATORY CONTROL SAMPLE: 4111959

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	0.50	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4111960 4111961

Parameter	Units	92682396005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.50	0.45	99	89	80-120	11	10	R1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4111962 4111963

Parameter	Units	92682397007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.53	0.55	104	108	80-120	4	10	

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QUALITY CONTROL DATA

Project: Hammond AP-1 (CCR-CA)
Pace Project No.: 92682397

QC Batch: 793550
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92682397001

METHOD BLANK: 4112126 Matrix: Water
Associated Lab Samples: 92682397001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	08/15/23 12:46	
Fluoride	mg/L	ND	0.10	0.050	08/15/23 12:46	
Sulfate	mg/L	ND	1.0	0.50	08/15/23 12:46	

LABORATORY CONTROL SAMPLE: 4112127

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	48.4	97	90-110	
Fluoride	mg/L	2.5	2.5	98	90-110	
Sulfate	mg/L	50	47.4	95	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4112128 4112129

Parameter	Units	92682198001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	ND	50	50	48.0	48.3	95	96	90-110	1	10	
Fluoride	mg/L	ND	2.5	2.5	2.4	2.4	94	95	90-110	1	10	
Sulfate	mg/L	ND	50	50	47.3	47.6	93	94	90-110	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4112130 4112131

Parameter	Units	92682396003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	141	50	50	179	180	77	78	90-110	0	10	M1
Fluoride	mg/L	0.56	2.5	2.5	3.1	3.2	102	104	90-110	2	10	
Sulfate	mg/L	762	50	50	787	789	50	53	90-110	0	10	M1

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QUALITY CONTROL DATA

Project: Hammond AP-1 (CCR-CA)
Pace Project No.: 92682397

QC Batch: 793553
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92682397002, 92682397003, 92682397004, 92682397007, 92682397008

METHOD BLANK: 4112135 Matrix: Water
Associated Lab Samples: 92682397002, 92682397003, 92682397004, 92682397007, 92682397008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	08/15/23 22:01	
Fluoride	mg/L	ND	0.10	0.050	08/15/23 22:01	
Sulfate	mg/L	ND	1.0	0.50	08/15/23 22:01	

LABORATORY CONTROL SAMPLE: 4112136

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.5	99	90-110	
Fluoride	mg/L	2.5	2.5	100	90-110	
Sulfate	mg/L	50	48.3	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4112137 4112138

Parameter	Units	92682397002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	14.5	50	50	62.4	63.0	96	97	90-110	1	10	
Fluoride	mg/L	0.27	2.5	2.5	2.6	2.6	92	93	90-110	2	10	
Sulfate	mg/L	290	50	50	327	328	73	75	90-110	0	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4112139 4112140

Parameter	Units	92682398009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	13.6	50	50	61.8	62.0	96	97	90-110	0	10	
Fluoride	mg/L	1.5	2.5	2.5	3.8	3.9	95	96	90-110	1	10	
Sulfate	mg/L	0.62J	50	50	47.3	47.5	93	94	90-110	1	10	

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QUALIFIERS

Project: Hammond AP-1 (CCR-CA)
Pace Project No.: 92682397

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
R1	RPD value was outside control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Hammond AP-1 (CCR-CA)
Pace Project No.: 92682397

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92682397001	**HAM-PT-07**	EPA 3010A	793618	EPA 6010D	794582
92682397002	**HAM-PT-08**	EPA 3010A	793618	EPA 6010D	794582
92682397003	**HAM-PT-09**	EPA 3010A	793618	EPA 6010D	794582
92682397004	**HAM-PT-10**	EPA 3010A	795409	EPA 6010D	795455
92682397007	**HAM-AP1-FD-06**	EPA 3010A	795409	EPA 6010D	795455
92682397008	**HAM-AP1-FB-06**	EPA 3010A	795409	EPA 6010D	795455
92682397001	**HAM-PT-07**	EPA 3005A	794002	EPA 6020B	794064
92682397002	**HAM-PT-08**	EPA 3005A	794002	EPA 6020B	794064
92682397003	**HAM-PT-09**	EPA 3005A	794002	EPA 6020B	794064
92682397004	**HAM-PT-10**	EPA 3005A	794002	EPA 6020B	794064
92682397005	**HAM-MW-53**	EPA 3005A	794177	EPA 6020B	794304
92682397006	**HAM-MW-54**	EPA 3005A	794177	EPA 6020B	794304
92682397007	**HAM-AP1-FD-06**	EPA 3005A	794177	EPA 6020B	794304
92682397008	**HAM-AP1-FB-06**	EPA 3005A	794177	EPA 6020B	794304
92682397001	**HAM-PT-07**	EPA 7470A	794154	EPA 7470A	794256
92682397002	**HAM-PT-08**	EPA 7470A	794154	EPA 7470A	794256
92682397003	**HAM-PT-09**	EPA 7470A	794154	EPA 7470A	794256
92682397004	**HAM-PT-10**	EPA 7470A	794154	EPA 7470A	794256
92682397007	**HAM-AP1-FD-06**	EPA 7470A	794154	EPA 7470A	794256
92682397008	**HAM-AP1-FB-06**	EPA 7470A	794154	EPA 7470A	794256
92682397001	**HAM-PT-07**	SM 2540C-2015	793700		
92682397002	**HAM-PT-08**	SM 2540C-2015	793700		
92682397003	**HAM-PT-09**	SM 2540C-2015	793700		
92682397004	**HAM-PT-10**	SM 2540C-2015	793700		
92682397007	**HAM-AP1-FD-06**	SM 2540C-2015	793700		
92682397008	**HAM-AP1-FB-06**	SM 2540C-2015	793700		
92682397001	**HAM-PT-07**	SM 2320B-2011	793896		
92682397002	**HAM-PT-08**	SM 2320B-2011	793896		
92682397003	**HAM-PT-09**	SM 2320B-2011	793896		
92682397004	**HAM-PT-10**	SM 2320B-2011	793896		
92682397007	**HAM-AP1-FD-06**	SM 2320B-2011	793896		
92682397008	**HAM-AP1-FB-06**	SM 2320B-2011	793896		
92682397001	**HAM-PT-07**	SM 4500-S2D-2011	793500		
92682397002	**HAM-PT-08**	SM 4500-S2D-2011	793500		
92682397003	**HAM-PT-09**	SM 4500-S2D-2011	793500		
92682397004	**HAM-PT-10**	SM 4500-S2D-2011	793500		
92682397007	**HAM-AP1-FD-06**	SM 4500-S2D-2011	793500		
92682397008	**HAM-AP1-FB-06**	SM 4500-S2D-2011	793500		
92682397001	**HAM-PT-07**	EPA 300.0 Rev 2.1 1993	793550		
92682397002	**HAM-PT-08**	EPA 300.0 Rev 2.1 1993	793553		
92682397003	**HAM-PT-09**	EPA 300.0 Rev 2.1 1993	793553		
92682397004	**HAM-PT-10**	EPA 300.0 Rev 2.1 1993	793553		
92682397007	**HAM-AP1-FD-06**	EPA 300.0 Rev 2.1 1993	793553		
92682397008	**HAM-AP1-FB-06**	EPA 300.0 Rev 2.1 1993	793553		

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Pace ANALYTICAL SERVICES

DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville ☐ **Eden** ☐ **Greenwood** ☐ **Huntersville** ☐ **Raleigh** ☐ **Mechanicsville** ☐ **Atlanta** ☑ **Kernersville** ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project # WO#: 92682397

92682397

Courier: ☐ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Pace ☐ Other:

Custody Seal Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☐ No

Date/Initials Person Examining Contents: 8/11/23 TS

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 230

Cooler Temp: 3.1 **Correction Factor:** Add/Subtract (°C) 0.0 **Type of Ice:** ☑ Wet ☐ Blue ☐ None

Cooler Temp Corrected (°C): 3.1

Temp should be above freezing to 6°C

☐ Samples out of temp criteria. Samples on ice, cooling process has begun

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☑ Yes	☐ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☐ Yes	☑ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: W				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date: 8/14/23

Project Manager SRF Review: Date: 8/14/23

Qualtrax ID: 69614

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Project #

WO#: 92682397

PM: BV Due Date: 08/28/23

CLIENT: 92-GR-HAM

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG9A-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		2	1			1	1																						
2		2	1			1	1																						
3		2	1			1	1																						
4		2	1			1	1																						
5						1																							
6						1																							
7		2	1			1	1																						
8		2	1			1	1																						
9																													
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

Section A Required Client Information:

Company:	GA Power
Address:	Atlanta, GA
Email To:	SCS Contacts
Phone:	Fax:
Requested Due Date/TAT:	10 Day

Section B Required Project Information:

Report To:	SCS Contacts
Copy To:	Geosyntec Contacts
Purchase Order No.:	
Project Name:	Hammond AP-1
Project Number:	

Section C Invoice Information:

Attention:	Southern Co.
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	Bonnie Vang
Pace Profile #:	10839

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☑ OTHER CCR

Site Location STATE: GA

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / , -) Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE DATE	COLLECTED COMPOSITE TIME	COLLECTED COMPOSITE DATE	COLLECTED COMPOSITE TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	Chloride, Fluoride, Sulfate	Full App. III and IV metals	Major Ions (Profile 10839-2)	TDS	Boron and Molybdenum	Boron and Arsenic	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 92682397
																		Requested Analysis Filtered (Y/N)	N	N	N	N	N	N		
1	HAM-PT-07	WG	G	8/9/2023	1759			21	5	3		1					1		X	X	X	X			N	001
2	HAM-PT-08	WG	G	8/9/2023	1050			21	5	3		1					1		X	X	X	X			N	002
3	HAM-PT-09	WG	G	8/9/2023	1442			22	5	3		1					1		X	X	X	X			N	003
4	HAM-PT-10	WG	G	8/9/2023	1305			22	5	3		1					1		X	X	X	X			N	004
5	HAM-MW-53	WG	G	8/9/2023	1640			20	1			1											X		N	005
6	HAM-MW-54	WG	G	8/9/2023	1651			23	1			1												X	N	006
7	HAM-AP1-FD-06	WG	G	8/9/2023	0000			22	5	3		1					1		X	X	X	X			N	007
8	HAM-AP1-FB-06	WQ	G	8/9/2023	1650	TK 8/9/2023		22	5	3		1					1		X	X	X	X			N	008
9																										Last Sample
10																										
11																										
12						TK 8/9/2023																				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Task Code: HAM-CCR-CA-20230809	Thomas Kessler / Geosyntec	8/11/2023	1312	Ryan Williams / Pace	8/11/2023	1312	
	Ryan Williams / Pace	8/11/2023	1535		8/11/23	1535	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Thomas Kessler, Elizabeth McDonnell / Geosyntec Consultants, Inc.

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 08/09/2023

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Field Sampling Forms

Low-Flow Test Report:

Test Date / Time: 7/13/2023 3:37:26 PM
Project: GW6581
Operator Name: Alana Neely

Location Name: PT-07 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 38.6 ft** **Total Depth: 48.6 ft** **Initial Depth to Water: 25.3 ft**	**Pump Type: Peri** **Tubing Type: Poly** **Pump Intake From TOC: 43.6 ft** **Estimated Total Volume Pumped: 9 L** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 884187**

Test Notes:
Five bottles: Full App III and IV and Geochem

Weather Conditions:
73-91 deg F sunny

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
7/13/2023 3:37 PM	00:00	6.80 pH	28.25 °C	1,056.0 µS/cm	1.39 mg/L	21.70 NTU	-108.6 mV	25.30 ft	200.00 ml/min
7/13/2023 3:42 PM	05:00	6.81 pH	26.88 °C	1,079.0 µS/cm	0.68 mg/L	21.30 NTU	-111.1 mV	25.30 ft	200.00 ml/min
7/13/2023 3:47 PM	10:00	6.82 pH	26.52 °C	1,072.1 µS/cm	0.49 mg/L	18.70 NTU	-127.0 mV	25.30 ft	200.00 ml/min
7/13/2023 3:52 PM	15:00	6.80 pH	27.35 °C	1,080.9 µS/cm	0.48 mg/L	16.00 NTU	-128.2 mV	25.30 ft	200.00 ml/min
7/13/2023 3:57 PM	20:00	6.77 pH	27.44 °C	979.74 µS/cm	0.41 mg/L	9.81 NTU	-113.5 mV	25.30 ft	200.00 ml/min
7/13/2023 4:02 PM	25:00	6.76 pH	27.85 °C	1,068.5 µS/cm	0.35 mg/L	9.08 NTU	-126.8 mV	25.30 ft	200.00 ml/min
7/13/2023 4:07 PM	30:00	6.76 pH	27.68 °C	1,061.0 µS/cm	0.32 mg/L	6.69 NTU	-111.9 mV	25.30 ft	200.00 ml/min
7/13/2023 4:12 PM	35:00	6.75 pH	27.81 °C	1,069.4 µS/cm	0.29 mg/L	6.01 NTU	-125.6 mV	25.30 ft	200.00 ml/min
7/13/2023 4:17 PM	40:00	6.76 pH	27.26 °C	1,064.5 µS/cm	0.30 mg/L	4.91 NTU	-111.0 mV	25.30 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-07	Grab.

HAM-AP1-FD-01	Grab.

Low-Flow Test Report:

Test Date / Time: 7/13/2023 5:11:34 PM
Project: GW6581
Operator Name: Alana Neely

Location Name: PT-08 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 33 ft** **Total Depth: 43 ft** **Initial Depth to Water: 22.2 ft**	**Pump Type: Peri** **Tubing Type: Poly** **Pump Intake From TOC: 38 ft** **Estimated Total Volume Pumped: 8 L** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min Final Draw Down: 0.1 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 884187**

Test Notes:
Five bottles: Full App III and IV and Geochem
Weather Conditions:
73-91 deg F sunny
Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
7/13/2023 5:11 PM	00:00	6.70 pH	26.09 °C	930.24 µS/cm	0.88 mg/L	20.20 NTU	-77.5 mV	22.30 ft	200.00 ml/min
7/13/2023 5:16 PM	05:00	6.68 pH	24.72 °C	960.77 µS/cm	1.07 mg/L	19.70 NTU	-81.4 mV	22.30 ft	200.00 ml/min
7/13/2023 5:21 PM	10:00	6.67 pH	24.21 °C	962.53 µS/cm	0.13 mg/L	24.30 NTU	-101.1 mV	22.30 ft	200.00 ml/min
7/13/2023 5:26 PM	15:00	6.66 pH	24.14 °C	972.51 µS/cm	0.11 mg/L	22.50 NTU	-107.9 mV	22.30 ft	200.00 ml/min
7/13/2023 5:31 PM	20:00	6.67 pH	24.49 °C	1,002.9 µS/cm	0.10 mg/L	8.59 NTU	-124.8 mV	22.30 ft	200.00 ml/min
7/13/2023 5:36 PM	25:00	6.68 pH	24.12 °C	999.67 µS/cm	0.08 mg/L	6.25 NTU	-115.1 mV	22.30 ft	200.00 ml/min
7/13/2023 5:41 PM	30:00	6.66 pH	24.79 °C	1,007.2 µS/cm	0.09 mg/L	7.11 NTU	-116.7 mV	22.30 ft	200.00 ml/min
7/13/2023 5:46 PM	35:00	6.66 pH	24.53 °C	1,007.1 µS/cm	0.09 mg/L	4.41 NTU	-124.9 mV	22.30 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-08	Grab.

Low-Flow Test Report:

Test Date / Time: 7/13/2023 11:06:04 AM
Project: GW6581
Operator Name: Alana Neely

Location Name: PT-09 **Well Diameter: 2 in Casing** **Type: PVC** **Screen Length: 10 ft** **Top of Screen: 18.5 ft** **Total Depth: 28.5 ft** **Initial Depth to Water: 14 ft**	**Pump Type: Peri** **Tubing Type: Poly** **Pump Intake From TOC: 23.5 ft** **Estimated Total Volume Pumped: 25.25 L** **Flow Cell Volume: 90 ml** **Final Flow Rate: 250 ml/min Final Draw Down: 0.1 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 884187**

Test Notes:
Five bottles: Full App III and IV and Geochem

Weather Conditions:
73-91 deg F sunny

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
7/13/2023 11:06 AM	00:00	6.47 pH	23.91 °C	730.32 µS/cm	0.18 mg/L	3.55 NTU	32.8 mV	14.10 ft	250.00 ml/min
7/13/2023 11:07 AM	01:07	6.52 pH	23.22 °C	743.74 µS/cm	0.15 mg/L	-	11.4 mV	14.10 ft	250.00 ml/min
7/13/2023 11:12 AM	06:07	6.56 pH	22.23 °C	753.03 µS/cm	0.09 mg/L	2.51 NTU	6.0 mV	14.10 ft	250.00 ml/min
7/13/2023 11:17 AM	11:07	6.57 pH	22.47 °C	754.10 µS/cm	0.06 mg/L	2.49 NTU	3.4 mV	14.10 ft	250.00 ml/min
7/13/2023 11:22 AM	16:07	6.57 pH	22.10 °C	764.27 µS/cm	0.05 mg/L	4.55 NTU	-9.5 mV	14.10 ft	250.00 ml/min
7/13/2023 11:27 AM	21:07	6.58 pH	22.12 °C	768.51 µS/cm	0.04 mg/L	3.98 NTU	-12.2 mV	14.10 ft	250.00 ml/min
7/13/2023 11:32 AM	26:08	6.42 pH	22.27 °C	729.76 µS/cm	0.04 mg/L	4.56 NTU	4.1 mV	14.10 ft	250.00 ml/min
7/13/2023 11:37 AM	31:08	6.57 pH	22.45 °C	763.33 µS/cm	0.03 mg/L	10.50 NTU	3.6 mV	14.10 ft	250.00 ml/min
7/13/2023 11:42 AM	36:08	6.56 pH	22.99 °C	768.69 µS/cm	0.03 mg/L	16.20 NTU	-19.3 mV	14.10 ft	250.00 ml/min
7/13/2023 11:47 AM	41:08	6.45 pH	23.29 °C	723.65 µS/cm	0.03 mg/L	16.60 NTU	6.2 mV	14.10 ft	250.00 ml/min
7/13/2023 11:52 AM	46:08	6.54 pH	23.37 °C	768.73 µS/cm	0.04 mg/L	16.00 NTU	14.3 mV	14.10 ft	250.00 ml/min
7/13/2023 11:57 AM	51:08	6.56 pH	23.35 °C	767.51 µS/cm	0.03 mg/L	18.00 NTU	12.2 mV	14.10 ft	250.00 ml/min
7/13/2023 12:02 PM	56:08	6.56 pH	23.59 °C	770.87 µS/cm	0.02 mg/L	16.30 NTU	3.5 mV	14.10 ft	250.00 ml/min

7/13/2023 12:07 PM	01:01:08	6.56 pH	23.26 °C	771.12 µS/cm	0.02 mg/L	20.10 NTU	5.6 mV	14.10 ft	250.00 ml/min
7/13/2023 12:12 PM	01:06:08	6.56 pH	23.45 °C	773.37 µS/cm	0.02 mg/L	16.70 NTU	7.1 mV	14.10 ft	250.00 ml/min
7/13/2023 12:17 PM	01:11:08	6.56 pH	23.36 °C	775.77 µS/cm	0.02 mg/L	13.30 NTU	9.8 mV	14.10 ft	250.00 ml/min
7/13/2023 12:22 PM	01:16:08	6.57 pH	24.10 °C	773.97 µS/cm	0.02 mg/L	11.81 NTU	14.8 mV	14.10 ft	250.00 ml/min
7/13/2023 12:26 PM	01:20:29	6.57 pH	23.62 °C	771.90 µS/cm	0.02 mg/L	10.18 NTU	15.0 mV	14.10 ft	250.00 ml/min
7/13/2023 12:31 PM	01:25:29	6.57 pH	23.66 °C	776.24 µS/cm	0.02 mg/L	9.43 NTU	18.2 mV	14.10 ft	250.00 ml/min
7/13/2023 12:36 PM	01:30:29	6.57 pH	24.30 °C	779.12 µS/cm	0.02 mg/L	7.91 NTU	16.2 mV	14.10 ft	250.00 ml/min
7/13/2023 12:41 PM	01:35:29	6.57 pH	24.48 °C	779.77 µS/cm	0.02 mg/L	4.95 NTU	18.4 mV	14.10 ft	250.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-09	Grab.

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 7/13/2023 1:16:15 PM
Project: GW6581
Operator Name: Alana Neely

Location Name: PT-10 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 18 ft** **Total Depth: 28 ft** **Initial Depth to Water: 14 ft**	**Pump Type: Peri** **Tubing Type: Poly** **Pump Intake From TOC: 23 ft** **Estimated Total Volume Pumped: 12 L** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min Final Draw Down: 0.3 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 884187**

Test Notes:
Five bottles: Full App III and IV and Geochem

Weather Conditions:
73-91 deg F; sunny

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 10	+/- 10	+/- 0.3	
7/13/2023 1:16 PM	00:00	7.05 pH	24.25 °C	808.38 µS/cm	0.31 mg/L	11.60 NTU	-135.4 mV	14.30 ft	200.00 ml/min
7/13/2023 1:21 PM	04:45	7.04 pH	22.90 °C	832.12 µS/cm	0.49 mg/L	20.60 NTU	-134.8 mV	14.30 ft	200.00 ml/min
7/13/2023 1:25 PM	09:02	7.05 pH	22.36 °C	827.40 µS/cm	0.12 mg/L	18.10 NTU	-142.1 mV	14.30 ft	200.00 ml/min
7/13/2023 1:30 PM	14:02	7.04 pH	21.87 °C	835.53 µS/cm	0.10 mg/L	13.20 NTU	-136.6 mV	14.30 ft	200.00 ml/min
7/13/2023 1:35 PM	19:02	7.03 pH	22.00 °C	831.33 µS/cm	0.08 mg/L	12.47 NTU	-182.4 mV	14.30 ft	200.00 ml/min
7/13/2023 1:40 PM	24:02	7.03 pH	22.23 °C	834.62 µS/cm	0.06 mg/L	10.64 NTU	-179.2 mV	14.30 ft	200.00 ml/min
7/13/2023 1:45 PM	29:02	7.02 pH	21.83 °C	837.40 µS/cm	0.05 mg/L	9.54 NTU	-126.6 mV	14.30 ft	200.00 ml/min
7/13/2023 1:50 PM	34:02	7.02 pH	22.13 °C	840.48 µS/cm	0.05 mg/L	8.72 NTU	-173.7 mV	14.30 ft	200.00 ml/min
7/13/2023 1:55 PM	39:02	7.02 pH	21.98 °C	834.18 µS/cm	0.04 mg/L	7.59 NTU	-122.1 mV	14.30 ft	200.00 ml/min
7/13/2023 2:00 PM	44:02	7.01 pH	21.89 °C	840.03 µS/cm	0.04 mg/L	6.56 NTU	-118.7 mV	14.30 ft	200.00 ml/min
7/13/2023 2:05 PM	49:02	7.01 pH	22.10 °C	840.92 µS/cm	0.03 mg/L	5.64 NTU	-163.8 mV	14.30 ft	200.00 ml/min
7/13/2023 2:10 PM	54:02	7.01 pH	21.95 °C	842.15 µS/cm	0.03 mg/L	4.94 NTU	-161.5 mV	14.30 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-10	Grab.

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/9/2023 5:24:44 PM
Project: GP-Plant Hammond
Operator Name: Thomas Kessler

Location Name: PT-07 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 38.6 ft** **Total Depth: 47.94 ft** **Initial Depth to Water: 25.05 ft**	**Pump Type: Peri** **Tubing Type: Poly** **Pump Intake From TOC: 43.8 ft** **Estimated Total Volume Pumped: 8 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.05 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850724**

Test Notes:
Five bottles: Baseline Sampling and Major Ions

Weather Conditions:
Cloudy, 80 Degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
8/9/2023 5:24 PM	00:00	6.69 pH	22.70 °C	979.72 µS/cm	0.65 mg/L	6.30 NTU	-88.9 mV	25.10 ft	200.00 ml/min
8/9/2023 5:29 PM	05:00	6.73 pH	21.85 °C	986.58 µS/cm	0.43 mg/L	4.87 NTU	-89.0 mV	25.10 ft	200.00 ml/min
8/9/2023 5:34 PM	10:00	6.76 pH	21.55 °C	992.34 µS/cm	0.48 mg/L	4.83 NTU	-89.8 mV	25.10 ft	200.00 ml/min
8/9/2023 5:39 PM	15:00	6.78 pH	21.44 °C	993.38 µS/cm	0.33 mg/L	5.08 NTU	-107.7 mV	25.10 ft	200.00 ml/min
8/9/2023 5:44 PM	20:00	6.79 pH	21.42 °C	1,008.3 µS/cm	0.41 mg/L	1.91 NTU	-90.6 mV	25.10 ft	200.00 ml/min
8/9/2023 5:49 PM	25:00	6.80 pH	21.36 °C	1,010.3 µS/cm	0.30 mg/L	0.80 NTU	-90.8 mV	25.10 ft	200.00 ml/min
8/9/2023 5:54 PM	30:00	6.82 pH	21.19 °C	1,012.4 µS/cm	0.40 mg/L	0.18 NTU	-90.9 mV	25.10 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-07	Grab.

Low-Flow Test Report:

Test Date / Time: 8/9/2023 10:03:54 AM
Project: GP-Plant Hammond
Operator Name: Elisabeth McDonnell

Location Name: PT-08 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 28.8 ft** **Total Depth: 42.0 ft** **Initial Depth to Water: 23.6 ft**	**Pump Type: Bladder pump** **Tubing Type: Peri** **Pump Intake From TOC: 37.3 ft** **Estimated Total Volume Pumped: 8 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 160 ml/min** **Final Draw Down: 0.04 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 989630**

Test Notes:
Five bottles: Baseline Sampling and Major Ions

Weather Conditions:
Cloudy, 80 Degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
8/9/2023 10:03 AM	00:00	6.80 pH	20.72 °C	943.04 µS/cm	2.15 mg/L	15.50 NTU	-57.8 mV	23.64 ft	160.00 ml/min
8/9/2023 10:08 AM	05:00	6.81 pH	20.71 °C	915.43 µS/cm	1.51 mg/L	10.90 NTU	-60.5 mV	23.63 ft	160.00 ml/min
8/9/2023 10:13 AM	10:00	6.81 pH	20.73 °C	905.45 µS/cm	1.62 mg/L	7.91 NTU	-61.7 mV	23.65 ft	160.00 ml/min
8/9/2023 10:18 AM	15:00	6.82 pH	20.59 °C	908.95 µS/cm	2.77 mg/L	4.08 NTU	-82.5 mV	23.64 ft	160.00 ml/min
8/9/2023 10:23 AM	20:00	6.82 pH	20.63 °C	911.77 µS/cm	1.38 mg/L	4.45 NTU	-84.8 mV	23.64 ft	160.00 ml/min
8/9/2023 10:28 AM	25:00	6.82 pH	20.57 °C	907.31 µS/cm	1.20 mg/L	4.04 NTU	-64.7 mV	23.63 ft	160.00 ml/min
8/9/2023 10:33 AM	30:00	6.83 pH	20.52 °C	905.19 µS/cm	0.97 mg/L	2.96 NTU	-85.5 mV	23.63 ft	160.00 ml/min
8/9/2023 10:38 AM	35:00	6.83 pH	20.58 °C	911.05 µS/cm	0.84 mg/L	3.40 NTU	-64.5 mV	23.63 ft	160.00 ml/min
8/9/2023 10:43 AM	40:00	6.82 pH	20.60 °C	909.15 µS/cm	0.94 mg/L	3.98 NTU	-84.4 mV	23.64 ft	160.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-08	Grab.
HAM-AP1-FD-06	Grab.

Low-Flow Test Report:

Test Date / Time: 8/9/2023 1:27:10 PM
Project: GP-Plant Hammond
Operator Name: Elisabeth McDonnell

Location Name: PT-09 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 28.8 ft** **Total Depth: 30.75 ft** **Initial Depth to Water: 14.99 ft**	**Pump Type: Peri** **Tubing Type: Poly** **Pump Intake From TOC: 26 ft** **Estimated Total Volume Pumped: 1.5 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 989630**

Test Notes:
Five bottles: Baseline Sampling and Major Ions

Weather Conditions:
Cloudy, 80 Degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
8/9/2023 1:27 PM	00:00	6.76 pH	21.93 °C	745.27 µS/cm	4.47 mg/L	2.02 NTU	56.2 mV	14.99 ft	200.00 ml/min
8/9/2023 1:32 PM	05:00	6.81 pH	21.68 °C	771.52 µS/cm	3.35 mg/L	1.11 NTU	52.3 mV	14.99 ft	200.00 ml/min
8/9/2023 1:37 PM	10:00	6.85 pH	21.44 °C	786.50 µS/cm	2.58 mg/L	1.46 NTU	28.7 mV	14.99 ft	200.00 ml/min
8/9/2023 1:42 PM	15:00	6.86 pH	21.30 °C	797.33 µS/cm	6.17 mg/L	2.12 NTU	16.0 mV	14.99 ft	200.00 ml/min
8/9/2023 1:47 PM	20:00	6.87 pH	21.28 °C	797.79 µS/cm	2.58 mg/L	2.86 NTU	19.9 mV	14.99 ft	200.00 ml/min
8/9/2023 1:52 PM	25:00	6.88 pH	21.32 °C	806.94 µS/cm	3.88 mg/L	3.70 NTU	15.9 mV	14.99 ft	200.00 ml/min
8/9/2023 1:57 PM	30:00	6.88 pH	21.25 °C	797.98 µS/cm	0.84 mg/L	3.86 NTU	11.7 mV	14.99 ft	200.00 ml/min
8/9/2023 2:02 PM	35:00	6.88 pH	21.20 °C	794.19 µS/cm	0.80 mg/L	3.31 NTU	10.9 mV	14.99 ft	200.00 ml/min
8/9/2023 2:07 PM	40:00	6.88 pH	21.03 °C	791.25 µS/cm	1.44 mg/L	2.06 NTU	10.4 mV	14.99 ft	200.00 ml/min
8/9/2023 2:12 PM	45:00	6.89 pH	20.96 °C	770.10 µS/cm	0.72 mg/L	1.72 NTU	9.1 mV	14.99 ft	200.00 ml/min
8/9/2023 2:17 PM	50:00	6.88 pH	20.97 °C	792.63 µS/cm	0.55 mg/L	0.98 NTU	9.9 mV	14.99 ft	200.00 ml/min
8/9/2023 2:22 PM	55:00	6.89 pH	21.06 °C	791.96 µS/cm	1.03 mg/L	1.51 NTU	1.0 mV	14.99 ft	200.00 ml/min
8/9/2023 2:27 PM	01:00:00	6.89 pH	21.29 °C	791.26 µS/cm	0.63 mg/L	0.62 NTU	12.2 mV	14.99 ft	200.00 ml/min
8/9/2023 2:32 PM	01:05:00	6.89 pH	21.71 °C	825.29 µS/cm	0.44 mg/L	0.44 NTU	14.1 mV	14.99 ft	200.00 ml/min
8/9/2023 2:37 PM	01:10:00	6.89 pH	21.59 °C	826.86 µS/cm	0.58 mg/L	0.56 NTU	14.4 mV	14.99 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-09	Grab.

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/9/2023 12:22:52 PM
Project: GP-Plant Hammond
Operator Name: Elisabeth McDonnell

Location Name: PT-10 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 20 ft** **Total Depth: 31.75 ft** **Initial Depth to Water: 15.05 ft**	**Pump Type: Peri** **Tubing Type: Poly** **Pump Intake From TOC: 25 ft** **Estimated Total Volume Pumped: 5.8 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 160 ml/min** **Final Draw Down: 0.13 m**	**Instrument Used: Aqua TROLL 400** **Serial Number: 989630**

Test Notes:
Five bottles: Baseline Sampling and Major Ions

Weather Conditions:
Cloudy, 80 Degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
8/9/2023 12:22 PM	00:00	7.14 pH	22.18 °C	811.17 µS/cm	1.15 mg/L	24.10 NTU	-75.4 mV	15.18 ft	160.00 ml/min
8/9/2023 12:27 PM	05:00	7.15 pH	22.04 °C	798.04 µS/cm	0.38 mg/L	16.60 NTU	-75.5 mV	15.18 ft	160.00 ml/min
8/9/2023 12:32 PM	10:00	7.16 pH	21.96 °C	800.28 µS/cm	0.37 mg/L	11.80 NTU	-99.1 mV	15.18 ft	160.00 ml/min
8/9/2023 12:37 PM	15:00	7.16 pH	22.00 °C	793.73 µS/cm	0.33 mg/L	4.09 NTU	-78.0 mV	15.18 ft	160.00 ml/min
8/9/2023 12:42 PM	20:00	7.17 pH	21.46 °C	790.02 µS/cm	0.24 mg/L	4.11 NTU	-101.9 mV	15.18 ft	160.00 ml/min
8/9/2023 12:47 PM	25:00	7.18 pH	21.86 °C	782.36 µS/cm	0.16 mg/L	2.36 NTU	-81.4 mV	15.18 ft	160.00 ml/min
8/9/2023 12:52 PM	30:00	7.18 pH	21.79 °C	770.46 µS/cm	0.12 mg/L	4.55 NTU	-80.9 mV	15.18 ft	160.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-10	Grab.

Calibration Forms

Geosyntec consultants

EQUIPMENT CALIBRATION LOG

Field Technician: Mana Neely

Date: 7/13/23

Time (start): 0850 Time (finish): 0910

smarTroll SN: 884187

Turbidity Meter Type: LaMote 2020we

SN: 7009-1416

Weather Conditions: 73-91, sunny

Facility and Unit: Plant Hammond

Project No.: GW6581

Calibration log

	Standard Lot # / Date of Expiration	Temp of Standard (°C)	Value of Standard	Initial Reading	Post-Cal Reading	Acceptable Range	Pass?	Comments
Specific Conductance (µS/cm)	222501 53 11/23	25.72	4490	4122.4	4487.6	+/- 5 %	(Yes) No	
pH (4)			4.00	4.02	4.00	+/- 0.1 SU	(Yes) No	
Mid-Day pH (4) check	–	–	4.00	–	–	+/- 0.1 SU	Yes No	
pH (7)	22168893 11/23	25.7	7.00	7.35	7.00	+/- 0.1 SU	(Yes) No	
Mid-Day pH (7) check	–	–	7.00	–	–	+/- 0.1 SU	Yes No	
pH (10)	21320202 12/23	25.5	10.00	10.3	10.0	+/- 0.1 SU	(Yes) No	
Mid-Day pH (10) check	–	–	10.00	–	–	+/- 0.1 SU	Yes No	
ORP (mV)	21390144 11/23	24.72	228	215.4	227.7	+/- 20mV	(Yes) No	
DO (%) (1pt, 100% water saturated air cal)	[redacted]		100	101.11%	100.00%	+/- 6 % saturation	(Yes) No	
Turbidity 0 NTU			0	0.20	0.06	+/- 0.5 NTU	(Yes) No	
Turbidity 1 NTU			1.00	0.71	0.81	+/- 0.5 NTU	(Yes) No	
Turbidity 10 NTU			10.00	11.36	9.99	+/- 0.5 NTU	(Yes) No	

Geosyntec consultants

EQUIPMENT CALIBRATION LOG

Field Technician: Elisabeth McDonnell | Date: 8/9/23 | Time (start): 830 | Time (finish): 850

smarTroll SN: 989630 | Turbidity Meter Type: La Motte 2020t | SN: 4109-2623

Weather Conditions: 70, cloudy | Facility and Unit: Plant Hammond | Project No.: GW6581

Calibration log

	Standard Lot # / Date of Expiration	Temp of Standard (°C)	Value of Standard	Initial Reading	Post-Cal Reading	Acceptable Range	Pass?	Comments
Specific Conductance (µS/cm)	22250153 11/23	23.18				+/- 5 %	Yes No	
pH (4)	↓		4.00	3.94	4.00	+/- 0.1 SU	(Yes) No	
Mid-Day pH (4) check						+/- 0.1 SU	Yes No	
pH (7)	2216893 11/23	23.48	7.0	6.85	7.0	+/- 0.1 SU	(Yes) No	
Mid-Day pH (7) check	↓					+/- 0.1 SU	Yes No	
pH (10)	21320202 12/23	23.70	10.0	10.6	10.0	+/- 0.1 SU	(Yes) No	
Mid-Day pH (10) check	↓					+/- 0.1 SU	Yes No	
ORP (mV)	21390149 11/23	23.85	228	230.90	228	+/- 20mV	(Yes) No	
DO (%) (1pt, 100% water saturated air cal)			100 %	102.36 %	100 %	+/- 6 % saturation	(Yes) No	
Turbidity 0 NTU			0.0	0.0	0.0	+/- 0.5 NTU	(Yes) No	
Turbidity 1 NTU			1.0	1.0	1.0	+/- 0.5 NTU	(Yes) No	
Turbidity 10 NTU			10.0	11.1	10.4	+/- 0.5 NTU	(Yes) No	

Geosyntec consultants

EQUIPMENT CALIBRATION LOG

Field Technician: Thomas Hessler | Date: 8/9/23 | Time (start): 0800 | Time (finish): 0825

smarTroll SN: 650729 | Turbidity Meter Type: LaMotte 2020we | SN: 1475-21011

Weather Conditions: Sergeant 75° | Facility and Unit: Plant Hammond | Project No: 610585

Calibration log

	Standard Lot # / Date of Expiration	Temp of Standard (°C)	Value of Standard	Initial Reading	Post-Cal Reading	Acceptable Range	Pass?	Comments
Specific Conductance (µS/cm)	22250853 11/23	21.91	4490	4562	4490	+/- 5 %	Yes / No	
pH (4)			4	4.04	4.0	+/- 0.1 SU	Yes / No	
Mid-Day pH (4) check	↓	22	4	4.03	—	+/- 0.1 SU	Yes / No	
pH (7)	22K6873 11/23	22.77	~~7.06~~ 7.00	7.05	7.00	+/- 0.1 SU	Yes / No	
Mid-Day pH (7) check	↓	22	7	6.98	—	+/- 0.1 SU	Yes / No	
pH (10)	21320202 12/23	22.62	10.00	10.01	10.0	+/- 0.1 SU	Yes / No	
Mid-Day pH (10) check	↓	22	10	9.91	—	+/- 0.1 SU	Yes / No	
ORP (mV)	22760085 8/23		278	277.7	278	+/- 20mV	Yes / No	
DO (%) (1pt, 100% water saturated air cal)	[redacted]		100	99.08	100	+/- 6 % saturation	Yes / No	
Turbidity 0 NTU	[redacted]		0	.53	0	+/- 0.5 NTU	Yes / No	
Turbidity 1 NTU	[redacted]		1	.56	.93	+/- 0.5 NTU	Yes / No	
Turbidity 10 NTU	[redacted]		10	10.35	10.1	+/- 0.5 NTU	Yes / No	

APPENDIX C

Injection Field Forms

Injection Point Nomenclature Legend

IP-##	Injection point (IP) (*as shown on Figure 2*)
IP-## (#)	Offset IP with the distance (in ft) offset from the original IP indicated within parentheses.
IP-##A	Magnesium oxide (MgO) IP
IP-##A (#)	Offset MgO IP with the indicated offset distance from the original IP indicated with parentheses.

Injection Log

Project Name: Plant Hammond AP- Corrective Measu **Date:** 09/25/2023 **Page** 1 **of** ___
Project Number: GN65S1G1 **Weather:** Sunny
Field Personnel: M. Sadhasivan **Activity:** DPT injection

Location: HG1 WC-8 Area **Start: Date** 09/25/20 **Time** 1415 **Finish: Date** ___ **Time** ___

Well ID	Start Time (hr:mm)	Stop Time (hr:mm)	Volume Injected (gal)	Injection Pressure (psi)	Flowrate (GPM)	Notes
IP-05 17-19ft	1415	1425	0	25psi	0.2	Couldn't inject water
19-21ft	1450			0	~8/1.2gpm	
19-21 ft	1500	1545	~240	1.6	4.8	Batch over. Potable water
19-21ft	1610			0.9	4,3	
19-21ft	1620	1706	~~total~~ ~492	1.0	4.4	Batch over.
09/26/2023.						
~~19-21ft~~ ms						
21-23 ft	0929	1003	~108	-1.9	3.4	Potable water
21-23ft	1003	1156	total ~500	1.5	4.3	
23-25ft	~~ms~~ 1206	1255	~250	3.2	5.2	
25-27ft	1303	1352	~~~~ ~250	0.6	5.3	
25-27	1400	1458	~250	1.2	5.5	
23-25	1500	1550	~250	2-9	5.9	
09/27/2023						
IP-08 19-21ft	1058	1130	~250	2.8	5.7	FeSO4 at 0.11 lbs per 1000 gal
19-21 ft	1130	1315	~~~~ ~600 ms	4.0	5.9	
21-23ft	1315	1540	~850	4.0	5.5	
23-25ft	1540	1715	~~~~ ms 500	3.9	6.4	
~~23-25~~ ms	09/28/2023			~~3.5ms~~	~~5.8ms~~	
23-25	0844	0950	350	3.5	5.8	
25-27	0950	1220	850	3.0	6.2	
IP-05 (2) 19-21	1300	1310	50	3.9	5.2	Stops injection due to
19-21	1341	1430	250	3.9	5.4	Rose un-threaded from
19-21	1430	1615	550	4.0	5.2	end cap
21-23	1615	1650	200	4.0	6.0	

Injection Log

Project Name: Plant Hammond AP1 Corrective Measures **Date:** 09/29/2023 **Page** 2 **of** ___

Project Number: CgW058169 **Weather:** Sunny

Field Personnel: M. Sadhasivam **Activity:** DPT Injection

Location: HGWC-8 area **Start: Date**_____ **Time**_____ **Finish: Date**_____ **Time**_____

Well ID	Start Time (hr:mm)	Stop Time (hr:mm)	Volume Injected (gal)	Injection Pressure (psi)	Flowrate (GPM)	Notes
09/29/2023						
IP-05(2) 21-23	0828	0913	250	3.6	5.6	
21-23	0913	0958	250	4	5.6	
21-23	0958	1025	150	4	5.6	
23-25	1025	1058	100	4	3	
23-25	1058	1419	750	4	4.2	
25-27	1419	1459	250	4	6.2	
25-27	1459	1541	250	4	6	
25-27	1541	1627	250	4	5.5	
25-27	1627	1645	100	4	5.6	
IP-07 09/30/2023						
19-21	0853	0957	250	4	3.9	
19-21	0957	1116	250	4	3.2	
19-21	1116	1239	250	4	3	
19-21	1239	1312	100	4	3	
21-23	1312	1334	150	4	6.8	
21-23	1334	1412	250	4	6.6	
21-23	1412	1450	250	4	6.6	
21-23	1450	1521	200	4	6.5	
23-25	1521	1533	50	4	4.1	
23-25	1533	1637	250	4	3.9	
10/01/2023						
IP-07 23-25	0745	0834	250	4	5.1	
23-25	0834	0919	250	4	5.6	
23-25	0919	0928	50	4	5.6	
25-27	0928	1002	200	4	5.9	

Injection Log

Project Name: Plant Hammond AP-1 corrective measures **Date:** 10/18/2023 **Page** 3 **of** ___

Project Number: GW65816 **Weather:** Sunny

Field Personnel: M. Sadhasivam **Activity:** DPT injection

Location: HGWC-8 area **Start: Date** ___ **Time** ___ **Finish: Date** ___ **Time** ___

Well ID 10/01/2023	Start Time (hr:mm)	Stop Time (hr:mm)	Volume Injected (gal)	Injection Pressure (psi)	Flowrate (GPM)	Notes
IP-07 25-27	1002	1046	250	4	5.7	
25-27	1046	1132	250	4	5.5	
25-27	1132	1158	150	4	5.8	
IP-06 19-21	1238	1257	100	4	5.3	
19-21	1257	1406	250	4	3.6	
19-21	1406	1526	250	4	3.1	
19-21	1526	1650	250	4	2.9	
10/02/2023						
FP-06 21-23	0750	0839	250	4	5.1	
21-23	0839	0925	250	4	5.5	
21-23	0925	1009	250	4	5.7	
21-23	1009	1028	100	4	5.3	
23-25	1028	1116	150	4	3.1	
23-25	1116	1210	250	4	4.6	
23-25	1210	1305	250	4	4.5	
23-25	1305	1350	200	4	4.5	
25-27	1350	1407	50	4	2.9	
25-27	1407	1520	250	4	3.4	
25-27	1520	1630	250	4	3.6	
25-27	1630	1645	50	4	3.3	
10/03/2023						
IP-06 25-27	0823	0925	250	4	3.2	

Injection Log

Project Name: Plant Hammond AP-1 corrective measures **Date:** 10/04/2023 **Page** 1 **of** ___
Project Number: ~~GWG 5816~~ **Weather:** Sunny
Field Personnel: M. Sadhasivan **Activity:** DPT injection.

Location: HGWC-13 area **Start: Date** 04 10/04/23 **Time** _____ **Finish: Date** _____ **Time** _____

Well ID	Start Time (hr:mm)	Stop Time (hr:mm)	Volume Injected (gal)	Injection Pressure (psi)	Flowrate (GPM)	Notes
IP-01(2)						
10/04/2023						
35-37ft	11:15	1400	238	11	1.4	
10/09/2023						
IP-01(3) 37-39	1339	1415	175	11	3.9	
~~39~~-41	1419	1453	175	10	4.5	
41-43	1520	1601	175	11	4.5	
43-45	1605	1633	55	11	1.5	
10/10/2023						
IP-04(2) 35-37	0911	0949	175	11	5.0	
37-39	0953	1028	175	11	5.0	
39-41	1033	1118	175	11	3.9	
41-43	1124	1515	175	11	0.8	
45-47	1526	1735	350	11	4.4	
10/11/2023						
IP-04(2) 47-49	0750	0914	350	11	5.0	
IP-03 33-35	1049	1143	175	11	3.4	
IP-03 33-35	1147	1310	175	11	~~2.1~~ 2.1	
IP-03 ~~35~~-37	1315	1424	350	7.0	5.0	
IP-03 ~~36.5-38.5~~	1442	1520	175	1.5	5.0	
IP-03 36.5-38.5	1520	1606	175	1.1	5.0	
IP-03(2) 41-43	1720	1754	175	1.2	5.0	
10/12/2023						
IP-03(2) 41-43	0800	0838	175	1.0	4.9	
IP-03(2) 43-45	0845	0956	350	3.5	5.0	

Injection Log

Project Name: Plant Hammond AP-1 Corrective Measures **Date:** 10/12/2023 **Page** 2 of ___
Project Number: GW6581G **Weather:** Cloudy
Field Personnel: M. Sadhasivan **Activity:** DPT Injection

Location: HGWC-13 area **Start: Date** 10/12/23 **Time** ___ **Finish: Date** ___ **Time** ___

	Well ID	Start Time (hr:mm)	Stop Time (hr:mm)	Volume Injected (gal)	Injection Pressure (psi)	Flowrate (GPM)	Notes
IP-03(2)	45-47	1003	1113	350	3.0	5.0	
IP-03(2)	47-49	1120	1232	350	2.2	5.0	
IP-02	35-37	1317	1439	350	11	5.0	
IP-02	37-39	1445	1602	350	11	5.0	
IP-02	39-41	1618	1733	50	11	0.6	
	10/13/2023						
IP-02	41-43	0855	0955	350	11	3.5	
IP-02	43-45	1045	1207	175	11	2.2	
IP-02	43-45	1207	1250	175	11	3.6	
IP-02	45-47	1302	1415	350	3.8	4.6	
IP-02	47-49 ms	1420	1537	350	4	4.7	
	46.5-48.5						
IP-01(4)	33-35	1630	1726	175	11	3.0	
	10/14/2023						
IP-01(4)	33-35	0847	0931	175	11	4.0	
IP-01(4)	35-37	0942	1107	350	11	4.2	
IP-01(4)	37-39	1114	1248	350	11	4.2	
IP-01(4)	39-41	1254	1415	350	11	5.0	
IP-01(4)	41-43	1420	1547	50	11	0.6	
IP-01(4)	47-49	1604	1720	350	10	5.0	
	10/15/2023						
IP-08A	19-21	1148	1351	310	4.0	2.6	Daylighting
IP-08A	19-21	1457	1657	425	4.0	3.5	

Injection Log

Project Name: Plant Hammond Corrective measures Date: 10/16/2023 Page 3 of ___
Project Number: GW65816 Weather: Partly cloudy
Field Personnel: M. Sadhasivan Activity: IEPT injection

Location: HG, WC - 3 area Start: Date 10/16/23 Time ___ Finish: Date ___ Time ___

Well ID	Start Time (hr:mm)	Stop Time (hr:mm)	Volume Injected (gal)	Injection Pressure (psi)	Flowrate (GPM)	Notes
IP-01AC	10/16/2023					
19-21	0741	0815	115	4.0	3.5	MgO
21-23	0815	0845	135	4.0	4.9	MgO
21-23	0845	0932	250	4.0	4.7	MgO
21-23	0932	1032	250	4.0	4.5	MgO
21-23	1032	1127	225	4.0	4.3	MgO
23-25	1127	1219	250	4.0	5.0	MgO
23-25	1219	1317	250	4.0	4.3	MgO
23-25	1317	1333	75	4.0	4.2	MgO
23-25	1524	1639	275	4.0	3.6	MgO + $FeSO_4$
25-27	1642	1732	265	3.9	4.9	$FeSO_4$
10/17/2023						
25-27	0739	0855	250	2.8	3.5	$FeSO_4$
25-27	0855	1014	250	2.5	3.0	$FeSO_4$
25-27	1014	1048	85	2.5	3.8	$FeSO_4$

Injectate Batch Preparation Log

Project Name: Plant Hammond AP-1 injections Page 1 of 1
Project Number: GW6581G Field Personnel: M. Sadhasivam
Date: 09/25/2023 Weather: Sunny

	Batch #	Tank Fill			FeSO4		Geochemical Parameters						Comments
		Start Time (hr:mm)	End Time (hr:mm)	Volume (gallons)	Time (hr:mm)	Amount (lb)	Time (hr:mm)	Temp (°C)	pH (SU)	Sp. Cond (µS/cm³)	DO (mg/L)	ORP (mV)	
09/25/23	Potable water	1100	1105	250	–	–	13:05	23.93	7.34	0.20	8.41	379.2	
09/25/23	Potable water	1550	1553	250	–	–	1555	25.01	7.66	0.19	7.86	562.0	
09/26/23	Potable water	0800	0820	500	–	–	0905	17.45	7.35	0.21	9.35	548.1	Batch 3 & 4
09/26/23	Potable water	1100	1115	500	–	–	1149	19.09	7.64	0.21	9.11	533.5	Batch 5 & 6
09/26/23	Potable water	1315	1330	500	–	–	1400	25.14	7.86	0.19	7.91	406.2	Batch 7 & 8
09/27/23	9	0945	0955	250	1015	0.0275	1020	19.94	8.61	0.65	8.61	122.5	IP-08 Batch 1 19-21
09/27/23	10	1115	1125	250	1125	0.0275	1130	20.51	8.52	0.83	8.52	81.2	IP-08 Batch 2 19-21
09/27/23	11	1150	1200	250	1200	0.0275	1208	20.02	8.25	0.66	8.71	545.7	IP-08 Batch 3 19-21
09/27/23	12	1245	1255	250	1256	0.0275	1258	19.82	8.27	0.48	8.75	621.4	IP-08 Batch 4 100 19- 150 21-
09/27/23	13	1340	1350	250	1350	0.0275	1351	19.80	8.24	0.44	8.98	543.6	IP-08 Batch 5 250 21-
09/27/23	16	1430	1440	250	1440	0.0275	1450	19.54	8.26	0.40	8.79	513.2	IP-08 Batch 6 250 21-
09/27/23	15	1540	1545	250	1545	0.0275	1551	18.96	8.31	0.42	8.94	200.4	IP-08 Batch 7 250 21-
09/27/23	16	1625	1630	250	1630	0.0275	1632	18.84	8.14	0.31	8.96	179.3	IP-08 Batch 8 250 23- → add 200
09/28/23	17	0820	0830	250	0830	0.0275	0841	17.88	7.42	0.22	9.02	146.3	IP-08 Batch 9 (23-25).
09/28/23	18	0925	0930	250	0930	0.0275	0935	18.11	7.55	0.22	8.98	79.9	IP-08 Batch 10
09/28/23	19	1000	1005	250	1005	0.0275	1011	18.58	7.63	0.22	8.94	72.5	IP-08 Batch 11
09/28/23	20	1045	1050	250	1050	0.0275	1054	18.59	7.66	0.22	9.20	122.6	IP-08 Batch 12
09/28/23	21	1135	1140	250	1140	0.0275	1146	19.13	7.71	0.22	9.17	136.9	IP-08 Batch 13
09/28/23	23	1420	1425	250	1425	0.0275	1430	20.73	7.93	0.21	8.34	108.9	EP-05(2) Batch 2 ←
09/28/23	22	1300	1305	250	1305	0.0275	1320	19.85	7.88	0.22	8.81	87.1	IP-05(2) Batch 1 ←
09/28/23	24	1500	1505	250	1505	0.0275	1520	21.06	7.93	0.21	8.56	125.0	IP-05(2) Batch 3
09/28/23	25	1550	1555	250	1601	0.0275	1621	23.67	7.85	0.21	7.87	123.9	IP-05(2) Batch 4
09/29/23	26	0815	0820	250	0820	0.0275	0827	17.84	7.19	0.22	8.93	123.7	IP-05(2) Batch 5

Injectate Batch Preparation Log

Project Name: Plant Hammond AP-1 injection Page 2 of ___
Project Number: GW658167 Field Personnel: M. Sadhasivan
Date: 09/29/2023 Weather Sunny

Date	Batch #	Tank Fill			FeSO4		Geochemical Parameters						Comments
		Start Time (hr:mm)	End Time (hr:mm)	Volume (gallons)	Time (hr:mm)	Amount (lb)	Time (hr:mm)	Temp (°C)	pH (SU)	Sp. Cond (µs/cm³)	DO (mg/L)	ORP (mV)	
09/24/23	27	0900	0905	250	0905	0.0275	0910	18.69	7.56	0.22	8.68	83.1	
09/29/23	28	0950	0955	250	0955	0.0275	1000	18.90	7.64	0.21	8.73	64.4	
09/29/23	29	1055	1100	250	1100	0.0275	1102	19.82	7.70	0.22	8.86	145.7	
09/29/23	30	1155	1158	250	1158	0.0275	1201	19.97	7.76	0.22	8.74	123.1	
09/29/23	31	1300	1305	250	1305	0.0275	1306	25.54	7.68	0.20	7.48	68.8	
09/29/23	32	1415	1420	250	1420	0.0275	1425	24.68	7.88	0.21	7.98	126.7	
09/29/23	33	1450	1500	250	1500	0.0275	1502	22.61	7.96	0.22	8.61	68.4	
09/29/23	34	1535	1540	250	1540	0.0275	1545	23.14	7.94	0.21	8.42	96.5	
09/29/23	35	1622	1625	100	1625	0.011	1629	23.41	7.65	0.22	8.71	61.2	
09/30/23	36	0835	0840	250	0840 0837 ms	0.0275	0842	17.38	7.47	0.22	9.00	96.2	
09/30/23	37	0750 1000	1000	250	1000	0.0275	1003	19.14	7.49	0.22	8.79	85.2	
09/30/23	38	1115 ms	1117	250	1117	0.0275	1119	24.31	7.51	0.20	7.11	105.8	
09/30/23	39	1237	1240	250	1240	0.0275	1242	23.16	7.48	0.21	8.61	97.6	
09/30/23	40	1335	1337	250	1337	0.0275	1341	25.43	7.63	0.18	6.14	104.5	
09/30/23	41	1414	1417	250	1417	0.0275	1420	24.76	7.54	0.21	7.21	103.2	
09/30/23	42	1448	1452	250	1452	0.0275	1454	23.34	7.86	0.21	8.08	143.2	
09/30/23	43	1533	1536	250	1536	0.0275	1540	23.41	7.68	0.22	8.16	121.3	
09/30/23													
10/01/23	44	0730	0735	250	0735	0.0275	0755	17.41	7.36	0.22	9.10	141.7	
10/01/23	45	0834	0836	250	0836	0.0275	0840	16.16	7.66	0.22	10.01	94.9	
10/01/23	46	0919	0922	250	0922	0.0275	0925	18.21	7.85	0.21	9.86	121.1	
10/01/23	47	1003	1005	250	1005	0.0275	1007	19.58	7.59	0.21	9.69	146.9	
10/01/23	48	1046	1048	250	1048	0.0275	1050	22.16	7.64	0.22	8.42	139.6	
10/01/23	49	1131	1134	250	1134	0.0275	1138	24.59	7.49	0.21	7.75	152.4	
	50	1230	1255	250	1255	0.0275	1301	24.10	7.70	0.20	7.76	151.6	

Injectate Batch Preparation Log

Project Name: Plant Hammond AR1 injections Page 3 of ___
Project Number: GW65816G Field Personnel: M. Sadhasivan
Date: 10/01/23 Weather Sunny

	Batch #	Tank Fill			FeSO4		Geochemical Parameters						Comments
		Start Time (hr:mm)	End Time (hr:mm)	Volume (gallons)	Time (hr:mm)	Amount (lb)	Time (hr:mm)	Temp (°C)	pH (SU)	Sp. Cond (µS/cm³)	DO (mg/L)	ORP (mV)	
10/01/23	51	1400	1405	250	1405	0.0275	1410	21.68	7.94	0.21	8.26	131.2	
10/01/23	52	1526	1529	250	1529	0.0275	1533	22.41	7.86	0.22	8.14	161.9	
	~~53 MS~~												
10/02/23	53	0740	0745	250	0745	0.0275	0800	17.25	7.46	0.22	8.73	132.4	
10/02/23	54	0830	0835	250	0835	0.0275	0850	18.09	7.61	0.22	8.85	147.5	
10/02/23	55	0924	0926	250	0926	0.0275	0930	19.69	7.32	0.21	9.68	125.5	
10/02/23	56	1010	1013	250	1013	0.0275	1015	22.90	7.67	0.20	7.87	116.3	
10/02/23	57	1115	1118	250	1118	0.0275	1121	23.41	7.81	0.21	9.61	126.9	
10/02/23	58	1202	1204	250	1204	0.0275	1208	21.98	7.78	0.21	8.29	133.4	
10/02/23	59	1304	1306	250	1306	0.0275	1310	23.61	7.86	0.22	9.58	146.7	
10/02/23	60	1403	1406	250	1406	0.0275	1410	23.78	7.55	0.22	8.16	155.5	
10/02/23	61	1515	1518	250	1518	0.0275	1525	23.42	7.48	0.22	9.66	104.6	
10/02/23	62	1625	1629	50	1629	0.0055	1632	23.62	7.66	0.21	9.11	122.3	
10/03/23	63	0755	0800	250	0800	0.0275	0800	16.64	7.64	0.22	9.44	158.8	
10/04/23	~~Blank~~ water	0800	0805	250	-	-	0805	17.61	7.81	0.21	8.62	404.5	

Injectate Batch Preparation Log

Project Name: Plant Hammond AP-1 injections Page 1 of ___
Project Number: GW6581G Field Personnel: M. Sadhasivan
Date: 10/09/2023 Weather: Sunny

	Batch #	Tank Fill			FeSO4		Geochemical Parameters						Comments
		Start Time (hr:mm)	End Time (hr:mm)	Volume (gallons)	Time (hr:mm)	Amount (lb)	Time (hr:mm)	Temp (°C)	pH (SU)	Sp. Cond (µs/cm³)	DO (mg/L)	ORP (mV)	
10/09/2023	Potable	1250	1255	175	-	-	1305	15.21	7.31	0.21	8.61	303.6	
10/09/2023	Potable	1405	1407	175	-	-	1410	16.98	7.24	0.22	8.42	296.4	
10/09/2023	Potable	1510	1515	175	-	-	1520	18.26	7.16	0.21	7.96	288.7	
10/10/23	Potable	1601	1604	175	-	-	1600	19.31	7.21	0.21	8.14	404.4	
10/10/23	#1 IP-01(2)	0902	0906	175	0906	0.0292	0908	13.61	7.48	0.19	8.63	80.2	
10/10/23	#2	0945	0948	175	0948	0.0292	0950	16.82	7.51	0.20	8.96	121.6	
10/10/23	#3	1028	1031	175	1031	0.0292	1033	18.44	7.46	0.20	8.56	196.8	
10/10/23	#4	1118	1121	175	1121	0.0292	1130	19.68	7.49	0.20	8.43	123.6	
10/10/23	#5	1521	1524	175	1524	0.0292	1530	22.61	7.32	0.21	8.96	186.4	
10/10/23	#6	1652	1654	175	1654	0.0292	1655	23.78	7.48	0.22	8.12	141.3	
10/11/23	#7	0759	0802	175	0802	0.0292	0804	16.41	7.39	0.20	8.21	128.6	
10/11/23	#8	0835	0835	175	0835	0.0292	0837	17.68	7.56	0.20	7.96	153.6	
	IP-03												
10/11/23	#1	1044	1047	175	1047	0.0292	1051	18.71	7.44	0.20	8.33	129.6	
10/11/23	#2	1140	1145	175	1145	0.0292	1154	18.92	7.51	0.21	8.54	134.7	
10/11/23	#3	1310	1313	175	1313	0.0292	1317	19.01	7.53	0.20	7.96	102.9	
10/11/23	#4	1347	~~1349~~ 1440	175	~~1349~~ 1440	0.0292	1352	19.34	7.46	0.22	8.71	111.3	
10/11/23	#5	1437	~~1439~~ 1440	175	~~1440~~ 1440	0.0292	1445	19.51	7.37	0.19	7.88	127.4	
10/11/23	#6	1525	1530	175	1530	0.0292	1535	19.88	7.49	0.20	8.54	107.8	
10/11/23	#7	1710	1715	175	1715	0.0292	1720	20.71	7.50	0.21	8.31	143.6	
10/12/23	#8	0755	0757	175	0757	0.0292	0800	16.78	7.56	0.22	8.62	122.7	
10/12/23	#9	~~0838~~	0841	175	0841	0.0292	0843	16.96	7.48	0.21	7.99	135.4	
10/12/23	#10	0919	0921	175	0921	0.0292	0924	17.21	7.42	0.22	8.04	101.6	
10/12/23	#11	1000	1002	175	1002	0.0292	1005	17.48	7.49	0.20	8.36	86.9	

Injectate Batch Preparation Log

Project Name: Plant Hammond AP-1 Injection Page 2 of ___
Project Number: GW65816 Field Personnel: M. Sadhasivan
Date: 10/12/2023 Weather

	Batch #	Tank Fill			FeSO4		Geochemical Parameters						Comments
		Start Time (hr:mm)	End Time (hr:mm)	Volume (gallons)	Time (hr:mm)	Amount (lb)	Time (hr:mm)	Temp (°C)	pH (SU)	Sp. Cond (µs/cm³)	DO (mg/L)	ORP (mV)	
10/12/2023	#12	1033	1036	175	1036	0.0292	1038	18.26	7.48	0.20	8.65	86.7	
10/12/2023	#13	1116	1118	175	1118	0.0292	1120	18.91	7.66	0.21	7.98	103.4	
10/12/2023	#14	1153	1155	175	1155	0.0292	1200	18.74	7.50	0.20	8.32	99.8	
	IP-02										*		
10/12/2023	#1	1311	1314	175	1314	0.0292	1318	18.38	7.52	0.21	8.04	121.8	
10/12/2023	#2	1354	1357	175	1357	0.0292	1400	19.21	7.39	0.21	8.96	116.7	
10/12/2023	#3	1443	1445	175	1448	0.0292	1448	19.74	7.54	0.21	7.44	125.5	
10/12/2023	#4	1519	1521	175	1521	0.0292	1525	19.62	7.49	0.21	9.31	136.9	
10/12/2023	#5	1604	1606	175	1606	0.0292	1615	20.17	7.68	0.22	8.76	120.4	
10/13/2023	#6	0850	0854	250	0854	0.041	0900	16.24	7.42	0.19	7.21	103.6	
10/13/2023	#7	1040	1044	175	1044	0.0292	1047	17.18	7.55	0.20	8.62	139.4	
10/13/2023	#8	1203	1206	175	1206	0.0292	1210	17.63	7.39	0.20	9.38	146.8	
10/13/2023	#9	1258	1300	175	1300	0.0292	1304	18.04	7.44	0.22	9.16	121.1	
10/13/2023	#10	1327	1330	175	1330	0.0292	1335	18.96	7.46	0.20	7.24	111.7	
10/13/2023	#11	1415	1418	175	1418	0.0292	1424	19.42	7.52	0.19	8.96	102.9	
10/13/2023	#12	1454	1458	175	1458	0.0292	1502	19.31	7.38	0.18	8.54	136.4	
	IP-01(4)												
10/13/2023	#1 [illegible]	1625	1629	175	1629	0.0292	1632	18.98	7.51	0.19	8.66	124.5	
10/14/2023	#2	0750	0755	175	0755	0.0292	0800	16.81	7.44	0.20	7.84	125.6	
10/14/2023	#3 [illegible]	0940	0943	175	0943	0.0292	0947	17.28	7.38	0.20	7.71	133.6	
10/14/2023	#4	1024	1027	175	1027	0.0292	1030	17.96	7.52	0.22	8.89	139.8	
10/14/2023	#5 [illegible]	1110	1112	175	1112	0.0292	1115	18.54	7.56	0.19	7.42	146.7	
10/14/2023	#6	1203	1205	175	1205	0.0292	1210	19.61	7.49	0.21	8.36	140.4	
10/14/2023	#7 [illegible]	1258	1253	175	1253	0.0292	1300	20.21	7.50	0.20	8.41	127.9	
10/14/2023	#8	1330	1333	175	1333	0.0292	1335	20.78	7.36	0.19	8.44	119.6	

Injectate Batch Preparation Log

Project Name: Plant Hammond AP-1 injection Page 3 of ___
Project Number: GW65816 Field Personnel: M Sadhasivan
Date: 10/14/2023 Weather Partly Cloudy

	Batch #	Tank Fill			FeSO4		Geochemical Parameters						Comments
		Start Time (hr:mm)	End Time (hr:mm)	Volume (gallons)	Time (hr:mm)	Amount (lb)	Time (hr:mm)	Temp (°C)	pH (SU)	Sp. Cond (µs/cm³)	DO (mg/L)	ORP (mV)	
10/14/2023	#9	1415	1420	175	1420	0.0292	1422	21.21	7.49	0.20	8.61	121.4	
10/14/2023	#10	1620	1625	260	1625	0.0433	1627	21.76	7.64	0.19	8.92	123.6	
	IP-08A												
10/15/2023	#1	1140	1145	250	1145	0.0275	1150	18.69	7.69	0.20	8.94	128.3	
10/15/2023	#2	1315	1320	250	1320	0.0275	1330	18.98	7.54	0.21	8.18	102.6	
10/15/2023	#3	1540	1545	250	1545	0.0275	1550	19.62	7.55	0.21	8.26	101.4	MgO injectate
10/16/2023	#6	0735	0740	250	0740	0.0275	0744	16.41	7.68	0.19	8.45	124.6	MgO
10/16/2023	#5	0840	0845	250	0845	0.0275	0849	16.72	7.74	0.20	8.94	131.6	MgO
10/16/2023	#6	0929	0932	250	0932	0.0275	0936	17.21	7.45	0.20	8.31	135.4	MgO
10/16/2023	#7	1025	1030	215	1030	0.0275	1034	18.61	7.96	0.20	8.04	146.7	MgO
10/16/2023	#8	1124	1127	250	1127	0.0275	1130	17.96	7.88	0.21	7.96	144.8	MgO
10/16/2023	#9	1215	1220	250	1220	0.0275	1225	17.42	7.85	0.20	7.45	148.6	MgO
10/16/2023	#10	1310	1315	250	1315	0.0275	1320	16.98	7.96	0.21	7.98	123.7	MgO
10/16/2023	#10a	1519	1520	125+175	1520	0.0275	1522	19.34	7.64	0.20	7.89	156.9	175 gallons with MgO+ 125 gallons with FeSO4
10/16/2023	#11	1637	1640	250	1640	0.0275	1645	18.71	7.58	0.19	8.24	144.4	
10/17/2023	#12	0735	0737	250	0737	0.0275	0750	16.71	7.44	0.22	8.55	133.9	
10/17/2023	#13	0850	0854	250	0854	0.0275	0858	16.85	7.48	0.21	9.68	139.3	
10/17/2023	#14	1010	1015	85	1015	0.00935	1020	17.96	7.36	0.21	8.41	122.5	

2024 Pilot Study Post-Injection Event Report, Plant Hammond Ash Pond 1

Prepared for

Georgia Power Company
241 Ralph McGill Blvd NE
Atlanta, Georgia 30308

PILOT STUDY POST-INJECTION EVENT REPORT

PILOT TEST NO. UPT000068
PLANT HAMMOND ASH POND 1 (AP-1)

Prepared by

1255 Roberts Boulevard, Suite 200
Kennesaw, Georgia 30144

Project Number GW6581G

August 2024

Geosyntec
consultants

CERTIFICATION STATEMENT

I hereby certify that this *Pilot Study Post-Injection Event Report* was prepared by, or under the direct supervision of, a Qualified Groundwater Scientist, in accordance with the Georgia Environmental Protection Division Rules of Solid Waste Management. According to 391-3-4-.01, a Qualified Groundwater Scientist is "a professional engineer or geologist registered to practice in Georgia who has received a baccalaureate or post-graduate degree in the natural sciences or engineering and has sufficient training and experience in groundwater hydrology and related fields that enable individuals to make sound professional judgments regarding groundwater monitoring, contaminant fate and transport, and corrective action." The design presented within this workplan was developed in compliance with the Georgia Rules of Solid Waste Management, Chapter 391-3-4.10.

Whitney B. Law
Georgia Professional Engineer No. 36641

August 23, 2024
Date

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LIST OF ACRONYMS

AP-1	Ash Pond 1
CCR	coal combustion residual
CFR	Code of Federal Regulations
DO	dissolved oxygen
$FeSO_4$	ferrous sulfate
g/L	grams per liter
gal	gallons
gpd	gallons per day
gpm	gallons per minute
GA EPD	Georgia Environmental Protection Division
Georgia Power	Georgia Power Company
Geosyntec	Geosyntec Consultants, Inc.
GWPS	Groundwater Protection Standard
MNA	monitored natural attenuation
ORP	oxidation-reduction potential
Pathfinder	Pathfinder Automated Injection System
psi	pounds per square inch
ROI	radius of influence
SSL	statistically significant level
SCFM	standard cubic feet per minute
UIC	Underground Injection Control
US EPA	United States Environmental Protection Agency

1. BACKGROUND AND OBJECTIVES

This *Pilot Study Post-Injection Event Report* (Report) was developed by Geosyntec Consultants, Inc. (Geosyntec) on behalf of Georgia Power Company (Georgia Power) for submittal to the Georgia Environmental Protection Division (GA EPD). In-situ geochemical injections, coupled with monitored natural attenuation (MNA), have been proposed as corrective measures to address concentrations of molybdenum (Mo) and arsenic (As) reported at statistically significant levels (SSLs) above Groundwater Protection Standards (GWPS) in detection monitoring wells HGWC-8 and HGWC-13[1], respectively, at Georgia Power Plant Hammond Ash Pond 1 (AP-1; Site).

Design of in-situ geochemical injection corrective measures includes multiple assessment and design components, including pilot studies to evaluate injection delivery and the performance of injectates prior to implementing a full scale remedy. These pilot tests will collect data that will be used to evaluate:

1. Radius of influence (ROI) of the injected amendment to evaluate future injection point spacing requirements;

2. Sustainable injection pressure and flowrate; and

3. Injectate dosing and efficacy of treating As and Mo in groundwater to below the GWPS.

This Report summarizes pilot study field activities completed in April through July 2024. These field activities were conducted in accordance with the *HGWC-8 Supplemental Pilot Study Workplan* and the *HGWC-13 Supplemental Pilot Study Workplan*[2] (collectively referred to herein as "Workplans"; GEOS Submittal ID: 830620) (Geosyntec, 2024b, 2024c) and the Underground Injection Control (UIC) Pilot Test Notification Form approved by GA EPD's UIC and Solid Waste Management Programs on May 6 and June 21, 2024, respectively.

1.1 Site Background

Plant Hammond, shown on **Figure 1**, is located in Floyd County, approximately 10 miles west of Rome, Georgia. Plant Hammond was a four-unit, coal-fired electric generating

[1] The Mo and As GWPS are 0.1 and 0.01 mg/L, respectively.
[2] These Workplans are in accordance with the GA EPD approved *HGWC-8 Pilot Study Workplan* and *HGWC-13 Pilot Study Workplan* (Geosyntec, 2023b; 2023c).

facility and was retired on July 29, 2019. The physical address of the plant is 5963 Alabama Highway, Rome, Georgia, 30165.

AP-1 is one of four coal combustion residual (CCR) ponds utilized over the course of power generation at Plant Hammond. AP-1 is a 35-acre surface impoundment located near the center of Plant Hammond and was used primarily as a dewatering facility for fly ash and bottom ash. AP-1 closure activities, consisting of closure by removal, have been initiated under GA EPD's approved closure permit No. 057-023D(CCR).

As documented in the *Draft Remedy Selection Report* (Geosyntec, 2022), CCR groundwater monitoring-related activities are performed at AP-1 in accordance with the United States Environmental Protection Agency (US EPA) CCR Rule (federal CCR Rule) (40 Code of Federal Regulations [CFR] 257 Subpart D). The locations of AP-1 detection monitoring wells, assessment monitoring wells, and piezometers are shown on **Figure 2**.

A Mo SSL was identified at detection well HGWC-8 along the eastern boundary of AP-1 and an As SSL was identified at detection monitoring well HGWC-13 along the southwest boundary of AP-1 (**Figure 2**) as part of the assessment monitoring program. These SSLs have been horizontally and vertically delineated to levels below the GWPS (Geosyntec, 2022).

2. WELL INSTALLATION

Three injection wells (INW-03 through INW-05), four air sparge wells (AS-01 through AS-04), and five performance monitoring wells (PT-11 through PT-15) were installed in in April and May 2024 in accordance with the Workplans[3]. Well locations are shown on **Figure 2** and well construction details are provided in **Table 1**. A copy of the *Well Design, Installation, and Development Report – Addendum No. 6* detailing the design, installation, and development of these wells is included in **Appendix A**.

[3] Well construction details were adjusted in the field based on lithological observations during installation.

3. BASELINE CHARACTERIZATION

Groundwater samples were collected from performance monitoring wells to establish pre-injection baseline conditions.

Groundwater samples and water quality field parameters (i.e., pH, conductivity, dissolved oxygen [DO], temperature, and oxidation-reduction potential [ORP]) were collected using low-flow sampling procedures in accordance with the current AP-1 *Groundwater Monitoring Plan* (Geosyntec, 2023a) and the Workplans. Groundwater samples were placed in ice-packed coolers and submitted to Pace Analytical Services, LLC (Pace Analytical) in Peachtree Corners, Georgia, following chain-of-custody protocol. Samples were analyzed for Appendix III and IV constituents, select geochemical parameters, and metals in accordance with the Workplans to support evaluation of injectate efficacy. The results for the May 2024 sampling events are presented in **Table 2**. The analytical laboratory results and field sampling and equipment calibration forms are provided in **Appendix B**.

4. INJECTION ACTIVITIES

Injection activities were performed July 9 – 31, 2024. Staging and mixing areas were established prior to injection, in accordance with the approved Workplans. Three-hundred-gallon (gal) cone bottom mixing tanks were set up within a secondary containment, with spill kits maintained on-site to manage any spills. Injectate consisted of Thermo Fisher Scientific, Inc. ferrous sulfate ($FeSO_4$) heptahydrate mixed with potable water obtained from an on-site fire hydrant designated in the Workplans.

Pre-determined quantities of $FeSO_4$ were measured on a digital scale and combined with potable water in mix tanks. The injectate was mixed using a recirculation pump prior to injection in accordance with the Workplans. Injectate batches consisted of 0.5 – 1.0 grams per liter (g/L) $FeSO_4$ heptahydrate, which is below the maximum allowable injectate concentration of 2 g/L $FeSO_4$ heptahydrate set forth in the Workplans.

Injection pressures, flowrates, and water levels in performance monitoring wells were measured throughout injection activities, and the daily maximum injection volume across pilot study areas was below maximum daily values included in the Pilot Test Notification Form (3,500 gal per day [gpd]). Injection volumes and compositions are summarized in **Table 3.** Field forms are included in **Appendix C**.

In addition to the injection of $FeSO_4$ heptahydrate, air sparging activities were performed in the HGWC-13 Injection Area (Southwest Area). Air sparging flow rates and pressures were monitored throughout the sparging activities and were below the values included in the Pilot Test Notification Form (25 standard cubic feet per minute [SCFM] and 15 pounds per square inch [psi]). Air sparging flowrates and durations are summarized in **Table 4**.

Screening level groundwater grab samples were collected and analyzed for select total and dissolved[4] metals during injection activities to evaluate ongoing injection performance while in the field. Screening-level groundwater analytical results are summarized in **Table 5** and the associated analytical laboratory reports are included in **Appendix D.** Visual turbidity, resulting from concurrent injection and air sparge activities, was observed during sampling. As such, both total metals and filtered samples were collected for comparison.

[4] Dissolved samples were filtered in the field.

4.1 HGWC-8 Injection Area (East Area)

Injections at INW-03 (shown on **Figure 2**) were primarily completed using the Pathfinder Automated Injection System (Pathfinder). All observed injection flowrates and pressures were below the Pilot Test Notification Form maximum allowable values[5]. Approximately 3,317 gal of injectate was injected over three days, with a daily maximum injected volume of 1,211 gal.

4.2 HGWC-13 Injection Area (Southwest Area)

Injections at INW-04 and INW-05 (shown on **Figure 2)** utilized two different methods. Injections were initially gravity fed by connecting injectate mix tanks located at ground surface and three feet above ground surface next to injection wellheads. Maximum observed flow rates and pressures during gravity fed injections were below Workplan maximums and were approximately 1 gal per minute (gpm) and 2.5 psi, respectively.

Subsequent injections utilized the Pathfinder system. The maximum observed flowrate and pressure was 5 gpm and 11 psi, respectively, while using the Pathfinder system. Approximately 9,709 gal of injectate was injected at INW-04 and INW-05 over 9 days, with a daily maximum of 1,805 gal injected.

[5] 15 gpm and 4 psi, respectively.

5. PILOT STUDY PERFORMANCE MONITORING AND REPORTING

In accordance with the Workplans, groundwater quality data from each performance monitoring event will be compared against the Mo and As GWPS and the results of the baseline characterization to evaluate the efficacy geochemical injections. In addition, Appendix IV monitoring parameters[6] will be analyzed and monitored over the duration of the pilot study to evaluate potential localized mobilization of other Appendix IV parameters following injections.

Pilot study results will be reported to GA EPD Solid Waste Management Program as part of semiannual groundwater monitoring and corrective action reporting. Links to these reports will be emailed to the GA EPD Wastewater Regulatory Program. A comprehensive technical memorandum will be prepared at the conclusion of the pilot study.

[6] Excluding radium.

6. REFERENCES

Geosyntec, 2022. *Draft Remedy Selection Report, Georgia Power Company, Plant Hammond Ash Pond 1 (AP-1).* August 2022.

Geosyntec, 2023a. *Groundwater Monitoring Plan – Plant Hammond Ash Pond 1 (AP-1)*. July 2023, revision 2.

Geosyntec, 2023b. *HGWC-8 Pilot Study Workplan, Plant Hammond Ash Pond 1 (AP-1).* August 2023.

Geosyntec, 2023c. *HGWC-13 Pilot Study Workplan, Plant Hammond Ash Pond 1 (AP-1).* August 2023.

Geosyntec, 2024a. *HGWC-8 Supplemental Pilot Study Workplan, Plant Hammond Ash Pond 1 (AP-1).* August 2023.

Geosyntec, 2024b. *HGWC-13 Supplemental Pilot Study Workplan, Plant Hammond Ash Pond 1 (AP-1).* August 2023.

TABLES

Table 1
Summary of Well Construction Details
Plant Hammond AP-1, Floyd County, Georgia

Pilot Study Area	Well ID	Well Completion	Installation Date	Northing [1]	Easting [1]	Ground Surface Elevation [1] (ft)	Top of Casing Elevation [1] (ft)	Top of Screen Elevation (ft)	Bottom of Screen Elevation (ft)	Well Depth (ft bgs) [2]
HGWC-13 (Southwest Area)	***Temporary Sparge Wells***									
	AS-03	Flush Mount	4/28/2024	1548670.10	1940933.87	591.98	591.60	545.98	543.98	48.30
	AS-04	Flush Mount	4/28/2024	1548680.80	1940930.83	591.97	591.50	544.97	542.97	49.30
	Injection Wells									
	INW-04	Flush Mount	4/28/2024	1548671.73	1940929.98	592.01	591.58	557.01	547.01	45.30
	INW-05	Flush Mount	4/28/2024	1548680.07	1940935.89	591.81	591.31	556.81	546.81	45.30
	Performance Monitoring Wells									
	PT-07[3]	Flush Mount	6/3/2023	1548675.24	1940933.39	592.00	591.75	554.40	544.30	48.00
	PT-08[3]	Flush Mount	6/3/2023	1548666.82	1940929.58	592.10	591.83	560.20	550.20	42.20
	PT-13	Flush Mount	4/28/2024	1548676.04	1940939.23	591.88	591.47	556.88	546.88	45.30
	PT-14	Flush Mount	4/28/2024	1548673.63	1940926.52	592.06	591.62	557.06	547.06	45.30
	PT-15	Flush Mount	4/28/2024	1548668.35	1940937.45	591.90	591.37	556.90	546.90	45.30
HGWC-8 (East Area)	***Temporary Sparge Wells***									
	AS-01	Flush Mount	5/7/2024	1549048.28	1942388.06	577.46	577.08	548.46	546.46	31.30
	AS-02	Flush Mount	5/6/2024	1549049.08	1942400.03	577.14	576.72	547.14	545.14	32.30
	Injection Well									
	INW-03	Flush Mount	5/6/2024	1549052.75	1942388.28	577.38	577.07	560.28	550.28	27.40
	Performance Monitoring Wells									
	PT-09[3]	Protective Riser	6/1/2023	1549049.74	1942393.11	577.33	580.35	560.18	550.18	27.45
	PT-10[3]	Protective Riser	6/1/2023	1549040.34	1942413.88	577.39	580.44	560.29	550.29	27.40
	PT-11	Flush Mount	5/7/2024	1549055.61	1942390.89	577.35	576.96	560.75	550.75	26.90
	PT-12	Flush Mount	5/7/2024	1549045.43	1942391.10	577.34	576.84	560.34	550.34	27.30

Notes:
ft = feet.
ft bgs = feet below ground surface.
(1) Coordinates in North American Datum (NAD) 1983, State Plane, Georgia-West, feet. Elevations referenced to the North American Vertical Datum of 1988 (NAVD88).
Survey data from wells installed in 2024 was certified by GEL Solutions (GEL) July 1, 2024. Survey data from wells installed in 2023 certified by GEL on July 17, 2023, and August 30, 2023.
(2) Total well depth accounts for 0.3 ft sump.
(3) Well was previously constructed in accordance with the HGWC-8 and HGWC-13 Pilot Study Workplans.

Table 2
Summary of Baseline Groundwater Analytical Data
Plant Hammond AP-1, Floyd County, Georgia

	Pilot Study Area:	HGWC-13 (Southwest Area)													
	Well ID:	INW-04	INW-04	INW-05	INW-05	PT-07	PT-07	PT-08	PT-08	PT-13	PT-13	PT-14	PT-14	PT-15	PT-15
	Sample Date:	5/2/2024	5/15/2024	5/2/2024	5/15/2024	5/9/2024	5/16/2024	5/2/2024	5/16/2024	5/9/2024	5/15/2024	5/2/2024	5/15/2024	5/2/2024	5/15/2024
	Parameter [1,2,3]														
APPENDIX III	Boron	0.61	0.59	0.54	0.51	0.55	0.50	0.75	0.73	0.54	0.52	0.51	0.51	0.75	0.76
	Calcium	110	107	108	101	98.0	96.0	141	89.4	94.4	99.2	101	97.4	141	141
	Chloride	8.0	9.9	6.0	6.9	9.2	10	11.8	16.7	9.0	9.5	7.9	10.5	11.8	12.6
	Fluoride	0.47	0.28	0.59	0.37	0.33	0.31	0.55	0.19	0.35	0.34	0.43	0.26	0.55	0.35
	pH	6.78	6.84	6.87	7.01	6.86	6.98	6.53	6.49	6.84	6.93	6.83	6.78	6.95	7.01
	Sulfate	180	187	206	181	177	171	176	159	195	190	169	175	278	271
	TDS	482	483	526	456	463	450	477	410	472	459	462	461	638	639
APPENDIX IV	Antimony	< 0.00054	< 0.00054	0.00098 J	< 0.00054	0.00059 J	< 0.00054	< 0.00054	< 0.00054	< 0.00054	< 0.00054	< 0.00054	< 0.00054	< 0.00054	< 0.00054
	Arsenic	0.21	0.19	0.24	0.23	0.30	0.27	0.26	0.23	0.30	0.29	0.22	0.21	0.41	0.39
	Barium	0.042	0.043	0.032	0.033	0.037	0.034	0.045	0.041	0.036	0.033	0.037	0.038	0.044	0.043
	Beryllium	< 0.000094	< 0.000094	0.000099 J	0.00012 J	0.00010 J	< 0.000094	< 0.000094	< 0.000094	< 0.000094	< 0.000094	< 0.000094	0.00016 J	< 0.000094	< 0.000094
	Cadmium	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010
	Chromium	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019
	Cobalt	0.029	0.031	0.028	0.026	0.041	0.052	0.054	0.046	0.026	0.024	0.021	0.020	0.052	0.059
	Fluoride	0.47	0.28	0.59	0.37	0.33	0.31	0.36	0.19	0.35	0.34	0.43	0.26	0.55	0.35
	Lead	< 0.0016	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016	0.0079	< 0.00016	< 0.00016	< 0.00016	0.00046 J	< 0.00016	< 0.00016
	Lithium	0.048	0.043	0.060	0.057	0.064	0.056	0.016 J	0.010 J	0.061	0.058	0.055	0.051	0.051	0.047
	Mercury	< 0.00013	< 0.00013	< 0.00013	< 0.00013	12.5	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013
	Molybdenum	0.016	0.015	0.0094 J	0.0096 J	0.010	0.0093 J	0.017	0.017	0.0095 J	0.0087 J	0.011	0.011	0.017	0.021
	Selenium	0.0050 U	< 0.00096	0.0050 U	< 0.00096	< 0.00096	< 0.00096	0.0050 U	< 0.00096	< 0.00096	< 0.00096	0.0050 U	< 0.00096	< 0.00096	< 0.00096
	Thallium	0.00048 J	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038
INORGANICS	Alkalinity (Bicarbonate) as $CaCO_3$	128	133	109	123	117	116	108	104	106	111	121	121	124	134
	Alkalinity (Carbonate) as $CaCO_3$	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
	Alkalinity (Total) as $CaCO_3$	128	133	109	123	117	116	108	104	106	111	121	121	124	134
	Sodium	6.9	7.0	6.5	6.7	6.8	7.0	7.2	7.2	< 0.00096	7.8	6.7	6.7	6.8	8.1
	Sulfide	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.00038	< 0.022	< 0.022	< 0.022	278	< 0.022
METALS	Iron	10.3	8.4	17.3	16.9	16.9	15.7	8.5	8.0	15.5	15.0	13.7	14.9	9.7	9.2
	Magnesium	13.5	13.1	12.6	11.8	12.5	12.1	12.0	11.5	11.4	12.0	12.7	12.7	15.6	16.1
	Manganese	4.2	4.4	3.6	3.3	3.2	3.4	3.9	3.3	3.5	3.6	3.1	3.1	5.6	5.7
	Potassium	5.4	4.8	5.2	4.7	5.6	4.9	5.3	4.8	5.0	5.0	5.4	5.0	5.2	5.3
FIELD	Dissolved Oxygen	0.72	0.48	0.06	0.36	0.37	2.33	1.01	0.51	0.16	1.10	0.05	0.05	-0.03	0.10
	Oxidation-Reduction Potential (mV)	-96.1	-97.4	-120.9	-124.3	-100.6	-91.9	154.4	-29.0	-104.0	-98.3	-116.5	-110.0	93.8	-118.3
	Temperature (°C)	20.57	19.86	18.17	19.19	20.53	19.39	21.27	19.16	20.75	18.64	19.09	18.75	21.71	20.45
	Specific Conductance (µS/cm)	674.04	693.52	706.51	675.78	665.99	671.25	691.07	626.30	670.23	683.83	636.04	671.71	868.60	863.09
	pH (s.u.)	6.78	6.94	6.87	7.01	6.86	6.98	6.53	6.49	6.84	6.93	6.83	6.78	6.95	7.01
	Turbidity (NTU)	4.11	4.92	4.15	4.97	1.06	13.80	8.60	4.10	2.27	4.82	4.27	4.99	2.99	0.77

Notes:
< = Indicates the parameter was not detected above the analytical method detection limit (MDL)
°C = degrees Celsius
J = Indicates the parameter was estimated and detected between the MDL and the reporting limit (RL)
U = Data validation qualifer that indicates the parameter was analyzed for, but not detected.
µS/cm = microsiemens per centimeter
mV = millivolts
NTU = nephelometric turbidity units
s.u. = standard units
TDS = Total dissolved solids
(1) Appendix III/IV parameter per 40 CFR 257 Subpart D. Analysis of combined radium omitted from the pilot study monitoring program. Unless otherwise indicated, parameters are reported in units of milligrams per liter (mg/L)
(2) Metals were analyzed by EPA Method 6010D, 6020B, and 7470A, anions were analyzed by EPA Method 300.0, TDS was analyzed by SM2540C-2015
(3) The pH value presented was recorded at the time of sample collection in the field

Table 2
Summary of Baseline Groundwater Analytical Data
Plant Hammond AP-1, Floyd County, Georgia

	Pilot Study Area:	HGWC-8 (East Area)									
	Well ID:	INW-03	INW-03	PT-09	PT-09	PT-10	PT-10	PT-11	PT-11	PT-12	PT-12
	Sample Date:	5/14/2024	5/29/2024	5/14/2024	5/30/2024	5/15/2024	5/30/2024	5/14/2024	5/30/2024	5/14/2024	5/30/2024
	Parameter [1,2,3]										
APPENDIX III	Boron	1.5	1.5	1.4	1.5	1.5	1.4	1.6	1.4	1.6	1.5
	Calcium	127	144	82.8	94.9	108	95.9	90.9	95.7	99.7	91.0
	Chloride	56.9	61.6	44.4	52.4	50.1	53.0	41.4	39.4	50.3	48.0
	Fluoride	0.20	0.13	0.37	0.33	0.22	0.17	0.34	0.31	0.20	0.31
	pH	7.68	7.36	7.16	7.06	6.92	6.81	6.98	7.00	6.58	6.82
	Sulfate	178	187	130 M1	133	146	124	122	118	125	131
	TDS	564	610	436	532	503	495	441	474	523	488
APPENDIX IV	Antimony	< 0.00054	<0.00054	< 0.00054	< 0.00054	< 0.00054	< 0.00054	< 0.00054	< 0.00054	< 0.00054	< 0.00054
	Arsenic	< 0.00084	< 0.0022 J	< 0.00084	0.0022 J	< 0.00084	0.0018 J	< 0.00084	0.0021 J	< 0.00084	0.0026 J
	Barium	0.075	0.12	0.058	0.062	0.054	0.052	0.057	0.072	0.069	0.069
	Beryllium	< 0.000094	< 0.000094	< 0.000094	< 0.000094	< 0.000094	< 0.000094	< 0.000094	< 0.000094	< 0.000094	< 0.000094
	Cadmium	< 0.0010	< 0.00010	0.00015 J	0.00010 J	< 0.00010	< 0.00010	0.00013 J	0.00013 J	0.00014 J	0.00011 J
	Chromium	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019
	Cobalt	0.00070 J	0.00087 J	0.0012 J	0.0010 J	0.0016 J	0.0014 J	0.0016 J	0.0013 J	0.0044 J	0.0021 J
	Fluoride	0.20	0.13	0.37	0.33	0.22	0.17	0.34	0.31	0.20	0.31
	Lead	< 0.00016	< 0.00016	0.00017 J	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016	0.00017 J	< 0.00016
	Lithium	0.0050 J	0.0048 J	< 0.0016	< 0.0016	< 0.0016	< 0.0016	< 0.0016	< 0.0016	< 0.0016	< 0.0016
	Mercury	< 0.00013	< 0.00013	< 0.00013	<0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013
	Molybdenum	0.082	0.060	0.27	0.24	0.092	0.053	0.24	0.17	0.085	0.22
	Selenium	< 0.00096	0.0016 J	< 0.00096	< 0.00096	< 0.00096	< 0.00096	< 0.00096	< 0.00096	< 0.00096	0.0015 J
	Thallium	< 0.00038	<0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038
INORGANICS	Alkalinity (Bicarbonate) as $CaCO_3$	175	176	139	138	132	116	125	143	129	136
	Alkalinity (Carbonate) as $CaCO_3$	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
	Alkalinity (Total) as $CaCO_3$	175	176	139	138	132	116	125	143	129	136
	Sodium	12.4	11.1	9.3	11.5	9.2	9.5	8.8	9.2	11.8	9.6
	Sulfide	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022	< 0.022
METALS	Iron	0.11	0.14	0.42	0.24	0.24	0.21	< 0.025	0.10	0.33	0.032 J
	Magnesium	17.1	16.5	23.7	19.9	14.3	13.1	16.2	16.7	16.6	18.6
	Manganese	0.45	1.2	0.19	0.28	0.74	0.52	0.28	0.27	1.0	0.75
	Potassium	13.8	6.1	6.1	6.2	6.7	6.6	6.0	6.5	6.8	5.7
FIELD	Dissolved Oxygen	0.25	0.61	0.04	0.05	0.25	0.43	0.07	0.42	0.32	0.71
	Oxidation-Reduction Potential (mV)	43.0	-26.7	49.9	83.4	20.1	52.5	28.7	161.9	58.8	81.4
	Temperature (°C)	18.77	20.17	17.76	19.69	20.00	20.16	18.11	19.15	18.81	19.36
	Specific Conductance (µS/cm)	835.04	864.90	681.69	703.83	707.36	664.75	676.01	708.73	685.68	678.21
	pH (s.u.)	7.68	7.36	7.16	7.06	6.92	6.81	6.98	7.00	6.58	6.82
	Turbidity (NTU)	4.98	0.56	4.98	4.71	4.92	3.01	1.43	3.84	4.71	0.73

Notes:
< = Indicates the parameter was not detected
°C = degrees Celsius
J = Indicates the parameter was estimated an
U = Data validation qualifer that indicates th
µS/cm = microsiemens per centimeter
mV = millivolts
NTU = nephelometric turbidity units
s.u. = standard units
TDS = Total dissolved solids
(1) Appendix III/IV parameter per 40 CFR 2
in units of milligrams per liter (mg/L)
(2) Metals were analyzed by EPA Method 6
(3) The pH value presented was recorded at

Table 3
Summary of Daily Injection Volumes
Plant Hammond AP-1, Floyd County, Georgia

Date	HGWC-8 (East Area)		HGWC-13 (Southwest Area)	
	Daily Injection Volume (gal)	$FeSO_4$ Concentration of Injectate (g/L)	Daily Injection Volume (gal)	$FeSO_4$ Concentration of Injectate (g/L)
07/09/2024	--	--	480*	--
07/10/2024	--	--	950	0.5
07/11/2024	900	0.5	--	--
07/12/2024	--	--	947	0.5
07/13/2024	1,206	0.5	--	--
07/14/2024	--	--	1,798(1)	0.5
07/15/2024	1,211	1.0	--	--
07/16/2024	--	--	1,800(1)	0.5
07/23/2024	--	--	1,505(1)	1.0
07/24/2024	--	--	1,805(1)	1.0
07/29/2024	--	--	904(1)	1.0
07/31/2024	--	--	307*	--
TOTAL:	**3,317**	--	**10,496**	--

Notes:
-- = indicates no injections occurred on this date.
* = indicates injection consisted of potable water.
gal = gallons
g/L = grams per liter.
(1) Injection volumes represent total volume injected simultaneously between two injection wells, INW-04 and INW-05.

Table 4

Summary of Air Sparging Activities

HGWC 13 Pilot Area, Plant Hammond AP-1, Floyd County, GA

Well-ID	Date	Flow Rate (SCFM)	Duration (hours)
AS-03	7/26/2024	<1.0	2
AS-03	7/27/2024	<1.0	3
AS-04	7/27/2024	<2.0	1
AS-03	7/28/2024	<1.7	3
AS-03	7/29/2024	1.8	3

Notes:

SCFM = standard cubic feet per minute.

Table 5
Summary of Screening-Level Groundwater Analytical Data
Plant Hammond AP-1, Floyd County, Georgia

			Parameter ([1,2]):	Total Iron	Dissolved Iron	Total Boron	Dissolved Boron	Total Molybdenum	Dissolved Molybdenum	Total Arsenic	Dissolved Arsenic
	Well ID	Sample Date	Sample Time								
HGWC-8 (East Area)	PT-09	5/31/2024[3]	11:52 AM	0.24	--	1.5	--	0.24	--	0.0022 J	--
		7/11/2024	6:00 PM	0.56	0.02	1.5	1.4	0.43	0.42	--	--
		7/13/2024	8:45 AM	0.36	< 0.018	1.4	1.5	0.34	0.33	--	--
		7/13/2024	4:38 PM	0.66	0.3	1.1	1.2	0.29	0.29	--	--
		7/15/2024	8:22 AM	0.38	0.031	1.2	1.3	0.30	0.27	--	--
		7/15/2024	4:02 PM	6.3	3.8	1.0	1.0	0.13	0.12	--	--
		7/17/2024	1:42 PM	0.78	0.46	1.0	1.0	0.25	0.24	--	--
	PT-10	5/30/2024[3]	2:40 PM	0.21	--	1.4	--	0.053	--	0.0018 J	
		7/11/2024	6:00 PM	0.37	< 0.018	1.6	1.7	0.16	0.15	--	--
		7/13/2024	8:50 AM	0.19	< 0.018	1.6	1.7	0.16	0.17	--	--
		7/13/2024	4:40 PM	0.12	< 0.018	1.6	1.7	0.18	0.16	--	--
		7/15/2024	5:19 PM	0.14	--	1.7	--	0.16	--	--	--
		7/17/2024	1:44 PM	0.10	--	1.7	--	0.17	--	--	--
	PT-11	5/29/2024[3]	4:43 PM	0.10	--	1.4	--	0.17	--	0.0021 J	--
		7/11/2024	8:00 PM	3.2	2.4	0.69	0.72	0.05	0.05	--	--
		7/13/2024	5:56 PM	11	9	0.57	0.6	0.02	0.02	--	--
		7/15/2024	8:46 AM	2.4	1.6	0.85	0.87	0.04	0.04	--	--
		7/15/2024	4:15 PM	44	37	0.49	0.51	0.01	0.01	--	--
		7/17/2024	9:22 AM	13	12	0.8	0.82	0.01	0.01	--	--
		7/24/2024	10:05 AM	4.9	3.6	1.2	1.2	0.05	0.04	--	--
	PT-12	5/29/2024[3]	12:08 PM	0.032 J	--	1.5	--	0.22	--	0.0026 J	--
		7/11/2024	8:15 PM	0.1	< 0.018	1.5	1.6	0.31	0.30	--	--
		7/13/2024	5:54 PM	0.22	0.024	1.2	1.3	0.23	0.23	--	--
		7/15/2024	5:20 PM	0.49	--	1.2	--	0.14	--	--	--
		7/17/2024	12:04 PM	0.6	< 0.018	1.2	1.3	0.23	0.23	--	--

Table 5
Summary of Screening-Level Groundwater Analytical Data
Plant Hammond AP-1, Floyd County, Georgia

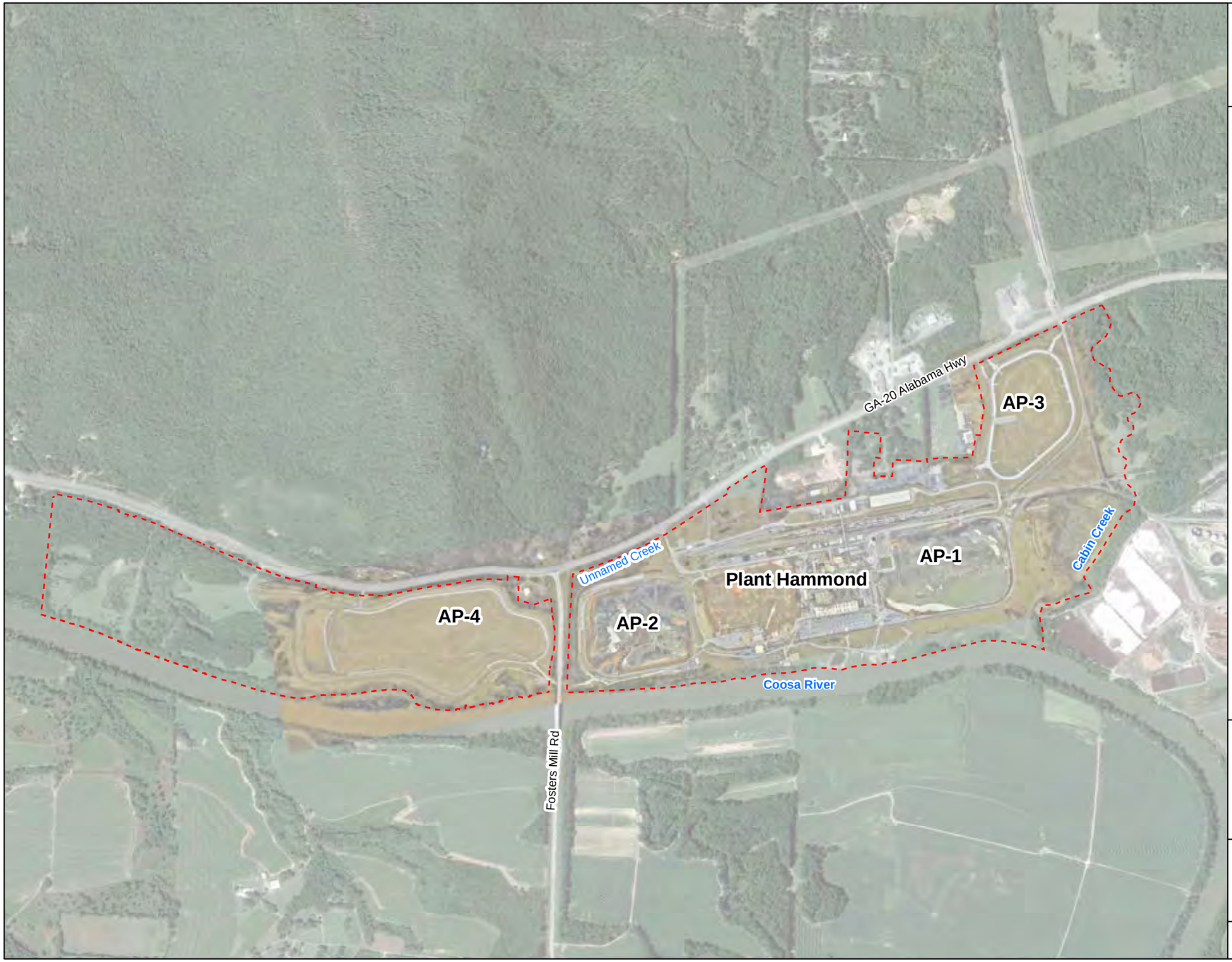
		Parameter ([1,2]):	Total Iron	Dissolved Iron	Total Boron	Dissolved Boron	Total Molybdenum	Dissolved Molybdenum	Total Arsenic	Dissolved Arsenic
	Well ID	Sample Date / Sample Time								
HGWC-13 Area (Southwest Area)	PT-07	5/16/2024[3] 12:16 PM	15.7	--	0.50	--	0.0093 J	--	0.27	--
		7/10/2024 7:40 PM	41	14	0.54	0.49	--	--	0.32	0.23
		7/12/2024 6:12 PM	17	12	0.52	0.52	--	--	0.24	0.16
		7/18/2024 2:00 PM	21	16	0.58	0.59	--	--	0.28	0.26
		7/26/2024 8:10 PM	140	0.19	0.7	0.58	--	--	0.64	0.052
		7/27/2024 5:00 PM	190	0.6	0.71	0.56	--	--	0.29	0.025
		7/28/2024 5:00 PM	31	0.46	0.63	0.56	--	--	0.097	0.026
		7/29/2024 9:05 AM	26	6.4	0.6	0.54	--	--	0.13	0.055
		7/29/2024 6:43 PM	23	12	0.56	0.54	--	--	0.13	0.088
		7/30/2024 8:55 AM	31	12	0.62	0.57	--	--	0.18	0.091
		7/30/2024 6:00 PM	160	1.4	0.76	0.59	--	--	0.39	0.045
		7/31/2024 9:40 AM	110	2.8	0.61	0.51	--	--	0.44	0.03
	PT-08	5/16/2024[3] 10:37 AM	8.0	--	0.73	--	0.017	--	0.23	--
		7/10/2024 9:00 PM	22	9.1	0.74	0.69	--	--	0.33	0.26
		7/16/2024 6:00 AM	7.3	7.4	0.8	0.76	--	--	0.25	0.28
		7/16/2024 7:55 AM	22	9.9	0.76	0.65	--	--	0.34	0.30
		7/18/2024 8:47 PM	8.8	7.5	0.72	0.75	--	--	0.29	0.26
		7/24/2024 9:00 AM	21	11	0.7	0.71	--	--	0.3	0.26
		7/24/2024 8:00 PM	23	9.3	0.63	0.63	--	--	0.31	0.25
		7/25/2024 4:50 PM	17	--	0.67	--	--	--	0.35	--
		7/28/2024 4:30 PM	26	7.7	0.75	0.66	--	--	0.42	0.17
		7/30/2024 5:50 PM	25	7.7	0.78	0.7	--	--	0.34	0.12
		7/31/2024 10:00 AM	34	13	0.65	0.61	--	--	0.43	0.16
	PT-13	5/15/2024[3] 6:45 PM	15	--	0.52	--	0.0087 J	--	0.29	--
		7/10/2024 8:12 PM	80	11	0.56	0.56	--	--	0.29	0.23
		7/12/2024 7:14 PM	24	13	0.58	0.59	--	--	0.3	0.23
		7/14/2024 8:30 AM	27	15	0.61	0.57	--	--	0.3	0.29
		7/14/2024 5:00 PM	28	20	0.45	0.43	--	--	0.27	0.23
		7/18/2024 11:47 AM	18	15	0.53	0.56	--	--	0.29	0.27
		7/24/2024 8:00 PM	66	51	0.39	0.39	--	--	0.2	0.15
		7/25/2024 3:20 PM	38	--	0.55	--	--	--	0.3	--
		7/26/2024 8:20 PM	42	16	0.54	0.5	--	--	0.26	0.18
		7/27/2024 5:00 PM	30	12	0.6	0.5	--	--	0.26	0.083
		7/28/2024 4:20 PM	23	13	0.59	0.51	--	--	0.19	0.11
		7/30/2024 6:10 PM	24	13	0.57	0.56	--	--	0.17	0.076
		7/31/2024 9:50 AM	36	23	0.56	0.54	--	--	0.22	0.13

Table 5
Summary of Screening-Level Groundwater Analytical Data
Plant Hammond AP-1, Floyd County, Georgia

			Parameter ([1,2]):	Total Iron	Dissolved Iron	Total Boron	Dissolved Boron	Total Molybdenum	Dissolved Molybdenum	Total Arsenic	Dissolved Arsenic
	Well ID	Sample Date	Sample Time								
HGWC-13 Area (Southwest Area)	PT-14	5/15/2024[3]	6:27 PM	15	--	0.51	--	0.011	--	0.21	--
		7/12/2024	6:47 PM	53	10	0.46	0.44	--	--	0.17	0.079
		7/14/2024	8:30 AM	48	14	0.68	0.66	--	--	0.20	0.18
		7/14/2024	5:15 PM	73	19	0.32	0.28	--	--	0.14	0.035
		7/16/2024	7:45 AM	63	13	0.62	0.64	--	--	0.24	0.15
		7/16/2024	6:00 PM	34	20	0.62	0.40	--	--	0.08	0.024
		7/18/2024	4:32 PM	18	14	0.64	0.66	--	--	0.21	0.2
		7/24/2024	9:00 AM	87	24	0.68	0.61	--	--	0.21	0.051
		7/24/2024	8:00 PM	250	71	0.53	0.37	--	--	0.21	0.0043
		7/25/2024	2:40 PM	130	28	0.60	0.58	--	--	0.20	0.056
		7/26/2024	10:10 AM	40	18	0.63	0.57	--	--	0.16	0.14
		7/26/2024	8:00 PM	38	18	0.62	0.57	--	--	0.16	0.15
		7/27/2024	5:00 PM	62	2.3	0.67	0.57	--	--	0.26	0.019
		7/28/2024	3:30 PM	22	15	0.65	0.59	--	--	0.13	0.12
		7/29/2024	9:05 AM	52	16	0.62	0.57	--	--	0.20	0.13
		7/29/2024	12:00 PM	64	22	0.46	0.5	--	--	0.04	0.019
		7/29/2024	1:00 PM	120	53	0.46	0.36	--	--	0.093	0.022
		7/29/2024	3:00 PM	160	75	0.36	0.31	--	--	0.098	0.02
		7/29/2024	6:33 PM	110	70	0.43	0.38	--	--	0.095	0.012
		7/30/2024	9:05 AM	25	19	0.63	0.58	--	--	0.053	0.034
		7/30/2024	5:40 PM	32	17	0.63	0.59	--	--	0.11	0.054
		7/31/2024	9:10 AM	34	18	0.61	0.56	--	--	0.18	0.11
		7/31/2024	3:40 PM	17	4.3	0.31	0.32	--	--	0.051	0.014
	PT-15	5/15/2024[3]	4:10 PM	9.2	--	0.76	--	0.021	--	0.39	--
		7/14/2024	5:30 PM	14	8.2	0.69	0.69	--	--	0.42	0.38
		7/18/2024	6:13 PM	9.4	7.7	0.7	0.72	--	--	0.42	0.41
		7/24/2024	9:00 AM	13	12	0.65	0.64	--	--	0.33	0.36
		7/25/2024	4:40 PM	18	--	0.69	--	--	--	0.48	--

Notes:
< = Indicates the parameter was not detected above the analytical method detection limit (MDL).
-- = indicates sample was not collected on this date or sample was not analyzed for that parameter.
J = Indicates the parameter was estimated and detected between the MDL and the reporting limit (RL).
(1) Parameters are reported in units of milligrams per liter (mg/L).
(2) Metals were analyzed by EPA Method 6010D, 6020B.
(3) Data was collected from a baseline sampling event that occurred pre-injection activities.

FIGURES



N

LEGEND

Plant Hammond Property Boundary

Note:
1. Aerial photograph source: Google Earth Pro, August 2019 and Georgia Power Company, February 2023.

0 625 1,250 2,500

SCALE IN FEET

SITE LOCATION MAP

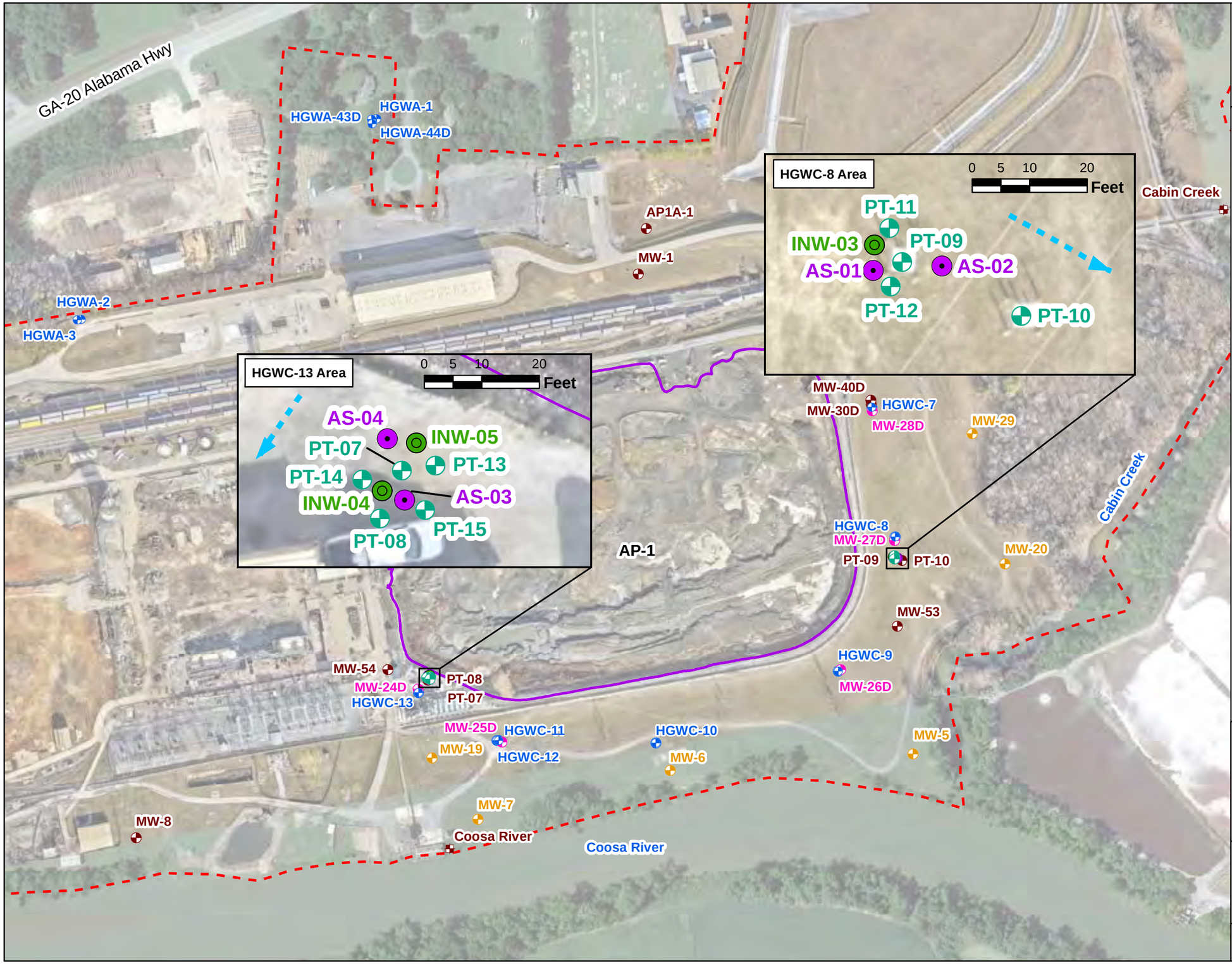
GEORGIA POWER COMPANY
PLANT HAMMOND AP-1
ROME, FLOYD COUNTY, GEORGIA

Prepared For: Georgia Power

Prepared By: Geosyntec consultants

KENNESAW, GA | AUGUST 2024

FIGURE 1



N

LEGEND

- Detection Monitoring Well
- Horizontal Assessment Monitoring Well
- Vertical Assessment Monitoring Well
- Piezometer
- Surface Water Level Gauge Point
- Temporary Sparge Well
- Injection Well
- Performance Monitoring Well
- Approximate AP-1 Boundary
- Plant Hammond Property Boundary
- Approximate Groundwater Flow Direction

Notes:

1. Piezometers INW-03, INW-04, INW-05, AS-01 through AS-04, and PT-07 through PT-15 were installed in support of an Assesment of Corrective Measures (ACM) geochemical injections pilot study and are not included in the routine semiannual sampling of the monitoring well network.
2. Aerial photograph source: Google Earth Pro, August 2019, and Georgia Power Company, January 2024.

0 150 300 600

SCALE IN FEET

PILOT STUDY WELL LOCATIONS

GEORGIA POWER COMPANY
PLANT HAMMOND AP-1
ROME, FLOYD COUNTY, GEORGIA

Prepared For: Georgia Power

Prepared By: Geosyntec consultants

KENNESAW, GA | AUGUST 2024

FIGURE 2

APPENDIX A

Well Design, Installation, and Development Report – Addendum No. 6

Prepared for

Georgia Power Company
241 Ralph McGill Blvd NE
Atlanta, Georgia 30308

WELL DESIGN, INSTALLATION, AND DEVELOPMENT REPORT - ADDENDUM No. 6

PLANT HAMMOND ASH POND 1 (AP-1)

Prepared by

1255 Roberts Boulevard, Suite 200
Kennesaw, Georgia 30144

Project Number GW6581E

August 2024

Georgia Power

CERTIFICATION PAGE

I hereby certify that this *Well Design, Installation, and Development Report – Addendum No. 6, Plant Hammond Ash Pond 1 (AP-1)* has been prepared by, or under the direct supervision of, a Qualified Groundwater Scientist with Geosyntec Consultants, Inc. and is in compliance with the United States Environmental Protection Agency Coal Combustion Residual Rule [40 Code of Federal Regulations 257 Subpart D], specifically §257.91(e)(1), and the Georgia Environmental Protection Division Rules for Solid Waste Management 391-3-4-.10.

According to 391-3-4-.01, a Qualified Groundwater Scientist is "a professional engineer or geologist registered to practice in Georgia who has received a baccalaureate or post-graduate degree in the natural sciences or engineering and has sufficient training and experience in groundwater hydrology and related fields that enable individuals to make sound professional judgments regarding groundwater monitoring, contaminant fate and transport, and corrective action."

August 23, 2024

Christine Hug P.G.
Georgia Professional Geologist No. 002221
Project Manager
Geosyntec Consultants

Date

Geosyntec
consultants

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Appendix B Boring and Well Construction Logs
Appendix C Well Development and Equipment Calibration Forms
Appendix D Certified Well Survey Data

LIST OF ACRONYMS

ACM	Assessment of Corrective Measures
AP	Ash Pond
ASTM	American Society for Testing and Materials
CCR	coal combustion residual
CFR	Code of Federal Regulations
DO	dissolved oxygen
GA EPD	Georgia Environmental Protection Division
Georgia Power	Georgia Power Company
Geosyntec	Geosyntec Consultants, Inc.
NAD	North America Datum
NAVD	North American Vertical Datum
NSF	National Sanitation Foundation
ORP	oxygen reduction potential
PG	professional geologist
PVC	polyvinyl chloride
SCS	Southern Company Services
TOC	top of casing
US EPA	United States Environmental Protection Agency

1. INTRODUCTION

This report provides details regarding the design, installation, and development of twelve piezometers[1] (AS-01, AS-02, AS-03, AS-04, INW-03, INW-04, INW-05, PT-11, PT-12, PT-13, PT-14, and PT-15) to supplement the current groundwater monitoring system at Georgia Power Company (Georgia Power) Plant Hammond (Site) Ash Pond 1 (AP-1). The report was prepared as an addendum to previously submitted well design, installation, development and decommissioning reports issued for the Site (ERM, 2017; Geosyntec 2019, 2020a, 2020b, 2020c, and 2023), and meets the requirements promulgated in the United States Environmental Protection Agency (US EPA) coal combustion residual (CCR) rule [40 Code of Federal Regulations (CFR) Part 257, Subpart D], specifically 40 CFR §257.91(e)(1) and Georgia Environmental Protection Division (GA EPD) Rules for Solid Waste Management 391-3-4-.10.

Plant Hammond is located in Floyd County, approximately 10 miles west of Rome, Georgia. The physical address of the plant is 5963 Alabama Highway, Rome, Georgia, 30165. The current groundwater monitoring system at AP-1 includes a network of detection monitoring wells, assessment monitoring wells, and piezometers. The locations of these wells and piezometers are shown on **Figure 1**.

Wells AS-01, AS-02, AS-03, and AS-04 were installed as air sparge points for the supplemental pilot study in support of the Assessment of Corrective Measures (ACM) Program. Wells INW-03, INW-04, and INW-05 were installed as injection points, and wells PT-11, PT-12, PT-13, PT-14, and PT-15 were installed to specifically monitor the performance of the supplemental pilot study injections in support of the ACM program.

[1] For the purposes of this report, unless otherwise specified, the term “well” will be used interchangeably with “piezometer”.

2. DRILLING AND WELL INSTALLATION

Well installation and development activities were performed according to accepted industry standards and following guidelines within the Manual for Groundwater Monitoring (GA EPD, 1991). Well drilling, installation, and surface completion activities were performed by Cascade Drilling, Inc. of Midland, North Carolina. In accordance with the Georgia Water Well Standards Act, the driller was required to have an insurance bond on file with the State of Georgia at the time of drilling. A copy of this bond is provided in **Appendix A**. A geologist under the supervision of a professional geologist (PG) registered to practice in the State of Georgia, both of whom are employed with Geosyntec Consultants (Geosyntec), documented the drilling and installation efforts to record observations, soil and rock descriptions, subsurface stratigraphy, water elevations, and other field activities. Geosyntec was also responsible for the development of the newly installed wells.

The locations of the new piezometers are shown on **Figure 1**. Well construction details are provided in **Table 1**; boring and well construction logs are included in **Appendix B**.

2.1 Drilling Method

The boreholes were advanced using rotosonic drilling techniques with continuous core collection. A Terra Sonic compact crawler size track mounted rig with a 6-inch sonic drill rod was used to install the wells. Care was taken so that the drilling methods did not introduce contamination of the groundwater from surface activities. Drilling equipment was cleaned prior to mobilizing to the site.

2.2 Screened Interval

Details regarding the well screened intervals are provided in **Table 1**. The wells are screened in the uppermost water bearing unit of the Site. Screened elevations across the new wells range from approximately 560.75 to 542.97 feet (referenced to the North American Vertical Datum of 1988). Performance monitoring and injection (PT and INW) wells were constructed with a 10 foot well screen segment. Air sparge (AS) wells were installed with a 2 foot well screen.

2.3 Well Casings and Screens

The wells were constructed of 2-inch inner diameter Schedule 40 polyvinyl chloride (PVC) casing with flush-threaded fittings. Performance monitoring and injection wells

were installed with a 10-foot nominal length pre-packed dual-wall well screen with 0.010-inch slots, air sparge wells were installed with a 2-foot nominal length well screen with 0.010-inch slots. The casing and pre-packed screens arrived pre-cleaned and packaged by the manufacturer. The pre-packed well screens were constructed onsite by packing sand between slotted PVC and the well screen. Well construction materials are sufficiently durable to resist chemical and physical degradation and do not interfere with the quality of groundwater samples. Casing and screen are flush-threaded. Solvent or glue was not used to construct the wells. A threaded bottom cap was attached to the bottom of each well screen. The PVC products used were American Society for Testing and Materials (ASTM) and National Sanitation Foundation (NSF) rated. Well screen interval details are provided in **Table 1**.

2.4 Well Intake Design

The wells were designed and constructed to: (1) allow sufficient groundwater flow to the well for sampling (for performance monitoring and injection wells); (2) minimize the passage of formation materials (turbidity) into the well; and (3) ensure sufficient structural integrity to prevent collapse of the well. The annular space between the face of the formation and the screens was filled to minimize passage of formation materials into the well. A filter pack of clean, well-rounded, quartz sand was installed in each well. The 0.010-inch slot size was selected to minimize the inflow of formation material without impairing influent groundwater flow.

2.5 Filter Pack

Highly Pure Quartzite silica sand filter pack was used as the appropriate gradation for the wells. The filter pack material meets the ASTM D5092 uniformity coefficient specification of 2.5 or less, with a uniformity coefficient of 1.6.

Filter pack material was placed within the pre-packed dual-wall well screens and in the annular space between the outside of the pre-pack screen and borehole wall to ensure an adequate thickness of filter pack material between the wells and the formation. Placement of the filter pack between the borehole wall and PVC was placed via gravity-pouring. Filter pack material placed in the annular space outside of the well screens extended a minimum of 2 feet above the top of screens. No bridging occurred during filter pack placement at any of the well locations.

Upon placement of the filter pack, the wells were pumped with a submersible pump to assure settlement of the filter pack. The top of filter pack depth was measured following

pumping to ensure appropriate extension of filter sand above the screens. The depth of top of filter pack was measured and recorded on the well construction logs provided in **Appendix B**.

2.6 Annular Seal

A minimum of two feet of bentonite chips (un-coated 3/8-inch and 1/2-inch bentonite pellets) were placed immediately above the filter pack by gravity-pouring into the annular space and hydrated per manufacture's specifications. A tremie pipe was used to probe the annular space to ensure that no bridging occurred. The bentonite was hydrated with potable water for a duration meeting the manufacture's specifications prior to grouting the remaining annulus.

The annulus above the bentonite seal was grouted with a bentonite grout placed via tremie pipe and direct pour methods from the top of the bentonite seal. During grouting, care was taken to assure that the bentonite seal was not disturbed by locating the base of the tremie pipe approximately 2 feet above the bentonite seal and injecting grout at low pressure/velocity. A cement apron 2-feet by 2-feet by 4-inches was poured around flush mount casings at all locations. A metal survey pin was placed on the front side of the concrete pad, several inches from the well vault. The pads were mounded slightly outward to direct surface drainage away from the wells.

2.7 Cap and Protective Casing

All wells were installed with flush-mounted well vaults and watertight flush-mounted well covers. The wells were clearly marked with the proper well identification number on a secured aluminum well tag on the manhole covers.

Construction details are documented on the well construction logs provided in **Appendix B**.

3. WELL DEVELOPMENT

The wells were developed using a combination of surging and pumping to (1) restore the natural hydraulic conductivity of the formation, and (2) to remove fine-grained sediment to ensure low-turbidity groundwater samples. The wells were alternately surged and purged until visually clear of particulates. Turbidity, pH, temperature, conductivity, oxidation-reduction potential (ORP), and dissolved oxygen (DO) measurements were

recorded to ensure that each well was fully developed. The well development and calibration field forms are included in **Appendix C**.

4. SURVEY

Upon completion of the well installations, select horizontal locations and vertical elevations were surveyed by a Georgia-licensed surveyor. The top of the PVC well casing [top of casing (TOC) elevation] and the survey pin installed at the well pads were surveyed to within 0.5-foot horizontal accuracy and to 0.01-foot vertical accuracy. The horizontal location (i.e., northings and eastings) was recorded in feet relative to the North America Datum of 1983 (NAD) with the vertical elevation recorded in feet relative to the North American Vertical Datum of 1988 (NAVD 88). Certified survey data are provided in the well construction table (**Table 1**). A copy of the certified well survey data for the new wells are provided in **Appendix D**.

5. REFERENCES

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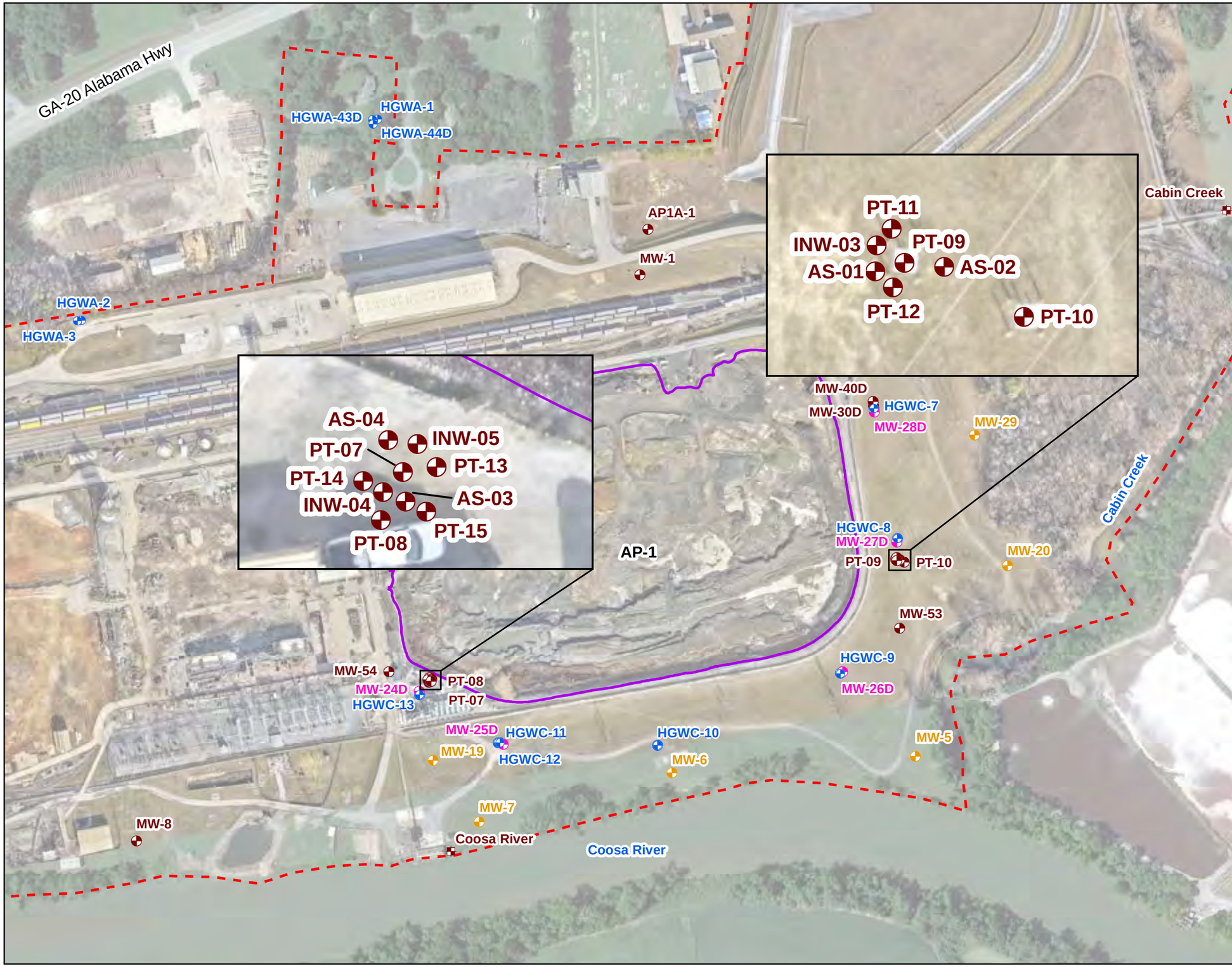
TABLE

Table 1
Summary of Well Construction Details
Plant Hammond AP-1, Floyd County, Georgia

Well ID	Purpose	Well Completion	Geological Formation	Installation Date	Northing [(1)]	Easting [(1)]	Ground Surface Elevation [(1)] (ft)	Top of Casing Elevation [(1)] (ft)	Top of Screen Elevation (ft)	Bottom of Screen Elevation (ft)	Well Depth (ft bgs) [(2)]
AS-01	Piezometer	Flush Mount	Residual	5/7/2024	1549048.28	1942388.06	577.46	577.08	548.46	546.46	31.30
AS-02	Piezometer	Flush Mount	Residual	5/6/2024	1549049.08	1942400.03	577.14	576.72	547.14	545.14	32.30
AS-03	Piezometer	Flush Mount	Residual/Limestone	4/28/2024	1548670.10	1940933.87	591.98	591.60	545.98	543.98	48.30
AS-04	Piezometer	Flush Mount	Residual/Limestone	4/28/2024	1548680.80	1940930.83	591.97	591.50	544.97	542.97	49.30
INW-03	Piezometer	Flush Mount	Alluvium	5/6/2024	1549052.75	1942388.28	577.38	577.07	560.28	550.28	27.40
INW-04	Piezometer	Flush Mount	Alluvium	4/28/2024	1548671.73	1940929.98	592.01	591.58	557.01	547.01	45.30
INW-05	Piezometer	Flush Mount	Alluvium	4/28/2024	1548680.07	1940935.89	591.81	591.31	556.81	546.81	45.30
PT-11	Piezometer	Flush Mount	Alluvium	5/7/2024	1549055.61	1942390.89	577.35	576.96	560.75	550.75	26.90
PT-12	Piezometer	Flush Mount	Alluvium	5/7/2024	1549045.43	1942391.10	577.34	576.84	560.34	550.34	27.30
PT-13	Piezometer	Flush Mount	Residual	4/28/2024	1548676.04	1940939.23	591.88	591.47	556.88	546.88	45.30
PT-14	Piezometer	Flush Mount	Alluvium	4/28/2024	1548673.63	1940926.52	592.06	591.62	557.06	547.06	45.30
PT-15	Piezometer	Flush Mount	Alluvium	4/28/2024	1548668.35	1940937.45	591.90	591.37	556.90	546.90	45.30

Notes:
ft = feet
ft bgs = feet below ground surface.
(1) Coordinates in North American Datum (NAD) 1983, State Plane, Georgia-West, feet. Elevations referenced to the North American Vertical Datum of 1988 (NAVD88). Survey data was certified by GEL Solutions July 1, 2024.
(2) Total well depth accounts for 0.3 ft sump.

FIGURE



N

LEGEND

- Detection Monitoring Well
- Horizontal Assessment Monitoring Well
- Vertical Assessment Monitoring Well
- Piezometer
- Surface Water Level Gauge Point
- Approximate AP-1 Boundary
- Plant Hammond Property Boundary

Notes:

1. Piezometers INW-03, INW-04, INW-05, AS-01 through AS-04, and PT-7 through PT-15 were installed in support of an Assesment of Corrective Measures (ACM) geochemical injections pilot study and are not included in the routine semiannual sampling of the monitoring well network.
2. Aerial photograph source: Google Earth Pro, August 2019, and Georgia Power Company, January 2024.

0 150 300 600

SCALE IN FEET

GROUNDWATER MONITORING NETWORK MAP

GEORGIA POWER COMPANY
PLANT HAMMOND AP-1
ROME, FLOYD COUNTY, GEORGIA

Prepared For: Georgia Power

Prepared By: Geosyntec consultants

KENNESAW, GA | AUGUST 2024

FIGURE 1

APPENDIX A

Well Driller Performance Bonds

CONTINUATION
CERTIFICATE

Atlantic Specialty Insurance Company , Surety upon

a certain Bond No. 800033976

dated effective September 27, 2017
(MONTH-DAY-YEAR)

on behalf of Ricky Davis / Cascade Drilling, L.P.
(PRINCIPAL)

and in favor of Department of Natural Resources, State of Georgia
(OBLIGEE)

does hereby continue said bond in force for the further period

beginning on June 30, 2023
(MONTH-DAY-YEAR)

and ending on June 30, 2025
(MONTH-DAY-YEAR)

Amount of bond Thirty Thousand and 00/100 Dollars ($30,000.00)

Description of bond Performance Bond for Water Well Contractors

Premium:

PROVIDED: That this continuation certificate does not create a new obligation and is executed upon the express condition and provision that the Surety's liability under said bond and this and all Continuation Certificates issued in connection therewith shall not be cumulative and that the said Surety's aggregate liability under said bond and this and all such Continuation Certificates on account of all defaults committed during the period (regardless of the number of years) said bond had been and shall be in force, shall not in any event exceed the amount of said bond as hereinbefore set forth.

Signed and dated on April 13, 2023
(MONTH-DAY-YEAR)

Atlantic Specialty Insurance Company

By _____
ATTORNEY-IN-FACT Carlos A. Albelo

intact INSURANCE

Power of Attorney

KNOW ALL MEN BY THESE PRESENTS, that ATLANTIC SPECIALTY INSURANCE COMPANY, a New York corporation with its principal office in Plymouth, Minnesota, does hereby constitute and appoint: **Megan Sivley, Melissa Haddick, Sandra Parker, Orlando Aguirre, Stacy Killebrew, Carlos A. Albelo**, each individually if there be more than one named, its true and lawful Attorney-in-Fact, to make, execute, seal and deliver, for and on its behalf as surety, any and all bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof; provided that no bond or undertaking executed under this authority shall exceed in amount the sum of: **unlimited** and the execution of such bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof in pursuance of these presents, shall be as binding upon said Company as if they had been fully signed by an authorized officer of the Company and sealed with the Company seal. This Power of Attorney is made and executed by authority of the following resolutions adopted by the Board of Directors of ATLANTIC SPECIALTY INSURANCE COMPANY on the twenty-fifth day of September, 2012:

Resolved: That the President, any Senior Vice President or Vice-President (each an "Authorized Officer") may execute for and in behalf of the Company any and all bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof, and affix the seal of the Company thereto; and that the Authorized Officer may appoint and authorize an Attorney-in-Fact to execute on behalf of the Company any and all such instruments and to affix the Company seal thereto; and that the Authorized Officer may at any time remove any such Attorney-in-Fact and revoke all power and authority given to any such Attorney-in-Fact.

Resolved: That the Attorney-in-Fact may be given full power and authority to execute for and in the name and on behalf of the Company any and all bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof, and any such instrument executed by any such Attorney-in-Fact shall be as binding upon the Company as if signed and sealed by an Authorized Officer and, further, the Attorney-in-Fact is hereby authorized to verify any affidavit required to be attached to bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof.

This power of attorney is signed and sealed by facsimile under the authority of the following Resolution adopted by the Board of Directors of ATLANTIC SPECIALTY INSURANCE COMPANY on the twenty-fifth day of September, 2012:

Resolved: That the signature of an Authorized Officer, the signature of the Secretary or the Assistant Secretary, and the Company seal may be affixed by facsimile to any power of attorney or to any certificate relating thereto appointing an Attorney-in-Fact for purposes only of executing and sealing any bond, undertaking, recognizance or other written obligation in the nature thereof, and any such signature and seal where so used, being hereby adopted by the Company as the original signature of such officer and the original seal of the Company, to be valid and binding upon the Company with the same force and effect as though manually affixed.

IN WITNESS WHEREOF, ATLANTIC SPECIALTY INSURANCE COMPANY has caused these presents to be signed by an Authorized Officer and the seal of the Company to be affixed this first day of January, 2023.

ATLANTIC SPECIALTY INSURANCE COMPANY CORPORATE SEAL 1986 NEW YORK

By _____
Sarah A. Kolar, General Counsel

STATE OF MINNESOTA
HENNEPIN COUNTY

On this first day of January, 2023, before me personally came Sarah A. Kolar, General Counsel of ATLANTIC SPECIALTY INSURANCE COMPANY, to me personally known to be the individual and officer described in and who executed the preceding instrument, and she acknowledged the execution of the same, and being by me duly sworn, that she is the said officer of the Company aforesaid, and that the seal affixed to the preceding instrument is the seal of said Company and that the said seal and the signature as such officer was duly affixed and subscribed to the said instrument by the authority and at the direction of the Company.

ALISON DWAN NASH-TROUT
NOTARY PUBLIC - MINNESOTA
My Commission Expires
January 31, 2026

_____
Notary Public

I, the undersigned, Secretary of ATLANTIC SPECIALTY INSURANCE COMPANY, a New York Corporation, do hereby certify that the foregoing power of attorney is in full force and has not been revoked, and the resolutions set forth above are now in force.

Signed and sealed. Dated 13th day of April, 2023.

ATLANTIC SPECIALTY INSURANCE COMPANY CORPORATE SEAL 1986 NEW YORK

This Power of Attorney expires
January 31, 2025

_____
Kara Barrow, Secretary

Please direct bond verifications to surety@intactinsurance.com

APPENDIX B

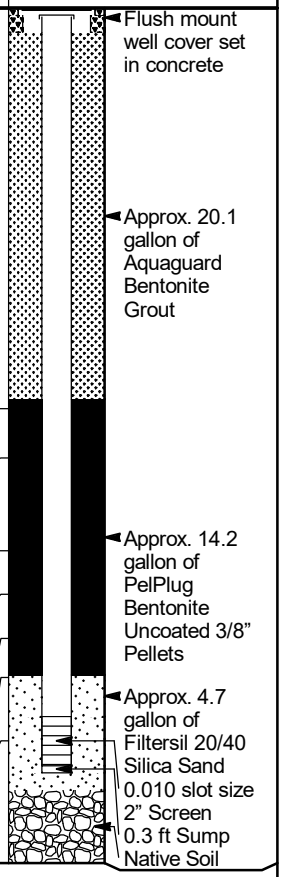
Boring and Well Construction Logs

Geosyntec consultants

AS-01

CLIENT Southern Company Services
PROJECT NAME Plant Hammond Well Installation
PROJECT NUMBER GW6581E
PROJECT LOCATION Plant Hammond
DATE STARTED 5/6/24 **COMPLETED** 5/7/24
NORTHING 1549048.28 ft **EASTING** 1942388.06 ft
DRILLER Cascade Drilling
GROUND ELEVATION 577.46 ft **BORING DIAMETER** 4x6 in
DRILLING METHOD Sonic
TOP OF CASING ELEVATION 577.08 ft
SAMPLING METHOD Sonic Core
GEOPHYSICAL CONTRACTOR ---
RIG TYPE Terrasonic Compact Crawler
LOGGED BY T. Kessler **CHECKED BY** C. Hug

DEPTH (ft)	ELEVATION (ft)	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION
0	575			SILTY CLAY, yellowish-brown, trace fine sand, trace angular fine gravel, medium to low plasticity, abundant organics from 0-1 foot bgs, trace black mottling with trace light gray throughout, moist.
5	570			
10	565			
15	560			SANDY CLAY, light gray, firm, subrounded to subangular medium to fine sand, some angular to subangular medium gravel, medium to low plasticity, moist.
20	555			SILTY SAND, brownish yellow, subrounded to subangular fine to coarse sand, some subrounded to rounded medium gravel.
25	550			SAND, very pale brown, subrounded to subangular medium to fine sand, some subrounded to rounded gravel, wet.
				SILTY SAND, brownish yellow, subrounded to subangular fine to coarse sand, some subrounded to rounded medium gravel, moist. From 24.7 ft: Black staining.
30	545	Rock encountered.		SANDY CLAY, light yellowish-brown, soft, somesubangular to subrounded fine gravel, trace fine sand, low plasticity, wet.
35				No recovery (27.7 to 30 ft).
				LIMESTONE, medium gray, hard, wet.



Bottom of borehole at 35.0 feet below ground surface (ft bgs).

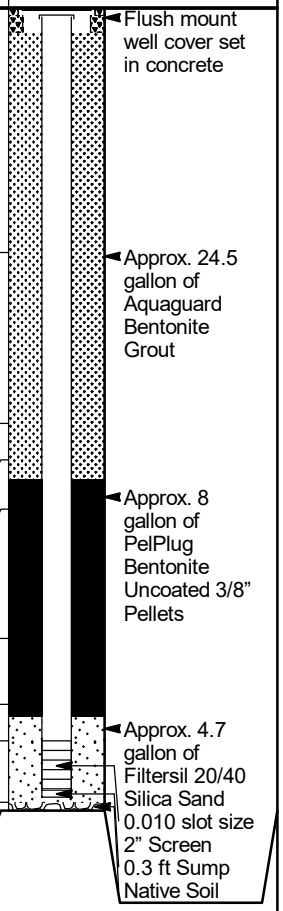
Geosyntec consultants

AS-02

CLIENT Southern Company Services
PROJECT NAME Plant Hammond Well Installation
PROJECT NUMBER GW6581E
PROJECT LOCATION Plant Hammond
DATE STARTED 4/29/24 **COMPLETED** 5/6/24
NORTHING 1549049.08 ft **EASTING** 1942400.03 ft
DRILLER Cascade Drilling
GROUND ELEVATION 577.14 ft **BORING DIAMETER** 4x6 in
DRILLING METHOD Sonic
TOP OF CASING ELEVATION 576.72 ft
SAMPLING METHOD Sonic Core
GEOPHYSICAL CONTRACTOR ---
RIG TYPE Terrasonic Compact Crawler
LOGGED BY T. Kessler **CHECKED BY** C. Hug

DEPTH (ft)	ELEVATION (ft)	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION
0	575			SILTY CLAY, dark yellowish-brown, trace fine sand, trace angular fine gravel, medium plasticity, abundant organics from 0-1 foot bgs, moist. From 2 ft: Yellowish brown.
5				
	570	Drilling increases in difficulty; slow from 7-10 ft bgs.		
10				SILTY CLAY, dark yellowish brown, firm, trace sand, medium plasticity, trace light gray mottling throughout, moist.
	565			
15				
	560			SANDY CLAY, light gray, firm, medium to low plasticity, subrounded to subangular medium to fine sand, trace subangular medium gravel, moist.
20				CLAYEY SAND, light gray to brownish yellow, subrounded , medium sand, some rounded to subrounded gravel, medium plasticity clay, moist.
	555			SILTY SAND, brownish yellow, subrounded to rounded, medium to fine sand, some rounded medium gravel, trace rounded coarse gravel, wet.
25				
	550			SANDY CLAY, dark grayish brown, soft, fine sand, abundant angular rock fragments (limestone), low plasticity, wet.
				No recovery (28.5 to 30 ft).
30		Rock encountered at 32.85 ft bgs.		SANDY CLAY, dark grayish brown, soft, fine sand, abundant angular rock fragments (limestone), low plasticity, wet.
	545			LIMESTONE, medium dark gray, hard, dry.

Bottom of borehole at 32.9 feet below ground surface (ft bgs).

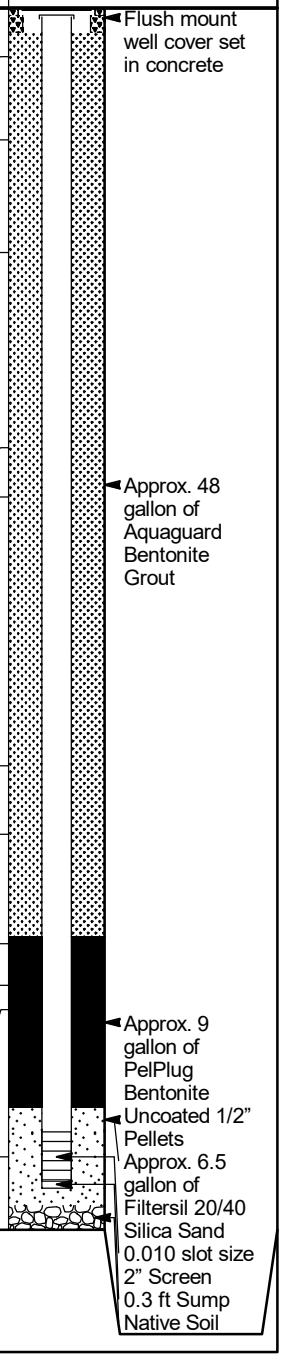


Geosyntec consultants

AS-03

CLIENT Southern Company Services
PROJECT NAME Plant Hammond Well Installation
PROJECT NUMBER GW6581E
PROJECT LOCATION Plant Hammond
DATE STARTED 4/27/24 **COMPLETED** 4/28/24
NORTHING 1548670.10 ft **EASTING** 1940933.87 ft
DRILLER Cascade Drilling
GROUND ELEVATION 591.98 ft **BORING DIAMETER** 4x6 in
DRILLING METHOD Sonic
TOP OF CASING ELEVATION 591.60 ft
SAMPLING METHOD Sonic Core
GEOPHYSICAL CONTRACTOR ---
RIG TYPE Terrasonic Compact Crawler
LOGGED BY T. Kessler **CHECKED BY** C. Hug

DEPTH (ft)	ELEVATION (ft)	REMARKS	MATERIAL DESCRIPTION
0			SILTY SAND, light brownish gray, subrounded to angular, medium to fine sand, some angular medium to coarse gravel, dry.
	590		SANDY CLAY, light yellowish-brown, firm to hard, abundant fine sand, trace subrounded to subangular medium gravel, medium to low plasticity, moist.
5			No recovery (5.4 to 10 ft).
	585		
10		Easy drilling.	SILTY CLAY, dark grayish brown, firm, some angular medium to coarse sand from 10-13 ft bgs, trace fine sand from 10-15 ft bgs, medium plasticity, moist. From 11.2 ft: Abundant angular fine gravel to 12 ft bgs. From 12 ft: Trace subangular fine gravel to 18.2 ft bgs.
	580	Suspect collapse in core material down to 20 ft bgs.	
15			
	575		From 17 ft: Grades to very pale brown.
			No recovery (18 to 20 ft).
20			SILTY CLAY, yellow, firm, trace rounded fine gravel, medium plasticity, reddish yellow and light gray mottling throughout, moist.
	570		
25			From 25.8 ft: Trace fine sand to 30 ft bgs.
	565		From 27.8 ft: Trace subangular medium sand to 30 ft bgs.
30			SANDY CLAY, light yellowish brown, abundant fine sand, trace rounded fine gravel, low plasticity, moist to wet.
	560		
35			SILTY SAND, light yellowish brown, subrounded to angular medium to coarse sand, some rounded medium gravel, wet.
	555		
			No recovery (38.3 to 40 ft).
40			SILTY SAND, light yellowish brown, subrounded to angular medium to coarse sand, some rounded medium gravel, wet.
	550		SILTY CLAY, yellowish-brown, soft, trace fine sand, low plasticity, moist to wet.
45			
	545	Rock/hard drilling at 47.25 ft bgs.	LIMESTONE, medium gray, competent, abundant calcite crystals.
50			Bottom of borehole at 50.0 feet below ground surface (ft bgs).



Geosyntec consultants

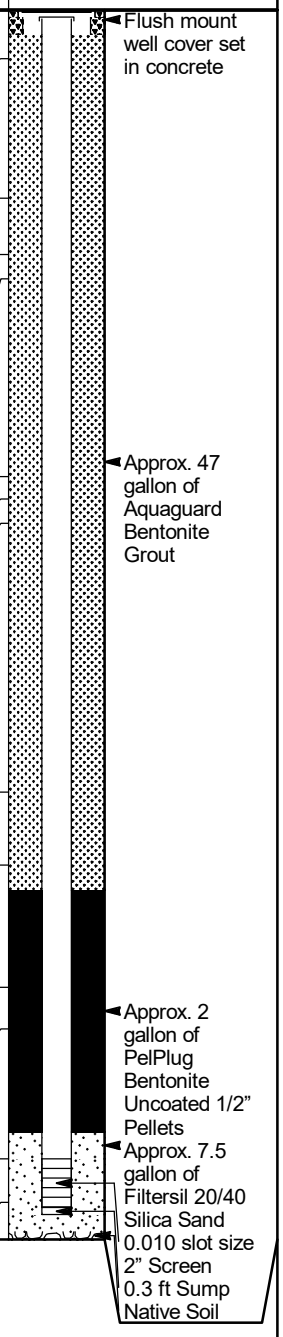
AS-04

CLIENT Southern Company Services
PROJECT NAME Plant Hammond Well Installation
PROJECT NUMBER GW6581E
PROJECT LOCATION Plant Hammond
DATE STARTED 4/28/24 **COMPLETED** 4/28/24
NORTHING 1548680.80 ft **EASTING** 1940930.83 ft
DRILLER Cascade Drilling
GROUND ELEVATION 591.97 ft **BORING DIAMETER** 4x6 in
DRILLING METHOD Sonic
TOP OF CASING ELEVATION 591.50 ft
SAMPLING METHOD Sonic Core
GEOPHYSICAL CONTRACTOR ---
RIG TYPE Terrasonic Compact Crawler
LOGGED BY T. Kessler **CHECKED BY** C. Hug

DEPTH (ft)	ELEVATION (ft)	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION
0	590			SILTY SAND, light gray, fine, some medium to coarse subangular to angular sand, some angular gravel, dry.
				SANDY CLAY, very pale brown, firm, abundant fine sand and silt, trace rounded to subrounded medium gravel, low to medium plasticity, moist. From 4 ft: Yellowish-brown mottling to 7.7 ft bgs.
5	585			No recovery (7.7 to 10 ft).
10	580	Suspect fall in from 10-11 ft bgs.		SILTY SAND, light gray, fine, some medium to coarse subangular to angular sand, some angular gravel, dry.
				SILTY CLAY, very pale brown, soft to firm, trace fine sand, medium plasticity, moist. From 12 ft: Brownish yellow to 13 ft bgs. From 13.5 ft: Trace organic material.
15	575			
20	570			No recovery (19.1 to 20 ft).
				SILTY CLAY, very pale brown, soft to firm, trace fine sand, medium plasticity, moist.
				SILTY CLAY, reddish yellow, firm, some fine sands, medium plasticity, yellowish red and light gray mottling throughout, moist.
25	565			From 25 ft: Trace subangular fine to medium gravel to 30 ft bgs.
30	560			From 29.1 ft: Coarse angular silty sand to 29.3 ft bgs.
				SILTY SAND, brownish yellow, subrounded to subangular medium to fine sand, trace rounded to subrounded coarse gravel, wet.
35	555			No recovery (35 to 40 ft).
40	550			SILTY SAND, brownish yellow, subrounded to subangular medium to fine sand, some rounded medium gravel, wet.
				SILTY CLAY, brownish yellow, firm, trace fine sand, medium to low plasticity, moist.
45	545			SILTY CLAY, very dark brown, firm, medium plasticity, abundant weathered limestone fragments throughout, moist.
50				LIMESTONE, medium gray, hard, abundant calcite throughout, dry.

Bottom of borehole at 50.3 feet below ground surface (ft bgs).

CONSTRUCTION DIAGRAM



Geosyntec consultants

INW-03

CLIENT Southern Company Services
PROJECT NAME Plant Hammond Well Installation
PROJECT NUMBER GW6581E
PROJECT LOCATION Plant Hammond
DATE STARTED 4/30/24 **COMPLETED** 5/6/24
NORTHING 1549052.75 ft **EASTING** 1942388.28 ft
DRILLER Cascade Drilling
GROUND ELEVATION 577.38 ft **BORING DIAMETER** 4x6 in
DRILLING METHOD Sonic
TOP OF CASING ELEVATION 577.07 ft
SAMPLING METHOD Sonic Core
GEOPHYSICAL CONTRACTOR ---
RIG TYPE Terrasonic Compact Crawler
LOGGED BY T. Kessler **CHECKED BY** C. Hug

DEPTH (ft)	ELEVATION (ft)	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	CONSTRUCTION DIAGRAM
0	575	.		SILTY CLAY, yellowish-brown, trace fine sand, trace angular fine gravel, medium to low plasticity, abundant organics from 0-1 foot bgs, moist.	Flush mount well cover set in concrete
5	570				Approx. 11 gallon of Aquaguard Bentonite Grout
10	565			SILTY CLAY, brownish yellow, firm, trace sand, medium plasticity, trace light gray mottling throughout, moist.	Approx. 2.5 gallon of PelPlug Bentonite Uncoated 3/8" Pellets
15	560			SANDY CLAY, light gray, firm, subrounded to subangular medium to fine sand, trace subangular medium gravel, medium to low plasticity, moist.	Approx. 15 gallon of Filtersil 20/40 Silica Sand
20	555			SILTY SAND, brownish yellow, abundant subrounded to rounded medium to coarse sand, some subangular to rounded medium gravel, trace rounded coarse gravel.	0.010 slot size 2" Pre Pack, U-Pack Screen
25	550			SAND, very pale brown, subrounded to subangular medium to fine sand, trace rounded fine gravel, wet. From 24 ft: Black staining. SANDY CLAY, light yellowish-brown, soft, fine sand, some fine subangular to rounded gravel, low plasticity, wet. No recovery (26.3 to 29.5 ft).	0.3 ft Sump

Bottom of borehole at 29.5 feet below ground surface (ft bgs).

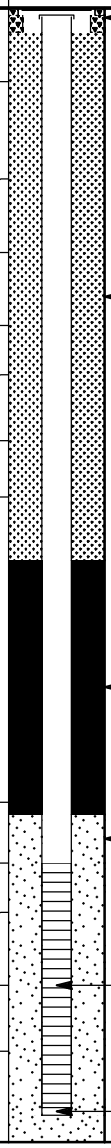
Geosyntec consultants

INW-04

CLIENT Southern Company Services
PROJECT NAME Plant Hammond Well Installation
PROJECT NUMBER GW6581E
PROJECT LOCATION Plant Hammond
DATE STARTED 4/26/24 **COMPLETED** 4/28/24
NORTHING 1548671.73 ft **EASTING** 1940929.98 ft
DRILLER Cascade Drilling
GROUND ELEVATION 592.01 ft **BORING DIAMETER** 4x6 in
DRILLING METHOD Sonic
TOP OF CASING ELEVATION 591.58 ft
SAMPLING METHOD Sonic Core
GEOPHYSICAL CONTRACTOR ---
RIG TYPE Terrasonic Compact Crawler
LOGGED BY T. Kessler **CHECKED BY** C. Hug

DEPTH (ft)	ELEVATION (ft)	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION
0	590			SILTY SAND, dark grayish brown, angular medium to coarse sand, some coarse gravel, dry.
				SANDY CLAY, brownish yellow, firm, trace rounded medium gravel, medium to low plasticity, with organic matter (roots) from 6-6.2 ft bgs, moist.
5	585			From 6 ft: Grades to grayish brown.
				No recovery (7 to 10 ft).
10	580			SILTY SAND, yellowish-brown, some angular medium gravel, dry.
				SANDY CLAY, yellowish-brown, firm, medium to low plasticity, gray mottling throughout, moist.
15	575			SILTY CLAY, brownish yellow, firm, trace fine sand, medium plasticity, grades to pale brown, moist.
				No recovery (17.7 to 20 ft).
20	570			SILTY CLAY, yellow, firm, trace fine sand and rounded medium gravel, sandy with angular medium to coarse gravel from 20-21 ft bgs, medium plasticity, reddish yellow and light gray mottling throughout, moist.
25	565			
30	560	Easy drilling; no return on 6 inch.		From 30 ft: Becoming light gray.
				SANDY CLAY, yellow, firm, abundant fine sand, trace rounded gravel, low plasticity, moist to wet.
35	555			SILTY SAND, yellow, subrounded to subangular medium sand, some rounded medium to fine gravel, wet.
				No recovery (37 to 40 ft).
40	550			SILTY SAND, yellow, subrounded to subangular medium sand, some rounded medium to fine gravel, wet.
				SILTY CLAY, yellow, firm, trace fine sand, medium plasticity, moist to wet.
45				

CONSTRUCTION DIAGRAM



Bottom of borehole at 46.4 feet below ground surface (ft bgs).

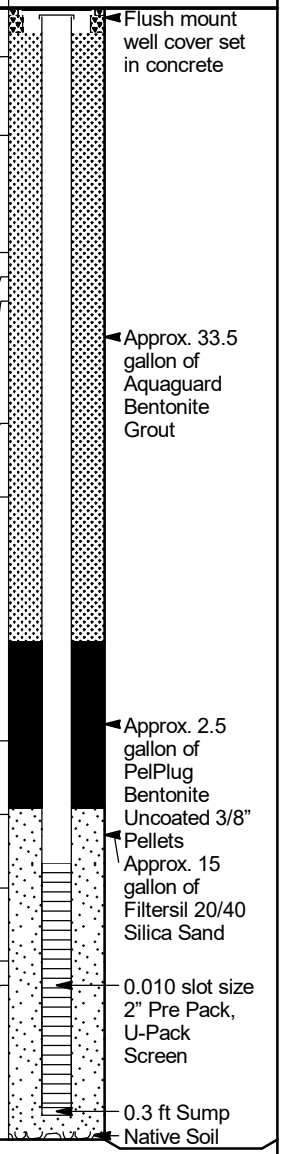
Geosyntec consultants

INW-05

CLIENT Southern Company Services
PROJECT NAME Plant Hammond Well Installation
PROJECT NUMBER GW6581E
PROJECT LOCATION Plant Hammond
DATE STARTED 4/27/24 **COMPLETED** 4/28/24
NORTHING 1548680.07 ft **EASTING** 1940935.89 ft
DRILLER Cascade Drilling
GROUND ELEVATION 591.81 ft **BORING DIAMETER** 4x6 in
DRILLING METHOD Sonic
TOP OF CASING ELEVATION 591.31 ft
SAMPLING METHOD Sonic Core
GEOPHYSICAL CONTRACTOR ---
RIG TYPE Terrasonic Compact Crawler
LOGGED BY T. Kessler **CHECKED BY** C. Hug

DEPTH (ft)	ELEVATION (ft)	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION
0	590	Drill rig chatter from 0-3 ft bgs.		SILTY SAND, brown, subrounded to angular medium to fine sand, some angular medium to coarse gravel, trace rounded medium gravel, dry.
				SANDY CLAY, dark brown, firm, abundant fine sand, trace subrounded to subangular medium gravel, medium to low plasticity, moist.
5	585			No recovery (5.2 to 10 ft).
10	580			SANDY CLAY, dark brown, firm, abundant fine sand, trace subrounded to subangular medium gravel, medium to low plasticity, moist.
				SILTY SAND, brown, abundant subrounded to angular medium to fine sand, some angular medium to coarse gravel, trace rounded medium gravel, dry.
15	575			SILTY CLAY, brown to very pale brown, soft, trace fine sand, medium plasticity, dark yellowish brown mottling throughout, moist. From 13 ft: Trace subrounded fine gravel to 13.5 ft bgs.
				No recovery (17 to 20 ft).
20	570			SILTY CLAY, yellow, firm, abundant fine sand, trace subangular fine to medium gravel, medium plasticity, light gray mottling throughout, moist.
25	565			From 28.4 ft: Light gray, soft, with coarse sand and subrounded fine gravel to 29 ft bgs.
30	560			SILTY SAND, brownish yellow, subrounded to subangular medium to fine sand, trace subrounded fine gravel, wet.
				SILTY SAND, brownish yellow, rounded to subangular coarse sand, trace medium sand, wet.
35	555			SILTY CLAY, brownish yellow, soft, trace coarse sand, medium plasticity, wet.
				No recovery (39 to 40 ft).
40	550			SILTY CLAY, brownish yellow, trace fine sand, medium to low plasticity, wet to moist.
45				

CONSTRUCTION DIAGRAM



Bottom of borehole at 46.3 feet below ground surface (ft bgs).

Geosyntec consultants

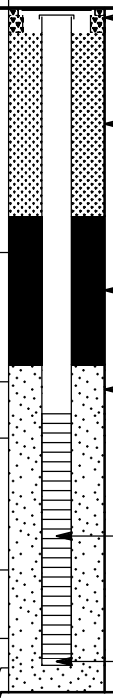
PT-11

CLIENT Southern Company Services
PROJECT NAME Plant Hammond Well Installation
PROJECT NUMBER GW6581E
PROJECT LOCATION Plant Hammond
DATE STARTED 4/30/24 **COMPLETED** 5/7/24
NORTHING 1549055.61 ft **EASTING** 1942390.89 ft
DRILLER Cascade Drilling
GROUND ELEVATION 577.35 ft **BORING DIAMETER** 4x6 in
DRILLING METHOD Sonic
TOP OF CASING ELEVATION 576.96 ft
SAMPLING METHOD Sonic Core
GEOPHYSICAL CONTRACTOR ---
RIG TYPE Terrasonic Compact Crawler
LOGGED BY T. Kessler **CHECKED BY** C. Hug

DEPTH (ft)	ELEVATION (ft)	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION
0	575	0		SILTY CLAY, yellowish-brown, trace fine sand, trace angular fine gravel, medium to low plasticity, abundant organics from 0-1 foot bgs, moist.
5	570			
10	565			SILTY CLAY, brownish yellow, firm, trace sand, medium plasticity, trace light gray mottling throughout, moist.
15	560			SANDY CLAY, light gray, firm, subrounded to subangular medium to fine sand, trace subangular medium gravel, medium to low plasticity, moist.
20	555			SILTY SAND, brownish yellow, subrounded to rounded, fine to coarse sand, some subangular to rounded medium gravel, trace rounded coarse gravel, moist.
25	550			SAND, very pale brown, subrounded to subangular medium to fine sand, trace rounded fine gravel, wet.
				SANDY CLAY, brownish yellow, soft, abundant subangular to rounded fine gravel, trace fine sand, low plasticity, wet.
				No recovery (27 to 28 ft).

Bottom of borehole at 28.0 feet below ground surface (ft bgs).

CONSTRUCTION DIAGRAM



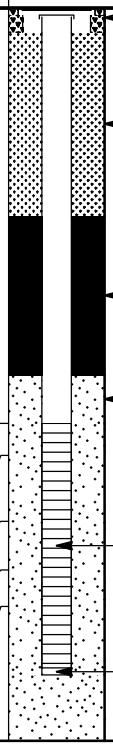
Geosyntec consultants

PT-12

CLIENT Southern Company Services
PROJECT NAME Plant Hammond Well Installation
PROJECT NUMBER GW6581E
PROJECT LOCATION Plant Hammond
DATE STARTED 5/1/24 **COMPLETED** 5/7/24
NORTHING 1549045.43 ft **EASTING** 1942391.10 ft
DRILLER Cascade Drilling
GROUND ELEVATION 577.34 ft **BORING DIAMETER** 4x6 in
DRILLING METHOD Sonic
TOP OF CASING ELEVATION 576.84 ft
SAMPLING METHOD Sonic Core
GEOPHYSICAL CONTRACTOR ---
RIG TYPE Terrasonic Compact Crawler
LOGGED BY T. Kessler **CHECKED BY** C. Hug

DEPTH (ft)	ELEVATION (ft)	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION
0	575	Lots of rig chatter, increasing vibration; hard drilling.		SILTY CLAY, yellowish-brown, trace fine sand, trace angular fine gravel, medium to low plasticity, abundant organics from 0-1 foot bgs, trace black mottling from 0-5 ft bgs, moist.
5	570			From 5 ft: Trace light gray mottling to 10 ft bgs.
10	565			
15	560			SANDY CLAY, light gray, firm, subrounded to subangular medium to fine sand, trace subangular medium gravel, medium to low plasticity, moist.
20	555			SILTY SAND, brownish yellow, abundant subrounded to subangular fine to coarse sand, some subangular to rounded medium gravel, trace rounded coarse gravel, moist to wet.
				SAND, very pale brown, subrounded to subangular medium to fine sand, some rounded fine gravel, wet.
25	550			SILTY SAND, brownish yellow, subrounded to subangular fine to coarse sand, some subangular to rounded medium gravel, trace rounded coarse gravel, moist.
				SANDY CLAY, light yellowish-brown, soft, abundant subangular to rounded fine gravel, trace fine sand, low plasticity, wet. From 25 ft: Dark brown mottling to 27 ft bgs.
30				Bottom of borehole at 30.0 feet below ground surface (ft bgs).

CONSTRUCTION DIAGRAM



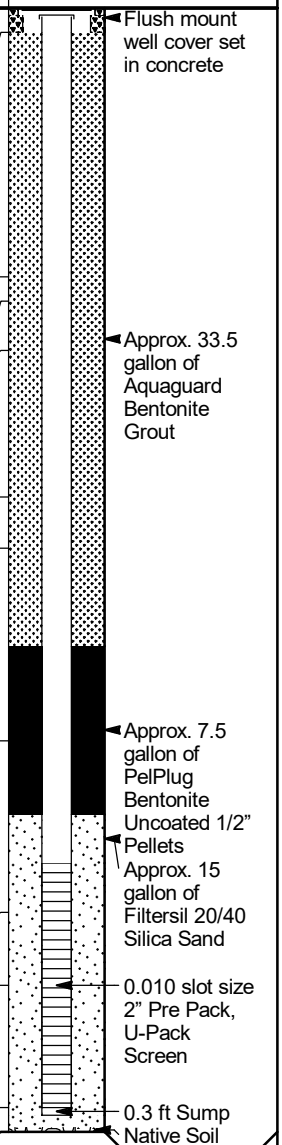
Geosyntec consultants

PT-13

CLIENT Southern Company Services
PROJECT NAME Plant Hammond Well Installation
PROJECT NUMBER GW6581E
PROJECT LOCATION Plant Hammond
DATE STARTED 4/25/24 **COMPLETED** 4/28/24
NORTHING 1548676.04 ft **EASTING** 1940939.23 ft
DRILLER Cascade Drilling
GROUND ELEVATION 591.88 ft **BORING DIAMETER** 4x6 in
DRILLING METHOD Sonic
TOP OF CASING ELEVATION 591.47 ft
SAMPLING METHOD Sonic Core
GEOPHYSICAL CONTRACTOR ---
RIG TYPE Terrasonic Compact Crawler
LOGGED BY T. Kessler **CHECKED BY** C. Hug

DEPTH (ft)	ELEVATION (ft)	REMARKS	MATERIAL DESCRIPTION
0	590		SANDY CLAY, gray, abundant angular to rounded coarse gravel, abundant fine sand and silt, medium to low plasticity, wet.
			CLAY, light brown, firm, trace rounded fine gravel, trace subrounded to subangular medium sand, trace silt, medium to low plasticity, dark reddish-brown mottling throughout, dry.
5	585		
10	580	Very easy drilling from 10-30 ft bgs.	SILTY SAND, pinkish gray, subrounded to subangular medium to coarse sand, some angular fine gravel, wet.
			CLAY, light brownish gray, firm, trace sand and fine silt, medium plasticity, moist.
15	575		No recovery (14 to 20 ft).
20	570		CLAY, light brownish gray, firm, trace sand and fine silt, medium plasticity, moist.
			CLAY, yellowish-brown, firm, trace fine sand and silt, medium plasticity, abundant light gray and red mottling throughout, moist.
25	565	Drilling water observed daylighting around well pad to PT-07.	From 26 ft: Some subrounded medium sand, subrounded fine gravel, dry to moist.
30	560		SILTY SAND, yellowish-brown, some subrounded to rounded fine to coarse gravel, wet.
35	555		From 36 ft: Trace white mottling to 37 ft bgs.
			SILTY CLAY, yellowish-brown, trace fine sand, medium plasticity, moist.
40	550	Daylighting observed above has stopped from 40-46 ft bgs.	SILTY CLAY, yellowish-brown, firm, trace fine sand, brown mottling throughout, moist.
45			LIMESTONE, very dark gray, recovered as angular medium to coarse gravel, dry.

Bottom of borehole at 46.0 feet below ground surface (ft bgs).

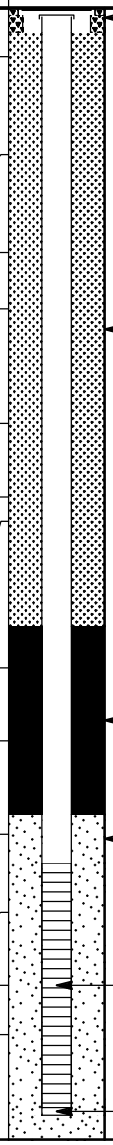


Geosyntec consultants

PT-14

CLIENT Southern Company Services
PROJECT NAME Plant Hammond Well Installation
PROJECT NUMBER GW6581E
PROJECT LOCATION Plant Hammond
DATE STARTED 4/25/24 **COMPLETED** 4/28/24
NORTHING 1548673.63 ft **EASTING** 1940926.52 ft
DRILLER Cascade Drilling
GROUND ELEVATION 592.06 ft **BORING DIAMETER** 4x6 in
DRILLING METHOD Sonic
TOP OF CASING ELEVATION 591.62 ft
SAMPLING METHOD Sonic Core
GEOPHYSICAL CONTRACTOR ---
RIG TYPE Terrasonic Compact Crawler
LOGGED BY T. Kessler **CHECKED BY** C. Hug

DEPTH (ft)	ELEVATION (ft)	REMARKS	MATERIAL DESCRIPTION
0	590	Likely fill from 0-2 ft bgs.	SILTY SAND, light gray, fine sand, some angular medium gravel, dry.
			SANDY CLAY, brown, firm to hard, trace subrounded medium to fine gravel, medium to low plasticity, moist.
5			From 5.2 ft: Trace subangular medium sand ~1 inch thick.
	585		No recovery (6 to 10 ft).
10		Rods fall ~1 foot during over drill from 10-11 ft bgs.	SILTY SAND, light yellowish-brown, subangular fine to medium sand, some subrounded fine to medium gravel, yellowish-brown mottling throughout, dry.
	580		CLAY, yellowish-brown, firm, medium plasticity, abundant silt from 12.3-15 ft bgs, trace fine sand, gray mottling throughout, moist.
15		Driller describes drilling as "tight" from 16-34 ft bgs.	
	575		No recovery (17 to 20 ft).
20			CLAY, yellowish-brown, firm, medium plasticity, abundant silt from 12.3-15 ft bgs, trace fine throughout, light olive brown mottling throughout, moist.
	570		CLAY, reddish yellow, firm, trace silt and fine sand, medium to low plasticity, gray mottling throughout, moist.
25			
	565		No recovery (27 to 30 ft).
30			CLAY, gray, firm, trace silt and fine sand, medium plasticity, reddish yellow mottling throughout, moist.
	560		
35		Grades to coarser with depth from 35-39 ft bgs.	SILTY SAND, brownish yellow, subrounded to subangular fine to medium sand, some subrounded to rounded medium to coarse gravel, wet.
	555		From 36 ft: Trace rounded coarse gravel to 37 ft bgs.
			No recovery (37 to 40 ft).
40			SILTY SAND, brownish yellow, subrounded to subangular fine to medium sand, wet.
	550		SILTY CLAY, yellow, soft to firm grading to firm with depth, trace fine sand, medium plasticity, moist.
45			From 45 ft: Trace subrounded to subangular gravel to 46 ft bgs.



CONSTRUCTION DIAGRAM

- Flush mount well cover set in concrete
- Approx. 32.5 gallon of Aquaguard Bentonite Grout
- Approx. 8 gallon of PelPlug Bentonite Uncoated 3/8" Pellets
- Approx. 15 gallon of Filtersil 20/40 Silica Sand
- 0.010 slot size 2" Pre Pack, U-Pack Screen
- 0.3 ft Sump

Bottom of borehole at 46.3 feet below ground surface (ft bgs).

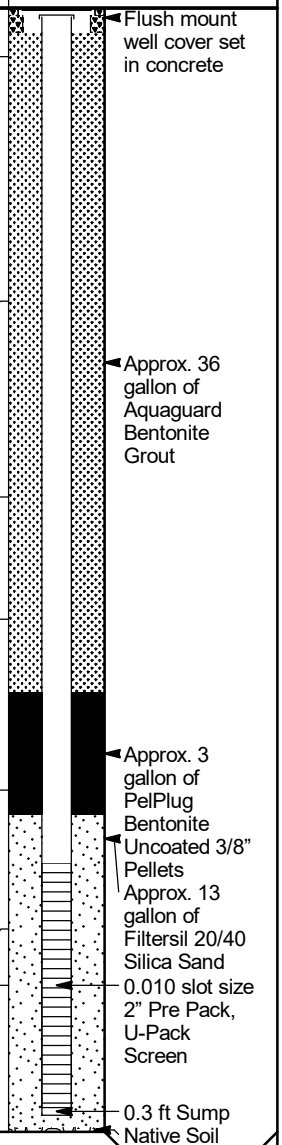
Geosyntec consultants

PT-15

CLIENT Southern Company Services
PROJECT NAME Plant Hammond Well Installation
PROJECT NUMBER GW6581E
PROJECT LOCATION Plant Hammond
DATE STARTED 4/24/24 **COMPLETED** 4/28/24
NORTHING 1548668.35 ft **EASTING** 1940937.45 ft
DRILLER Cascade Drilling
GROUND ELEVATION 591.91 ft **BORING DIAMETER** 4x6 in
DRILLING METHOD Sonic
TOP OF CASING ELEVATION 591.37 ft
SAMPLING METHOD Sonic Core
GEOPHYSICAL CONTRACTOR ---
RIG TYPE Terrasonic Compact Crawler
LOGGED BY T. Kessler **CHECKED BY** C. Hug

DEPTH (ft)	ELEVATION (ft)	REMARKS	MATERIAL DESCRIPTION
0	591	Likely fill from 0-2 ft bgs.	SILTY SAND, gray, fine sand, some angular fine to medium gravel, moist.
	590		CLAY, light reddish-brown, trace fine sand and subangular gravel, medium to low plasticity, dark reddish-brown mottling throughout, moist.
5	585		
10	580		From 10 ft: Moist to wet. From 11 ft: Grades to gray. SANDY CLAY, brown grading to reddish yellow, abundant fine sand, trace subangular medium gravel, trace silt, medium plasticity, trace organic material (roots), moist.
15	575	Hard drilling with 6-inch override from 13-18 ft bgs.	
20	570		SILTY CLAY, very pale brown, soft, abundant angular medium gravel, abundant fine sand, trace subangular medium sand, low plasticity, wet.
25	565		CLAY, reddish yellow, firm, trace subangular gravel, trace fine sand, medium plasticity, trace pinkish white mottling throughout, moist.
30	560	Easy drilling/less resistance from 31-40 ft bgs.	SILTY SAND, brownish yellow, abundant subangular to angular fine to coarse sand, some angular medium to coarse gravel, wet. From 33.7 ft: Black to 34 feet bgs.
35	555		From 37 ft: Abundant rounded gravel to 37.8 ft bgs. SILTY CLAY, yellow, soft, some fine sand, medium to low plasticity, moist.
40	550		SILTY CLAY, yellow grading to gray, soft, trace rounded fine gravel, trace fine sand, medium to low plasticity, moist.
45			

CONSTRUCTION DIAGRAM



Bottom of borehole at 46.0 feet below ground surface (ft bgs).

APPENDIX C

Well Development and Equipment Calibration Forms

Low-Flow Test Report:

Test Date / Time: 5/10/2024 10:41:35 AM
Project: Plant Hammond
Operator Name: Jamie Newsome

Location Name: AS-01 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 29 ft** **Total Depth: 31 ft** **Initial Depth to Water: 11.25 ft**	**Pump Type: Monsoon** **Tubing Type: Polyethylene** **Pump Intake From TOC: 30 ft** **Estimated Total Volume Pumped: 112.5 gal** **Flow Cell Volume: 90 ml** **Final Flow Rate: 2.5 gal/min Final Draw Down: 2.58 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 966105**

Test Notes:
Well Development, Purge 1

Weather Conditions:
Cloudy, 75 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.2	+/- 10	+/- 10	+/- 0.3	
5/10/2024 10:41 AM	00:00	7.20 pH	18.52 °C	803.10 µS/cm	0.01 mg/L	877.00 NTU	-37.1 mV	12.75 ft	2.50 gal/min
5/10/2024 10:46 AM	05:00	7.18 pH	18.58 °C	784.96 µS/cm	-0.01 mg/L	108.00 NTU	-57.8 mV	12.75 ft	2.50 gal/min
5/10/2024 10:51 AM	10:00	7.18 pH	18.52 °C	783.98 µS/cm	-0.01 mg/L	91.00 NTU	-30.5 mV	12.75 ft	2.50 gal/min
5/10/2024 10:56 AM	15:00	7.44 pH	19.23 °C	790.32 µS/cm	0.40 mg/L	81.00 NTU	26.9 mV	12.75 ft	2.50 gal/min
5/10/2024 11:01 AM	20:00	7.22 pH	18.52 °C	785.34 µS/cm	-0.01 mg/L	22.10 NTU	-31.3 mV	12.75 ft	2.50 gal/min
5/10/2024 11:06 AM	25:00	7.22 pH	18.52 °C	781.98 µS/cm	-0.01 mg/L	29.10 NTU	-33.7 mV	13.70 ft	2.50 gal/min
5/10/2024 11:11 AM	30:00	7.19 pH	18.55 °C	779.75 µS/cm	-0.02 mg/L	25.90 NTU	-32.5 mV	13.70 ft	2.50 gal/min
5/10/2024 11:16 AM	35:00	7.19 pH	18.56 °C	776.73 µS/cm	-0.02 mg/L	11.48 NTU	-13.2 mV	13.83 ft	2.50 gal/min
5/10/2024 11:21 AM	40:00	7.18 pH	18.57 °C	775.47 µS/cm	-0.02 mg/L	7.48 NTU	-27.9 mV	13.83 ft	2.50 gal/min
5/10/2024 11:26 AM	45:00	7.17 pH	18.56 °C	773.67 µS/cm	-0.02 mg/L	4.99 NTU	-25.7 mV	13.83 ft	2.50 gal/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 5/10/2024 11:36:06 AM
Project: Plant Hammond
Operator Name: Jamie Newsome

Location Name: AS-01 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 29 ft** **Total Depth: 31 ft** **Initial Depth to Water: 11.25 ft**	**Pump Type: Monsoon** **Tubing Type: Polyethylene** **Pump Intake From TOC: 30 ft** **Estimated Total Volume Pumped: 25 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 250 ml/min** **Final Draw Down: 0.00 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 966105**

Test Notes:
Well Development, Purge 2

Weather Conditions:
Sunny, 80 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.2	+/- 10	+/- 10	+/- 0.3	
5/10/2024 11:36 AM	00:00	7.21 pH	19.99 °C	785.76 µS/cm	0.00 mg/L	10.84 NTU	-14.8 mV	11.25 ft	250.00 ml/min
5/10/2024 11:41 AM	05:00	7.24 pH	20.09 °C	781.31 µS/cm	0.01 mg/L	16.10 NTU	-9.5 mV	11.25 ft	250.00 ml/min
5/10/2024 11:46 AM	10:00	7.27 pH	19.95 °C	786.57 µS/cm	0.01 mg/L	23.20 NTU	-16.3 mV	11.25 ft	250.00 ml/min
5/10/2024 11:51 AM	15:00	7.29 pH	20.07 °C	791.85 µS/cm	0.01 mg/L	29.40 NTU	-8.1 mV	11.25 ft	250.00 ml/min
5/10/2024 11:56 AM	20:00	7.30 pH	20.26 °C	795.51 µS/cm	0.02 mg/L	32.90 NTU	6.3 mV	11.25 ft	250.00 ml/min
5/10/2024 12:01 PM	25:00	7.30 pH	19.97 °C	795.45 µS/cm	0.01 mg/L	29.50 NTU	4.7 mV	11.25 ft	250.00 ml/min
5/10/2024 12:06 PM	30:00	7.31 pH	20.11 °C	796.56 µS/cm	0.01 mg/L	27.20 NTU	9.4 mV	11.25 ft	250.00 ml/min
5/10/2024 12:11 PM	35:00	7.31 pH	20.04 °C	794.22 µS/cm	0.01 mg/L	24.50 NTU	13.7 mV	11.25 ft	250.00 ml/min
5/10/2024 12:16 PM	40:00	7.32 pH	19.97 °C	793.30 µS/cm	0.01 mg/L	17.70 NTU	16.8 mV	11.25 ft	250.00 ml/min
5/10/2024 12:21 PM	45:00	7.31 pH	20.16 °C	796.76 µS/cm	0.01 mg/L	14.10 NTU	18.8 mV	11.25 ft	250.00 ml/min
5/10/2024 12:26 PM	50:00	7.32 pH	19.72 °C	793.65 µS/cm	0.01 mg/L	15.66 NTU	20.6 mV	11.25 ft	250.00 ml/min
5/10/2024 12:31 PM	55:00	7.32 pH	19.32 °C	795.79 µS/cm	0.02 mg/L	11.30 NTU	20.8 mV	11.25 ft	250.00 ml/min
5/10/2024 12:36 PM	01:00:00	7.31 pH	19.70 °C	799.18 µS/cm	0.02 mg/L	10.54 NTU	20.5 mV	11.25 ft	250.00 ml/min

5/10/2024 12:41 PM	01:05:00	7.31 pH	19.90 °C	798.44 µS/cm	0.02 mg/L	8.90 NTU	20.6 mV	11.25 ft	250.00 ml/min
5/10/2024 12:46 PM	01:10:00	7.31 pH	20.07 °C	797.58 µS/cm	0.02 mg/L	6.96 NTU	21.2 mV	11.25 ft	250.00 ml/min
5/10/2024 12:51 PM	01:15:00	7.32 pH	19.41 °C	796.94 µS/cm	0.01 mg/L	7.96 NTU	21.9 mV	11.25 ft	250.00 ml/min
5/10/2024 12:56 PM	01:20:00	7.32 pH	19.96 °C	795.55 µS/cm	0.01 mg/L	6.71 NTU	21.9 mV	11.25 ft	250.00 ml/min
5/10/2024 1:01 PM	01:25:00	7.31 pH	19.43 °C	798.81 µS/cm	0.01 mg/L	5.89 NTU	22.3 mV	11.25 ft	250.00 ml/min
5/10/2024 1:06 PM	01:30:00	7.32 pH	19.67 °C	797.87 µS/cm	0.02 mg/L	5.41 NTU	22.2 mV	11.25 ft	250.00 ml/min
5/10/2024 1:11 PM	01:35:00	7.31 pH	19.99 °C	798.78 µS/cm	0.01 mg/L	5.39 NTU	22.3 mV	11.25 ft	250.00 ml/min
5/10/2024 1:16 PM	01:40:00	7.32 pH	19.53 °C	796.14 µS/cm	0.01 mg/L		23.4 mV	11.25 ft	250.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 5/13/2024 1:53:35 PM
Project: Plant Hammond
Operator Name: Jamie Newsome

Location Name: AS-02 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 2 ft** **Top of Screen: 32 ft** **Total Depth: 34 ft** **Initial Depth to Water: 11.00 ft**	**Pump Type: Monsoon** **Tubing Type: Polyethylene** **Pump Intake From TOC: 33 ft** **Estimated Total Volume Pumped: 90 gal** **Flow Cell Volume: 90 ml** **Final Flow Rate: 2 gal/min** **Final Draw Down: 0.40 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 966105**

Test Notes:
Well Development, Purge 1

Weather Conditions:
Cloudy, 60 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.2	+/- 10	+/- 10	+/- 0.3	
5/13/2024 1:53 PM	00:00	7.16 pH	18.24 °C	688.19 µS/cm	0.02 mg/L	2,086.0 NTU	10.6 mV	11.32 ft	2.00 gal/min
5/13/2024 1:58 PM	05:00	7.13 pH	18.17 °C	683.36 µS/cm	-0.00 mg/L	61.00 NTU	9.5 mV	11.32 ft	2.00 gal/min
5/13/2024 2:03 PM	10:00	7.13 pH	18.08 °C	684.83 µS/cm	-0.01 mg/L	38.80 NTU	9.0 mV	11.35 ft	2.00 gal/min
5/13/2024 2:08 PM	15:00	7.12 pH	18.10 °C	684.54 µS/cm	-0.01 mg/L	85.00 NTU	8.7 mV	11.35 ft	2.00 gal/min
5/13/2024 2:13 PM	20:00	7.12 pH	18.11 °C	686.84 µS/cm	-0.01 mg/L	45.00 NTU	11.9 mV	11.35 ft	2.00 gal/min
5/13/2024 2:18 PM	25:00	7.11 pH	18.12 °C	686.59 µS/cm	-0.02 mg/L	18.10 NTU	12.8 mV	11.35 ft	2.00 gal/min
5/13/2024 2:23 PM	30:00	7.11 pH	18.11 °C	684.15 µS/cm	-0.02 mg/L	11.60 NTU	12.6 mV	11.35 ft	2.00 gal/min
5/13/2024 2:28 PM	35:00	7.11 pH	18.11 °C	684.87 µS/cm	-0.02 mg/L	9.41 NTU	13.1 mV	11.40 ft	2.00 gal/min
5/13/2024 2:33 PM	40:00	7.11 pH	18.11 °C	686.55 µS/cm	-0.02 mg/L	6.71 NTU	13.2 mV	11.40 ft	2.00 gal/min
5/13/2024 2:38 PM	45:00	7.11 pH	18.10 °C	684.20 µS/cm	-0.02 mg/L	4.22 NTU	12.9 mV	11.40 ft	2.00 gal/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 5/13/2024 2:54:11 PM
Project: Plant Hammond
Operator Name: Jamie Newsome

Location Name: AS-02 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 2 ft** **Top of Screen: 32 ft** **Total Depth: 34 ft** **Initial Depth to Water: 11.11 ft**	**Pump Type: Monsoon** **Tubing Type: Polyethylene** **Pump Intake From TOC: 33 ft** **Estimated Total Volume Pumped: 21.25 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 250 ml/min** **Final Draw Down: 0.04 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 966105**

Test Notes:
Well Development, Purge 2

Weather Conditions:
Cloudy, 60 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.2	+/- 10	+/- 10	+/- 0.3	
5/13/2024 2:54 PM	00:00	7.09 pH	18.78 °C	683.25 µS/cm	0.02 mg/L	4.47 NTU	0.4 mV	11.11 ft	250.00 ml/min
5/13/2024 2:59 PM	05:00	7.08 pH	18.83 °C	686.16 µS/cm	0.02 mg/L	11.80 NTU	-0.2 mV	11.11 ft	250.00 ml/min
5/13/2024 3:04 PM	10:00	7.07 pH	18.84 °C	684.77 µS/cm	0.03 mg/L	10.80 NTU	-0.4 mV	11.11 ft	250.00 ml/min
5/13/2024 3:09 PM	15:00	7.06 pH	18.79 °C	685.11 µS/cm	0.03 mg/L	13.37 NTU	-6.1 mV	11.11 ft	250.00 ml/min
5/13/2024 3:14 PM	20:00	7.06 pH	18.75 °C	685.82 µS/cm	0.03 mg/L	13.17 NTU	-4.6 mV	11.11 ft	250.00 ml/min
5/13/2024 3:19 PM	25:00	7.05 pH	18.72 °C	686.30 µS/cm	0.03 mg/L	11.00 NTU	-2.7 mV	11.11 ft	250.00 ml/min
5/13/2024 3:24 PM	30:00	7.05 pH	18.74 °C	686.60 µS/cm	0.04 mg/L	15.34 NTU	-0.9 mV	11.11 ft	250.00 ml/min
5/13/2024 3:29 PM	35:00	7.05 pH	18.74 °C	687.19 µS/cm	0.04 mg/L	13.25 NTU	0.7 mV	11.11 ft	250.00 ml/min
5/13/2024 3:34 PM	40:00	7.05 pH	18.79 °C	687.44 µS/cm	0.04 mg/L	11.65 NTU	1.9 mV	11.11 ft	250.00 ml/min
5/13/2024 3:39 PM	45:00	7.04 pH	18.79 °C	687.50 µS/cm	0.04 mg/L	11.08 NTU	2.7 mV	11.11 ft	250.00 ml/min
5/13/2024 3:44 PM	50:00	7.04 pH	18.79 °C	687.98 µS/cm	0.05 mg/L	11.35 NTU	3.5 mV	11.15 ft	250.00 ml/min
5/13/2024 3:49 PM	55:00	7.05 pH	18.81 °C	688.57 µS/cm	0.04 mg/L	10.49 NTU	7.5 mV	11.15 ft	250.00 ml/min
5/13/2024 3:54 PM	01:00:00	7.05 pH	18.88 °C	688.11 µS/cm	0.04 mg/L	9.80 NTU	4.5 mV	11.15 ft	250.00 ml/min

5/13/2024 3:59 PM	01:05:00	7.06 pH	18.94 °C	688.53 µS/cm	0.04 mg/L	8.79 NTU	5.1 mV	11.15 ft	250.00 ml/min
5/13/2024 4:04 PM	01:10:00	7.06 pH	19.01 °C	688.26 µS/cm	0.04 mg/L	8.07 NTU	8.6 mV	11.15 ft	250.00 ml/min
5/13/2024 4:09 PM	01:15:00	7.06 pH	19.05 °C	688.40 µS/cm	0.04 mg/L	7.97 NTU	6.6 mV	11.15 ft	250.00 ml/min
5/13/2024 4:14 PM	01:20:00	7.06 pH	19.14 °C	688.63 µS/cm	0.04 mg/L	5.43 NTU	6.9 mV	11.15 ft	250.00 ml/min
5/13/2024 4:19 PM	01:25:00	7.06 pH	19.23 °C	688.61 µS/cm	0.04 mg/L	4.94 NTU	7.1 mV	11.15 ft	250.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 4/30/2024 1:08:29 PM
Project: Plant Hammond
Operator Name: Elisabeth Russell

Location Name: AS-03 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 34.95 ft** **Total Depth: 44.95 ft** **Initial Depth to Water: 25.28 ft**	**Pump Type: Monsoon** **Tubing Type: Polyethylene** **Pump Intake From TOC: 43 ft** **Estimated Total Volume Pumped: 490 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 5000 ml/min** **Final Draw Down: 2.12 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 883546**

Test Notes:
Well Development

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.5	
4/30/2024 1:08 PM	00:00	6.90 pH	25.15 °C	730.98 µS/cm	-0.03 mg/L	107.00 NTU	4.0 mV	27.08 ft	5,000.0 ml/min
4/30/2024 1:14 PM	06:06	6.88 pH	24.18 °C	783.00 µS/cm	-0.05 mg/L	105.10 NTU	1.4 mV	27.30 ft	5,000.0 ml/min
4/30/2024 1:19 PM	11:06	6.88 pH	22.64 °C	812.64 µS/cm	-0.06 mg/L	77.30 NTU	2.3 mV	27.50 ft	5,000.0 ml/min
4/30/2024 1:24 PM	16:06	6.88 pH	22.54 °C	820.73 µS/cm	-0.06 mg/L	50.00 NTU	3.8 mV	27.58 ft	5,000.0 ml/min
4/30/2024 1:29 PM	21:06	6.88 pH	22.28 °C	829.41 µS/cm	-0.06 mg/L	34.60 NTU	5.2 mV	27.62 ft	5,000.0 ml/min
4/30/2024 1:34 PM	26:06	6.87 pH	22.13 °C	835.25 µS/cm	0.03 mg/L	73.90 NTU	32.7 mV	27.50 ft	5,000.0 ml/min
4/30/2024 1:39 PM	31:06	6.88 pH	21.97 °C	840.38 µS/cm	-0.06 mg/L	18.80 NTU	6.7 mV	27.55 ft	5,000.0 ml/min
4/30/2024 1:44 PM	36:06	6.88 pH	21.79 °C	844.30 µS/cm	0.58 mg/L	39.70 NTU	5.5 mV	27.57 ft	5,000.0 ml/min
4/30/2024 1:49 PM	41:06	6.87 pH	21.75 °C	847.97 µS/cm	-0.06 mg/L	33.80 NTU	8.2 mV	27.60 ft	5,000.0 ml/min
4/30/2024 1:54 PM	46:06	6.87 pH	21.61 °C	849.37 µS/cm	-0.05 mg/L	14.40 NTU	8.1 mV	27.62 ft	5,000.0 ml/min
4/30/2024 1:59 PM	51:06	6.87 pH	21.73 °C	850.76 µS/cm	-0.05 mg/L	78.60 NTU	8.8 mV	27.63 ft	5,000.0 ml/min
4/30/2024 2:04 PM	56:06	6.87 pH	21.67 °C	851.17 µS/cm	-0.06 mg/L	19.50 NTU	10.5 mV	27.64 ft	5,000.0 ml/min
4/30/2024 2:09 PM	01:01:06	6.87 pH	21.71 °C	852.86 µS/cm	-0.07 mg/L	13.30 NTU	11.0 mV	27.65 ft	5,000.0 ml/min
4/30/2024 2:14 PM	01:06:06	6.88 pH	21.83 °C	851.85 µS/cm	0.01 mg/L	18.30 NTU	9.9 mV	27.66 ft	5,000.0 ml/min
4/30/2024 2:19 PM	01:11:06	6.87 pH	21.68 °C	856.52 µS/cm	-0.07 mg/L	16.70 NTU	12.1 mV	27.60 ft	5,000.0 ml/min

4/30/2024 2:24 PM	01:16:06	6.87 pH	21.70 °C	856.98 µS/cm	-0.07 mg/L	13.40 NTU	12.5 mV	27.40 ft	5,000.0 ml/min
4/30/2024 2:29 PM	01:21:06	6.87 pH	21.64 °C	856.30 µS/cm	-0.07 mg/L	7.11 NTU	12.7 mV	27.40 ft	5,000.0 ml/min
4/30/2024 2:34 PM	01:26:06	6.88 pH	21.68 °C	856.80 µS/cm	-0.07 mg/L	6.12 NTU	13.3 mV	27.40 ft	5,000.0 ml/min
4/30/2024 2:39 PM	01:31:06	6.88 pH	21.67 °C	857.41 µS/cm	-0.07 mg/L	4.74 NTU	13.5 mV	27.40 ft	5,000.0 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 4/30/2024 10:41:40 AM
Project: Plant Hammond
Operator Name: Zain W.

Location Name: AS-04 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 38.5 ft** **Total Depth: 48.5 ft** **Initial Depth to Water: 25.87 ft**	**Pump Type: Monsoon** **Tubing Type: Polyethylene** **Pump Intake From TOC: 43.5 ft** **Estimated Total Volume Pumped: 96 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 8000 ml/min** **Final Draw Down: 0.91 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 966105**

Test Notes:
Well Development

Weather Conditions:
Rain, 65 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
4/30/2024 10:41 AM	00:00	7.78 pH	18.46 °C	3.57 µS/cm	8.76 mg/L	++++	87.2 mV	25.87 ft	8,000.0 ml/min
4/30/2024 10:46 AM	05:00	7.89 pH	18.30 °C	2.86 µS/cm	9.13 mg/L	++++	72.9 mV	25.87 ft	8,000.0 ml/min
4/30/2024 10:51 AM	10:00	7.13 pH	18.66 °C	677.09 µS/cm	0.07 mg/L	++++	48.0 mV	25.87 ft	8,000.0 ml/min
4/30/2024 10:56 AM	15:00	7.18 pH	18.65 °C	570.07 µS/cm	0.51 mg/L	++++	-36.9 mV	25.87 ft	8,000.0 ml/min
4/30/2024 11:01 AM	20:00	6.93 pH	18.56 °C	704.43 µS/cm	0.00 mg/L	870.00 NTU	-60.6 mV	25.87 ft	8,000.0 ml/min
4/30/2024 11:06 AM	25:00	6.99 pH	18.54 °C	621.54 µS/cm	1.96 mg/L	++++	-54.3 mV	25.87 ft	8,000.0 ml/min
4/30/2024 11:11 AM	30:00	6.92 pH	18.51 °C	706.93 µS/cm	-0.00 mg/L	++++	-71.8 mV	25.87 ft	8,000.0 ml/min
4/30/2024 11:16 AM	35:00	6.91 pH	18.51 °C	710.60 µS/cm	-0.01 mg/L	986.00 NTU	-54.2 mV	25.87 ft	8,000.0 ml/min
4/30/2024 11:21 AM	40:00	6.90 pH	18.52 °C	712.85 µS/cm	-0.01 mg/L	46.80 NTU	-79.4 mV	25.87 ft	8,000.0 ml/min
4/30/2024 11:26 AM	45:00	6.88 pH	18.52 °C	713.89 µS/cm	-0.01 mg/L	13.50 NTU	-57.7 mV	25.87 ft	8,000.0 ml/min
4/30/2024 11:31 AM	50:00	6.87 pH	18.52 °C	714.20 µS/cm	-0.01 mg/L	12.90 NTU	-81.1 mV	25.87 ft	8,000.0 ml/min
4/30/2024 11:36 AM	55:00	6.85 pH	18.52 °C	714.25 µS/cm	-0.01 mg/L	12.10 NTU	-81.8 mV	25.87 ft	8,000.0 ml/min
4/30/2024 11:41 AM	01:00:00	6.82 pH	18.52 °C	713.14 µS/cm	-0.01 mg/L	--	-58.2 mV	25.87 ft	8,000.0 ml/min

4/30/2024 11:46 AM	01:05:00	6.80 pH	18.52 °C	713.07 µS/cm	-0.01 mg/L	--	-80.0 mV	25.87 ft	8,000.0 ml/min
4/30/2024 11:51 AM	01:10:00	6.77 pH	18.54 °C	712.62 µS/cm	-0.01 mg/L	11.00 NTU	-62.8 mV	27.34 ft	8,000.0 ml/min
4/30/2024 11:56 AM	01:15:00	6.76 pH	18.55 °C	714.46 µS/cm	-0.01 mg/L	--	-50.7 mV	27.34 ft	8,000.0 ml/min
4/30/2024 12:01 PM	01:20:00	6.75 pH	18.52 °C	715.77 µS/cm	-0.01 mg/L	12.40 NTU	-72.6 mV	27.34 ft	8,000.0 ml/min
4/30/2024 12:06 PM	01:25:00	6.89 pH	18.84 °C	717.14 µS/cm	-0.01 mg/L	83.30 NTU	-57.2 mV	27.34 ft	8,000.0 ml/min
4/30/2024 12:11 PM	01:30:00	6.97 pH	19.18 °C	716.28 µS/cm	-0.01 mg/L	61.30 NTU	-84.9 mV	26.56 ft	8,000.0 ml/min
4/30/2024 12:16 PM	01:35:00	6.96 pH	19.17 °C	712.07 µS/cm	-0.01 mg/L	16.60 NTU	-83.8 mV	26.56 ft	8,000.0 ml/min
4/30/2024 12:21 PM	01:40:00	6.96 pH	19.27 °C	709.42 µS/cm	-0.01 mg/L	16.40 NTU	-84.9 mV	26.56 ft	8,000.0 ml/min
4/30/2024 12:26 PM	01:45:00	6.95 pH	19.93 °C	716.72 µS/cm	0.00 mg/L	35.20 NTU	-88.9 mV	26.56 ft	8,000.0 ml/min
4/30/2024 12:31 PM	01:50:00	6.96 pH	18.83 °C	703.66 µS/cm	-0.01 mg/L	12.98 NTU	-86.2 mV	26.56 ft	8,000.0 ml/min
4/30/2024 12:36 PM	01:55:00	6.96 pH	18.85 °C	702.93 µS/cm	-0.01 mg/L	8.91 NTU	-88.6 mV	26.56 ft	8,000.0 ml/min
4/30/2024 12:41 PM	02:00:00	6.96 pH	18.74 °C	701.17 µS/cm	-0.01 mg/L	3.40 NTU	-64.8 mV	26.78 ft	8,000.0 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 5/13/2024 10:03:08 AM
Project: Plant Hammond
Operator Name: Jamie Newsome

Location Name: INW-03 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 2 ft** **Top of Screen: 17 ft** **Total Depth: 27 ft** **Initial Depth to Water: 11.15 ft**	**Pump Type: Monsoon** **Tubing Type: Polyethylene** **Pump Intake From TOC: 22 ft** **Estimated Total Volume Pumped: 120 gal** **Flow Cell Volume: 90 ml** **Final Flow Rate: 2 gal/min** **Final Draw Down: 0.55 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 966105**

Test Notes:
Well Development, Purge 1

Weather Conditions:
Light rain, 60 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.2	+/- 10	+/- 10	+/- 0.3	
5/13/2024 10:03 AM	00:00	7.62 pH	18.08 °C	745.76 µS/cm	0.03 mg/L	263.00 NTU	20.6 mV	11.65 ft	2.00 gal/min
5/13/2024 10:08 AM	05:00	7.58 pH	18.07 °C	717.23 µS/cm	0.01 mg/L	135.00 NTU	21.3 mV	11.65 ft	2.00 gal/min
5/13/2024 10:13 AM	10:00	7.55 pH	18.08 °C	715.83 µS/cm	-0.00 mg/L	41.30 NTU	10.1 mV	11.65 ft	2.00 gal/min
5/13/2024 10:18 AM	15:00	7.71 pH	18.07 °C	713.84 µS/cm	-0.01 mg/L	73.30 NTU	-6.0 mV	11.65 ft	2.00 gal/min
5/13/2024 10:23 AM	20:00	7.58 pH	18.07 °C	711.66 µS/cm	-0.01 mg/L	65.50 NTU	1.7 mV	11.65 ft	2.00 gal/min
5/13/2024 10:28 AM	25:00	7.57 pH	18.06 °C	712.92 µS/cm	-0.01 mg/L	19.70 NTU	-16.2 mV	11.70 ft	2.00 gal/min
5/13/2024 10:33 AM	30:00	7.58 pH	18.04 °C	711.15 µS/cm	-0.01 mg/L	15.00 NTU	-10.4 mV	11.70 ft	2.00 gal/min
5/13/2024 10:38 AM	35:00	7.59 pH	18.06 °C	713.24 µS/cm	-0.01 mg/L	12.00 NTU	-24.6 mV	11.70 ft	2.00 gal/min
5/13/2024 10:43 AM	40:00	7.59 pH	18.05 °C	713.65 µS/cm	-0.02 mg/L	10.94 NTU	-25.5 mV	11.70 ft	2.00 gal/min
5/13/2024 10:48 AM	45:00	7.59 pH	18.05 °C	712.34 µS/cm	-0.02 mg/L	8.49 NTU	-13.0 mV	11.70 ft	2.00 gal/min
5/13/2024 10:53 AM	50:00	7.59 pH	18.05 °C	710.78 µS/cm	-0.02 mg/L	7.61 NTU	-12.4 mV	11.70 ft	2.00 gal/min
5/13/2024 10:58 AM	55:00	7.58 pH	18.05 °C	711.66 µS/cm	-0.02 mg/L	6.09 NTU	-11.9 mV	11.70 ft	2.00 gal/min
5/13/2024 11:03 AM	01:00:00	7.59 pH	18.04 °C	712.48 µS/cm	-0.02 mg/L	4.89 NTU	-12.0 mV	11.70 ft	2.00 gal/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 5/13/2024 11:35:20 AM
Project: Plant Hammond
Operator Name: Jamie Newsome

Location Name: INW-03 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 2 ft** **Top of Screen: 17 ft** **Total Depth: 27 ft** **Initial Depth to Water: 11.35 ft**	**Pump Type: Monsoon** **Tubing Type: Polyethylene** **Pump Intake From TOC: 22 ft** **Estimated Total Volume Pumped: 13.75 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 250 ml/min Final Draw Down: 0.00 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 966105**

Test Notes:
Well Development, Purge 2

Weather Conditions:
Light rain, 60 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.2	+/- 10	+/- 10	+/- 0.3	
5/13/2024 11:35 AM	00:00	7.39 pH	17.81 °C	736.68 µS/cm	0.04 mg/L	2.62 NTU	-18.6 mV	11.35 ft	250.00 ml/min
5/13/2024 11:40 AM	05:00	7.37 pH	17.85 °C	747.14 µS/cm	0.04 mg/L	4.66 NTU	-15.8 mV	11.35 ft	250.00 ml/min
5/13/2024 11:45 AM	10:00	7.37 pH	18.01 °C	751.85 µS/cm	0.03 mg/L	4.46 NTU	-27.4 mV	11.35 ft	250.00 ml/min
5/13/2024 11:50 AM	15:00	7.38 pH	18.16 °C	750.05 µS/cm	0.03 mg/L	6.02 NTU	-13.5 mV	11.35 ft	250.00 ml/min
5/13/2024 11:55 AM	20:00	7.38 pH	18.25 °C	751.39 µS/cm	0.03 mg/L	5.80 NTU	-22.8 mV	11.35 ft	250.00 ml/min
5/13/2024 12:00 PM	25:00	7.39 pH	18.43 °C	751.31 µS/cm	0.03 mg/L	5.69 NTU	-10.3 mV	11.35 ft	250.00 ml/min
5/13/2024 12:05 PM	30:00	7.39 pH	18.38 °C	752.63 µS/cm	0.03 mg/L	6.01 NTU	-19.7 mV	11.35 ft	250.00 ml/min
5/13/2024 12:10 PM	35:00	7.39 pH	18.39 °C	753.05 µS/cm	0.03 mg/L	5.59 NTU	-8.6 mV	11.35 ft	250.00 ml/min
5/13/2024 12:15 PM	40:00	7.40 pH	18.59 °C	754.17 µS/cm	0.03 mg/L	5.43 NTU	-18.5 mV	11.35 ft	250.00 ml/min
5/13/2024 12:20 PM	45:00	7.40 pH	18.73 °C	753.36 µS/cm	0.03 mg/L	5.19 NTU	-18.6 mV	11.35 ft	250.00 ml/min
5/13/2024 12:25 PM	50:00	7.40 pH	18.77 °C	754.03 µS/cm	0.04 mg/L	4.60 NTU	-17.8 mV	11.35 ft	250.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 4/30/2024 3:55:27 PM
Project: Plant Hammond
Operator Name: Elisabeth Russell

Location Name: INW-04 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 34.95 ft** **Total Depth: 44.95 ft** **Initial Depth to Water: 25.28 ft**	**Pump Type: Monsoon** **Tubing Type: Polyethylene** **Pump Intake From TOC: 43 ft** **Estimated Total Volume Pumped: 1135 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 8000 ml/min** **Final Draw Down: 1.71 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 883546**

Test Notes:
Well Development

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.5	
4/30/2024 3:55 PM	00:00	6.92 pH	24.47 °C	694.89 µS/cm	0.86 mg/L	1,750.0 NTU	10.8 mV	36.60 ft	10,000.0 ml/min
4/30/2024 4:00 PM	05:00	6.91 pH	22.93 °C	726.77 µS/cm	1.33 mg/L	161.00 NTU	5.7 mV	36.60 ft	10,000.0 ml/min
4/30/2024 4:04 PM	08:46	6.89 pH	23.33 °C	724.28 µS/cm	1.42 mg/L	125.00 NTU	7.9 mV	36.60 ft	10,000.0 ml/min
4/30/2024 4:09 PM	13:48	6.88 pH	22.57 °C	736.51 µS/cm	1.45 mg/L	84.00 NTU	7.5 mV	36.60 ft	10,000.0 ml/min
4/30/2024 4:11 PM	16:05	6.88 pH	22.24 °C	742.59 µS/cm	1.46 mg/L	80.20 NTU	7.1 mV	36.60 ft	10,000.0 ml/min
4/30/2024 4:16 PM	21:05	6.88 pH	21.35 °C	757.06 µS/cm	1.39 mg/L	79.50 NTU	5.7 mV	36.60 ft	10,000.0 ml/min
4/30/2024 4:21 PM	26:05	6.87 pH	21.13 °C	760.89 µS/cm	1.37 mg/L	119.00 NTU	5.7 mV	36.60 ft	8,000.0 ml/min
4/30/2024 4:26 PM	31:05	6.86 pH	21.11 °C	766.29 µS/cm	1.51 mg/L	2,272.0 NTU	15.8 mV	36.60 ft	8,000.0 ml/min
4/30/2024 4:31 PM	36:05	6.84 pH	21.12 °C	765.68 µS/cm	1.65 mg/L	1,290.0 NTU	19.4 mV	36.60 ft	8,000.0 ml/min
4/30/2024 4:33 PM	38:01	6.84 pH	21.42 °C	761.81 µS/cm	1.70 mg/L	172.00 NTU	19.0 mV	36.60 ft	8,000.0 ml/min
4/30/2024 4:38 PM	43:01	6.84 pH	21.26 °C	764.96 µS/cm	1.62 mg/L	37.00 NTU	18.0 mV	36.60 ft	8,000.0 ml/min
4/30/2024 4:43 PM	48:01	6.84 pH	21.17 °C	770.33 µS/cm	1.53 mg/L	92.00 NTU	18.3 mV	36.60 ft	8,000.0 ml/min
4/30/2024 4:45 PM	50:03	6.83 pH	21.35 °C	766.06 µS/cm	1.56 mg/L	77.00 NTU	18.1 mV	36.60 ft	8,000.0 ml/min
4/30/2024 4:50 PM	55:03	6.84 pH	21.19 °C	770.20 µS/cm	1.19 mg/L	49.30 NTU	20.1 mV	36.60 ft	8,000.0 ml/min
4/30/2024 4:53 PM	58:27	6.84 pH	21.21 °C	769.86 µS/cm	1.20 mg/L	43.00 NTU	13.8 mV	36.60 ft	8,000.0 ml/min

4/30/2024 4:58 PM	01:03:27	6.83 pH	20.92 °C	779.12 µS/cm	1.66 mg/L	38.90 NTU	15.7 mV	36.60 ft	8,000.0 ml/min
4/30/2024 5:03 PM	01:08:27	6.83 pH	20.97 °C	776.99 µS/cm	1.57 mg/L	23.60 NTU	16.1 mV	36.60 ft	8,000.0 ml/min
4/30/2024 5:08 PM	01:13:27	6.84 pH	20.91 °C	774.36 µS/cm	1.29 mg/L	84.10 NTU	16.3 mV	36.60 ft	8,000.0 ml/min
4/30/2024 5:13 PM	01:18:08	6.83 pH	21.22 °C	770.38 µS/cm	1.36 mg/L	10.84 NTU	18.2 mV	36.60 ft	8,000.0 ml/min
4/30/2024 5:18 PM	01:23:08	6.84 pH	21.07 °C	791.57 µS/cm	1.28 mg/L	76.00 NTU	35.1 mV	36.60 ft	8,000.0 ml/min
4/30/2024 5:23 PM	01:28:08	6.84 pH	21.14 °C	774.63 µS/cm	1.35 mg/L	37.60 NTU	9.7 mV	36.60 ft	8,000.0 ml/min
4/30/2024 5:28 PM	01:33:08	6.83 pH	21.15 °C	772.90 µS/cm	1.28 mg/L	18.00 NTU	9.9 mV	36.60 ft	8,000.0 ml/min
4/30/2024 5:33 PM	01:38:08	6.84 pH	21.01 °C	776.07 µS/cm	1.32 mg/L	15.00 NTU	23.8 mV	36.60 ft	8,000.0 ml/min
4/30/2024 5:38 PM	01:43:08	6.84 pH	20.75 °C	788.36 µS/cm	1.43 mg/L	14.90 NTU	11.6 mV	36.60 ft	8,000.0 ml/min
4/30/2024 5:43 PM	01:48:08	6.83 pH	20.68 °C	787.12 µS/cm	1.45 mg/L	16.60 NTU	15.1 mV	36.60 ft	8,000.0 ml/min
4/30/2024 5:48 PM	01:53:08	6.84 pH	20.64 °C	788.52 µS/cm	1.42 mg/L	16.00 NTU	11.8 mV	36.60 ft	8,000.0 ml/min
4/30/2024 5:53 PM	01:58:08	6.85 pH	20.72 °C	809.29 µS/cm	0.50 mg/L	18.70 NTU	48.4 mV	29.00 ft	8,000.0 ml/min
4/30/2024 5:58 PM	02:03:08	6.84 pH	21.15 °C	793.48 µS/cm	0.30 mg/L	12.00 NTU	48.9 mV	27.00 ft	8,000.0 ml/min
4/30/2024 6:03 PM	02:08:08	6.85 pH	20.72 °C	798.59 µS/cm	0.33 mg/L	10.70 NTU	37.5 mV	26.88 ft	8,000.0 ml/min
4/30/2024 6:08 PM	02:13:08	6.84 pH	20.57 °C	804.55 µS/cm	0.31 mg/L	7.67 NTU	48.8 mV	26.90 ft	8,000.0 ml/min
4/30/2024 6:13 PM	02:18:08	6.84 pH	20.55 °C	809.91 µS/cm	0.29 mg/L	4.56 NTU	72.4 mV	26.99 ft	8,000.0 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 4/30/2024 1:18:01 PM
Project: Plant Hammond
Operator Name: Zain W.

Location Name: INW-05 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 34.65 ft** **Total Depth: 44.65 ft** **Initial Depth to Water: 24.90 ft**	**Pump Type: Monsoon** **Tubing Type: Polyethylene** **Pump Intake From TOC: 39.65 ft** **Estimated Total Volume Pumped: 405 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 4500 ml/min** **Final Draw Down: 1.51 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 966105**

Test Notes:
Well Development

Weather Conditions:
Cloudy, 70 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
4/30/2024 1:18 PM	00:00	7.08 pH	17.75 °C	643.85 µS/cm	0.01 mg/L	154.00 NTU	-120.4 mV	24.90 ft	4500.0 ml/min
4/30/2024 1:23 PM	05:00	7.09 pH	17.72 °C	649.16 µS/cm	-0.00 mg/L	64.70 NTU	-122.3 mV	26.46 ft	4500.0 ml/min
4/30/2024 1:28 PM	10:00	7.09 pH	17.72 °C	651.66 µS/cm	-0.01 mg/L	26.90 NTU	-142.0 mV	26.46 ft	4500.0 ml/min
4/30/2024 1:33 PM	15:00	7.08 pH	17.70 °C	652.59 µS/cm	-0.01 mg/L	19.40 NTU	-142.9 mV	26.43 ft	4500.0 ml/min
4/30/2024 1:38 PM	20:00	7.07 pH	17.70 °C	653.95 µS/cm	-0.01 mg/L	12.89 NTU	-142.9 mV	26.50 ft	4500.0 ml/min
4/30/2024 1:43 PM	25:00	7.06 pH	17.68 °C	654.82 µS/cm	-0.01 mg/L	11.22 NTU	-142.7 mV	26.52 ft	4500.0 ml/min
4/30/2024 1:48 PM	30:00	7.05 pH	17.67 °C	655.84 µS/cm	-0.01 mg/L	5.94 NTU	-142.2 mV	26.53 ft	4500.0 ml/min
4/30/2024 1:53 PM	35:00	7.03 pH	17.72 °C	656.45 µS/cm	-0.00 mg/L	73.00 NTU	-138.4 mV	26.40 ft	4500.0 ml/min
4/30/2024 1:58 PM	40:00	7.03 pH	17.72 °C	656.14 µS/cm	-0.01 mg/L	11.90 NTU	-139.2 mV	26.40 ft	4500.0 ml/min
4/30/2024 2:03 PM	45:00	7.00 pH	17.77 °C	659.55 µS/cm	0.00 mg/L	93.90 NTU	-136.8 mV	26.30 ft	4500.0 ml/min
4/30/2024 2:08 PM	50:00	7.01 pH	17.79 °C	657.70 µS/cm	-0.01 mg/L	5.91 NTU	-136.8 mV	26.28 ft	4500.0 ml/min
4/30/2024 2:13 PM	55:00	7.02 pH	17.85 °C	657.01 µS/cm	-0.02 mg/L	2,111.0 NTU	-138.9 mV	26.20 ft	4500.0 ml/min
4/30/2024 2:18 PM	01:00:00	7.05 pH	17.80 °C	657.18 µS/cm	-0.02 mg/L	3.57 NTU	-141.3 mV	26.16 ft	4500.0 ml/min

4/30/2024 2:23 PM	01:05:00	7.06 pH	17.92 °C	660.31 µS/cm	-0.02 mg/L	3,147.0 NTU	-141.6 mV	26.17 ft	4500.0 ml/min
4/30/2024 2:28 PM	01:10:00	7.08 pH	17.84 °C	657.52 µS/cm	-0.02 mg/L	12.90 NTU	-143.2 mV	26.43 ft	4500.0 ml/min
4/30/2024 2:33 PM	01:15:00	7.09 pH	17.85 °C	658.45 µS/cm	-0.02 mg/L	1.33 NTU	-143.3 mV	26.31 ft	4500.0 ml/min
4/30/2024 2:38 PM	01:20:00	7.08 pH	17.86 °C	655.90 µS/cm	-0.02 mg/L	10.28 NTU	-140.8 mV	26.34 ft	4500.0 ml/min
4/30/2024 2:43 PM	01:25:00	7.09 pH	17.83 °C	656.39 µS/cm	-0.02 mg/L	0.25 NTU	-123.7 mV	26.41 ft	4500.0 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 5/9/2024 2:07:43 PM
Project: Plant Hammond
Operator Name: Jamie Newsome

Location Name: PT-11 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 17 ft** **Total Depth: 27 ft** **Initial Depth to Water: 11.45 ft**	**Pump Type: Monsoon** **Tubing Type: Poly** **Pump Intake From TOC: 22 ft** **Estimated Total Volume Pumped: 424.02 gal** **Flow Cell Volume: 90 ml** **Final Flow Rate: 3.33 gal/min** **Final Draw Down: 0.15 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 966105**

Test Notes:
Well Development, Purge 1

Weather Conditions:
Sunny, 66 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.2	+/- 10	+/- 10	+/- 0.3	
5/9/2024 2:07 PM	00:00	7.11 pH	18.01 °C	683.08 µS/cm	-0.00 mg/L	1,273.0 NTU	-25.2 mV	11.50 ft	3.33 gal/min
5/9/2024 2:12 PM	05:00	7.13 pH	18.03 °C	682.27 µS/cm	-0.01 mg/L	2,053.0 NTU	-49.7 mV	11.53 ft	3.33 gal/min
5/9/2024 2:17 PM	10:00	7.16 pH	18.07 °C	685.05 µS/cm	-0.01 mg/L	2,185.0 NTU	-57.7 mV	11.55 ft	3.33 gal/min
5/9/2024 2:22 PM	15:00	7.16 pH	18.08 °C	685.58 µS/cm	-0.01 mg/L	1,089.0 NTU	-53.4 mV	11.55 ft	3.33 gal/min
5/9/2024 2:27 PM	20:00	7.14 pH	18.08 °C	686.10 µS/cm	-0.01 mg/L	1,903.0 NTU	-46.9 mV	11.55 ft	3.33 gal/min
5/9/2024 2:32 PM	25:00	7.16 pH	18.08 °C	686.60 µS/cm	-0.02 mg/L	644.00 NTU	-54.2 mV	11.56 ft	3.33 gal/min
5/9/2024 2:37 PM	30:00	7.16 pH	18.10 °C	686.88 µS/cm	-0.02 mg/L	1,745.0 NTU	-31.4 mV	11.56 ft	3.33 gal/min
5/9/2024 2:42 PM	35:00	7.15 pH	18.08 °C	686.81 µS/cm	-0.02 mg/L	946.00 NTU	-46.6 mV	11.60 ft	3.33 gal/min
5/9/2024 2:47 PM	40:00	7.16 pH	18.08 °C	687.83 µS/cm	-0.02 mg/L	1,047.0 NTU	-46.2 mV	11.60 ft	3.33 gal/min
5/9/2024 2:52 PM	45:00	7.15 pH	18.12 °C	688.22 µS/cm	-0.02 mg/L	1,166.0 NTU	-45.8 mV	11.60 ft	3.33 gal/min
5/9/2024 2:57 PM	50:00	7.15 pH	18.12 °C	687.10 µS/cm	-0.02 mg/L	1,228.0 NTU	-26.0 mV	11.60 ft	3.33 gal/min
5/9/2024 3:02 PM	55:00	7.14 pH	18.08 °C	687.74 µS/cm	-0.02 mg/L	822.00 NTU	-19.1 mV	11.60 ft	3.33 gal/min
5/9/2024 3:07 PM	01:00:00	7.14 pH	18.12 °C	688.51 µS/cm	-0.02 mg/L	1,080.0 NTU	-23.3 mV	11.60 ft	3.33 gal/min

5/9/2024 3:12 PM	01:05:00	7.14 pH	18.08 °C	689.21 µS/cm	-0.02 mg/L	727.00 NTU	-20.2 mV	11.60 ft	3.33 gal/min
5/9/2024 3:17 PM	01:10:00	7.15 pH	18.08 °C	689.08 µS/cm	-0.02 mg/L	127.00 NTU	-40.1 mV	11.60 ft	3.33 gal/min
5/9/2024 3:22 PM	01:15:00	7.14 pH	18.08 °C	689.64 µS/cm	-0.02 mg/L	865.00 NTU	-22.3 mV	11.60 ft	3.33 gal/min
5/9/2024 3:27 PM	01:20:00	7.16 pH	18.07 °C	687.61 µS/cm	-0.02 mg/L	104.00 NTU	-23.9 mV	11.60 ft	3.33 gal/min
5/9/2024 3:32 PM	01:25:00	7.15 pH	18.10 °C	689.15 µS/cm	-0.02 mg/L	54.20 NTU	-43.5 mV	11.60 ft	3.33 gal/min
5/9/2024 3:37 PM	01:30:00	7.14 pH	18.09 °C	689.93 µS/cm	-0.02 mg/L	33.70 NTU	-39.8 mV	11.60 ft	3.33 gal/min
5/9/2024 3:42 PM	01:35:00	7.15 pH	18.08 °C	689.12 µS/cm	-0.02 mg/L	15.70 NTU	-41.8 mV	11.60 ft	3.33 gal/min
5/9/2024 3:47 PM	01:40:00	7.13 pH	18.14 °C	688.20 µS/cm	-0.02 mg/L	53.20 NTU	-18.9 mV	11.60 ft	3.33 gal/min
5/9/2024 3:52 PM	01:45:00	7.13 pH	18.12 °C	690.98 µS/cm	-0.02 mg/L	11.80 NTU	-38.6 mV	11.60 ft	3.33 gal/min
5/9/2024 3:57 PM	01:50:00	7.13 pH	18.15 °C	691.02 µS/cm	-0.02 mg/L	11.46 NTU	-39.3 mV	11.60 ft	3.33 gal/min
5/9/2024 4:02 PM	01:55:00	7.13 pH	18.13 °C	691.85 µS/cm	-0.02 mg/L	6.82 NTU	-38.1 mV	11.60 ft	3.33 gal/min
5/9/2024 4:07 PM	02:00:00	7.13 pH	18.12 °C	690.99 µS/cm	-0.02 mg/L	6.44 NTU	-19.3 mV	11.60 ft	3.33 gal/min
5/9/2024 4:12 PM	02:05:00	7.12 pH	18.16 °C	690.87 µS/cm	-0.02 mg/L	3.28 NTU	-35.4 mV	11.60 ft	3.33 gal/min
5/9/2024 4:15 PM	02:07:20	7.13 pH	18.12 °C	691.93 µS/cm	-0.02 mg/L		-35.7 mV	11.60 ft	3.33 gal/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 5/9/2024 4:23:25 PM
Project: Plant Hammond
Operator Name: Jamie Newsome

Location Name: PT-11 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 17 ft** **Total Depth: 27 ft** **Initial Depth to Water: 11.60 ft**	**Pump Type: Monsoon** **Tubing Type: Polyethylene** **Pump Intake From TOC: 22 ft** **Estimated Total Volume Pumped: 88.5 gal** **Flow Cell Volume: 90 ml** **Final Flow Rate: 1 gal/min** **Final Draw Down: 0.00 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 966105**

Test Notes:
Well Development, Purge 2

Weather Conditions:
Sunny, 66 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.2	+/- 10	+/- 10	+/- 0.3	
5/9/2024 4:23 PM	00:00	7.10 pH	19.12 °C	690.09 µS/cm	-0.02 mg/L	3.29 NTU	-25.2 mV	11.60 ft	1.00 gal/min
5/9/2024 4:28 PM	05:00	7.11 pH	19.11 °C	3.19 µS/cm	2.01 mg/L	8.18 NTU	24.3 mV	11.60 ft	1.00 gal/min
5/9/2024 4:33 PM	10:00	7.04 pH	21.96 °C	694.75 µS/cm	0.06 mg/L	12.50 NTU	-8.7 mV	11.60 ft	1.00 gal/min
5/9/2024 4:38 PM	15:00	7.02 pH	21.80 °C	691.97 µS/cm	0.01 mg/L	11.20 NTU	-14.0 mV	11.60 ft	1.00 gal/min
5/9/2024 4:43 PM	20:00	7.01 pH	21.46 °C	689.01 µS/cm	0.00 mg/L	12.18 NTU	-14.3 mV	11.60 ft	1.00 gal/min
5/9/2024 4:48 PM	25:00	7.01 pH	21.81 °C	688.57 µS/cm	0.00 mg/L	11.74 NTU	-28.2 mV	11.60 ft	1.00 gal/min
5/9/2024 4:53 PM	30:00	7.02 pH	21.80 °C	688.81 µS/cm	0.00 mg/L	11.08 NTU	-28.1 mV	11.60 ft	1.00 gal/min
5/9/2024 4:58 PM	35:00	7.03 pH	21.58 °C	689.43 µS/cm	0.00 mg/L	10.02 NTU	-28.8 mV	11.60 ft	1.00 gal/min
5/9/2024 5:03 PM	40:00	7.04 pH	21.42 °C	689.88 µS/cm	0.00 mg/L	9.68 NTU	-27.6 mV	11.60 ft	1.00 gal/min
5/9/2024 5:08 PM	45:00	7.04 pH	21.59 °C	689.25 µS/cm	-0.00 mg/L	10.90 NTU	-27.1 mV	11.60 ft	1.00 gal/min
5/9/2024 5:13 PM	50:00	7.05 pH	21.25 °C	695.17 µS/cm	-0.00 mg/L	8.56 NTU	-12.8 mV	11.60 ft	1.00 gal/min
5/9/2024 5:18 PM	55:00	7.05 pH	23.61 °C	698.55 µS/cm	0.02 mg/L	8.53 NTU	-11.8 mV	11.60 ft	1.00 gal/min
5/9/2024 5:23 PM	01:00:00	7.00 pH	24.67 °C	690.40 µS/cm	0.02 mg/L	11.60 NTU	-15.9 mV	11.60 ft	1.00 gal/min

5/9/2024 5:28 PM	01:05:00	6.94 pH	24.28 °C	695.53 µS/cm	0.02 mg/L	10.70 NTU	-12.6 mV	11.60 ft	1.00 gal/min
5/9/2024 5:33 PM	01:10:00	6.92 pH	21.74 °C	675.07 µS/cm	-0.00 mg/L	8.73 NTU	-5.6 mV	11.60 ft	1.00 gal/min
5/9/2024 5:38 PM	01:15:00	7.00 pH	21.15 °C	680.97 µS/cm	-0.01 mg/L	5.55 NTU	-17.4 mV	11.60 ft	1.00 gal/min
5/9/2024 5:43 PM	01:20:00	7.04 pH	20.75 °C	686.31 µS/cm	-0.01 mg/L	5.81 NTU	-20.9 mV	11.60 ft	1.00 gal/min
5/9/2024 5:48 PM	01:25:00	7.05 pH	21.17 °C	688.43 µS/cm	-0.01 mg/L	4.04 NTU	-10.1 mV	11.60 ft	1.00 gal/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 5/10/2024 2:44:37 PM
Project: Plant Hammond
Operator Name: Jamie Newsome

Location Name: PT-12 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 22 ft** **Total Depth: 27 ft** **Initial Depth to Water: 11.55 ft**	**Pump Type: Monsoon** **Tubing Type: Polyethylene** **Pump Intake From TOC: 22 ft** **Estimated Total Volume Pumped: 262.5 gal** **Flow Cell Volume: 90 ml** **Final Flow Rate: 2.5 gal/min** **Final Draw Down: 0.05 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 966105**

Test Notes:
Well Development, Purge 1

Weather Conditions:
Sunny, 80 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.2	+/- 10	+/- 10	+/- 0.3	
5/10/2024 2:44 PM	00:00	6.97 pH	19.23 °C	680.65 µS/cm	0.01 mg/L	++++	55.7 mV	11.55 ft	2.50 gal/min
5/10/2024 2:49 PM	05:00	7.00 pH	18.30 °C	700.43 µS/cm	0.01 mg/L	++++	9.2 mV	11.55 ft	2.50 gal/min
5/10/2024 2:54 PM	10:00	7.02 pH	18.30 °C	697.77 µS/cm	-0.00 mg/L	1,696.0 NTU	-7.6 mV	11.55 ft	2.50 gal/min
5/10/2024 2:59 PM	15:00	7.02 pH	18.30 °C	698.80 µS/cm	-0.01 mg/L	1,304.0 NTU	3.8 mV	11.55 ft	2.50 gal/min
5/10/2024 3:04 PM	20:00	7.02 pH	18.25 °C	700.74 µS/cm	-0.01 mg/L	1,375.0 NTU	0.8 mV	11.55 ft	2.50 gal/min
5/10/2024 3:09 PM	25:00	7.03 pH	18.21 °C	698.85 µS/cm	-0.01 mg/L	1,551.0 NTU	1.9 mV	11.55 ft	2.50 gal/min
5/10/2024 3:14 PM	30:00	7.02 pH	18.27 °C	700.11 µS/cm	-0.01 mg/L	1,098.0 NTU	-6.9 mV	11.55 ft	2.50 gal/min
5/10/2024 3:19 PM	35:00	7.02 pH	18.25 °C	700.16 µS/cm	-0.01 mg/L	1,071.0 NTU	-9.6 mV	11.55 ft	2.50 gal/min
5/10/2024 3:24 PM	40:00	7.01 pH	18.31 °C	701.16 µS/cm	-0.01 mg/L	851.00 NTU	-13.5 mV	11.55 ft	2.50 gal/min
5/10/2024 3:29 PM	45:00	7.01 pH	18.31 °C	700.96 µS/cm	-0.01 mg/L	1,070.0 NTU	-15.7 mV	11.55 ft	2.50 gal/min
5/10/2024 3:34 PM	50:00	7.05 pH	18.30 °C	697.20 µS/cm	-0.01 mg/L	895.00 NTU	-15.8 mV	11.55 ft	2.50 gal/min
5/10/2024 3:39 PM	55:00	7.04 pH	18.29 °C	697.30 µS/cm	-0.01 mg/L	52.50 NTU	-7.1 mV	11.60 ft	2.50 gal/min
5/10/2024 3:44 PM	01:00:00	7.03 pH	18.29 °C	698.22 µS/cm	-0.01 mg/L	84.40 NTU	-8.4 mV	11.60 ft	2.50 gal/min

5/10/2024 3:49 PM	01:05:00	7.03 pH	18.27 °C	697.90 µS/cm	-0.01 mg/L	34.00 NTU	-2.5 mV	11.60 ft	2.50 gal/min
5/10/2024 3:54 PM	01:10:00	7.03 pH	18.27 °C	697.29 µS/cm	-0.01 mg/L	23.70 NTU	0.5 mV	11.60 ft	2.50 gal/min
5/10/2024 3:59 PM	01:15:00	7.03 pH	18.25 °C	698.23 µS/cm	-0.01 mg/L	16.40 NTU	1.9 mV	11.60 ft	2.50 gal/min
5/10/2024 4:04 PM	01:20:00	7.02 pH	18.25 °C	698.36 µS/cm	-0.01 mg/L	14.10 NTU	2.1 mV	11.60 ft	2.50 gal/min
5/10/2024 4:09 PM	01:25:00	7.03 pH	18.25 °C	698.99 µS/cm	-0.02 mg/L	15.19 NTU	3.8 mV	11.60 ft	2.50 gal/min
5/10/2024 4:14 PM	01:30:00	7.02 pH	18.25 °C	698.68 µS/cm	-0.01 mg/L	11.65 NTU	2.1 mV	11.60 ft	2.50 gal/min
5/10/2024 4:19 PM	01:35:00	7.02 pH	18.16 °C	699.46 µS/cm	-0.02 mg/L	9.86 NTU	1.0 mV	11.60 ft	2.50 gal/min
5/10/2024 4:24 PM	01:40:00	7.02 pH	18.12 °C	700.57 µS/cm	-0.02 mg/L	6.84 NTU	-1.0 mV	11.60 ft	2.50 gal/min
5/10/2024 4:29 PM	01:45:00	7.02 pH	18.15 °C	700.54 µS/cm	-0.02 mg/L	4.87 NTU	7.8 mV	11.60 ft	2.50 gal/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 5/10/2024 4:43:04 PM
Project: Plant Hammond
Operator Name: Jamie Newsome

Location Name: PT-12 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 22 ft** **Total Depth: 27 ft** **Initial Depth to Water: 11.60 ft**	**Pump Type: Monsoon** **Tubing Type: Polyethylene** **Pump Intake From TOC: 22 ft** **Estimated Total Volume Pumped: 10 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 250 ml/min** **Final Draw Down: 0.00 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 966105**

Test Notes:
Well Development, Purge 2

Weather Conditions:
Clear, 80 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.2	+/- 10	+/- 10	+/- 0.3	
5/10/2024 4:43 PM	00:00	7.00 pH	21.08 °C	700.69 µS/cm	0.01 mg/L	11.30 NTU	-4.3 mV	11.60 ft	250.00 ml/min
5/10/2024 4:48 PM	05:00	6.99 pH	21.92 °C	695.09 µS/cm	0.03 mg/L	12.20 NTU	-15.1 mV	11.60 ft	250.00 ml/min
5/10/2024 4:53 PM	10:00	6.98 pH	22.04 °C	692.50 µS/cm	0.03 mg/L	12.89 NTU	-42.4 mV	11.60 ft	250.00 ml/min
5/10/2024 4:58 PM	15:00	6.97 pH	22.03 °C	692.75 µS/cm	0.02 mg/L	12.27 NTU	-22.6 mV	11.60 ft	250.00 ml/min
5/10/2024 5:03 PM	20:00	6.97 pH	22.01 °C	693.64 µS/cm	0.02 mg/L	10.01 NTU	-39.3 mV	11.60 ft	250.00 ml/min
5/10/2024 5:08 PM	25:00	6.97 pH	22.04 °C	693.44 µS/cm	0.03 mg/L	9.80 NTU	-38.6 mV	11.60 ft	250.00 ml/min
5/10/2024 5:13 PM	30:00	6.96 pH	21.86 °C	693.81 µS/cm	0.03 mg/L	7.46 NTU	-37.4 mV	11.60 ft	250.00 ml/min
5/10/2024 5:18 PM	35:00	6.97 pH	21.76 °C	694.36 µS/cm	0.02 mg/L	5.72 NTU	-34.0 mV	11.60 ft	250.00 ml/min
5/10/2024 5:23 PM	40:00	6.97 pH	21.63 °C	694.76 µS/cm	0.03 mg/L	5.72 NTU	-36.7 mV	11.60 ft	250.00 ml/min
5/10/2024 5:28 PM	45:00	6.97 pH	21.64 °C	693.43 µS/cm	0.03 mg/L	4.89 NTU	-35.2 mV	11.60 ft	250.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 5/1/2024 9:42:55 AM
Project: Hammond
Operator Name: Zain W.

Location Name: PT-13 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 35 ft** **Total Depth: 45 ft** **Initial Depth to Water: 25.37 ft**	**Pump Type: Monsoon** **Tubing Type: Polyethylene** **Pump Intake From TOC: 40 ft** **Estimated Total Volume Pumped: 74 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 4500 ml/min** **Final Draw Down: 9.82 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 966105**

Test Notes:
Well Development

Weather Conditions:
Clear, 70 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
5/1/2024 9:42 AM	00:00	6.83 pH	17.92 °C	725.46 µS/cm	0.01 mg/L	1,190.0 NTU	-115.4 mV	25.37 ft	4,500.0 ml/min
5/1/2024 9:47 AM	05:00	6.80 pH	17.98 °C	736.81 µS/cm	0.01 mg/L	1,181.0 NTU	-120.4 mV	30.55 ft	4,500.0 ml/min
5/1/2024 9:52 AM	10:00	6.79 pH	18.00 °C	742.73 µS/cm	-0.00 mg/L	1,124.0 NTU	-137.7 mV	32.47 ft	4,500.0 ml/min
5/1/2024 9:57 AM	15:00	6.77 pH	18.02 °C	741.81 µS/cm	-0.01 mg/L	803.00 NTU	-141.6 mV	33.93 ft	4,500.0 ml/min
5/1/2024 10:02 AM	20:00	6.75 pH	18.05 °C	747.78 µS/cm	-0.01 mg/L	787.00 NTU	-131.6 mV	33.94 ft	4,500.0 ml/min
5/1/2024 10:07 AM	25:00	6.74 pH	18.08 °C	752.23 µS/cm	-0.01 mg/L	1,079.0 NTU	-146.8 mV	33.96 ft	4,500.0 ml/min
5/1/2024 10:12 AM	30:00	6.72 pH	18.07 °C	753.58 µS/cm	-0.01 mg/L	1,095.0 NTU	-141.0 mV	33.57 ft	4,500.0 ml/min
5/1/2024 10:17 AM	35:00	6.71 pH	18.08 °C	755.56 µS/cm	-0.01 mg/L	1,013.0 NTU	-153.0 mV	33.32 ft	4,500.0 ml/min
5/1/2024 10:22 AM	40:00	6.69 pH	18.09 °C	756.22 µS/cm	-0.01 mg/L	760.00 NTU	-153.5 mV	32.94 ft	4,500.0 ml/min
5/1/2024 10:27 AM	45:00	6.68 pH	18.12 °C	758.42 µS/cm	-0.01 mg/L	1,094.0 NTU	-151.3 mV	33.62 ft	4,500.0 ml/min
5/1/2024 10:32 AM	50:00	6.66 pH	18.12 °C	760.08 µS/cm	-0.01 mg/L	485.00 NTU	-150.3 mV	33.31 ft	4,500.0 ml/min
5/1/2024 10:37 AM	55:00	6.65 pH	18.12 °C	759.71 µS/cm	-0.01 mg/L	62.00 NTU	-147.4 mV	33.60 ft	4,500.0 ml/min
5/1/2024 10:42 AM	01:00:00	6.65 pH	18.13 °C	758.25 µS/cm	0.00 mg/L	980.00 NTU	-141.2 mV	34.94 ft	4,500.0 ml/min

5/1/2024 10:47 AM	01:05:00	6.65 pH	18.18 °C	760.02 µS/cm	-0.01 mg/L	378.00 NTU	-148.7 mV	35.17 ft	4,500.0 ml/min
5/1/2024 10:52 AM	01:10:00	6.65 pH	18.16 °C	763.65 µS/cm	0.08 mg/L	--	-124.5 mV	34.94 ft	4,500.0 ml/min
5/1/2024 10:57 AM	01:15:00	6.65 pH	18.18 °C	762.86 µS/cm	0.33 mg/L	57.00 NTU	-116.9 mV	35.75 ft	4,500.0 ml/min
5/1/2024 11:02 AM	01:20:00	6.65 pH	18.20 °C	764.71 µS/cm	0.37 mg/L	59.00 NTU	-107.2 mV	35.75 ft	4,500.0 ml/min
5/1/2024 11:07 AM	01:25:00	6.64 pH	18.19 °C	767.48 µS/cm	0.33 mg/L	88.00 NTU	-101.7 mV	35.75 ft	4,500.0 ml/min
5/1/2024 11:12 AM	01:30:00	6.65 pH	18.23 °C	774.70 µS/cm	0.34 mg/L	--	-99.7 mV	35.75 ft	4,500.0 ml/min
5/1/2024 11:17 AM	01:35:00	6.64 pH	18.25 °C	776.37 µS/cm	0.33 mg/L	--	-83.9 mV	35.75 ft	4,500.0 ml/min
5/1/2024 11:22 AM	01:40:00	6.66 pH	18.28 °C	781.97 µS/cm	0.36 mg/L	87.00 NTU	-84.0 mV	36.44 ft	4,500.0 ml/min
5/1/2024 11:27 AM	01:45:00	6.79 pH	18.24 °C	785.41 µS/cm	0.31 mg/L	29.00 NTU	-98.9 mV	35.31 ft	4,500.0 ml/min
5/1/2024 11:32 AM	01:50:00	6.84 pH	18.25 °C	785.30 µS/cm	0.23 mg/L	--	-89.9 mV	36.44 ft	4,500.0 ml/min
5/1/2024 11:37 AM	01:55:00	6.82 pH	18.22 °C	787.69 µS/cm	0.23 mg/L	12.10 NTU	-100.1 mV	35.35 ft	4,500.0 ml/min
5/1/2024 11:42 AM	02:00:00	6.82 pH	18.29 °C	790.03 µS/cm	0.26 mg/L	31.20 NTU	-86.3 mV	35.42 ft	4,500.0 ml/min
5/1/2024 11:47 AM	02:05:00	6.85 pH	18.30 °C	789.10 µS/cm	0.18 mg/L	--	-98.3 mV	35.42 ft	4,500.0 ml/min
5/1/2024 11:52 AM	02:10:00	6.87 pH	18.30 °C	788.08 µS/cm	0.16 mg/L	17.10 NTU	-99.6 mV	35.47 ft	4,500.0 ml/min
5/1/2024 11:57 AM	02:15:00	6.88 pH	18.31 °C	787.47 µS/cm	0.20 mg/L	11.20 NTU	-99.4 mV	35.53 ft	4,500.0 ml/min
5/1/2024 12:02 PM	02:20:00	6.90 pH	18.33 °C	791.93 µS/cm	0.21 mg/L	6.91 NTU	-98.2 mV	35.34 ft	4,500.0 ml/min
5/1/2024 12:07 PM	02:25:00	6.99 pH	18.38 °C	789.32 µS/cm	0.20 mg/L	8.26 NTU	-102.7 mV	35.05 ft	4,500.0 ml/min
5/1/2024 12:12 PM	02:30:00	7.01 pH	18.36 °C	786.70 µS/cm	0.13 mg/L	8.82 NTU	-104.6 mV	35.00 ft	4,500.0 ml/min
5/1/2024 12:17 PM	02:35:00	7.02 pH	18.37 °C	787.34 µS/cm	0.14 mg/L	5.05 NTU	-105.8 mV	35.12 ft	4,500.0 ml/min
5/1/2024 12:22 PM	02:40:00	7.03 pH	18.34 °C	789.09 µS/cm	0.13 mg/L	5.61 NTU	-93.9 mV	35.18 ft	4,500.0 ml/min
5/1/2024 12:27 PM	02:45:00	7.04 pH	18.38 °C	788.66 µS/cm	0.11 mg/L	4.57 NTU	-106.2 mV	35.19 ft	4,500.0 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 4/30/2024 3:56:54 PM
Project: Hammond
Operator Name: Zain W.

Location Name: PT-14 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 34.65 ft** **Total Depth: 44.65 ft** **Initial Depth to Water: 25.00 ft**	**Pump Type: Monsoon** **Tubing Type: Polyethylene** **Pump Intake From TOC: 39.65 ft** **Estimated Total Volume Pumped: 63 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 4500 ml/min** **Final Draw Down: 1.62 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 966105**

Test Notes:
Well Development

Weather Conditions:
Clear, 80 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
4/30/2024 3:56 PM	00:00	6.92 pH	21.17 °C	574.44 µS/cm	0.02 mg/L	4,300.0 NTU	-85.9 mV	25.00 ft	4,500.0 ml/min
4/30/2024 4:01 PM	05:00	6.95 pH	21.57 °C	576.88 µS/cm	0.02 mg/L	--	-98.5 mV	26.50 ft	4,500.0 ml/min
4/30/2024 4:06 PM	10:00	6.96 pH	22.48 °C	582.08 µS/cm	0.02 mg/L	--	-119.9 mV	25.00 ft	4,500.0 ml/min
4/30/2024 4:11 PM	15:00	7.11 pH	23.15 °C	2.46 µS/cm	8.42 mg/L	--	-30.4 mV	25.00 ft	4,500.0 ml/min
4/30/2024 4:16 PM	20:00	7.31 pH	24.19 °C	2.37 µS/cm	8.39 mg/L	--	35.9 mV	25.00 ft	4,500.0 ml/min
4/30/2024 4:21 PM	25:00	6.99 pH	19.32 °C	570.89 µS/cm	0.05 mg/L	--	-88.5 mV	25.00 ft	4,500.0 ml/min
4/30/2024 4:26 PM	30:00	7.03 pH	18.88 °C	571.90 µS/cm	0.13 mg/L	-46.00 NTU	-109.7 mV	25.00 ft	4,500.0 ml/min
4/30/2024 4:31 PM	35:00	7.02 pH	18.88 °C	580.18 µS/cm	0.01 mg/L	675.00 NTU	-109.5 mV	26.45 ft	4,500.0 ml/min
4/30/2024 4:36 PM	40:00	7.02 pH	18.83 °C	582.68 µS/cm	0.01 mg/L	1,322.0 NTU	-111.4 mV	26.45 ft	4,500.0 ml/min
4/30/2024 4:41 PM	45:00	7.02 pH	18.77 °C	583.54 µS/cm	0.02 mg/L	683.00 NTU	-116.4 mV	26.46 ft	4,500.0 ml/min
4/30/2024 4:46 PM	50:00	7.00 pH	18.72 °C	585.85 µS/cm	0.01 mg/L	45.40 NTU	-116.8 mV	26.73 ft	4,500.0 ml/min
4/30/2024 4:51 PM	55:00	6.98 pH	18.75 °C	585.99 µS/cm	0.00 mg/L	97.00 NTU	-116.3 mV	26.77 ft	4,500.0 ml/min
4/30/2024 4:56 PM	01:00:00	6.97 pH	18.70 °C	587.95 µS/cm	-0.00 mg/L	25.60 NTU	-116.6 mV	26.77 ft	4,500.0 ml/min

4/30/2024 5:01 PM	01:05:00	6.95 pH	18.70 °C	588.09 µS/cm	0.00 mg/L	12.91 NTU	-115.8 mV	26.77 ft	4,500.0 ml/min
4/30/2024 5:06 PM	01:10:00	6.92 pH	18.70 °C	588.75 µS/cm	-0.01 mg/L	8.26 NTU	-115.2 mV	26.78 ft	4,500.0 ml/min
4/30/2024 5:11 PM	01:15:00	6.90 pH	18.77 °C	585.75 µS/cm	-0.01 mg/L	++++	-109.5 mV	26.78 ft	4,500.0 ml/min
4/30/2024 5:16 PM	01:20:00	6.87 pH	18.79 °C	586.13 µS/cm	-0.01 mg/L	++++	-101.9 mV	26.70 ft	4,500.0 ml/min
4/30/2024 5:21 PM	01:25:00	6.86 pH	18.74 °C	590.52 µS/cm	-0.01 mg/L	++++	-113.6 mV	26.70 ft	4,500.0 ml/min
4/30/2024 5:26 PM	01:30:00	6.85 pH	18.68 °C	590.92 µS/cm	-0.01 mg/L	1,288.0 NTU	-114.1 mV	26.80 ft	4,500.0 ml/min
4/30/2024 5:31 PM	01:35:00	6.83 pH	18.68 °C	591.55 µS/cm	-0.01 mg/L	40.20 NTU	-113.7 mV	26.80 ft	4,500.0 ml/min
4/30/2024 5:36 PM	01:40:00	6.82 pH	18.65 °C	591.95 µS/cm	-0.01 mg/L	13.30 NTU	-113.1 mV	26.82 ft	4,500.0 ml/min
4/30/2024 5:41 PM	01:45:00	6.81 pH	18.70 °C	602.23 µS/cm	-0.01 mg/L	--	-111.9 mV	26.85 ft	4,500.0 ml/min
4/30/2024 5:46 PM	01:50:00	6.83 pH	18.70 °C	591.42 µS/cm	-0.01 mg/L	++++	-115.1 mV	26.52 ft	4,500.0 ml/min
4/30/2024 5:51 PM	01:55:00	6.80 pH	18.64 °C	592.29 µS/cm	-0.02 mg/L	744.00 NTU	-114.1 mV	26.62 ft	4,500.0 ml/min
4/30/2024 5:56 PM	02:00:00	6.77 pH	18.63 °C	593.25 µS/cm	-0.02 mg/L	26.00 NTU	-112.7 mV	26.62 ft	4,500.0 ml/min
4/30/2024 6:01 PM	02:05:00	6.76 pH	18.64 °C	594.08 µS/cm	-0.02 mg/L	--	-111.9 mV	26.62 ft	4,500.0 ml/min
4/30/2024 6:06 PM	02:10:00	6.80 pH	18.68 °C	594.10 µS/cm	-0.02 mg/L	19.40 NTU	-114.2 mV	26.62 ft	4,500.0 ml/min
4/30/2024 6:11 PM	02:15:00	6.78 pH	18.65 °C	594.30 µS/cm	-0.02 mg/L	--	-113.2 mV	26.62 ft	4,500.0 ml/min
4/30/2024 6:16 PM	02:20:00	6.75 pH	18.61 °C	594.75 µS/cm	-0.02 mg/L	3.18 NTU	-111.5 mV	26.62 ft	4,500.0 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 4/30/2024 10:46:40 AM
Project: Plant Hammond
Operator Name: Elisabeth Russell

Location Name: PT-15 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 34.54 ft** **Total Depth: 44.54 ft** **Initial Depth to Water: 24.85 ft**	**Pump Type: Monsoon** **Tubing Type: Polyethylene** **Pump Intake From TOC: 42 ft** **Estimated Total Volume Pumped: 686 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 7000 ml/min** **Final Draw Down: 1.25 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 883546**

Test Notes:
Well Development

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.5	
4/30/2024 10:46 AM	00:00	6.82 pH	24.30 °C	849.91 µS/cm	-0.06 mg/L	7.94 NTU	1.5 mV	25.85 ft	7,000.0 ml/min
4/30/2024 10:50 AM	04:09	6.82 pH	24.10 °C	856.11 µS/cm	-0.07 mg/L	7.94 NTU	0.1 mV	25.85 ft	7,000.0 ml/min
4/30/2024 10:55 AM	08:45	6.83 pH	23.53 °C	864.43 µS/cm	-0.07 mg/L	7.72 NTU	-1.0 mV	26.00 ft	7,000.0 ml/min
4/30/2024 11:00 AM	13:45	7.10 pH	23.10 °C	2.36 µS/cm	2.71 mg/L	7.69 NTU	108.5 mV	26.05 ft	7,000.0 ml/min
4/30/2024 11:05 AM	18:45	7.14 pH	23.23 °C	1.67 µS/cm	3.79 mg/L	--	121.4 mV	--	7,000.0 ml/min
4/30/2024 11:10 AM	23:45	7.24 pH	23.85 °C	1.47 µS/cm	4.75 mg/L	--	126.9 mV	--	7,000.0 ml/min
4/30/2024 11:15 AM	28:45	7.20 pH	24.25 °C	1.54 µS/cm	6.69 mg/L	--	129.8 mV	--	7,000.0 ml/min
4/30/2024 11:20 AM	33:45	7.36 pH	25.34 °C	1.45 µS/cm	7.52 mg/L	--	132.1 mV	--	7,000.0 ml/min
4/30/2024 11:26 AM	39:37	6.90 pH	24.14 °C	872.00 µS/cm	0.64 mg/L	145.00 NTU	35.0 mV	26.20 ft	7,000.0 ml/min
4/30/2024 11:31 AM	44:37	6.84 pH	22.20 °C	898.59 µS/cm	-0.04 mg/L	44.30 NTU	8.7 mV	25.90 ft	7,000.0 ml/min
4/30/2024 11:36 AM	49:37	6.84 pH	22.24 °C	894.88 µS/cm	-0.05 mg/L	13.10 NTU	1.0 mV	25.95 ft	7,000.0 ml/min
4/30/2024 11:41 AM	54:37	6.85 pH	22.15 °C	895.30 µS/cm	-0.06 mg/L	7.84 NTU	-2.8 mV	25.97 ft	7,000.0 ml/min
4/30/2024 11:46 AM	59:37	6.86 pH	22.15 °C	872.50 µS/cm	0.26 mg/L	924.00 NTU	-3.4 mV	25.97 ft	7,000.0 ml/min
4/30/2024 11:48 AM	01:01:47	6.87 pH	22.21 °C	909.50 µS/cm	-0.06 mg/L	920.00 NTU	-7.4 mV	26.00 ft	7,000.0 ml/min
4/30/2024 11:53 AM	01:06:47	6.87 pH	21.75 °C	912.43 µS/cm	-0.06 mg/L	66.80 NTU	-8.5 mV	26.03 ft	7,000.0 ml/min

4/30/2024 11:58 AM	01:11:47	6.88 pH	21.86 °C	911.93 µS/cm	-0.07 mg/L	22.40 NTU	-8.1 mV	26.06 ft	7,000.0 ml/min
4/30/2024 12:03 PM	01:16:47	6.88 pH	21.90 °C	908.80 µS/cm	-0.07 mg/L	108.00 NTU	-8.3 mV	26.08 ft	7,000.0 ml/min
4/30/2024 12:08 PM	01:21:47	6.86 pH	21.72 °C	899.92 µS/cm	-0.07 mg/L	16.00 NTU	-4.4 mV	26.08 ft	7,000.0 ml/min
4/30/2024 12:13 PM	01:26:47	6.86 pH	21.67 °C	900.82 µS/cm	-0.07 mg/L	5.78 NTU	-4.6 mV	26.09 ft	7,000.0 ml/min
4/30/2024 12:18 PM	01:31:47	6.86 pH	21.64 °C	899.12 µS/cm	-0.06 mg/L	72.00 NTU	-2.2 mV	26.10 ft	7,000.0 ml/min
4/30/2024 12:23 PM	01:36:47	6.86 pH	21.53 °C	900.50 µS/cm	-0.07 mg/L	6.61 NTU	-4.7 mV	26.10 ft	7,000.0 ml/min
4/30/2024 12:28 PM	01:41:47	6.86 pH	21.62 °C	898.96 µS/cm	-0.07 mg/L	3.49 NTU	-5.1 mV	26.10 ft	7,000.0 ml/min
4/30/2024 12:31 PM	01:45:16	6.86 pH	21.58 °C	899.92 µS/cm	-0.07 mg/L	3.40 NTU	-5.2 mV	26.10 ft	7,000.0 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Site Name: Hammond

Field Instrumentation Calibration Form

Date: 9/30/24

Calibrated By: Elisabeth Russell

Field Conditions: wet

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AQUAtrii 1400	883596
Turbidity Meter	2020We	1511-9111

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4.490	24005593	12/24	Hach
pH (SU)	4.00	24005593	12/24	Hach
pH (SU)	7.00	24004517	12/24	Hach
pH (SU)	10.00	24000085	12/24	Hach
D O (%)	N/A	N/A	N/A	N/A
ORP (mV)	228 0	24006903	12/24	Hach

Calibration					
Time Start 915		Time Finish 925			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4.490	4490	23.10	± 10% of standard	EPA 2023
pH (SU)	4 00	4.0	23 26	± 0 1	GWMP
pH (SU)	7.00	7.0	28.74	± 0 1	GWMP
pH (SU)	10 00	10.0	29.31	± 0.1	GWMP
D O (%)	N/A	100 1.	33.1 28.80	± 10%	NA
ORP (mV)	228 0	228		± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0	± 10% of standard	EPA 2023
	1	1.01		
	10	10.02		
	~	~		

Calibration Check					
Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4.490			± 10% of standard	EPA 2023
pH (SU)	4.00			± 0 1	GWMP
pH (SU)	7.00			± 0 1	GWMP
pH (SU)	10 00			± 0 1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)			± 10% of standard	EPA 2023

Notes:

Site Name: Hayward

Calibrated By: Luis W.

Field Instrumentation Calibration Form

Date: 4-30-24

Field Conditions: Rain

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aqua Troll 400	966105
Turbidity Meter	La Motte	7009-146

Calibration Standard Information

Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24605593	12/24	AIR
pH (SU)	4.00	〃	〃	
pH (SU)	7.00	24064517	12/24	
pH (SU)	10.00	24000085	12/24	
D.O. (%)	N/A	-	-	
ORP (mV)	228.0	2400693	12/24	〃

Calibration

Time Start: 0910 Time Finish: 0940

Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4490	22.33	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	23.34	± 0.1	GWMP
pH (SU)	7.00	7.00	23.32	± 0.1	GWMP
pH (SU)	10.00	10.00	23.23	± 0.1	GWMP
D.O. (%)	N/A	100.2	23.44	± 10%	NA
ORP (mV)	228.0	228.0	23.34	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0	± 10% of standard	EPA 2023
	1	1		
	10	10		
	—	—		

Calibration Check

Time Start: — Time Finish: —

Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490			± 10% of standard	EPA 2023
pH (SU)	4.00			± 0.1	GWMP
pH (SU)	7.00			± 0.1	GWMP
pH (SU)	10.00			± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	—	—	± 10% of standard	EPA 2023
	—	—		
	—	—		
	—	—		

Notes:

—

Site Name: Plant Hammond

Field Instrumentation Calibration Form

Date: 5/1/24

Calibrated By: EP

Field Conditions: 90-70 sunny

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquaread 700	~~166704~~ 583546
Turbidity Meter	LaMotte 2020	1511-9111

SN: 583546

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (uS/cm)	4,490	24005593	12/24	AQR
pH (SU)	4 00	24003593	12/24	AQR
pH (SU)	7 00	24004517	12/24	AQR
pH (SU)	10.00	24000803	12/24	AQR
D O (%)	N/A	—	—	AQR
ORP (mV)	228 0	24006903	12/24	AQR

Calibration					
Time Start 830		Time Finish 900			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (uS/cm)	4,490	4490	25.68	± 10% of standard	EPA 2023
pH (SU)	4 00	4.0	25.31	± 0.1	GWMP
pH (SU)	7 00	7.0	25.30	± 0.1	GWMP
pH (SU)	10 00	10.0	24.95	± 0.1	GWMP
D O. (%)	N/A	100.1	23.97	± 10%	NA
ORP (mV)	228 0	228	24.20	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0.15	± 10% of standard	EPA 2023
	1	0.97		
	10	9.77		
	—	—		

Calibration Check					
Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (uS/cm)	4,490			± 10% of standard	EPA 2023
pH (SU)	4 00			± 0 1	GWMP
pH (SU)	7 00			± 0 1	GWMP
pH (SU)	10 00			± 0 1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)			± 10% of standard	EPA 2023

Notes:

Site Name: Richmond

Field Instrumentation Calibration Form

Date: 5/1/24

Calibrated By: Zain W.

Field Conditions: Clear, 60°F

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquaprobe 400	96105
Turbidity Meter	LaMotte	9009-1416

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4 490	24005593	12/24	ATR
pH (SU)	4.00	↓	↓	↓
pH (SU)	7.00	24004519	1/24	
pH (SU)	10.00	24000685	2/24	
D O (%)	N/A	—	—	
ORP (mV)	228 0	24001903	12/24	

Calibration					
Time Start 0857		Time Finish 0911			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4490	20.97	± 10% of standard	EPA 2023
pH (SU)	4 00	4.00	21.04	± 0 1	GWMP
pH (SU)	7 00	7.00	21.38	± 0 1	GWMP
pH (SU)	10 00	10.00	21.55	± 0 1	GWMP
D.O. (%)	N/A	100.7	21.10	± 10%	NA
ORP (mV)	228 0	228.0	21.39	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0	± 10% of standard	EPA 2023
	1	1		
	10	10		
	—	—		

Calibration Check					
Time Start —		Time Finish —			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	—	—	± 10% of standard	EPA 2023
pH (SU)	4.00	—	—	± 0 1	GWMP
pH (SU)	7 00	—	—	± 0.1	GWMP
pH (SU)	10.00	—	—	± 0 1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	—	—	± 10% of standard	EPA 2023
	—	—		
	—	—		
	—	—		

Notes:

Site Name: Plant Hammond

Field Instrumentation Calibration Form

Date: 5-9-2024

Calibrated By: A. Stewart

Field Conditions: Thunderstorms, 66°F

Instrument	Manufacturer/ Model	Serial Number
Water Quality Meter	YSI ProDSS	19D731
Turbidity Meter	LaMotte 2020e	7009-1916

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24001593	12/2024	AIR
pH (SU)	4.00	24001593	12/2024	AIR
pH (SU)	7.00	24003597	11/2024	AIR
pH (SU)	10.00	24004996	11/2024	AIR
D.O. (%)	N/A	—	—	—
ORP (mV)	228.0	24004903		AIR

Calibration					
Time Start: 1020		Time Finish:			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4498.0	23.34	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	23.54	± 0.1	GWMP
pH (SU)	7.00	7.00	23.52	± 0.1	GWMP
pH (SU)	10.00	10.00	23.37	± 0.1	GWMP
D.O. (%)	N/A	Cal on 2-7-1007.	23.04	± 10%	NA
ORP (mV)	228.0	228.0	23.45	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0.00	± 10% of standard	EPA 2023
	1	0.70		
	10	10.12		
	—	—		

Calibration Check					
Time Start:		Time Finish:			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490			± 10% of standard	EPA 2023
pH (SU)	4.00			± 0.1	GWMP
pH (SU)	7.00			± 0.1	GWMP
pH (SU)	10.00			± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)			± 10% of standard	EPA 2023

Notes:

Site Name: GP Plant Hammond Field Instrumentation Calibration Form

Date: 5/9/24

Calibrated By: J. Newsome

Field Conditions: Storms, Rain

Instrument	Manufacturer/ Model	Serial Number
Water Quality Meter	YSI EXO2	24H105
Turbidity Meter	HACH 2100Q	1911-4111

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (uS/cm)	4.490	24B05893	12/24	AIR
pH (SU)	4.00	24B05593	12/24	AIR
pH (SU)	7.00	24B04917	12/24	AIR
pH (SU)	10.00	24B10085	12/24	AIR
D.O. (%)	N/A	N/A	N/A	N/A
ORP (mV)	220.0	24B09903	12/24	AIR

Calibration					
Time Start: 0900 1000		Time Finish: 1630			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4.490	—	—	± 10% of standard	EPA 2023
pH (SU)	4.00	4.01	22.98	± 0.1	GWMP
pH (SU)	7.00	6.97	23.45	± 0.1	GWMP
pH (SU)	10.00	10.00	22.58	± 0.1	GWMP
D.O. (%)	N/A	99.7 %	20.58	± 10%	NA
ORP (mV)	220.0	229.0	22.42	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0	± 10% of standard	EPA 2023
	1	1.01		
	10	9.87		

Calibration Check					
Time Start:		Time Finish:			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4.490		-	± 10% of standard	EPA 2023
pH (SU)	4.00			± 0.1	GWMP
pH (SU)	7.00		5-9-24	± 0.1	GWMP
pH (SU)	10.00			± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)			± 10% of standard	EPA 2023
	5-9-24			

Initials

11

Site Name: Plant Hammond

Field Instrumentation Calibration Form

Date: 5-10-2024

Calibrated By: A. Szwast

Field Conditions: Sunny, 70's F

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 600	350751
Turbidity Meter	LaMotte 2020i+	7009-1416

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24010893	12/2024	AIR
pH (SU)	4 00	24005593	12/2024	AIR
pH (SU)	7 00	24003597	11/2024	AIR
pH (SU)	10 00	24004946	11/2024	AIR
D O (%)	N/A	—	—	—
ORP (mV)	228 0	24006903	11/2024	AIR

Calibration					
Time Start 750		Time Finish 805			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4490.0	23.29	± 10% of standard	EPA 2023
pH (SU)	4 00	4.00	23.70	± 0 1	GWMP
pH (SU)	7 00	7.00	23.64	± 0 1	GWMP
pH (SU)	10 00	10.00	23.43	± 0 1	GWMP
D.O (%)	N/A	100.00	20.32	± 10%	NA
ORP (mV)	228 0	228.0	22.09	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0.00	± 10% of standard	EPA 2023
	1	0.81		
	10	9.96		
	—	—		

Calibration Check					
Time Start 1445		Time Finish 1455			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4490.0	30.88	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	30.88	± 0 1	GWMP
pH (SU)	7.00	7.00	30.00	± 0 1	GWMP
pH (SU)	10 00	10.00	29.60	± 0 1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0.00	± 10% of standard	EPA 2023
	1	0.83		
	10	10.04		
	—	—		

Notes:

Site Name: GP Plant Hammond

Field Instrumentation Calibration Form

Date: 5/10/24

Calibrated By: J. Newsome

Field Conditions: Clear, JV
Cloudy, 46°F

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll	916105
Turbidity Meter	La Motte 2020wp	1611-4111

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24005593	12/2024	APHR
pH (SU)	4.00	24005593	12/2024	APHR
pH (SU)	7.00	24C04917	12/2024	APHR
pH (SU)	10.00	24000085	12/2024	APHR
D.O. (%)	N/A	—	—	—
ORP (mV)	228.0	24004903	12/2024	APHR

Calibration					
Time Start	0945	Time Finish	0815		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4425.9	23.25	± 10% of standard	EPA 2023
pH (SU)	4.00	4.05	23.61	± 0.1	GWMP
pH (SU)	7.00	7.05	24.01	± 0.1	GWMP
pH (SU)	10.00	10.02	24.24	± 0.1	GWMP
D.O. (%)	N/A	100.84	22.08	± 10%	NA
ORP (mV)	228.0	229.4	23.98	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0	± 10% of standard	EPA 2023
	1	0.99		
	10	9.57		
	—	—		

Calibration Check					
Time Start	1415	Time Finish	1430		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4478.9	24.06	± 10% of standard	EPA 2023
pH (SU)	4.00	4.01	24.07	± 0.1	GWMP
pH (SU)	7.00	7.07	23.92	± 0.1	GWMP
pH (SU)	10.00	9.98	24.51	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0.02	± 10% of standard	EPA 2023
	1	1.04		
	10	9.82		
	—	—		

Notes:

Site Name: GP Plant Hammond

Field Instrumentation Calibration Form

Date: 5/15/24

Calibrated By: J Newsome

Field Duration: Cloudy, 65°F

Instrument	Manufacturer/ Model	Serial Number
Water Quality Meter	Aquaread	9W605
Turbidity Meter	Lamotte 2020we	1611-4811

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4.490	24U09593	12/2024	AYE
pH (SU)	4.00	24U05593	12/2024	AYE
pH (SU)	7.00	24U04517	12/2024	AYE
pH (SU)	10.00	24U04985	12/2024	AYE
DO (%)	N/A			
ORP (mV)	228.0	24U04903	12/2024	AYE

Calibration					
Time Start: 0950		Time Finish:			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4.490	4491.4	19.05	± 10% of standard	EPA 2023
pH (SU)	4.00	4.04	19.14	± 0.1	GWMP
pH (SU)	7.00	7.04	19.24	± 0.1	GWMP
pH (SU)	10.00	10.03	19.33	± 0.1	GWMP
DO (%)	N/A	99.95	19.24	± 10%	NA
ORP (mV)	228.0	228.5	19.32	± 10	EPA 2023

Turbidity (NTU)	Standard	Calibration Value	Acceptance Criteria	Reference
	0	0.01	± 10% of standard	EPA 2023
	1	1.01		
	10	9.98		

Calibration Check					
Time Start:		Time Finish:			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4.490	4460.91	20.12	± 10% of standard	EPA 2023
pH (SU)	4.00	4.03	20.12	± 0.1	GWMP
pH (SU)	7.00	7.02	19.43	± 0.1	GWMP
pH (SU)	10.00	10.04	20.05	± 0.1	GWMP

Turbidity (NTU)	Standard	Calibration Value	Acceptance Criteria	Reference
	0	0	± 10% of standard	EPA 2023
	1	1.01		
	10	10		

Notes:

APPENDIX D

Certified Well Survey Data

Well ID	Casing Northing	Casing Easting	Top of Casing Elevation	Nail or Pad Northing	Nail or Pad Easting	Nail or Pad Elevation	Description
AS-01	1549048.28	1942388.06	577.08	1549048.17	1942388.79	577.46	NAIL ON PAD
AS-02	1549049.08	1942400.03	576.72	1549049.00	1942400.65	577.14	NAIL ON PAD
AS-03	1548670.10	1940933.87	591.60	1548669.94	1940933.21	591.98	NAIL ON PAD
AS-04	1548680.80	1940930.83	591.50	1548680.66	1940930.25	591.97	NAIL ON PAD
INW-03	1549052.75	1942388.28	577.07	1549052.67	1942389.06	577.38	NAIL ON PAD
INW-04	1548671.73	1940929.98	591.58	1548671.52	1940929.36	592.01	NAIL ON PAD
INW-05	1548680.07	1940935.89	591.31	1548679.97	1940935.37	591.81	NAIL ON PAD
PT-11	1549055.61	1942390.89	576.96	1549055.62	1942391.58	577.35	NAIL ON PAD
PT-12	1549045.43	1942391.10	576.84	1549045.32	1942391.85	577.34	NAIL ON PAD
PT-13	1548676.04	1940939.23	591.47	1548675.94	1940938.61	591.88	NAIL ON PAD
PT-14	1548673.63	1940926.52	591.62	1548673.48	1940925.84	592.06	NAIL ON PAD
PT-15	1548668.35	1940937.45	591.37	1548668.21	1940936.90	591.90	NAIL ON PAD
Benchmark	Northing	Easting	Elevation				
BM-H3	1548237.413	1941013.571	574.63				

SURVEY DATA CERTIFICATION FOR SOUTHERN COMPANY TO DETERMINE NORTHING, EASTING, AND VERTICAL ELEVATION OF THE NAIL IN THE CONCRETE PAD & THE PVC WELL CASING. DATE OF FIELD SURVEY & INSPECTION: 06/03/2024. FIELD SURVEY POSITIONAL TOLERANCE=0.5 FEET HORIZONTAL-NAD'83, 0.01 VERTICAL-NAVD '88. EQUIPMENT USED FOR HORIZONTAL LOCATION: TRIMBLE R12 RTK GPS & TRIMBLE S5 ROBOTIC TOTAL STATION. THE VERTICAL LOCATION OF EACH SURVEYED POINT WAS ESTABLISHED BASED UPON LEVEL RUNS WITH A DIGITAL LEVEL LOOP FROM VERTICAL CONTROL ESTABLISHED BY ON-SITE BENCHMARK BM-H3 SET BY GEL SOLUTIONS USING A TRIMBLE DINI LEVEL

7/1/2024

COA - LS003119
Exp. 12/31/2024

APPENDIX B

Baseline Analytical Laboratory Results and Field Sampling Forms

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

May 10, 2024

Kristen Jurinko
Southern Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, GA 30308

RE: Project: Hammond AP-1
Pace Project No.: 92728841

Dear Kristen Jurinko:

Enclosed are the analytical results for sample(s) received by the laboratory on May 03, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Asheville
- Pace Analytical Services - Peachtree Corners, GA

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tyriek Hooks for
Bonnie Vang
bonnie.vang@pacelabs.com
704-977-0968
Project Manager

Enclosures

cc: Kip Gray, Geosyntec
Christine Hug, Geosyntec Consultants, Inc.
Thomas Kessler, Geosyntec Consultants
Whitney Law, Geosyntec Consultants
Laura Midkiff, Southern Company
Caroline Nelson, Geosyntec Consultants, Inc
Anthony Szwast, Geosyntec Consultants

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
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(704)875-9092

CERTIFICATIONS

Project: Hammond AP-1
Pace Project No.: 92728841

Pace Analytical Services Asheville
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Laboratory ID: 99030
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners
110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812
North Carolina Certification #: 381
South Carolina Certification #: 98011001
Virginia Certification #: 460204

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SAMPLE SUMMARY

Project: Hammond AP-1
Pace Project No.: 92728841

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92728841001	**HAM-INW-04**	Water	05/02/24 14:18	05/03/24 13:20
92728841002	**HAM-INW-05**	Water	05/02/24 09:55	05/03/24 13:20
92728841003	**HAM-PT-08**	Water	05/02/24 12:35	05/03/24 13:20
92728841004	**HAM-PT-14**	Water	05/02/24 12:06	05/03/24 13:20
92728841005	**HAM-PT-15**	Water	05/02/24 15:40	05/03/24 13:20
92728841006	**HAM-AP1-EB-01**	Water	05/02/24 15:20	05/03/24 13:20
92728841007	**HAM-AP1-FB-01**	Water	05/02/24 15:15	05/03/24 13:20
92728841008	**HAM-AP1-FD-01**	Water	05/02/24 00:00	05/03/24 13:20

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SAMPLE ANALYTE COUNT

Project: Hammond AP-1
Pace Project No.: 92728841

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92728841001	**HAM-INW-04**	EPA 6010D	AJM	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2320B-2011	YEG	3
		SM 2540C-2015	CMW1	1
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92728841002	**HAM-INW-05**	EPA 6010D	AJM	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2320B-2011	YEG	3
		SM 2540C-2015	CMW1	1
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92728841003	**HAM-PT-08**	EPA 6010D	AJM	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2320B-2011	YEG	3
		SM 2540C-2015	CMW1	1
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92728841004	**HAM-PT-14**	EPA 6010D	AJM	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2320B-2011	YEG	3
		SM 2540C-2015	CMW1	1
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92728841005	**HAM-PT-15**	EPA 6010D	AJM, DRB	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2320B-2011	YEG	3
		SM 2540C-2015	CMW1	1
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92728841006	**HAM-AP1-EB-01**	EPA 6010D	AJM	6
		EPA 6020B	CW1	13

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SAMPLE ANALYTE COUNT

Project: Hammond AP-1
Pace Project No.: 92728841

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 7470A	VB	1
		SM 2320B-2011	YEG	3
		SM 2540C-2015	CMW1	1
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92728841007	**HAM-AP1-FB-01**	EPA 6010D	AJM	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2320B-2011	YEG	3
		SM 2540C-2015	CMW1	1
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92728841008	**HAM-AP1-FD-01**	EPA 6010D	AJM	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2320B-2011	YEG	3
		SM 2540C-2015	CMW1	1
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3

PASI-A = Pace Analytical Services - Asheville
PASI-GA = Pace Analytical Services - Peachtree Corners, GA

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SUMMARY OF DETECTION

Project: Hammond AP-1
Pace Project No.: 92728841

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92728841001	**HAM-INW-04**					
EPA 6010D	Iron	10.3	mg/L	0.040	05/06/24 22:08	
EPA 6010D	Manganese	4.2	mg/L	0.040	05/06/24 22:08	
EPA 6010D	Potassium	5.4	mg/L	0.50	05/06/24 22:08	
EPA 6010D	Sodium	6.9	mg/L	1.0	05/06/24 22:08	
EPA 6010D	Calcium	110	mg/L	1.0	05/06/24 22:08	
EPA 6010D	Magnesium	13.5	mg/L	0.050	05/06/24 22:08	
EPA 6020B	Arsenic	0.21	mg/L	0.0050	05/06/24 14:29	
EPA 6020B	Barium	0.042	mg/L	0.0050	05/06/24 14:29	
EPA 6020B	Boron	0.61	mg/L	0.040	05/06/24 14:29	
EPA 6020B	Cobalt	0.029	mg/L	0.0050	05/06/24 14:29	
EPA 6020B	Lithium	0.048	mg/L	0.030	05/06/24 14:29	
EPA 6020B	Molybdenum	0.016	mg/L	0.010	05/06/24 14:29	
EPA 6020B	Selenium	0.0016J	mg/L	0.0050	05/06/24 14:29	B
EPA 6020B	Thallium	0.00048J	mg/L	0.0010	05/06/24 14:29	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	128	mg/L	5.0	05/07/24 16:02	
SM 2320B-2011	Alkalinity, Total as CaCO3	128	mg/L	5.0	05/07/24 16:02	
SM 2540C-2015	Total Dissolved Solids	482	mg/L	25.0	05/07/24 15:51	
EPA 300.0 Rev 2.1 1993	Chloride	8.0	mg/L	1.0	05/07/24 13:54	
EPA 300.0 Rev 2.1 1993	Fluoride	0.47	mg/L	0.10	05/07/24 13:54	M1
EPA 300.0 Rev 2.1 1993	Sulfate	180	mg/L	4.0	05/08/24 00:06	M1
92728841002	**HAM-INW-05**					
EPA 6010D	Iron	17.3	mg/L	0.040	05/06/24 22:13	M1
EPA 6010D	Manganese	3.6	mg/L	0.040	05/06/24 22:13	
EPA 6010D	Potassium	5.2	mg/L	0.50	05/06/24 22:13	M1
EPA 6010D	Sodium	6.5	mg/L	1.0	05/06/24 22:13	M1
EPA 6010D	Calcium	108	mg/L	1.0	05/06/24 22:13	M1
EPA 6010D	Magnesium	12.6	mg/L	0.050	05/06/24 22:13	M1
EPA 6020B	Antimony	0.00098J	mg/L	0.0030	05/06/24 14:44	
EPA 6020B	Arsenic	0.24	mg/L	0.0050	05/06/24 14:44	
EPA 6020B	Barium	0.032	mg/L	0.0050	05/06/24 14:44	
EPA 6020B	Beryllium	0.000099J	mg/L	0.00050	05/06/24 14:44	
EPA 6020B	Boron	0.54	mg/L	0.040	05/06/24 14:44	
EPA 6020B	Cobalt	0.028	mg/L	0.0050	05/06/24 14:44	
EPA 6020B	Lithium	0.060	mg/L	0.030	05/06/24 14:44	
EPA 6020B	Molybdenum	0.0094J	mg/L	0.010	05/06/24 14:44	
EPA 6020B	Selenium	0.0015J	mg/L	0.0050	05/06/24 14:44	B
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	109	mg/L	5.0	05/07/24 16:12	
SM 2320B-2011	Alkalinity, Total as CaCO3	109	mg/L	5.0	05/07/24 16:12	
SM 2540C-2015	Total Dissolved Solids	526	mg/L	25.0	05/07/24 15:51	
EPA 300.0 Rev 2.1 1993	Chloride	6.0	mg/L	1.0	05/07/24 14:38	
EPA 300.0 Rev 2.1 1993	Fluoride	0.59	mg/L	0.10	05/07/24 14:38	
EPA 300.0 Rev 2.1 1993	Sulfate	206	mg/L	5.0	05/08/24 01:37	
92728841003	**HAM-PT-08**					
EPA 6010D	Iron	8.5	mg/L	0.040	05/06/24 22:32	
EPA 6010D	Manganese	3.9	mg/L	0.040	05/06/24 22:32	
EPA 6010D	Potassium	5.3	mg/L	0.50	05/06/24 22:32	

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SUMMARY OF DETECTION

Project: Hammond AP-1
Pace Project No.: 92728841

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92728841003	**HAM-PT-08**					
EPA 6010D	Sodium	7.2	mg/L	1.0	05/06/24 22:32	
EPA 6010D	Calcium	98.2	mg/L	1.0	05/06/24 22:32	
EPA 6010D	Magnesium	12.0	mg/L	0.050	05/06/24 22:32	
EPA 6020B	Arsenic	0.26	mg/L	0.0050	05/06/24 14:48	
EPA 6020B	Barium	0.045	mg/L	0.0050	05/06/24 14:48	
EPA 6020B	Boron	0.83	mg/L	0.040	05/06/24 14:48	
EPA 6020B	Cobalt	0.054	mg/L	0.0050	05/06/24 14:48	
EPA 6020B	Lithium	0.016J	mg/L	0.030	05/06/24 14:48	
EPA 6020B	Molybdenum	0.017	mg/L	0.010	05/06/24 14:48	
EPA 6020B	Selenium	0.0012J	mg/L	0.0050	05/06/24 14:48	B
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	108	mg/L	5.0	05/07/24 16:29	
SM 2320B-2011	Alkalinity, Total as CaCO3	108	mg/L	5.0	05/07/24 16:29	
SM 2540C-2015	Total Dissolved Solids	477	mg/L	25.0	05/07/24 15:58	
EPA 300.0 Rev 2.1 1993	Chloride	15.4	mg/L	1.0	05/07/24 14:53	
EPA 300.0 Rev 2.1 1993	Fluoride	0.36	mg/L	0.10	05/07/24 14:53	
EPA 300.0 Rev 2.1 1993	Sulfate	176	mg/L	4.0	05/08/24 01:51	
92728841004	**HAM-PT-14**					
EPA 6010D	Iron	13.7	mg/L	0.040	05/06/24 22:37	
EPA 6010D	Manganese	3.1	mg/L	0.040	05/06/24 22:37	
EPA 6010D	Potassium	5.4	mg/L	0.50	05/06/24 22:37	
EPA 6010D	Sodium	6.7	mg/L	1.0	05/06/24 22:37	
EPA 6010D	Calcium	101	mg/L	1.0	05/06/24 22:37	
EPA 6010D	Magnesium	12.7	mg/L	0.050	05/06/24 22:37	
EPA 6020B	Arsenic	0.22	mg/L	0.0050	05/06/24 14:51	
EPA 6020B	Barium	0.037	mg/L	0.0050	05/06/24 14:51	
EPA 6020B	Boron	0.51	mg/L	0.040	05/06/24 14:51	
EPA 6020B	Cobalt	0.021	mg/L	0.0050	05/06/24 14:51	
EPA 6020B	Lithium	0.055	mg/L	0.030	05/06/24 14:51	
EPA 6020B	Molybdenum	0.011	mg/L	0.010	05/06/24 14:51	
EPA 6020B	Selenium	0.0014J	mg/L	0.0050	05/06/24 14:51	B
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	121	mg/L	5.0	05/07/24 16:38	
SM 2320B-2011	Alkalinity, Total as CaCO3	121	mg/L	5.0	05/07/24 16:38	
SM 2540C-2015	Total Dissolved Solids	462	mg/L	25.0	05/07/24 15:58	
EPA 300.0 Rev 2.1 1993	Chloride	7.9	mg/L	1.0	05/07/24 15:08	
EPA 300.0 Rev 2.1 1993	Fluoride	0.43	mg/L	0.10	05/07/24 15:08	
EPA 300.0 Rev 2.1 1993	Sulfate	169	mg/L	4.0	05/08/24 02:06	
92728841005	**HAM-PT-15**					
EPA 6010D	Manganese	5.6	mg/L	0.040	05/07/24 15:31	
EPA 6010D	Iron	9.7	mg/L	0.040	05/06/24 22:41	
EPA 6010D	Potassium	5.2	mg/L	0.50	05/06/24 22:41	
EPA 6010D	Sodium	6.8	mg/L	1.0	05/06/24 22:41	
EPA 6010D	Calcium	141	mg/L	1.0	05/06/24 22:41	
EPA 6010D	Magnesium	15.6	mg/L	0.050	05/06/24 22:41	
EPA 6020B	Arsenic	0.41	mg/L	0.0050	05/06/24 14:55	
EPA 6020B	Barium	0.044	mg/L	0.0050	05/06/24 14:55	
EPA 6020B	Boron	0.75	mg/L	0.040	05/06/24 14:55	

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SUMMARY OF DETECTION

Project: Hammond AP-1
Pace Project No.: 92728841

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92728841005	**HAM-PT-15**					
EPA 6020B	Cobalt	0.052	mg/L	0.0050	05/06/24 14:55	
EPA 6020B	Lithium	0.051	mg/L	0.030	05/06/24 14:55	
EPA 6020B	Molybdenum	0.017	mg/L	0.010	05/06/24 14:55	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	124	mg/L	5.0	05/07/24 16:47	
SM 2320B-2011	Alkalinity, Total as CaCO3	124	mg/L	5.0	05/07/24 16:47	
SM 2540C-2015	Total Dissolved Solids	638	mg/L	25.0	05/07/24 15:58	
EPA 300.0 Rev 2.1 1993	Chloride	11.8	mg/L	1.0	05/07/24 15:53	
EPA 300.0 Rev 2.1 1993	Fluoride	0.55	mg/L	0.10	05/07/24 15:53	
EPA 300.0 Rev 2.1 1993	Sulfate	278	mg/L	7.0	05/08/24 02:21	
92728841008	**HAM-AP1-FD-01**					
EPA 6010D	Iron	13.6	mg/L	0.040	05/06/24 23:05	
EPA 6010D	Manganese	3.1	mg/L	0.040	05/06/24 23:05	
EPA 6010D	Potassium	5.4	mg/L	0.50	05/06/24 23:05	
EPA 6010D	Sodium	6.7	mg/L	1.0	05/06/24 23:05	
EPA 6010D	Calcium	99.4	mg/L	1.0	05/06/24 23:05	
EPA 6010D	Magnesium	12.6	mg/L	0.050	05/06/24 23:05	
EPA 6020B	Arsenic	0.20	mg/L	0.0050	05/06/24 15:15	
EPA 6020B	Barium	0.036	mg/L	0.0050	05/06/24 15:15	
EPA 6020B	Boron	0.47	mg/L	0.040	05/06/24 15:15	
EPA 6020B	Cobalt	0.020	mg/L	0.0050	05/06/24 15:15	
EPA 6020B	Lithium	0.052	mg/L	0.030	05/06/24 15:15	
EPA 6020B	Molybdenum	0.010	mg/L	0.010	05/06/24 15:15	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	122	mg/L	5.0	05/07/24 17:38	
SM 2320B-2011	Alkalinity, Total as CaCO3	122	mg/L	5.0	05/07/24 17:38	
SM 2540C-2015	Total Dissolved Solids	442	mg/L	25.0	05/07/24 15:59	
EPA 300.0 Rev 2.1 1993	Chloride	7.9	mg/L	1.0	05/07/24 16:08	
EPA 300.0 Rev 2.1 1993	Fluoride	0.42	mg/L	0.10	05/07/24 16:08	
EPA 300.0 Rev 2.1 1993	Sulfate	167	mg/L	4.0	05/08/24 02:35	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92728841

Sample: HAM-INW-04 **Lab ID: 92728841001** Collected: 05/02/24 14:18 Received: 05/03/24 13:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**10.3**	mg/L	0.040	0.025	1	05/04/24 10:00	05/06/24 22:08	7439-89-6	
Manganese	**4.2**	mg/L	0.040	0.011	1	05/04/24 10:00	05/06/24 22:08	7439-96-5	
Potassium	**5.4**	mg/L	0.50	0.15	1	05/04/24 10:00	05/06/24 22:08	7440-09-7	
Sodium	**6.9**	mg/L	1.0	0.58	1	05/04/24 10:00	05/06/24 22:08	7440-23-5	
Calcium	**110**	mg/L	1.0	0.12	1	05/04/24 10:00	05/06/24 22:08	7440-70-2	
Magnesium	**13.5**	mg/L	0.050	0.012	1	05/04/24 10:00	05/06/24 22:08	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	05/04/24 09:50	05/06/24 14:29	7440-36-0	
Arsenic	**0.21**	mg/L	0.0050	0.00084	1	05/04/24 09:50	05/06/24 14:29	7440-38-2	
Barium	**0.042**	mg/L	0.0050	0.00047	1	05/04/24 09:50	05/06/24 14:29	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	05/04/24 09:50	05/06/24 14:29	7440-41-7	
Boron	**0.61**	mg/L	0.040	0.012	1	05/04/24 09:50	05/06/24 14:29	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	05/04/24 09:50	05/06/24 14:29	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	05/04/24 09:50	05/06/24 14:29	7440-47-3	
Cobalt	**0.029**	mg/L	0.0050	0.00032	1	05/04/24 09:50	05/06/24 14:29	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	05/04/24 09:50	05/06/24 14:29	7439-92-1	
Lithium	**0.048**	mg/L	0.030	0.0016	1	05/04/24 09:50	05/06/24 14:29	7439-93-2	
Molybdenum	**0.016**	mg/L	0.010	0.00062	1	05/04/24 09:50	05/06/24 14:29	7439-98-7	
Selenium	**0.0016J**	mg/L	0.0050	0.00096	1	05/04/24 09:50	05/06/24 14:29	7782-49-2	B
Thallium	**0.00048J**	mg/L	0.0010	0.00038	1	05/04/24 09:50	05/06/24 14:29	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	05/06/24 12:30	05/06/24 16:54	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**128**	mg/L	5.0	5.0	1		05/07/24 16:02		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		05/07/24 16:02		
Alkalinity, Total as CaCO3	**128**	mg/L	5.0	5.0	1		05/07/24 16:02		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**482**	mg/L	25.0	25.0	1		05/07/24 15:51		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		05/09/24 04:42	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**8.0**	mg/L	1.0	0.60	1		05/07/24 13:54	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92728841

Sample: HAM-INW-04 **Lab ID: 92728841001** Collected: 05/02/24 14:18 Received: 05/03/24 13:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.47**	mg/L	0.10	0.050	1		05/07/24 13:54	16984-48-8	M1
Sulfate	**180**	mg/L	4.0	2.0	4		05/08/24 00:06	14808-79-8	M1

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92728841

Sample: HAM-INW-05 **Lab ID: 92728841002** Collected: 05/02/24 09:55 Received: 05/03/24 13:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**17.3**	mg/L	0.040	0.025	1	05/04/24 10:00	05/06/24 22:13	7439-89-6	M1
Manganese	**3.6**	mg/L	0.040	0.011	1	05/04/24 10:00	05/06/24 22:13	7439-96-5	
Potassium	**5.2**	mg/L	0.50	0.15	1	05/04/24 10:00	05/06/24 22:13	7440-09-7	M1
Sodium	**6.5**	mg/L	1.0	0.58	1	05/04/24 10:00	05/06/24 22:13	7440-23-5	M1
Calcium	**108**	mg/L	1.0	0.12	1	05/04/24 10:00	05/06/24 22:13	7440-70-2	M1
Magnesium	**12.6**	mg/L	0.050	0.012	1	05/04/24 10:00	05/06/24 22:13	7439-95-4	M1
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.00098J**	mg/L	0.0030	0.00054	1	05/04/24 09:50	05/06/24 14:44	7440-36-0	
Arsenic	**0.24**	mg/L	0.0050	0.00084	1	05/04/24 09:50	05/06/24 14:44	7440-38-2	
Barium	**0.032**	mg/L	0.0050	0.00047	1	05/04/24 09:50	05/06/24 14:44	7440-39-3	
Beryllium	**0.000099J**	mg/L	0.00050	0.000094	1	05/04/24 09:50	05/06/24 14:44	7440-41-7	
Boron	**0.54**	mg/L	0.040	0.012	1	05/04/24 09:50	05/06/24 14:44	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	05/04/24 09:50	05/06/24 14:44	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	05/04/24 09:50	05/06/24 14:44	7440-47-3	
Cobalt	**0.028**	mg/L	0.0050	0.00032	1	05/04/24 09:50	05/06/24 14:44	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	05/04/24 09:50	05/06/24 14:44	7439-92-1	
Lithium	**0.060**	mg/L	0.030	0.0016	1	05/04/24 09:50	05/06/24 14:44	7439-93-2	
Molybdenum	**0.0094J**	mg/L	0.010	0.00062	1	05/04/24 09:50	05/06/24 14:44	7439-98-7	
Selenium	**0.0015J**	mg/L	0.0050	0.00096	1	05/04/24 09:50	05/06/24 14:44	7782-49-2	B
Thallium	ND	mg/L	0.0010	0.00038	1	05/04/24 09:50	05/06/24 14:44	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	05/06/24 12:30	05/06/24 16:57	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**109**	mg/L	5.0	5.0	1		05/07/24 16:12		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		05/07/24 16:12		
Alkalinity, Total as CaCO3	**109**	mg/L	5.0	5.0	1		05/07/24 16:12		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**526**	mg/L	25.0	25.0	1		05/07/24 15:51		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		05/09/24 04:42	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**6.0**	mg/L	1.0	0.60	1		05/07/24 14:38	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92728841

Sample: HAM-INW-05 **Lab ID: 92728841002** Collected: 05/02/24 09:55 Received: 05/03/24 13:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.59**	mg/L	0.10	0.050	1		05/07/24 14:38	16984-48-8	
Sulfate	**206**	mg/L	5.0	2.5	5		05/08/24 01:37	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92728841

Sample: HAM-PT-08 **Lab ID: 92728841003** Collected: 05/02/24 12:35 Received: 05/03/24 13:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**8.5**	mg/L	0.040	0.025	1	05/04/24 10:00	05/06/24 22:32	7439-89-6	
Manganese	**3.9**	mg/L	0.040	0.011	1	05/04/24 10:00	05/06/24 22:32	7439-96-5	
Potassium	**5.3**	mg/L	0.50	0.15	1	05/04/24 10:00	05/06/24 22:32	7440-09-7	
Sodium	**7.2**	mg/L	1.0	0.58	1	05/04/24 10:00	05/06/24 22:32	7440-23-5	
Calcium	**98.2**	mg/L	1.0	0.12	1	05/04/24 10:00	05/06/24 22:32	7440-70-2	
Magnesium	**12.0**	mg/L	0.050	0.012	1	05/04/24 10:00	05/06/24 22:32	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	05/04/24 09:50	05/06/24 14:48	7440-36-0	
Arsenic	**0.26**	mg/L	0.0050	0.00084	1	05/04/24 09:50	05/06/24 14:48	7440-38-2	
Barium	**0.045**	mg/L	0.0050	0.00047	1	05/04/24 09:50	05/06/24 14:48	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	05/04/24 09:50	05/06/24 14:48	7440-41-7	
Boron	**0.83**	mg/L	0.040	0.012	1	05/04/24 09:50	05/06/24 14:48	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	05/04/24 09:50	05/06/24 14:48	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	05/04/24 09:50	05/06/24 14:48	7440-47-3	
Cobalt	**0.054**	mg/L	0.0050	0.00032	1	05/04/24 09:50	05/06/24 14:48	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	05/04/24 09:50	05/06/24 14:48	7439-92-1	
Lithium	**0.016J**	mg/L	0.030	0.0016	1	05/04/24 09:50	05/06/24 14:48	7439-93-2	
Molybdenum	**0.017**	mg/L	0.010	0.00062	1	05/04/24 09:50	05/06/24 14:48	7439-98-7	
Selenium	**0.0012J**	mg/L	0.0050	0.00096	1	05/04/24 09:50	05/06/24 14:48	7782-49-2	B
Thallium	ND	mg/L	0.0010	0.00038	1	05/04/24 09:50	05/06/24 14:48	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	05/06/24 12:30	05/06/24 16:59	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**108**	mg/L	5.0	5.0	1		05/07/24 16:29		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		05/07/24 16:29		
Alkalinity, Total as CaCO3	**108**	mg/L	5.0	5.0	1		05/07/24 16:29		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**477**	mg/L	25.0	25.0	1		05/07/24 15:58		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		05/09/24 04:42	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**15.4**	mg/L	1.0	0.60	1		05/07/24 14:53	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92728841

Sample: HAM-PT-08 **Lab ID: 92728841003** Collected: 05/02/24 12:35 Received: 05/03/24 13:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.36**	mg/L	0.10	0.050	1		05/07/24 14:53	16984-48-8	
Sulfate	**176**	mg/L	4.0	2.0	4		05/08/24 01:51	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92728841

Sample: HAM-PT-14 **Lab ID: 92728841004** Collected: 05/02/24 12:06 Received: 05/03/24 13:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**13.7**	mg/L	0.040	0.025	1	05/04/24 10:00	05/06/24 22:37	7439-89-6	
Manganese	**3.1**	mg/L	0.040	0.011	1	05/04/24 10:00	05/06/24 22:37	7439-96-5	
Potassium	**5.4**	mg/L	0.50	0.15	1	05/04/24 10:00	05/06/24 22:37	7440-09-7	
Sodium	**6.7**	mg/L	1.0	0.58	1	05/04/24 10:00	05/06/24 22:37	7440-23-5	
Calcium	**101**	mg/L	1.0	0.12	1	05/04/24 10:00	05/06/24 22:37	7440-70-2	
Magnesium	**12.7**	mg/L	0.050	0.012	1	05/04/24 10:00	05/06/24 22:37	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	05/04/24 09:50	05/06/24 14:51	7440-36-0	
Arsenic	**0.22**	mg/L	0.0050	0.00084	1	05/04/24 09:50	05/06/24 14:51	7440-38-2	
Barium	**0.037**	mg/L	0.0050	0.00047	1	05/04/24 09:50	05/06/24 14:51	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	05/04/24 09:50	05/06/24 14:51	7440-41-7	
Boron	**0.51**	mg/L	0.040	0.012	1	05/04/24 09:50	05/06/24 14:51	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	05/04/24 09:50	05/06/24 14:51	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	05/04/24 09:50	05/06/24 14:51	7440-47-3	
Cobalt	**0.021**	mg/L	0.0050	0.00032	1	05/04/24 09:50	05/06/24 14:51	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	05/04/24 09:50	05/06/24 14:51	7439-92-1	
Lithium	**0.055**	mg/L	0.030	0.0016	1	05/04/24 09:50	05/06/24 14:51	7439-93-2	
Molybdenum	**0.011**	mg/L	0.010	0.00062	1	05/04/24 09:50	05/06/24 14:51	7439-98-7	
Selenium	**0.0014J**	mg/L	0.0050	0.00096	1	05/04/24 09:50	05/06/24 14:51	7782-49-2	B
Thallium	ND	mg/L	0.0010	0.00038	1	05/04/24 09:50	05/06/24 14:51	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	05/06/24 12:30	05/06/24 17:15	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**121**	mg/L	5.0	5.0	1		05/07/24 16:38		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		05/07/24 16:38		
Alkalinity, Total as CaCO3	**121**	mg/L	5.0	5.0	1		05/07/24 16:38		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**462**	mg/L	25.0	25.0	1		05/07/24 15:58		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		05/09/24 04:43	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**7.9**	mg/L	1.0	0.60	1		05/07/24 15:08	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92728841

Sample: HAM-PT-14 **Lab ID: 92728841004** Collected: 05/02/24 12:06 Received: 05/03/24 13:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.43**	mg/L	0.10	0.050	1		05/07/24 15:08	16984-48-8	
Sulfate	**169**	mg/L	4.0	2.0	4		05/08/24 02:06	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92728841

Sample: HAM-PT-15 **Lab ID: 92728841005** Collected: 05/02/24 15:40 Received: 05/03/24 13:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Manganese	**5.6**	mg/L	0.040	0.011	1	05/04/24 10:00	05/07/24 15:31	7439-96-5	
Iron	**9.7**	mg/L	0.040	0.025	1	05/04/24 10:00	05/06/24 22:41	7439-89-6	
Potassium	**5.2**	mg/L	0.50	0.15	1	05/04/24 10:00	05/06/24 22:41	7440-09-7	
Sodium	**6.8**	mg/L	1.0	0.58	1	05/04/24 10:00	05/06/24 22:41	7440-23-5	
Calcium	**141**	mg/L	1.0	0.12	1	05/04/24 10:00	05/06/24 22:41	7440-70-2	
Magnesium	**15.6**	mg/L	0.050	0.012	1	05/04/24 10:00	05/06/24 22:41	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	05/04/24 09:50	05/06/24 14:55	7440-36-0	
Arsenic	**0.41**	mg/L	0.0050	0.00084	1	05/04/24 09:50	05/06/24 14:55	7440-38-2	
Barium	**0.044**	mg/L	0.0050	0.00047	1	05/04/24 09:50	05/06/24 14:55	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	05/04/24 09:50	05/06/24 14:55	7440-41-7	
Boron	**0.75**	mg/L	0.040	0.012	1	05/04/24 09:50	05/06/24 14:55	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	05/04/24 09:50	05/06/24 14:55	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	05/04/24 09:50	05/06/24 14:55	7440-47-3	
Cobalt	**0.052**	mg/L	0.0050	0.00032	1	05/04/24 09:50	05/06/24 14:55	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	05/04/24 09:50	05/06/24 14:55	7439-92-1	
Lithium	**0.051**	mg/L	0.030	0.0016	1	05/04/24 09:50	05/06/24 14:55	7439-93-2	
Molybdenum	**0.017**	mg/L	0.010	0.00062	1	05/04/24 09:50	05/06/24 14:55	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	05/04/24 09:50	05/06/24 14:55	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	05/04/24 09:50	05/06/24 14:55	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	05/06/24 12:30	05/06/24 17:18	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**124**	mg/L	5.0	5.0	1		05/07/24 16:47		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		05/07/24 16:47		
Alkalinity, Total as CaCO3	**124**	mg/L	5.0	5.0	1		05/07/24 16:47		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**638**	mg/L	25.0	25.0	1		05/07/24 15:58		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		05/09/24 04:43	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**11.8**	mg/L	1.0	0.60	1		05/07/24 15:53	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92728841

Sample: HAM-PT-15 **Lab ID: 92728841005** Collected: 05/02/24 15:40 Received: 05/03/24 13:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.55**	mg/L	0.10	0.050	1		05/07/24 15:53	16984-48-8	
Sulfate	**278**	mg/L	7.0	3.5	7		05/08/24 02:21	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92728841

Sample: HAM-AP1-EB-01 **Lab ID: 92728841006** Collected: 05/02/24 15:20 Received: 05/03/24 13:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	05/04/24 10:00	05/06/24 22:56	7439-89-6	
Manganese	ND	mg/L	0.040	0.011	1	05/04/24 10:00	05/06/24 22:56	7439-96-5	
Potassium	ND	mg/L	0.50	0.15	1	05/04/24 10:00	05/06/24 22:56	7440-09-7	
Sodium	ND	mg/L	1.0	0.58	1	05/04/24 10:00	05/06/24 22:56	7440-23-5	
Calcium	ND	mg/L	1.0	0.12	1	05/04/24 10:00	05/06/24 22:56	7440-70-2	
Magnesium	ND	mg/L	0.050	0.012	1	05/04/24 10:00	05/06/24 22:56	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	05/04/24 09:50	05/06/24 15:07	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	05/04/24 09:50	05/06/24 15:07	7440-38-2	
Barium	ND	mg/L	0.0050	0.00047	1	05/04/24 09:50	05/06/24 15:07	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	05/04/24 09:50	05/06/24 15:07	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	05/04/24 09:50	05/06/24 15:07	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	05/04/24 09:50	05/06/24 15:07	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	05/04/24 09:50	05/06/24 15:07	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	05/04/24 09:50	05/06/24 15:07	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	05/04/24 09:50	05/06/24 15:07	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	05/04/24 09:50	05/06/24 15:07	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	05/04/24 09:50	05/06/24 15:07	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	05/04/24 09:50	05/06/24 15:07	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	05/04/24 09:50	05/06/24 15:07	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	05/06/24 12:30	05/06/24 17:20	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		05/07/24 16:57		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		05/07/24 16:57		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		05/07/24 16:57		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		05/07/24 15:59		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		05/09/24 04:43	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		05/07/24 13:24	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92728841

Sample: HAM-AP1-EB-01 **Lab ID: 92728841006** Collected: 05/02/24 15:20 Received: 05/03/24 13:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	ND	mg/L	0.10	0.050	1		05/07/24 13:24	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		05/07/24 13:24	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92728841

Sample: HAM-AP1-FB-01 **Lab ID: 92728841007** Collected: 05/02/24 15:15 Received: 05/03/24 13:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	05/04/24 10:00	05/06/24 23:01	7439-89-6	
Manganese	ND	mg/L	0.040	0.011	1	05/04/24 10:00	05/06/24 23:01	7439-96-5	
Potassium	ND	mg/L	0.50	0.15	1	05/04/24 10:00	05/06/24 23:01	7440-09-7	
Sodium	ND	mg/L	1.0	0.58	1	05/04/24 10:00	05/06/24 23:01	7440-23-5	
Calcium	ND	mg/L	1.0	0.12	1	05/04/24 10:00	05/06/24 23:01	7440-70-2	
Magnesium	ND	mg/L	0.050	0.012	1	05/04/24 10:00	05/06/24 23:01	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	05/04/24 09:50	05/06/24 15:11	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	05/04/24 09:50	05/06/24 15:11	7440-38-2	
Barium	ND	mg/L	0.0050	0.00047	1	05/04/24 09:50	05/06/24 15:11	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	05/04/24 09:50	05/06/24 15:11	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	05/04/24 09:50	05/06/24 15:11	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	05/04/24 09:50	05/06/24 15:11	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	05/04/24 09:50	05/06/24 15:11	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	05/04/24 09:50	05/06/24 15:11	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	05/04/24 09:50	05/06/24 15:11	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	05/04/24 09:50	05/06/24 15:11	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	05/04/24 09:50	05/06/24 15:11	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	05/04/24 09:50	05/06/24 15:11	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	05/04/24 09:50	05/06/24 15:11	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	05/06/24 12:30	05/06/24 17:23	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		05/07/24 17:00		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		05/07/24 17:00		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		05/07/24 17:00		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		05/07/24 15:59		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		05/09/24 04:44	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		05/07/24 13:39	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92728841

Sample: HAM-AP1-FB-01 **Lab ID: 92728841007** Collected: 05/02/24 15:15 Received: 05/03/24 13:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	ND	mg/L	0.10	0.050	1		05/07/24 13:39	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		05/07/24 13:39	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92728841

Sample: HAM-AP1-FD-01 **Lab ID: 92728841008** Collected: 05/02/24 00:00 Received: 05/03/24 13:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**13.6**	mg/L	0.040	0.025	1	05/04/24 10:00	05/06/24 23:05	7439-89-6	
Manganese	**3.1**	mg/L	0.040	0.011	1	05/04/24 10:00	05/06/24 23:05	7439-96-5	
Potassium	**5.4**	mg/L	0.50	0.15	1	05/04/24 10:00	05/06/24 23:05	7440-09-7	
Sodium	**6.7**	mg/L	1.0	0.58	1	05/04/24 10:00	05/06/24 23:05	7440-23-5	
Calcium	**99.4**	mg/L	1.0	0.12	1	05/04/24 10:00	05/06/24 23:05	7440-70-2	
Magnesium	**12.6**	mg/L	0.050	0.012	1	05/04/24 10:00	05/06/24 23:05	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	05/04/24 09:50	05/06/24 15:15	7440-36-0	
Arsenic	**0.20**	mg/L	0.0050	0.00084	1	05/04/24 09:50	05/06/24 15:15	7440-38-2	
Barium	**0.036**	mg/L	0.0050	0.00047	1	05/04/24 09:50	05/06/24 15:15	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	05/04/24 09:50	05/06/24 15:15	7440-41-7	
Boron	**0.47**	mg/L	0.040	0.012	1	05/04/24 09:50	05/06/24 15:15	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	05/04/24 09:50	05/06/24 15:15	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	05/04/24 09:50	05/06/24 15:15	7440-47-3	
Cobalt	**0.020**	mg/L	0.0050	0.00032	1	05/04/24 09:50	05/06/24 15:15	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	05/04/24 09:50	05/06/24 15:15	7439-92-1	
Lithium	**0.052**	mg/L	0.030	0.0016	1	05/04/24 09:50	05/06/24 15:15	7439-93-2	
Molybdenum	**0.010**	mg/L	0.010	0.00062	1	05/04/24 09:50	05/06/24 15:15	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	05/04/24 09:50	05/06/24 15:15	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	05/04/24 09:50	05/06/24 15:15	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	05/06/24 12:30	05/06/24 17:26	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**122**	mg/L	5.0	5.0	1		05/07/24 17:38		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		05/07/24 17:38		
Alkalinity, Total as CaCO3	**122**	mg/L	5.0	5.0	1		05/07/24 17:38		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**442**	mg/L	25.0	25.0	1		05/07/24 15:59		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		05/09/24 04:45	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**7.9**	mg/L	1.0	0.60	1		05/07/24 16:08	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92728841

Sample: HAM-AP1-FD-01 **Lab ID: 92728841008** Collected: 05/02/24 00:00 Received: 05/03/24 13:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.42**	mg/L	0.10	0.050	1		05/07/24 16:08	16984-48-8	
Sulfate	**167**	mg/L	4.0	2.0	4		05/08/24 02:35	14808-79-8	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92728841

QC Batch: 852144
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92728841001, 92728841002, 92728841003, 92728841004, 92728841005, 92728841006, 92728841007, 92728841008

METHOD BLANK: 4398182 Matrix: Water
Associated Lab Samples: 92728841001, 92728841002, 92728841003, 92728841004, 92728841005, 92728841006, 92728841007, 92728841008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	05/06/24 21:58	
Iron	mg/L	ND	0.040	0.025	05/06/24 21:58	
Magnesium	mg/L	ND	0.050	0.012	05/06/24 21:58	
Manganese	mg/L	ND	0.040	0.011	05/06/24 21:58	
Potassium	mg/L	ND	0.50	0.15	05/06/24 21:58	
Sodium	mg/L	ND	1.0	0.58	05/06/24 21:58	

LABORATORY CONTROL SAMPLE: 4398183

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0	105	80-120	
Iron	mg/L	1	1.0	104	80-120	
Magnesium	mg/L	1	1.0	105	80-120	
Manganese	mg/L	1	1.0	103	80-120	
Potassium	mg/L	1	1.2	115	80-120	
Sodium	mg/L	1	1.1	114	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4398184 4398185

Parameter	Units	92728841002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	108	1	1	118	115	975	695	75-125	2	20	M1
Iron	mg/L	17.3	1	1	19.5	19.1	217	174	75-125	2	20	M1
Magnesium	mg/L	12.6	1	1	14.5	14.2	189	162	75-125	2	20	M1
Manganese	mg/L	3.6	1	1	4.8	4.7	123	111	75-125	2	20	
Potassium	mg/L	5.2	1	1	6.7	6.6	152	138	75-125	2	20	M1
Sodium	mg/L	6.5	1	1	8.1	7.9	154	135	75-125	2	20	M1

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92728841

QC Batch: 852143
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92728841001, 92728841002, 92728841003, 92728841004, 92728841005, 92728841006, 92728841007, 92728841008

METHOD BLANK: 4398178 Matrix: Water
Associated Lab Samples: 92728841001, 92728841002, 92728841003, 92728841004, 92728841005, 92728841006, 92728841007, 92728841008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00054	05/06/24 14:22	
Arsenic	mg/L	0.0039J	0.0050	0.00084	05/06/24 14:22	
Barium	mg/L	ND	0.0050	0.00047	05/06/24 14:22	
Beryllium	mg/L	ND	0.00050	0.000094	05/06/24 14:22	
Boron	mg/L	ND	0.040	0.012	05/06/24 14:22	
Cadmium	mg/L	ND	0.00050	0.00010	05/06/24 14:22	
Chromium	mg/L	ND	0.0050	0.0019	05/06/24 14:22	
Cobalt	mg/L	ND	0.0050	0.00032	05/06/24 14:22	
Lead	mg/L	ND	0.0010	0.00016	05/06/24 14:22	
Lithium	mg/L	ND	0.030	0.0016	05/06/24 14:22	
Molybdenum	mg/L	ND	0.010	0.00062	05/06/24 14:22	
Selenium	mg/L	0.0021J	0.0050	0.00096	05/06/24 14:22	
Thallium	mg/L	ND	0.0010	0.00038	05/06/24 14:22	

LABORATORY CONTROL SAMPLE: 4398179

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.097	97	80-120	
Arsenic	mg/L	0.1	0.10	102	80-120	
Barium	mg/L	0.1	0.093	93	80-120	
Beryllium	mg/L	0.1	0.099	99	80-120	
Boron	mg/L	1	1.0	100	80-120	
Cadmium	mg/L	0.1	0.094	94	80-120	
Chromium	mg/L	0.1	0.096	96	80-120	
Cobalt	mg/L	0.1	0.093	93	80-120	
Lead	mg/L	0.1	0.098	98	80-120	
Lithium	mg/L	0.1	0.10	102	80-120	
Molybdenum	mg/L	0.1	0.095	95	80-120	
Selenium	mg/L	0.1	0.10	101	80-120	
Thallium	mg/L	0.1	0.097	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4398180 4398181

Parameter	Units	92728841001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.10	0.10	102	101	75-125	1	20	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92728841

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4398180 4398181

Parameter	Units	92728841001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	0.21	0.1	0.1	0.31	0.32	93	104	75-125	3	20	
Barium	mg/L	0.042	0.1	0.1	0.14	0.13	94	92	75-125	1	20	
Beryllium	mg/L	ND	0.1	0.1	0.093	0.093	93	93	75-125	0	20	
Boron	mg/L	0.61	1	1	1.6	1.6	95	100	75-125	3	20	
Cadmium	mg/L	ND	0.1	0.1	0.094	0.095	94	95	75-125	1	20	
Chromium	mg/L	ND	0.1	0.1	0.092	0.094	92	94	75-125	2	20	
Cobalt	mg/L	0.029	0.1	0.1	0.12	0.12	90	91	75-125	1	20	
Lead	mg/L	ND	0.1	0.1	0.097	0.10	97	100	75-125	2	20	
Lithium	mg/L	0.048	0.1	0.1	0.14	0.14	97	96	75-125	0	20	
Molybdenum	mg/L	0.016	0.1	0.1	0.11	0.11	98	97	75-125	1	20	
Selenium	mg/L	0.0016J	0.1	0.1	0.10	0.10	99	102	75-125	3	20	
Thallium	mg/L	0.00048J	0.1	0.1	0.098	0.098	97	98	75-125	1	20	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92728841

QC Batch: 852339
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92728841001, 92728841002, 92728841003, 92728841004, 92728841005, 92728841006, 92728841007, 92728841008

METHOD BLANK: 4398727 Matrix: Water
Associated Lab Samples: 92728841001, 92728841002, 92728841003, 92728841004, 92728841005, 92728841006, 92728841007, 92728841008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	05/06/24 16:49	

LABORATORY CONTROL SAMPLE: 4398728

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0025	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4398729 4398730

Parameter	Units	92728841003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0024	0.0024	97	97	75-125	0	20	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92728841

QC Batch: 852662 — Analysis Method: SM 2320B-2011
QC Batch Method: SM 2320B-2011 — Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92728841001, 92728841002, 92728841003, 92728841004, 92728841005, 92728841006, 92728841007

METHOD BLANK: 4400154 — Matrix: Water
Associated Lab Samples: 92728841001, 92728841002, 92728841003, 92728841004, 92728841005, 92728841006, 92728841007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	05/07/24 14:10	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	05/07/24 14:10	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	05/07/24 14:10	

LABORATORY CONTROL SAMPLE: 4400155

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.8	104	80-120	

LABORATORY CONTROL SAMPLE: 4400156

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	52.3	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4400157 — 4400158

Parameter	Units	92727753001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	7.4	50	50	58.7	58.5	103	102	80-120	0	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4400159 — 4400160

Parameter	Units	92727753002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	ND	50	50	52.8	52.6	103	103	80-120	0	25	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92728841

QC Batch: 852668
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92728841008

METHOD BLANK: 4400185 Matrix: Water
Associated Lab Samples: 92728841008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	05/07/24 17:22	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	05/07/24 17:22	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	05/07/24 17:22	

LABORATORY CONTROL SAMPLE: 4400186

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.4	101	80-120	

LABORATORY CONTROL SAMPLE: 4400187

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.3	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4400188 4400189

Parameter	Units	92727828002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	270	50	50	318	305	96	71	80-120	4	25	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4400190 4400191

Parameter	Units	92727828003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	284	50	50	335	326	103	84	80-120	3	25	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92728841

QC Batch: 852725
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92728841001, 92728841002

METHOD BLANK: 4400519 Matrix: Water
Associated Lab Samples: 92728841001, 92728841002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	05/07/24 15:47	

LABORATORY CONTROL SAMPLE: 4400520

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	254	102	90-110	

SAMPLE DUPLICATE: 4400521

Parameter	Units	92728666001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	84.0	89.0	6	25	

SAMPLE DUPLICATE: 4400522

Parameter	Units	92728671010 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	109	107	2	25	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92728841

QC Batch: 852726 | Analysis Method: SM 2540C-2015
QC Batch Method: SM 2540C-2015 | Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92728841003, 92728841004, 92728841005, 92728841006, 92728841007, 92728841008

METHOD BLANK: 4400526 Matrix: Water
Associated Lab Samples: 92728841003, 92728841004, 92728841005, 92728841006, 92728841007, 92728841008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	05/07/24 15:58	

LABORATORY CONTROL SAMPLE: 4400527

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	256	102	90-110	

SAMPLE DUPLICATE: 4400528

Parameter	Units	92728841003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	477	460	4	25	

SAMPLE DUPLICATE: 4400529

Parameter	Units	92728786001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1370	1360	0	25	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92728841

QC Batch: 853221
QC Batch Method: SM 4500-S2D-2011
Analysis Method: SM 4500-S2D-2011
Analysis Description: 4500S2D Sulfide Water
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92728841001, 92728841002, 92728841003, 92728841004, 92728841005, 92728841006, 92728841007, 92728841008

METHOD BLANK: 4403056 Matrix: Water
Associated Lab Samples: 92728841001, 92728841002, 92728841003, 92728841004, 92728841005, 92728841006, 92728841007, 92728841008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	0.022	05/09/24 04:40	

LABORATORY CONTROL SAMPLE: 4403057

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	0.54	109	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4403058 4403059

Parameter	Units	92728841007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.55	0.56	109	113	80-120	3	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4403060 4403061

Parameter	Units	92728860002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.46	0.52	92	104	80-120	12	10	R1

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92728841

QC Batch: 852564
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92728841001, 92728841002, 92728841003, 92728841004, 92728841005, 92728841006, 92728841007, 92728841008

METHOD BLANK: 4399708 Matrix: Water
Associated Lab Samples: 92728841001, 92728841002, 92728841003, 92728841004, 92728841005, 92728841006, 92728841007, 92728841008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	05/07/24 12:54	
Fluoride	mg/L	ND	0.10	0.050	05/07/24 12:54	
Sulfate	mg/L	ND	1.0	0.50	05/07/24 12:54	

LABORATORY CONTROL SAMPLE: 4399709

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	48.7	97	90-110	
Fluoride	mg/L	2.5	2.5	101	90-110	
Sulfate	mg/L	50	47.6	95	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4399710 4399711

Parameter	Units	92728841001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	8.0	50	50	58.4	58.9	101	102	90-110	1	10	
Fluoride	mg/L	0.47	2.5	2.5	4.1	4.1	146	145	90-110	0	10	M1
Sulfate	mg/L	180	50	50	231	223	101	86	90-110	3	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4399712 4399713

Parameter	Units	92728877001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	1.5	50	50	58.2	53.1	113	103	90-110	9	10	M1
Fluoride	mg/L	0.47	2.5	2.5	4.1	3.7	145	129	90-110	10	10	M1
Sulfate	mg/L	37.7	50	50	84.1	86.7	93	98	90-110	3	10	

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QUALIFIERS

Project: Hammond AP-1
Pace Project No.: 92728841

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

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TNI - The NELAC Institute.

ANALYTE QUALIFIERS

B	Analyte was detected in the associated method blank.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
R1	RPD value was outside control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Hammond AP-1
Pace Project No.: 92728841

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92728841001	**HAM-INW-04**	EPA 3010A	852144	EPA 6010D	852161
92728841002	**HAM-INW-05**	EPA 3010A	852144	EPA 6010D	852161
92728841003	**HAM-PT-08**	EPA 3010A	852144	EPA 6010D	852161
92728841004	**HAM-PT-14**	EPA 3010A	852144	EPA 6010D	852161
92728841005	**HAM-PT-15**	EPA 3010A	852144	EPA 6010D	852161
92728841006	**HAM-AP1-EB-01**	EPA 3010A	852144	EPA 6010D	852161
92728841007	**HAM-AP1-FB-01**	EPA 3010A	852144	EPA 6010D	852161
92728841008	**HAM-AP1-FD-01**	EPA 3010A	852144	EPA 6010D	852161
92728841001	**HAM-INW-04**	EPA 3005A	852143	EPA 6020B	852177
92728841002	**HAM-INW-05**	EPA 3005A	852143	EPA 6020B	852177
92728841003	**HAM-PT-08**	EPA 3005A	852143	EPA 6020B	852177
92728841004	**HAM-PT-14**	EPA 3005A	852143	EPA 6020B	852177
92728841005	**HAM-PT-15**	EPA 3005A	852143	EPA 6020B	852177
92728841006	**HAM-AP1-EB-01**	EPA 3005A	852143	EPA 6020B	852177
92728841007	**HAM-AP1-FB-01**	EPA 3005A	852143	EPA 6020B	852177
92728841008	**HAM-AP1-FD-01**	EPA 3005A	852143	EPA 6020B	852177
92728841001	**HAM-INW-04**	EPA 7470A	852339	EPA 7470A	852477
92728841002	**HAM-INW-05**	EPA 7470A	852339	EPA 7470A	852477
92728841003	**HAM-PT-08**	EPA 7470A	852339	EPA 7470A	852477
92728841004	**HAM-PT-14**	EPA 7470A	852339	EPA 7470A	852477
92728841005	**HAM-PT-15**	EPA 7470A	852339	EPA 7470A	852477
92728841006	**HAM-AP1-EB-01**	EPA 7470A	852339	EPA 7470A	852477
92728841007	**HAM-AP1-FB-01**	EPA 7470A	852339	EPA 7470A	852477
92728841008	**HAM-AP1-FD-01**	EPA 7470A	852339	EPA 7470A	852477
92728841001	**HAM-INW-04**	SM 2320B-2011	852662		
92728841002	**HAM-INW-05**	SM 2320B-2011	852662		
92728841003	**HAM-PT-08**	SM 2320B-2011	852662		
92728841004	**HAM-PT-14**	SM 2320B-2011	852662		
92728841005	**HAM-PT-15**	SM 2320B-2011	852662		
92728841006	**HAM-AP1-EB-01**	SM 2320B-2011	852662		
92728841007	**HAM-AP1-FB-01**	SM 2320B-2011	852662		
92728841008	**HAM-AP1-FD-01**	SM 2320B-2011	852668		
92728841001	**HAM-INW-04**	SM 2540C-2015	852725		
92728841002	**HAM-INW-05**	SM 2540C-2015	852725		
92728841003	**HAM-PT-08**	SM 2540C-2015	852726		
92728841004	**HAM-PT-14**	SM 2540C-2015	852726		
92728841005	**HAM-PT-15**	SM 2540C-2015	852726		
92728841006	**HAM-AP1-EB-01**	SM 2540C-2015	852726		
92728841007	**HAM-AP1-FB-01**	SM 2540C-2015	852726		
92728841008	**HAM-AP1-FD-01**	SM 2540C-2015	852726		
92728841001	**HAM-INW-04**	SM 4500-S2D-2011	853221		
92728841002	**HAM-INW-05**	SM 4500-S2D-2011	853221		
92728841003	**HAM-PT-08**	SM 4500-S2D-2011	853221		
92728841004	**HAM-PT-14**	SM 4500-S2D-2011	853221		
92728841005	**HAM-PT-15**	SM 4500-S2D-2011	853221		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Hammond AP-1
Pace Project No.: 92728841

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92728841006	**HAM-AP1-EB-01**	SM 4500-S2D-2011	853221		
92728841007	**HAM-AP1-FB-01**	SM 4500-S2D-2011	853221		
92728841008	**HAM-AP1-FD-01**	SM 4500-S2D-2011	853221		
92728841001	**HAM-INW-04**	EPA 300.0 Rev 2.1 1993	852564		
92728841002	**HAM-INW-05**	EPA 300.0 Rev 2.1 1993	852564		
92728841003	**HAM-PT-08**	EPA 300.0 Rev 2.1 1993	852564		
92728841004	**HAM-PT-14**	EPA 300.0 Rev 2.1 1993	852564		
92728841005	**HAM-PT-15**	EPA 300.0 Rev 2.1 1993	852564		
92728841006	**HAM-AP1-EB-01**	EPA 300.0 Rev 2.1 1993	852564		
92728841007	**HAM-AP1-FB-01**	EPA 300.0 Rev 2.1 1993	852564		
92728841008	**HAM-AP1-FD-01**	EPA 300.0 Rev 2.1 1993	852564		

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DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt

Effective Date: 12/01/2023

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: G Rad

Project

WO# : 92728841

92728841

Courier: ☐ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Pace ☐ Other

Custody Seal Present? ☑ Yes ☐ No Seals Intact? ☐ Yes ☐ No ☐ N/A

Date/Initials Person Examining Contents:

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☐ N/A

Thermometer:
☐ IR Gun ID: 230 Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 2.3 Correction Factor: Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 2.3

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, excluding Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☐ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☐ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☐ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☐ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☐ Yes	☐ No	☐ N/A	
Containers Intact?	☐ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☐ N/A	8.
Sample Labels Match COC?	☐ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix:				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☐ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☐ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☐ N/A	

Field Data Required? ☐ Yes ☐ No

COMMENTS/SAMPLE DISCREPANCY

Client under cal 2 sample so split cannot be done. Per HAP-API-FD- 4.2 HAP-API-FD-02 is

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

Hattrax ID: 69614

DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt

Effective Date: 12/01/2023

WO#: 92728841

Project #

PM: BV Due Date: 05/10/24

CLIENT: 92- GP-HAM

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (Water) DOC, LLHg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Items	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic Zn Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG9H-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VGST-40 mL VOA Na2S2O3 (N/A)	VOAU-40 mL VOA Unpreserved (N/A)	DGBV-40 mL VOA H3PO4 (N/A)	KP7U-30 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SPST-125 mL Sterile Plastic (N/A - lab)	SPST-250 mL Sterile Plastic (N/A - lab)		BP3R-250 mL Plastic (NH4)2SO4 (9.3-9.7)	AGBU-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		2																											
2		2																											
3		2																											
4		2																											
5		2																											
6		2																											
7		2																											
8		2																											
9		2																											
10		2																											
11																													
12																													

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect container).

wolftax ID: 69614

Page 2 of 2

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

Section A (Required Client Information)	Section B (Required Project Information)	Section C (Invoice Information)
Company: GA Power	Report To: SCS Contacts	Attention: Southern Co
Address: Atlanta, GA	Copy To: Geosyntec Consults	Company Name:
		Address:
Email To: SCS Contacts	Purchase Order No.: GPC62474-0001	Pace Quote Reference / Project Manager:
Phone: Fax:	Project Name: Hammond AP-1	Pace Project Manager: Bonnie Vang
Requested Due Date/TAT: 5 day	Project Number:	Pace Profile #: 10235

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER

UST RCRA Other: CCR

Site Location STATE: GA

Requested Analysis Filtered (Y/N)

ITEM #	Section D (Required Client Information) — SAMPLE ID (A-Z, 0-9 / , ; Sample IDs MUST BE UNIQUE)	Valid Matrix Codes (MATRIX / CODE)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test	Y/N	N	N	N	N	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	HAM-INW-04	WATER / WT	WG	G	5/1/2024	1416		23	6	3	1					1			X	X	X	X		N	
2	HAM-INW-05	WATER / WT	WG	G	5/1/2024	0916		18	6	3	1					1			X	X	X	X		N	
3	~~HAM-PT-07~~ (5-1-2024)	WATER / WT	WG	G	5/1/2024	1021	5/2/2024	20	6	3	1					1			X	X	X	X		N	
4	HAM-PT-08	WATER / WT	WG	G	5/2/2024	0958		22	6	3	1					1			X	X	X	X		N	
5	~~HAM-PT-13~~ (5-1-2024)	WATER / WT	WG	G	5/1/2024	1021		17	6	3	1					1			X	X	X	X		N	
6	HAM-PT-14	WATER / WT	WG	G	5/2/2024	1208		19	6	3	1					1			X	X	X	X		N	
7	HAM-PT-15	WATER / WT	WG	G	5/2/2024	1340		22	6	3	1					1			X	X	X	X		N	
8	HAM-AP1-EB-01	WATER / WT	WG	G	5/2/2024	1555		20	6	3	1					1			X	X	X	X		N	
9	HAM-AP1-FB-01	WATER / WT	WG	G	5/2/2024	1313		20	6	3	1					1			X	X	X	X		N	
10	HAM-AP1-FD-01	WATER / WT	WG	G	5/2/2024	0800		20	6	3	1					1			X	X	X	X		N	
11																									
12							5/2/2024																		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Tube Code: HAM-01-HCA-05/HT202	Elizabeth Russell / Geosyntec	5/2/2024	1900	Ryan Williams / Pace	5/2/2024	1900	
	Anthony Spruill / Geosyntec	5/3/2024	1320	Ryan Williams / Pace	5/3/2024	1320	
	Ryan Williams / Pace	5/3/2024	1450		5/3	1450	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Elizabeth Russell, Zain Webb / Geosyntec Consultants, Inc.

SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY): 05/02/2024

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-Feb-2007

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

May 20, 2024

Kristen Jurinko
Southern Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, GA 30308

RE: Project: Hammond AP-1
Pace Project No.: 92730250

Dear Kristen Jurinko:

Enclosed are the analytical results for sample(s) received by the laboratory on May 10, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Asheville
- Pace Analytical Services - Peachtree Corners, GA

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Bonnie Vang
bonnie.vang@pacelabs.com
704-977-0968
Project Manager

Enclosures

cc: Kip Gray, Geosyntec
Christine Hug, Geosyntec Consultants, Inc.
Thomas Kessler, Geosyntec Consultants
Whitney Law, Geosyntec Consultants
Laura Midkiff, Southern Company
Caroline Nelson, Geosyntec Consultants, Inc
Anthony Szwast, Geosyntec Consultants

REPORT OF LABORATORY ANALYSIS

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: Hammond AP-1
Pace Project No.: 92730250

Pace Analytical Services Asheville
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Laboratory ID: 99030
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners
110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812
North Carolina Certification #: 381
South Carolina Certification #: 98011001
Virginia Certification #: 460204

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SAMPLE SUMMARY

Project: Hammond AP-1
Pace Project No.: 92730250

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92730250001	**HAM-PT-07**	Water	05/09/24 14:58	05/10/24 13:40
92730250002	**HAM-PT-13**	Water	05/09/24 16:45	05/10/24 13:40

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SAMPLE ANALYTE COUNT

Project: Hammond AP-1
Pace Project No.: 92730250

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92730250001	**HAM-PT-07**	EPA 6010D	DRB	6
		EPA 6020B	MT1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92730250002	**HAM-PT-13**	EPA 6010D	DRB	6
		EPA 6020B	MT1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	JCM	3

PASI-A = Pace Analytical Services - Asheville
PASI-GA = Pace Analytical Services - Peachtree Corners, GA

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SUMMARY OF DETECTION

Project: Hammond AP-1
Pace Project No.: 92730250

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92730250001	**HAM-PT-07**					
EPA 6010D	Sodium	6.8	mg/L	1.0	05/15/24 22:05	
EPA 6010D	Iron	16.9	mg/L	0.040	05/14/24 17:10	
EPA 6010D	Manganese	3.2	mg/L	0.040	05/14/24 17:10	
EPA 6010D	Potassium	5.6	mg/L	0.50	05/14/24 17:10	
EPA 6010D	Calcium	98.0	mg/L	1.0	05/14/24 17:10	
EPA 6010D	Magnesium	12.5	mg/L	0.050	05/14/24 17:10	
EPA 6020B	Antimony	0.00059J	mg/L	0.0030	05/15/24 14:25	
EPA 6020B	Arsenic	0.30	mg/L	0.0050	05/15/24 14:25	
EPA 6020B	Barium	0.037	mg/L	0.0050	05/15/24 14:25	
EPA 6020B	Beryllium	0.00010J	mg/L	0.00050	05/15/24 14:25	
EPA 6020B	Boron	0.55	mg/L	0.040	05/15/24 14:25	
EPA 6020B	Cobalt	0.041	mg/L	0.0050	05/15/24 14:25	
EPA 6020B	Lithium	0.064	mg/L	0.030	05/15/24 14:25	
EPA 6020B	Molybdenum	0.010	mg/L	0.010	05/15/24 14:25	
SM 2540C-2015	Total Dissolved Solids	463	mg/L	25.0	05/14/24 12:37	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	117	mg/L	5.0	05/17/24 19:33	
SM 2320B-2011	Alkalinity, Total as CaCO3	117	mg/L	5.0	05/17/24 19:33	
EPA 300.0 Rev 2.1 1993	Chloride	9.2	mg/L	1.0	05/14/24 00:00	
EPA 300.0 Rev 2.1 1993	Fluoride	0.33	mg/L	0.10	05/14/24 00:00	
EPA 300.0 Rev 2.1 1993	Sulfate	177	mg/L	4.0	05/14/24 03:34	
92730250002	**HAM-PT-13**					
EPA 6010D	Iron	15.5	mg/L	0.040	05/14/24 17:13	
EPA 6010D	Manganese	3.5	mg/L	0.040	05/14/24 17:13	
EPA 6010D	Potassium	5.0	mg/L	0.50	05/14/24 17:13	
EPA 6010D	Calcium	94.4	mg/L	1.0	05/14/24 17:13	
EPA 6010D	Magnesium	11.4	mg/L	0.050	05/14/24 17:13	
EPA 6010D	Sodium	6.9	mg/L	1.0	05/15/24 22:10	
EPA 6020B	Arsenic	0.30	mg/L	0.0050	05/15/24 14:29	
EPA 6020B	Barium	0.036	mg/L	0.0050	05/15/24 14:29	
EPA 6020B	Boron	0.54	mg/L	0.040	05/15/24 14:29	
EPA 6020B	Cobalt	0.026	mg/L	0.0050	05/15/24 14:29	
EPA 6020B	Lithium	0.061	mg/L	0.030	05/15/24 14:29	
EPA 6020B	Molybdenum	0.0095J	mg/L	0.010	05/15/24 14:29	
SM 2540C-2015	Total Dissolved Solids	472	mg/L	25.0	05/14/24 12:37	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	106	mg/L	5.0	05/17/24 19:42	
SM 2320B-2011	Alkalinity, Total as CaCO3	106	mg/L	5.0	05/17/24 19:42	
EPA 300.0 Rev 2.1 1993	Chloride	9.0	mg/L	1.0	05/14/24 00:14	
EPA 300.0 Rev 2.1 1993	Fluoride	0.35	mg/L	0.10	05/14/24 00:14	
EPA 300.0 Rev 2.1 1993	Sulfate	195	mg/L	4.0	05/14/24 03:48	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92730250

Sample: HAM-PT-07 **Lab ID: 92730250001** Collected: 05/09/24 14:58 Received: 05/10/24 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Sodium	**6.8**	mg/L	1.0	0.58	1	05/10/24 17:49	05/15/24 22:05	7440-23-5	
Iron	**16.9**	mg/L	0.040	0.025	1	05/10/24 17:49	05/14/24 17:10	7439-89-6	
Manganese	**3.2**	mg/L	0.040	0.011	1	05/10/24 17:49	05/14/24 17:10	7439-96-5	
Potassium	**5.6**	mg/L	0.50	0.15	1	05/10/24 17:49	05/14/24 17:10	7440-09-7	
Calcium	**98.0**	mg/L	1.0	0.12	1	05/10/24 17:49	05/14/24 17:10	7440-70-2	
Magnesium	**12.5**	mg/L	0.050	0.012	1	05/10/24 17:49	05/14/24 17:10	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.00059J**	mg/L	0.0030	0.00054	1	05/11/24 13:00	05/15/24 14:25	7440-36-0	
Arsenic	**0.30**	mg/L	0.0050	0.00084	1	05/11/24 13:00	05/15/24 14:25	7440-38-2	
Barium	**0.037**	mg/L	0.0050	0.00047	1	05/11/24 13:00	05/15/24 14:25	7440-39-3	
Beryllium	**0.00010J**	mg/L	0.00050	0.000094	1	05/11/24 13:00	05/15/24 14:25	7440-41-7	
Boron	**0.55**	mg/L	0.040	0.012	1	05/11/24 13:00	05/15/24 14:25	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	05/11/24 13:00	05/15/24 14:25	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	05/11/24 13:00	05/15/24 14:25	7440-47-3	
Cobalt	**0.041**	mg/L	0.0050	0.00032	1	05/11/24 13:00	05/15/24 14:25	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	05/11/24 13:00	05/15/24 14:25	7439-92-1	
Lithium	**0.064**	mg/L	0.030	0.0016	1	05/11/24 13:00	05/15/24 14:25	7439-93-2	
Molybdenum	**0.010**	mg/L	0.010	0.00062	1	05/11/24 13:00	05/15/24 14:25	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	05/11/24 13:00	05/15/24 14:25	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	05/11/24 13:00	05/15/24 14:25	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	05/16/24 17:00	05/17/24 09:15	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**463**	mg/L	25.0	25.0	1		05/14/24 12:37		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**117**	mg/L	5.0	5.0	1		05/17/24 19:33		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		05/17/24 19:33		
Alkalinity, Total as CaCO3	**117**	mg/L	5.0	5.0	1		05/17/24 19:33		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		05/11/24 02:08	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**9.2**	mg/L	1.0	0.60	1		05/14/24 00:00	16887-00-6	

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Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92730250

Sample: HAM-PT-07 **Lab ID: 92730250001** Collected: 05/09/24 14:58 Received: 05/10/24 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.33**	mg/L	0.10	0.050	1		05/14/24 00:00	16984-48-8	
Sulfate	**177**	mg/L	4.0	2.0	4		05/14/24 03:34	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92730250

Sample: HAM-PT-13 **Lab ID: 92730250002** Collected: 05/09/24 16:45 Received: 05/10/24 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**15.5**	mg/L	0.040	0.025	1	05/10/24 17:49	05/14/24 17:13	7439-89-6	
Manganese	**3.5**	mg/L	0.040	0.011	1	05/10/24 17:49	05/14/24 17:13	7439-96-5	
Potassium	**5.0**	mg/L	0.50	0.15	1	05/10/24 17:49	05/14/24 17:13	7440-09-7	
Calcium	**94.4**	mg/L	1.0	0.12	1	05/10/24 17:49	05/14/24 17:13	7440-70-2	
Magnesium	**11.4**	mg/L	0.050	0.012	1	05/10/24 17:49	05/14/24 17:13	7439-95-4	
Sodium	**6.9**	mg/L	1.0	0.58	1	05/10/24 17:49	05/15/24 22:10	7440-23-5	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	05/11/24 13:00	05/15/24 14:29	7440-36-0	
Arsenic	**0.30**	mg/L	0.0050	0.00084	1	05/11/24 13:00	05/15/24 14:29	7440-38-2	
Barium	**0.036**	mg/L	0.0050	0.00047	1	05/11/24 13:00	05/15/24 14:29	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	05/11/24 13:00	05/15/24 14:29	7440-41-7	
Boron	**0.54**	mg/L	0.040	0.012	1	05/11/24 13:00	05/15/24 14:29	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	05/11/24 13:00	05/15/24 14:29	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	05/11/24 13:00	05/15/24 14:29	7440-47-3	
Cobalt	**0.026**	mg/L	0.0050	0.00032	1	05/11/24 13:00	05/15/24 14:29	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	05/11/24 13:00	05/15/24 14:29	7439-92-1	
Lithium	**0.061**	mg/L	0.030	0.0016	1	05/11/24 13:00	05/15/24 14:29	7439-93-2	
Molybdenum	**0.0095J**	mg/L	0.010	0.00062	1	05/11/24 13:00	05/15/24 14:29	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	05/11/24 13:00	05/15/24 14:29	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	05/11/24 13:00	05/15/24 14:29	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	05/16/24 17:00	05/17/24 09:17	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**472**	mg/L	25.0	25.0	1		05/14/24 12:37		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**106**	mg/L	5.0	5.0	1		05/17/24 19:42		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		05/17/24 19:42		
Alkalinity, Total as CaCO3	**106**	mg/L	5.0	5.0	1		05/17/24 19:42		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		05/11/24 02:10	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**9.0**	mg/L	1.0	0.60	1		05/14/24 00:14	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92730250

Sample: HAM-PT-13 **Lab ID: 92730250002** Collected: 05/09/24 16:45 Received: 05/10/24 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.35**	mg/L	0.10	0.050	1		05/14/24 00:14	16984-48-8	
Sulfate	**195**	mg/L	4.0	2.0	4		05/14/24 03:48	14808-79-8	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92730250

QC Batch: 853813
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92730250001, 92730250002

METHOD BLANK: 4406154 Matrix: Water
Associated Lab Samples: 92730250001, 92730250002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	05/14/24 14:43	
Iron	mg/L	ND	0.040	0.025	05/14/24 14:43	
Magnesium	mg/L	ND	0.050	0.012	05/14/24 14:43	
Manganese	mg/L	ND	0.040	0.011	05/14/24 14:43	
Potassium	mg/L	ND	0.50	0.15	05/15/24 21:55	
Sodium	mg/L	ND	1.0	0.58	05/15/24 21:55	

LABORATORY CONTROL SAMPLE: 4406155

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	0.95J	95	80-120	
Iron	mg/L	1	0.97	97	80-120	
Magnesium	mg/L	1	0.98	98	80-120	
Manganese	mg/L	1	0.96	96	80-120	
Potassium	mg/L	1	0.89	89	80-120	
Sodium	mg/L	1	0.94J	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4406156 4406157

Parameter	Units	92729900005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	ND	1	1	1.3J	1.3J	94	98	75-125		20	
Iron	mg/L	ND	1	1	0.96	0.98	96	98	75-125	2	20	
Magnesium	mg/L	ND	1	1	1.0	1.0	95	98	75-125	2	20	
Manganese	mg/L	ND	1	1	1.1	1.1	101	99	75-125	2	20	
Potassium	mg/L	3370 ug/L	1	1	3.6	5.6	19	224	75-125	45	20	M1,R1
Sodium	mg/L	3680000 ug/L	1	1	3540	3590	-13800	-8670	75-125	1	20	M1

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92730250

QC Batch: 853920
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92730250001, 92730250002

METHOD BLANK: 4406560 Matrix: Water
Associated Lab Samples: 92730250001, 92730250002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00054	05/15/24 13:55	
Arsenic	mg/L	ND	0.0050	0.00084	05/15/24 13:55	
Barium	mg/L	ND	0.0050	0.00047	05/15/24 13:55	
Beryllium	mg/L	ND	0.00050	0.000094	05/15/24 13:55	
Boron	mg/L	ND	0.040	0.012	05/15/24 13:55	
Cadmium	mg/L	ND	0.00050	0.00010	05/15/24 13:55	
Chromium	mg/L	ND	0.0050	0.0019	05/15/24 13:55	
Cobalt	mg/L	ND	0.0050	0.00032	05/15/24 13:55	
Lead	mg/L	ND	0.0010	0.00016	05/15/24 13:55	
Lithium	mg/L	ND	0.030	0.0016	05/15/24 13:55	
Molybdenum	mg/L	ND	0.010	0.00062	05/15/24 13:55	
Selenium	mg/L	ND	0.0050	0.00096	05/15/24 13:55	
Thallium	mg/L	ND	0.0010	0.00038	05/15/24 13:55	

LABORATORY CONTROL SAMPLE: 4406561

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	106	80-120	
Arsenic	mg/L	0.1	0.10	103	80-120	
Barium	mg/L	0.1	0.10	102	80-120	
Beryllium	mg/L	0.1	0.11	109	80-120	
Boron	mg/L	1	1.1	105	80-120	
Cadmium	mg/L	0.1	0.10	103	80-120	
Chromium	mg/L	0.1	0.10	103	80-120	
Cobalt	mg/L	0.1	0.10	102	80-120	
Lead	mg/L	0.1	0.10	105	80-120	
Lithium	mg/L	0.1	0.11	110	80-120	
Molybdenum	mg/L	0.1	0.11	106	80-120	
Selenium	mg/L	0.1	0.10	104	80-120	
Thallium	mg/L	0.1	0.10	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4406562 4406563

Parameter	Units	92730292001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	0.78J ug/L	0.1	0.1	0.11	0.11	107	105	75-125	2	20	
Arsenic	mg/L	1.9J ug/L	0.1	0.1	0.11	0.11	107	104	75-125	3	20	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92730250

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4406562 4406563

Parameter	Units	92730292001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	mg/L	82.1J ug/L	0.1	0.1	0.19	0.19	108	103	75-125	2	20	
Beryllium	mg/L	ND	0.1	0.1	0.10	0.10	103	102	75-125	1	20	
Boron	mg/L	19.1J ug/L	1	1	1.0	1.0	101	99	75-125	1	20	
Cadmium	mg/L	ND	0.1	0.1	0.10	0.10	104	103	75-125	1	20	
Chromium	mg/L	4.3J ug/L	0.1	0.1	0.11	0.11	106	104	75-125	2	20	
Cobalt	mg/L	ND	0.1	0.1	0.10	0.10	103	103	75-125	0	20	
Lead	mg/L	0.19J ug/L	0.1	0.1	0.10	0.10	103	102	75-125	1	20	
Lithium	mg/L	ND	0.1	0.1	0.10	0.10	103	101	75-125	2	20	
Molybdenum	mg/L	ND	0.1	0.1	0.11	0.11	107	107	75-125	0	20	
Selenium	mg/L	ND	0.1	0.1	0.11	0.10	106	103	75-125	3	20	
Thallium	mg/L	ND	0.1	0.1	0.10	0.099	101	99	75-125	2	20	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92730250

QC Batch: 855047
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92730250001, 92730250002

METHOD BLANK: 4411728 Matrix: Water
Associated Lab Samples: 92730250001, 92730250002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	05/17/24 08:16	

LABORATORY CONTROL SAMPLE: 4411729

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0023	92	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4411730 4411731

Parameter	Units	92729900001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0022	0.0023	88	92	75-125	4	20	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92730250

QC Batch: 854348
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92730250001, 92730250002

METHOD BLANK: 4408261 Matrix: Water
Associated Lab Samples: 92730250001, 92730250002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	05/14/24 12:36	

LABORATORY CONTROL SAMPLE: 4408262

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	399	100	80-120	

SAMPLE DUPLICATE: 4408263

Parameter	Units	92730149001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	125	125	0	10	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92730250

QC Batch: 855114
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92730250001, 92730250002

METHOD BLANK: 4412185 Matrix: Water
Associated Lab Samples: 92730250001, 92730250002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	05/17/24 16:58	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	05/17/24 16:58	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	05/17/24 16:58	

LABORATORY CONTROL SAMPLE: 4412186

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.3	101	80-120	

LABORATORY CONTROL SAMPLE: 4412187

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	49.5	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4412190 4412191

Parameter	Units	92731061002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	71.7	50	50	124	122	104	101	80-120	1	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4414712 4414713

Parameter	Units	92729999001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	52.3	50	50	88.4	86.8	72	69	80-120	2	25	M1

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92730250

QC Batch: 853854
QC Batch Method: SM 4500-S2D-2011
Analysis Method: SM 4500-S2D-2011
Analysis Description: 4500S2D Sulfide Water
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92730250001, 92730250002

METHOD BLANK: 4406359 Matrix: Water
Associated Lab Samples: 92730250001, 92730250002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	0.022	05/11/24 01:56	

LABORATORY CONTROL SAMPLE: 4406360

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	0.49	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4406361 4406362

Parameter	Units	92729816001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.57	0.58	106	109	80-120	3	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4406363 4406364

Parameter	Units	92729816003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.54	0.54	106	107	80-120	1	10	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92730250

QC Batch: 854169
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92730250001, 92730250002

METHOD BLANK: 4407338 Matrix: Water
Associated Lab Samples: 92730250001, 92730250002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	05/13/24 18:31	
Fluoride	mg/L	ND	0.10	0.050	05/13/24 18:31	
Sulfate	mg/L	ND	1.0	0.50	05/13/24 18:31	

LABORATORY CONTROL SAMPLE: 4407339

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.5	99	90-110	
Fluoride	mg/L	2.5	2.4	95	90-110	
Sulfate	mg/L	50	49.6	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4407340 4407341

Parameter	Units	92730282001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	907	50	50	942	940	71	66	90-110	0	10	M1
Fluoride	mg/L	ND	2.5	2.5	ND	ND	0	0	90-110		10	D3,M1
Sulfate	mg/L	171	50	50	211	211	81	81	90-110	0	10	M1

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QUALIFIERS

Project: Hammond AP-1
Pace Project No.: 92730250

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
R1	RPD value was outside control limits.

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9800 Kincey Ave. Suite 100
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Hammond AP-1
Pace Project No.: 92730250

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92730250001	**HAM-PT-07**	EPA 3010A	853813	EPA 6010D	853829
92730250002	**HAM-PT-13**	EPA 3010A	853813	EPA 6010D	853829
92730250001	**HAM-PT-07**	EPA 3005A	853920	EPA 6020B	853946
92730250002	**HAM-PT-13**	EPA 3005A	853920	EPA 6020B	853946
92730250001	**HAM-PT-07**	EPA 7470A	855047	EPA 7470A	855155
92730250002	**HAM-PT-13**	EPA 7470A	855047	EPA 7470A	855155
92730250001	**HAM-PT-07**	SM 2540C-2015	854348		
92730250002	**HAM-PT-13**	SM 2540C-2015	854348		
92730250001	**HAM-PT-07**	SM 2320B-2011	855114		
92730250002	**HAM-PT-13**	SM 2320B-2011	855114		
92730250001	**HAM-PT-07**	SM 4500-S2D-2011	853854		
92730250002	**HAM-PT-13**	SM 4500-S2D-2011	853854		
92730250001	**HAM-PT-07**	EPA 300.0 Rev 2.1 1993	854169		
92730250002	**HAM-PT-13**	EPA 300.0 Rev 2.1 1993	854169		

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DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt

Effective Date: 12/01/2023

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Georgia Power

Project #: **WO# : 92730250**

92730250

Courier: ☐ Commercial ☐ Fed Ex ☑ Pace ☐ UPS ☐ USPS ☐ Other: ☐ Client

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No ☑ N/A

Date/Initials Person Examining Contents: 5/10/24 CH

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 083

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 2.1 Correction Factor: Add/Subtract (°C) +0.1

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 2.2

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☐ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☐ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix:	WT			
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

Field Data Required? ☐ Yes ☐ No

COMMENTS/SAMPLE DISCREPANCY

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

Qualtrax ID: 69614

WO#: 92730250

Project #

PM: BV Due Date: 05/24/24

CLIENT: 92- GP-HAM

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LL-Hg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG9A-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG6T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9W-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3B-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG8U-40 mL Amber Unpreserved vials (N/A)
1		2	1			1	1																						
2		2	1			1	1																						
3																													
4																													
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Pace Analytical
www.pacelabs.com

Page: 1 of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Geosyntec Contacts	Company Name:	
				Address:	
Email To:	SCS Contacts	Purchase Order No.:	GPC82474-0001	Pace Quote Reference:	
Phone:	Fax:	Project Name:	Hammond AP-1	Pace Project Manager:	Bonnie Vang
Requested Due Date/TAT:	5 day	Project Number:		Pace Profile #:	10839

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☑ OTHER GW

Site Location STATE: GA

Section D Required Client Information

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

SAMPLE ID
(A-Z, 0-9 / -)
Sample IDs MUST BE UNIQUE

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	COMPOSITE DATE	COMPOSITE TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	HAM-PT-07	WG	G	5/9/2024	1408			21	6	3		1					1		N N N N	N	
2	HAM-PT-13	WG	G	5/9/2024	1645			21	6	3		1					1		N N N N	N	
3																					
4						AS	5/9/2024														
5																					
6						AS	5/9/2024														
7																					
8																					
9																					
10																					
11																					
12																					

Analysis Test: Chloride, Fluoride, Sulfate; Full App. III and IV metals; Major Ions (Prisolve 10839-2); TDS

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Task Code: HAM-CCR-CA-20240529	Anthony Szwast / Geosyntec	5/10/24	1340	Ryan Williams / Pace	5/10/24	1340	
	Ryan Williams / Pace	5/10/24	1552	Rhonda Hendrix	5/10/24	1552	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Anthony Szwast / Geosyntec Consultants, Inc.

SIGNATURE of SAMPLER: Anthony Szwast DATE Signed (MM/DD/YY): 05/09/24

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Invoices are due 30 days from the date of invoice. By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-Feb-2007

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

June 17, 2024

Kristen Jurinko
Southern Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, GA 30308

RE: Project: Hammond AP-1
Pace Project No.: 92731696

Dear Kristen Jurinko:

Enclosed are the analytical results for sample(s) received by the laboratory on May 17, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Asheville
- Pace Analytical Services - Peachtree Corners, GA

Revision 1: Client requested that the lab re-check anions for HAM-AP1-FB-01 (Lab ID 92731696003) and HAM-AP1-FD-01 (lab ID 92731696005). The lab did a re-run for both samples and the results did not confirm the original. A revised report was issued.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Bonnie Vang

Bonnie Vang
bonnie.vang@pacelabs.com
704-977-0968
Project Manager

Enclosures

cc: Kip Gray, Geosyntec
Christine Hug, Geosyntec Consultants, Inc.
Thomas Kessler, Geosyntec Consultants
Whitney Law, Geosyntec Consultants
Laura Midkiff, Southern Company
Caroline Nelson, Geosyntec Consultants, Inc
Anthony Szwast, Geosyntec Consultants

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CERTIFICATIONS

Project: Hammond AP-1
Pace Project No.: 92731696

Pace Analytical Services Asheville
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Laboratory ID: 99030
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners
110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812
North Carolina Certification #: 381
South Carolina Certification #: 98011001
Virginia Certification #: 460204

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SAMPLE SUMMARY

Project: Hammond AP-1
Pace Project No.: 92731696

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92731696001	**HAM-AP1-EB-01**	Water	05/15/24 16:02	05/17/24 12:55
92731696002	**HAM-AP1-EB-02**	Water	05/15/24 16:20	05/17/24 12:55
92731696003	**HAM-AP1-FB-01**	Water	05/15/24 15:56	05/17/24 12:55
92731696004	**HAM-AP1-FB-02**	Water	05/15/24 17:19	05/17/24 12:55
92731696005	**HAM-AP1-FD-01**	Water	05/15/24 00:00	05/17/24 12:55
92731696006	**HAM-AP1-FD-02**	Water	05/15/24 00:00	05/17/24 12:55
92731696007	**HAM-INW-03**	Water	05/14/24 14:08	05/17/24 12:55
92731696008	**HAM-INW-04**	Water	05/15/24 14:20	05/17/24 12:55
92731696009	**HAM-INW-05**	Water	05/15/24 11:18	05/17/24 12:55
92731696010	**HAM-PT-07**	Water	05/16/24 12:16	05/17/24 12:55
92731696011	**HAM-PT-08**	Water	05/16/24 10:37	05/17/24 12:55
92731696012	**HAM-PT-09**	Water	05/14/24 10:40	05/17/24 12:55
92731696013	**HAM-PT-10**	Water	05/15/24 11:52	05/17/24 12:55
92731696014	**HAM-PT-11**	Water	05/14/24 15:20	05/17/24 12:55
92731696015	**HAM-PT-12**	Water	05/14/24 12:05	05/17/24 12:55
92731696016	**HAM-PT-13**	Water	05/15/24 18:45	05/17/24 12:55
92731696017	**HAM-PT-14**	Water	05/15/24 18:27	05/17/24 12:55
92731696018	**HAM-PT-15**	Water	05/15/24 16:10	05/17/24 12:55

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SAMPLE ANALYTE COUNT

Project: Hammond AP-1
Pace Project No.: 92731696

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92731696001	**HAM-AP1-EB-01**	EPA 6010D	AJM	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92731696002	**HAM-AP1-EB-02**	EPA 6010D	AJM	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92731696003	**HAM-AP1-FB-01**	EPA 6010D	AJM	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92731696004	**HAM-AP1-FB-02**	EPA 6010D	AJM	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92731696005	**HAM-AP1-FD-01**	EPA 6010D	AJM	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92731696006	**HAM-AP1-FD-02**	EPA 6010D	AJM	6
		EPA 6020B	CW1	13

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SAMPLE ANALYTE COUNT

Project: Hammond AP-1
Pace Project No.: 92731696

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92731696007	**HAM-INW-03**	EPA 6010D	AJM, DRB	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	MDW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92731696008	**HAM-INW-04**	EPA 6010D	AJM	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92731696009	**HAM-INW-05**	EPA 6010D	AJM	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92731696010	**HAM-PT-07**	EPA 6010D	AJM	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92731696011	**HAM-PT-08**	EPA 6010D	AJM	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1

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SAMPLE ANALYTE COUNT

Project: Hammond AP-1
Pace Project No.: 92731696

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92731696012	**HAM-PT-09**	EPA 6010D	AJM	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	MDW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92731696013	**HAM-PT-10**	EPA 6010D	AJM	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92731696014	**HAM-PT-11**	EPA 6010D	AJM	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	MDW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92731696015	**HAM-PT-12**	EPA 6010D	AJM	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	MDW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92731696016	**HAM-PT-13**	EPA 6010D	AJM	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1

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SAMPLE ANALYTE COUNT

Project: Hammond AP-1
Pace Project No.: 92731696

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 300.0 Rev 2.1 1993	CDC	3
92731696017	**HAM-PT-14**	EPA 6010D	AJM	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92731696018	**HAM-PT-15**	EPA 6010D	AJM, DRB	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3

PASI-A = Pace Analytical Services - Asheville
PASI-GA = Pace Analytical Services - Peachtree Corners, GA

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SUMMARY OF DETECTION

Project: Hammond AP-1
Pace Project No.: 92731696

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92731696002	**HAM-AP1-EB-02**					
EPA 6020B	Antimony	0.0013J	mg/L	0.0030	05/22/24 15:20	
92731696005	**HAM-AP1-FD-01**					
EPA 6010D	Iron	0.20	mg/L	0.040	05/23/24 01:21	
EPA 6010D	Manganese	0.70	mg/L	0.040	05/23/24 01:21	
EPA 6010D	Potassium	6.5	mg/L	0.50	05/23/24 01:21	
EPA 6010D	Sodium	8.9	mg/L	1.0	05/23/24 01:21	
EPA 6010D	Calcium	103	mg/L	1.0	05/23/24 01:21	
EPA 6010D	Magnesium	13.8	mg/L	0.050	05/23/24 01:21	
EPA 6020B	Barium	0.053	mg/L	0.0050	05/22/24 15:31	
EPA 6020B	Boron	1.5	mg/L	0.040	05/22/24 15:31	
EPA 6020B	Cobalt	0.0016J	mg/L	0.0050	05/22/24 15:31	
EPA 6020B	Molybdenum	0.090	mg/L	0.010	05/22/24 15:31	
EPA 6020B	Selenium	0.0011J	mg/L	0.0050	05/22/24 15:31	
SM 2540C-2015	Total Dissolved Solids	528	mg/L	25.0	05/20/24 12:18	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	131	mg/L	5.0	05/21/24 18:48	
SM 2320B-2011	Alkalinity, Total as CaCO3	131	mg/L	5.0	05/21/24 18:48	
EPA 300.0 Rev 2.1 1993	Chloride	49.1	mg/L	1.0	06/12/24 13:41	
EPA 300.0 Rev 2.1 1993	Fluoride	0.19	mg/L	0.10	06/12/24 13:41	
EPA 300.0 Rev 2.1 1993	Sulfate	149	mg/L	3.0	06/12/24 14:39	
92731696006	**HAM-AP1-FD-02**					
EPA 6010D	Iron	7.9	mg/L	0.040	05/23/24 01:24	
EPA 6010D	Manganese	4.6	mg/L	0.040	05/23/24 01:24	
EPA 6010D	Potassium	4.8	mg/L	0.50	05/23/24 01:24	
EPA 6010D	Sodium	6.9	mg/L	1.0	05/23/24 01:24	
EPA 6010D	Calcium	103	mg/L	1.0	05/23/24 01:24	
EPA 6010D	Magnesium	12.8	mg/L	0.050	05/23/24 01:24	
EPA 6020B	Arsenic	0.19	mg/L	0.0050	05/22/24 15:45	
EPA 6020B	Barium	0.042	mg/L	0.0050	05/22/24 15:45	
EPA 6020B	Boron	0.59	mg/L	0.040	05/22/24 15:45	
EPA 6020B	Cobalt	0.031	mg/L	0.0050	05/22/24 15:45	
EPA 6020B	Lithium	0.044	mg/L	0.030	05/22/24 15:45	
EPA 6020B	Molybdenum	0.014	mg/L	0.010	05/22/24 15:45	
SM 2540C-2015	Total Dissolved Solids	491	mg/L	25.0	05/20/24 12:18	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	138	mg/L	5.0	05/21/24 19:06	
SM 2320B-2011	Alkalinity, Total as CaCO3	138	mg/L	5.0	05/21/24 19:06	
EPA 300.0 Rev 2.1 1993	Chloride	10.1	mg/L	1.0	05/20/24 10:17	
EPA 300.0 Rev 2.1 1993	Fluoride	0.26	mg/L	0.10	05/20/24 10:17	
EPA 300.0 Rev 2.1 1993	Sulfate	189	mg/L	4.0	05/20/24 20:43	
92731696007	**HAM-INW-03**					
EPA 6010D	Sodium	12.4	mg/L	1.0	05/24/24 11:34	
EPA 6010D	Iron	0.11	mg/L	0.040	05/23/24 02:19	
EPA 6010D	Manganese	0.45	mg/L	0.040	05/23/24 02:19	
EPA 6010D	Potassium	13.8	mg/L	0.50	05/23/24 02:19	
EPA 6010D	Calcium	127	mg/L	1.0	05/23/24 02:19	
EPA 6010D	Magnesium	17.1	mg/L	0.050	05/23/24 02:19	
EPA 6020B	Barium	0.075	mg/L	0.0050	05/22/24 16:41	

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(704)875-9092

SUMMARY OF DETECTION

Project: Hammond AP-1
Pace Project No.: 92731696

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92731696007	**HAM-INW-03**					
EPA 6020B	Boron	1.5	mg/L	0.040	05/22/24 16:41	
EPA 6020B	Cobalt	0.00070J	mg/L	0.0050	05/22/24 16:41	
EPA 6020B	Lithium	0.0050J	mg/L	0.030	05/22/24 16:41	
EPA 6020B	Molybdenum	0.082	mg/L	0.010	05/22/24 16:41	
SM 2540C-2015	Total Dissolved Solids	564	mg/L	25.0	05/20/24 12:16	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	175	mg/L	5.0	05/21/24 16:31	
SM 2320B-2011	Alkalinity, Total as CaCO3	175	mg/L	5.0	05/21/24 16:31	M1
EPA 300.0 Rev 2.1 1993	Chloride	56.9	mg/L	1.0	05/21/24 00:39	M1
EPA 300.0 Rev 2.1 1993	Fluoride	0.20	mg/L	0.10	05/21/24 00:39	
EPA 300.0 Rev 2.1 1993	Sulfate	178	mg/L	4.0	05/21/24 08:01	
92731696008	**HAM-INW-04**					
EPA 6010D	Iron	8.4	mg/L	0.040	05/23/24 01:35	
EPA 6010D	Manganese	4.4	mg/L	0.040	05/23/24 01:35	
EPA 6010D	Potassium	4.8	mg/L	0.50	05/23/24 01:35	
EPA 6010D	Sodium	7.0	mg/L	1.0	05/23/24 01:35	
EPA 6010D	Calcium	107	mg/L	1.0	05/23/24 01:35	
EPA 6010D	Magnesium	13.1	mg/L	0.050	05/23/24 01:35	
EPA 6020B	Arsenic	0.19	mg/L	0.0050	05/22/24 15:49	
EPA 6020B	Barium	0.043	mg/L	0.0050	05/22/24 15:49	
EPA 6020B	Boron	0.59	mg/L	0.040	05/22/24 15:49	
EPA 6020B	Cobalt	0.031	mg/L	0.0050	05/22/24 15:49	
EPA 6020B	Lithium	0.043	mg/L	0.030	05/22/24 15:49	
EPA 6020B	Molybdenum	0.015	mg/L	0.010	05/22/24 15:49	
SM 2540C-2015	Total Dissolved Solids	483	mg/L	25.0	05/20/24 12:19	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	133	mg/L	5.0	05/21/24 19:16	
SM 2320B-2011	Alkalinity, Total as CaCO3	133	mg/L	5.0	05/21/24 19:16	
EPA 300.0 Rev 2.1 1993	Chloride	9.9	mg/L	1.0	05/21/24 01:48	
EPA 300.0 Rev 2.1 1993	Fluoride	0.28	mg/L	0.10	05/21/24 01:48	
EPA 300.0 Rev 2.1 1993	Sulfate	187	mg/L	4.0	05/21/24 08:42	
92731696009	**HAM-INW-05**					
EPA 6010D	Iron	16.9	mg/L	0.040	05/23/24 01:38	
EPA 6010D	Manganese	3.3	mg/L	0.040	05/23/24 01:38	
EPA 6010D	Potassium	4.7	mg/L	0.50	05/23/24 01:38	
EPA 6010D	Sodium	6.7	mg/L	1.0	05/23/24 01:38	
EPA 6010D	Calcium	101	mg/L	1.0	05/23/24 01:38	
EPA 6010D	Magnesium	11.8	mg/L	0.050	05/23/24 01:38	
EPA 6020B	Arsenic	0.23	mg/L	0.0050	05/22/24 15:53	
EPA 6020B	Barium	0.033	mg/L	0.0050	05/22/24 15:53	
EPA 6020B	Beryllium	0.00012J	mg/L	0.00050	05/22/24 15:53	
EPA 6020B	Boron	0.51	mg/L	0.040	05/22/24 15:53	
EPA 6020B	Cobalt	0.026	mg/L	0.0050	05/22/24 15:53	
EPA 6020B	Lithium	0.057	mg/L	0.030	05/22/24 15:53	
EPA 6020B	Molybdenum	0.0096J	mg/L	0.010	05/22/24 15:53	
SM 2540C-2015	Total Dissolved Solids	456	mg/L	25.0	05/20/24 12:20	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	123	mg/L	5.0	05/21/24 19:25	
SM 2320B-2011	Alkalinity, Total as CaCO3	123	mg/L	5.0	05/21/24 19:25	

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SUMMARY OF DETECTION

Project: Hammond AP-1
Pace Project No.: 92731696

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92731696009	**HAM-INW-05**					
EPA 300.0 Rev 2.1 1993	Chloride	6.9	mg/L	1.0	05/21/24 02:02	
EPA 300.0 Rev 2.1 1993	Fluoride	0.37	mg/L	0.10	05/21/24 02:02	
EPA 300.0 Rev 2.1 1993	Sulfate	181	mg/L	4.0	05/21/24 08:56	
92731696010	**HAM-PT-07**					
EPA 6010D	Iron	15.7	mg/L	0.040	05/23/24 01:41	
EPA 6010D	Manganese	3.4	mg/L	0.040	05/23/24 01:41	
EPA 6010D	Potassium	4.9	mg/L	0.50	05/23/24 01:41	
EPA 6010D	Sodium	7.0	mg/L	1.0	05/23/24 01:41	
EPA 6010D	Calcium	96.0	mg/L	1.0	05/23/24 01:41	
EPA 6010D	Magnesium	12.1	mg/L	0.050	05/23/24 01:41	
EPA 6020B	Arsenic	0.27	mg/L	0.0050	05/22/24 15:56	
EPA 6020B	Barium	0.034	mg/L	0.0050	05/22/24 15:56	
EPA 6020B	Boron	0.50	mg/L	0.040	05/22/24 15:56	
EPA 6020B	Cobalt	0.052	mg/L	0.0050	05/22/24 15:56	
EPA 6020B	Lithium	0.056	mg/L	0.030	05/22/24 15:56	
EPA 6020B	Molybdenum	0.0093J	mg/L	0.010	05/22/24 15:56	
SM 2540C-2015	Total Dissolved Solids	450	mg/L	25.0	05/20/24 12:22	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	116	mg/L	5.0	05/28/24 17:56	
SM 2320B-2011	Alkalinity, Total as CaCO3	116	mg/L	5.0	05/28/24 17:56	
EPA 300.0 Rev 2.1 1993	Chloride	10	mg/L	1.0	05/21/24 02:16	
EPA 300.0 Rev 2.1 1993	Fluoride	0.31	mg/L	0.10	05/21/24 02:16	
EPA 300.0 Rev 2.1 1993	Sulfate	171	mg/L	4.0	05/21/24 09:10	
92731696011	**HAM-PT-08**					
EPA 6010D	Iron	8.0	mg/L	0.040	05/23/24 01:45	
EPA 6010D	Manganese	3.3	mg/L	0.040	05/23/24 01:45	
EPA 6010D	Potassium	4.8	mg/L	0.50	05/23/24 01:45	
EPA 6010D	Sodium	7.2	mg/L	1.0	05/23/24 01:45	
EPA 6010D	Calcium	89.4	mg/L	1.0	05/23/24 01:45	
EPA 6010D	Magnesium	11.5	mg/L	0.050	05/23/24 01:45	
EPA 6020B	Arsenic	0.23	mg/L	0.0050	05/22/24 16:00	
EPA 6020B	Barium	0.041	mg/L	0.0050	05/22/24 16:00	
EPA 6020B	Boron	0.73	mg/L	0.040	05/22/24 16:00	
EPA 6020B	Cobalt	0.046	mg/L	0.0050	05/22/24 16:00	
EPA 6020B	Lead	0.0079	mg/L	0.0010	05/22/24 16:00	
EPA 6020B	Lithium	0.010J	mg/L	0.030	05/22/24 16:00	
EPA 6020B	Molybdenum	0.017	mg/L	0.010	05/22/24 16:00	
SM 2540C-2015	Total Dissolved Solids	410	mg/L	25.0	05/20/24 12:22	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	104	mg/L	5.0	05/28/24 18:06	
SM 2320B-2011	Alkalinity, Total as CaCO3	104	mg/L	5.0	05/28/24 18:06	
EPA 300.0 Rev 2.1 1993	Chloride	16.7	mg/L	1.0	05/21/24 20:59	
EPA 300.0 Rev 2.1 1993	Fluoride	0.19	mg/L	0.10	05/21/24 20:59	
EPA 300.0 Rev 2.1 1993	Sulfate	159	mg/L	4.0	05/22/24 07:35	
92731696012	**HAM-PT-09**					
EPA 6010D	Iron	0.42	mg/L	0.040	05/23/24 01:48	
EPA 6010D	Manganese	0.19	mg/L	0.040	05/23/24 01:48	
EPA 6010D	Potassium	6.1	mg/L	0.50	05/23/24 01:48	

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SUMMARY OF DETECTION

Project: Hammond AP-1
Pace Project No.: 92731696

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92731696012	**HAM-PT-09**					
EPA 6010D	Sodium	9.3	mg/L	1.0	05/23/24 01:48	
EPA 6010D	Calcium	82.8	mg/L	1.0	05/23/24 01:48	
EPA 6010D	Magnesium	23.7	mg/L	0.050	05/23/24 01:48	
EPA 6020B	Barium	0.058	mg/L	0.0050	05/22/24 16:04	
EPA 6020B	Boron	1.4	mg/L	0.040	05/22/24 16:04	
EPA 6020B	Cadmium	0.00015J	mg/L	0.00050	05/22/24 16:04	
EPA 6020B	Cobalt	0.0012J	mg/L	0.0050	05/22/24 16:04	
EPA 6020B	Lead	0.00017J	mg/L	0.0010	05/22/24 16:04	
EPA 6020B	Molybdenum	0.27	mg/L	0.010	05/22/24 16:04	
SM 2540C-2015	Total Dissolved Solids	436	mg/L	25.0	05/20/24 12:17	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	139	mg/L	5.0	05/21/24 17:10	
SM 2320B-2011	Alkalinity, Total as CaCO3	139	mg/L	5.0	05/21/24 17:10	M1
EPA 300.0 Rev 2.1 1993	Chloride	44.4	mg/L	1.0	05/21/24 02:29	
EPA 300.0 Rev 2.1 1993	Fluoride	0.37	mg/L	0.10	05/21/24 02:29	
EPA 300.0 Rev 2.1 1993	Sulfate	130	mg/L	3.0	05/21/24 10:07	M1
92731696013	**HAM-PT-10**					
EPA 6010D	Iron	0.24	mg/L	0.040	05/23/24 01:51	
EPA 6010D	Manganese	0.74	mg/L	0.040	05/23/24 01:51	
EPA 6010D	Potassium	6.7	mg/L	0.50	05/23/24 01:51	
EPA 6010D	Sodium	9.2	mg/L	1.0	05/23/24 01:51	
EPA 6010D	Calcium	108	mg/L	1.0	05/23/24 01:51	
EPA 6010D	Magnesium	14.3	mg/L	0.050	05/23/24 01:51	
EPA 6020B	Barium	0.054	mg/L	0.0050	05/22/24 16:07	
EPA 6020B	Boron	1.5	mg/L	0.040	05/22/24 16:07	
EPA 6020B	Cobalt	0.0016J	mg/L	0.0050	05/22/24 16:07	
EPA 6020B	Molybdenum	0.092	mg/L	0.010	05/22/24 16:07	
SM 2540C-2015	Total Dissolved Solids	503	mg/L	25.0	05/20/24 12:20	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	132	mg/L	5.0	05/21/24 19:35	
SM 2320B-2011	Alkalinity, Total as CaCO3	132	mg/L	5.0	05/21/24 19:35	
EPA 300.0 Rev 2.1 1993	Chloride	50.1	mg/L	1.0	05/21/24 03:11	
EPA 300.0 Rev 2.1 1993	Fluoride	0.22	mg/L	0.10	05/21/24 03:11	
EPA 300.0 Rev 2.1 1993	Sulfate	146	mg/L	3.0	05/21/24 10:48	
92731696014	**HAM-PT-11**					
EPA 6010D	Manganese	0.28	mg/L	0.040	05/23/24 01:55	
EPA 6010D	Potassium	6.0	mg/L	0.50	05/23/24 01:55	
EPA 6010D	Sodium	8.8	mg/L	1.0	05/23/24 01:55	
EPA 6010D	Calcium	90.9	mg/L	1.0	05/23/24 01:55	
EPA 6010D	Magnesium	16.2	mg/L	0.050	05/23/24 01:55	
EPA 6020B	Barium	0.057	mg/L	0.0050	05/22/24 16:11	
EPA 6020B	Boron	1.6	mg/L	0.040	05/22/24 16:11	
EPA 6020B	Cadmium	0.00013J	mg/L	0.00050	05/22/24 16:11	
EPA 6020B	Cobalt	0.0016J	mg/L	0.0050	05/22/24 16:11	
EPA 6020B	Molybdenum	0.24	mg/L	0.010	05/22/24 16:11	
SM 2540C-2015	Total Dissolved Solids	441	mg/L	25.0	05/20/24 12:17	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	125	mg/L	5.0	05/21/24 17:33	
SM 2320B-2011	Alkalinity, Total as CaCO3	125	mg/L	5.0	05/21/24 17:33	

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SUMMARY OF DETECTION

Project: Hammond AP-1
Pace Project No.: 92731696

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92731696014	**HAM-PT-11**					
EPA 300.0 Rev 2.1 1993	Chloride	41.4	mg/L	1.0	05/21/24 03:25	
EPA 300.0 Rev 2.1 1993	Fluoride	0.34	mg/L	0.10	05/21/24 03:25	
EPA 300.0 Rev 2.1 1993	Sulfate	122	mg/L	3.0	05/21/24 11:03	
92731696015	**HAM-PT-12**					
EPA 6010D	Iron	0.33	mg/L	0.040	05/23/24 01:59	
EPA 6010D	Manganese	1.0	mg/L	0.040	05/23/24 01:59	
EPA 6010D	Potassium	6.8	mg/L	0.50	05/23/24 01:59	
EPA 6010D	Sodium	11.8	mg/L	1.0	05/23/24 01:59	
EPA 6010D	Calcium	99.7	mg/L	1.0	05/23/24 01:59	
EPA 6010D	Magnesium	16.6	mg/L	0.050	05/23/24 01:59	
EPA 6020B	Barium	0.069	mg/L	0.0050	05/22/24 16:15	
EPA 6020B	Boron	1.6	mg/L	0.040	05/22/24 16:15	
EPA 6020B	Cadmium	0.00014J	mg/L	0.00050	05/22/24 16:15	
EPA 6020B	Cobalt	0.0044J	mg/L	0.0050	05/22/24 16:15	
EPA 6020B	Lead	0.00017J	mg/L	0.0010	05/22/24 16:15	
EPA 6020B	Molybdenum	0.085	mg/L	0.010	05/22/24 16:15	
SM 2540C-2015	Total Dissolved Solids	523	mg/L	25.0	05/20/24 12:17	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	129	mg/L	5.0	05/21/24 17:51	
SM 2320B-2011	Alkalinity, Total as CaCO3	129	mg/L	5.0	05/21/24 17:51	
EPA 300.0 Rev 2.1 1993	Chloride	50.3	mg/L	1.0	05/21/24 03:38	
EPA 300.0 Rev 2.1 1993	Fluoride	0.20	mg/L	0.10	05/21/24 03:38	
EPA 300.0 Rev 2.1 1993	Sulfate	125	mg/L	3.0	05/21/24 11:17	
92731696016	**HAM-PT-13**					
EPA 6010D	Iron	15.0	mg/L	0.040	05/23/24 02:02	
EPA 6010D	Manganese	3.6	mg/L	0.040	05/23/24 02:02	
EPA 6010D	Potassium	5.0	mg/L	0.50	05/23/24 02:02	
EPA 6010D	Sodium	7.8	mg/L	1.0	05/23/24 02:02	
EPA 6010D	Calcium	99.2	mg/L	1.0	05/23/24 02:02	
EPA 6010D	Magnesium	12.0	mg/L	0.050	05/23/24 02:02	
EPA 6020B	Arsenic	0.29	mg/L	0.0050	05/22/24 16:19	
EPA 6020B	Barium	0.033	mg/L	0.0050	05/22/24 16:19	
EPA 6020B	Boron	0.52	mg/L	0.040	05/22/24 16:19	
EPA 6020B	Cobalt	0.024	mg/L	0.0050	05/22/24 16:19	
EPA 6020B	Lithium	0.058	mg/L	0.030	05/22/24 16:19	
EPA 6020B	Molybdenum	0.0087J	mg/L	0.010	05/22/24 16:19	
SM 2540C-2015	Total Dissolved Solids	459	mg/L	25.0	05/20/24 12:21	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	111	mg/L	5.0	05/21/24 19:44	
SM 2320B-2011	Alkalinity, Total as CaCO3	111	mg/L	5.0	05/21/24 19:44	
EPA 300.0 Rev 2.1 1993	Chloride	9.5	mg/L	1.0	05/21/24 04:20	
EPA 300.0 Rev 2.1 1993	Fluoride	0.34	mg/L	0.10	05/21/24 04:20	
EPA 300.0 Rev 2.1 1993	Sulfate	190	mg/L	4.0	05/21/24 11:31	
92731696017	**HAM-PT-14**					
EPA 6010D	Iron	14.9	mg/L	0.040	05/23/24 02:05	
EPA 6010D	Manganese	3.1	mg/L	0.040	05/23/24 02:05	
EPA 6010D	Potassium	5.0	mg/L	0.50	05/23/24 02:05	
EPA 6010D	Sodium	6.7	mg/L	1.0	05/23/24 02:05	

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(704)875-9092

SUMMARY OF DETECTION

Project: Hammond AP-1
Pace Project No.: 92731696

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92731696017	**HAM-PT-14**					
EPA 6010D	Calcium	97.4	mg/L	1.0	05/23/24 02:05	
EPA 6010D	Magnesium	12.7	mg/L	0.050	05/23/24 02:05	
EPA 6020B	Arsenic	0.21	mg/L	0.0050	05/22/24 16:33	
EPA 6020B	Barium	0.038	mg/L	0.0050	05/22/24 16:33	
EPA 6020B	Beryllium	0.00016J	mg/L	0.00050	05/22/24 16:33	
EPA 6020B	Boron	0.51	mg/L	0.040	05/22/24 16:33	
EPA 6020B	Cobalt	0.020	mg/L	0.0050	05/22/24 16:33	
EPA 6020B	Lead	0.00046J	mg/L	0.0010	05/22/24 16:33	
EPA 6020B	Lithium	0.051	mg/L	0.030	05/22/24 16:33	
EPA 6020B	Molybdenum	0.011	mg/L	0.010	05/22/24 16:33	
SM 2540C-2015	Total Dissolved Solids	461	mg/L	25.0	05/20/24 12:21	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	121	mg/L	5.0	05/21/24 19:53	
SM 2320B-2011	Alkalinity, Total as CaCO3	121	mg/L	5.0	05/21/24 19:53	
EPA 300.0 Rev 2.1 1993	Chloride	10.5	mg/L	1.0	05/21/24 04:34	
EPA 300.0 Rev 2.1 1993	Fluoride	0.26	mg/L	0.10	05/21/24 04:34	
EPA 300.0 Rev 2.1 1993	Sulfate	175	mg/L	4.0	05/21/24 11:44	
92731696018	**HAM-PT-15**					
EPA 6010D	Sodium	8.1	mg/L	1.0	05/24/24 11:31	
EPA 6010D	Iron	9.2	mg/L	0.040	05/23/24 02:16	
EPA 6010D	Manganese	5.7	mg/L	0.040	05/23/24 02:16	
EPA 6010D	Potassium	5.3	mg/L	0.50	05/23/24 02:16	
EPA 6010D	Calcium	141	mg/L	1.0	05/23/24 02:16	
EPA 6010D	Magnesium	16.1	mg/L	0.050	05/23/24 02:16	
EPA 6020B	Arsenic	0.39	mg/L	0.0050	05/22/24 16:37	
EPA 6020B	Barium	0.043	mg/L	0.0050	05/22/24 16:37	
EPA 6020B	Boron	0.76	mg/L	0.040	05/22/24 16:37	
EPA 6020B	Cobalt	0.059	mg/L	0.0050	05/22/24 16:37	
EPA 6020B	Lithium	0.047	mg/L	0.030	05/22/24 16:37	
EPA 6020B	Molybdenum	0.021	mg/L	0.010	05/22/24 16:37	
SM 2540C-2015	Total Dissolved Solids	639	mg/L	25.0	05/20/24 12:22	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	134	mg/L	5.0	05/21/24 20:02	
SM 2320B-2011	Alkalinity, Total as CaCO3	134	mg/L	5.0	05/21/24 20:02	
EPA 300.0 Rev 2.1 1993	Chloride	12.6	mg/L	1.0	05/21/24 04:48	
EPA 300.0 Rev 2.1 1993	Fluoride	0.35	mg/L	0.10	05/21/24 04:48	
EPA 300.0 Rev 2.1 1993	Sulfate	271	mg/L	6.0	05/21/24 11:58	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92731696

Sample: HAM-AP1-EB-01 **Lab ID: 92731696001** Collected: 05/15/24 16:02 Received: 05/17/24 12:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	05/18/24 14:09	05/23/24 00:56	7439-89-6	
Manganese	ND	mg/L	0.040	0.011	1	05/18/24 14:09	05/23/24 00:56	7439-96-5	
Potassium	ND	mg/L	0.50	0.15	1	05/18/24 14:09	05/23/24 00:56	7440-09-7	
Sodium	ND	mg/L	1.0	0.58	1	05/18/24 14:09	05/23/24 00:56	7440-23-5	
Calcium	ND	mg/L	1.0	0.12	1	05/18/24 14:09	05/23/24 00:56	7440-70-2	
Magnesium	ND	mg/L	0.050	0.012	1	05/18/24 14:09	05/23/24 00:56	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	05/18/24 14:00	05/22/24 15:05	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	05/18/24 14:00	05/22/24 15:05	7440-38-2	
Barium	ND	mg/L	0.0050	0.00047	1	05/18/24 14:00	05/22/24 15:05	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	05/18/24 14:00	05/22/24 15:05	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	05/18/24 14:00	05/22/24 15:05	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	05/18/24 14:00	05/22/24 15:05	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	05/18/24 14:00	05/22/24 15:05	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	05/18/24 14:00	05/22/24 15:05	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	05/18/24 14:00	05/22/24 15:05	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	05/18/24 14:00	05/22/24 15:05	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	05/18/24 14:00	05/22/24 15:05	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	05/18/24 14:00	05/22/24 15:05	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	05/18/24 14:00	05/22/24 15:05	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	05/24/24 08:30	05/24/24 12:35	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		05/20/24 12:17		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		05/21/24 18:33		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		05/21/24 18:33		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		05/21/24 18:33		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		05/22/24 05:09	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		05/20/24 01:22	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92731696

Sample: HAM-AP1-EB-01 **Lab ID: 92731696001** Collected: 05/15/24 16:02 Received: 05/17/24 12:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	ND	mg/L	0.10	0.050	1		05/20/24 01:22	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		05/20/24 01:22	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92731696

Sample: HAM-AP1-EB-02 **Lab ID: 92731696002** Collected: 05/15/24 16:20 Received: 05/17/24 12:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	05/18/24 14:09	05/23/24 01:09	7439-89-6	
Manganese	ND	mg/L	0.040	0.011	1	05/18/24 14:09	05/23/24 01:09	7439-96-5	
Potassium	ND	mg/L	0.50	0.15	1	05/18/24 14:09	05/23/24 01:09	7440-09-7	
Sodium	ND	mg/L	1.0	0.58	1	05/18/24 14:09	05/23/24 01:09	7440-23-5	
Calcium	ND	mg/L	1.0	0.12	1	05/18/24 14:09	05/23/24 01:09	7440-70-2	
Magnesium	ND	mg/L	0.050	0.012	1	05/18/24 14:09	05/23/24 01:09	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.0013J**	mg/L	0.0030	0.00054	1	05/18/24 14:00	05/22/24 15:20	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	05/18/24 14:00	05/22/24 15:20	7440-38-2	
Barium	ND	mg/L	0.0050	0.00047	1	05/18/24 14:00	05/22/24 15:20	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	05/18/24 14:00	05/22/24 15:20	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	05/18/24 14:00	05/22/24 15:20	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	05/18/24 14:00	05/22/24 15:20	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	05/18/24 14:00	05/22/24 15:20	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	05/18/24 14:00	05/22/24 15:20	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	05/18/24 14:00	05/22/24 15:20	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	05/18/24 14:00	05/22/24 15:20	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	05/18/24 14:00	05/22/24 15:20	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	05/18/24 14:00	05/22/24 15:20	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	05/18/24 14:00	05/22/24 15:20	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	05/24/24 08:30	05/24/24 12:38	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		05/20/24 12:18		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		05/21/24 18:37		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		05/21/24 18:37		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		05/21/24 18:37		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		05/22/24 05:19	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		05/20/24 01:37	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92731696

Sample: HAM-AP1-EB-02 **Lab ID: 92731696002** Collected: 05/15/24 16:20 Received: 05/17/24 12:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	ND	mg/L	0.10	0.050	1		05/20/24 01:37	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		05/20/24 01:37	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92731696

Sample: HAM-AP1-FB-01 **Lab ID: 92731696003** Collected: 05/15/24 15:56 Received: 05/17/24 12:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	05/18/24 14:09	05/23/24 01:13	7439-89-6	
Manganese	ND	mg/L	0.040	0.011	1	05/18/24 14:09	05/23/24 01:13	7439-96-5	
Potassium	ND	mg/L	0.50	0.15	1	05/18/24 14:09	05/23/24 01:13	7440-09-7	
Sodium	ND	mg/L	1.0	0.58	1	05/18/24 14:09	05/23/24 01:13	7440-23-5	
Calcium	ND	mg/L	1.0	0.12	1	05/18/24 14:09	05/23/24 01:13	7440-70-2	
Magnesium	ND	mg/L	0.050	0.012	1	05/18/24 14:09	05/23/24 01:13	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	05/18/24 14:00	05/22/24 15:24	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	05/18/24 14:00	05/22/24 15:24	7440-38-2	
Barium	ND	mg/L	0.0050	0.00047	1	05/18/24 14:00	05/22/24 15:24	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	05/18/24 14:00	05/22/24 15:24	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	05/18/24 14:00	05/22/24 15:24	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	05/18/24 14:00	05/22/24 15:24	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	05/18/24 14:00	05/22/24 15:24	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	05/18/24 14:00	05/22/24 15:24	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	05/18/24 14:00	05/22/24 15:24	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	05/18/24 14:00	05/22/24 15:24	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	05/18/24 14:00	05/22/24 15:24	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	05/18/24 14:00	05/22/24 15:24	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	05/18/24 14:00	05/22/24 15:24	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	05/24/24 08:30	05/24/24 12:48	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		05/20/24 12:18		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		05/21/24 18:41		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		05/21/24 18:41		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		05/21/24 18:41		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		05/22/24 05:10	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		06/12/24 13:26	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92731696

Sample: HAM-AP1-FB-01 **Lab ID: 92731696003** Collected: 05/15/24 15:56 Received: 05/17/24 12:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	ND	mg/L	0.10	0.050	1		06/12/24 13:26	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		06/12/24 13:26	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92731696

Sample: HAM-AP1-FB-02 **Lab ID: 92731696004** Collected: 05/15/24 17:19 Received: 05/17/24 12:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	05/18/24 14:09	05/23/24 01:17	7439-89-6	
Manganese	ND	mg/L	0.040	0.011	1	05/18/24 14:09	05/23/24 01:17	7439-96-5	
Potassium	ND	mg/L	0.50	0.15	1	05/18/24 14:09	05/23/24 01:17	7440-09-7	
Sodium	ND	mg/L	1.0	0.58	1	05/18/24 14:09	05/23/24 01:17	7440-23-5	
Calcium	ND	mg/L	1.0	0.12	1	05/18/24 14:09	05/23/24 01:17	7440-70-2	
Magnesium	ND	mg/L	0.050	0.012	1	05/18/24 14:09	05/23/24 01:17	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	05/18/24 14:00	05/22/24 15:28	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	05/18/24 14:00	05/22/24 15:28	7440-38-2	
Barium	ND	mg/L	0.0050	0.00047	1	05/18/24 14:00	05/22/24 15:28	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	05/18/24 14:00	05/22/24 15:28	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	05/18/24 14:00	05/22/24 15:28	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	05/18/24 14:00	05/22/24 15:28	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	05/18/24 14:00	05/22/24 15:28	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	05/18/24 14:00	05/22/24 15:28	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	05/18/24 14:00	05/22/24 15:28	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	05/18/24 14:00	05/22/24 15:28	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	05/18/24 14:00	05/22/24 15:28	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	05/18/24 14:00	05/22/24 15:28	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	05/18/24 14:00	05/22/24 15:28	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	05/24/24 08:30	05/24/24 12:56	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		05/20/24 12:18		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		05/21/24 18:44		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		05/21/24 18:44		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		05/21/24 18:44		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		05/22/24 05:11	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		05/20/24 02:56	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92731696

Sample: HAM-AP1-FB-02 **Lab ID: 92731696004** Collected: 05/15/24 17:19 Received: 05/17/24 12:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	ND	mg/L	0.10	0.050	1		05/20/24 02:56	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		05/20/24 02:56	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92731696

Sample: HAM-AP1-FD-01 **Lab ID: 92731696005** Collected: 05/15/24 00:00 Received: 05/17/24 12:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.20**	mg/L	0.040	0.025	1	05/18/24 14:09	05/23/24 01:21	7439-89-6	
Manganese	**0.70**	mg/L	0.040	0.011	1	05/18/24 14:09	05/23/24 01:21	7439-96-5	
Potassium	**6.5**	mg/L	0.50	0.15	1	05/18/24 14:09	05/23/24 01:21	7440-09-7	
Sodium	**8.9**	mg/L	1.0	0.58	1	05/18/24 14:09	05/23/24 01:21	7440-23-5	
Calcium	**103**	mg/L	1.0	0.12	1	05/18/24 14:09	05/23/24 01:21	7440-70-2	
Magnesium	**13.8**	mg/L	0.050	0.012	1	05/18/24 14:09	05/23/24 01:21	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	05/18/24 14:00	05/22/24 15:31	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	05/18/24 14:00	05/22/24 15:31	7440-38-2	
Barium	**0.053**	mg/L	0.0050	0.00047	1	05/18/24 14:00	05/22/24 15:31	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	05/18/24 14:00	05/22/24 15:31	7440-41-7	
Boron	**1.5**	mg/L	0.040	0.012	1	05/18/24 14:00	05/22/24 15:31	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	05/18/24 14:00	05/22/24 15:31	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	05/18/24 14:00	05/22/24 15:31	7440-47-3	
Cobalt	**0.0016J**	mg/L	0.0050	0.00032	1	05/18/24 14:00	05/22/24 15:31	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	05/18/24 14:00	05/22/24 15:31	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	05/18/24 14:00	05/22/24 15:31	7439-93-2	
Molybdenum	**0.090**	mg/L	0.010	0.00062	1	05/18/24 14:00	05/22/24 15:31	7439-98-7	
Selenium	**0.0011J**	mg/L	0.0050	0.00096	1	05/18/24 14:00	05/22/24 15:31	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	05/18/24 14:00	05/22/24 15:31	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	05/24/24 08:30	05/24/24 12:59	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**528**	mg/L	25.0	25.0	1		05/20/24 12:18		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**131**	mg/L	5.0	5.0	1		05/21/24 18:48		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		05/21/24 18:48		
Alkalinity, Total as CaCO3	**131**	mg/L	5.0	5.0	1		05/21/24 18:48		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		05/22/24 05:12	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**49.1**	mg/L	1.0	0.60	1		06/12/24 13:41	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92731696

Sample: HAM-AP1-FD-01 **Lab ID: 92731696005** Collected: 05/15/24 00:00 Received: 05/17/24 12:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.19**	mg/L	0.10	0.050	1		06/12/24 13:41	16984-48-8	
Sulfate	**149**	mg/L	3.0	1.5	3		06/12/24 14:39	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92731696

Sample: HAM-AP1-FD-02 **Lab ID: 92731696006** Collected: 05/15/24 00:00 Received: 05/17/24 12:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**7.9**	mg/L	0.040	0.025	1	05/18/24 14:09	05/23/24 01:24	7439-89-6	
Manganese	**4.6**	mg/L	0.040	0.011	1	05/18/24 14:09	05/23/24 01:24	7439-96-5	
Potassium	**4.8**	mg/L	0.50	0.15	1	05/18/24 14:09	05/23/24 01:24	7440-09-7	
Sodium	**6.9**	mg/L	1.0	0.58	1	05/18/24 14:09	05/23/24 01:24	7440-23-5	
Calcium	**103**	mg/L	1.0	0.12	1	05/18/24 14:09	05/23/24 01:24	7440-70-2	
Magnesium	**12.8**	mg/L	0.050	0.012	1	05/18/24 14:09	05/23/24 01:24	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	05/18/24 14:00	05/22/24 15:45	7440-36-0	
Arsenic	**0.19**	mg/L	0.0050	0.00084	1	05/18/24 14:00	05/22/24 15:45	7440-38-2	
Barium	**0.042**	mg/L	0.0050	0.00047	1	05/18/24 14:00	05/22/24 15:45	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	05/18/24 14:00	05/22/24 15:45	7440-41-7	
Boron	**0.59**	mg/L	0.040	0.012	1	05/18/24 14:00	05/22/24 15:45	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	05/18/24 14:00	05/22/24 15:45	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	05/18/24 14:00	05/22/24 15:45	7440-47-3	
Cobalt	**0.031**	mg/L	0.0050	0.00032	1	05/18/24 14:00	05/22/24 15:45	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	05/18/24 14:00	05/22/24 15:45	7439-92-1	
Lithium	**0.044**	mg/L	0.030	0.0016	1	05/18/24 14:00	05/22/24 15:45	7439-93-2	
Molybdenum	**0.014**	mg/L	0.010	0.00062	1	05/18/24 14:00	05/22/24 15:45	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	05/18/24 14:00	05/22/24 15:45	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	05/18/24 14:00	05/22/24 15:45	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	05/24/24 08:30	05/24/24 13:01	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**491**	mg/L	25.0	25.0	1		05/20/24 12:18		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**138**	mg/L	5.0	5.0	1		05/21/24 19:06		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		05/21/24 19:06		
Alkalinity, Total as CaCO3	**138**	mg/L	5.0	5.0	1		05/21/24 19:06		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		05/22/24 05:12	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**10.1**	mg/L	1.0	0.60	1		05/20/24 10:17	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92731696

Sample: HAM-AP1-FD-02 **Lab ID: 92731696006** Collected: 05/15/24 00:00 Received: 05/17/24 12:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.26**	mg/L	0.10	0.050	1		05/20/24 10:17	16984-48-8	
Sulfate	**189**	mg/L	4.0	2.0	4		05/20/24 20:43	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92731696

Sample: HAM-INW-03 **Lab ID: 92731696007** Collected: 05/14/24 14:08 Received: 05/17/24 12:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Sodium	**12.4**	mg/L	1.0	0.58	1	05/18/24 14:09	05/24/24 11:34	7440-23-5	
Iron	**0.11**	mg/L	0.040	0.025	1	05/18/24 14:09	05/23/24 02:19	7439-89-6	
Manganese	**0.45**	mg/L	0.040	0.011	1	05/18/24 14:09	05/23/24 02:19	7439-96-5	
Potassium	**13.8**	mg/L	0.50	0.15	1	05/18/24 14:09	05/23/24 02:19	7440-09-7	
Calcium	**127**	mg/L	1.0	0.12	1	05/18/24 14:09	05/23/24 02:19	7440-70-2	
Magnesium	**17.1**	mg/L	0.050	0.012	1	05/18/24 14:09	05/23/24 02:19	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	05/18/24 14:00	05/22/24 16:41	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	05/18/24 14:00	05/22/24 16:41	7440-38-2	
Barium	**0.075**	mg/L	0.0050	0.00047	1	05/18/24 14:00	05/22/24 16:41	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	05/18/24 14:00	05/22/24 16:41	7440-41-7	
Boron	**1.5**	mg/L	0.040	0.012	1	05/18/24 14:00	05/22/24 16:41	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	05/18/24 14:00	05/22/24 16:41	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	05/18/24 14:00	05/22/24 16:41	7440-47-3	
Cobalt	**0.00070J**	mg/L	0.0050	0.00032	1	05/18/24 14:00	05/22/24 16:41	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	05/18/24 14:00	05/22/24 16:41	7439-92-1	
Lithium	**0.0050J**	mg/L	0.030	0.0016	1	05/18/24 14:00	05/22/24 16:41	7439-93-2	
Molybdenum	**0.082**	mg/L	0.010	0.00062	1	05/18/24 14:00	05/22/24 16:41	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	05/18/24 14:00	05/22/24 16:41	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	05/18/24 14:00	05/22/24 16:41	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	05/24/24 08:30	05/24/24 13:04	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**564**	mg/L	25.0	25.0	1		05/20/24 12:16		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**175**	mg/L	5.0	5.0	1		05/21/24 16:31		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		05/21/24 16:31		
Alkalinity, Total as CaCO3	**175**	mg/L	5.0	5.0	1		05/21/24 16:31		M1
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		05/20/24 23:45	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**56.9**	mg/L	1.0	0.60	1		05/21/24 00:39	16887-00-6	M1

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92731696

Sample: HAM-INW-03 **Lab ID: 92731696007** Collected: 05/14/24 14:08 Received: 05/17/24 12:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.20**	mg/L	0.10	0.050	1		05/21/24 00:39	16984-48-8	
Sulfate	**178**	mg/L	4.0	2.0	4		05/21/24 08:01	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92731696

Sample: HAM-INW-04 **Lab ID: 92731696008** Collected: 05/15/24 14:20 Received: 05/17/24 12:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**8.4**	mg/L	0.040	0.025	1	05/18/24 14:09	05/23/24 01:35	7439-89-6	
Manganese	**4.4**	mg/L	0.040	0.011	1	05/18/24 14:09	05/23/24 01:35	7439-96-5	
Potassium	**4.8**	mg/L	0.50	0.15	1	05/18/24 14:09	05/23/24 01:35	7440-09-7	
Sodium	**7.0**	mg/L	1.0	0.58	1	05/18/24 14:09	05/23/24 01:35	7440-23-5	
Calcium	**107**	mg/L	1.0	0.12	1	05/18/24 14:09	05/23/24 01:35	7440-70-2	
Magnesium	**13.1**	mg/L	0.050	0.012	1	05/18/24 14:09	05/23/24 01:35	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	05/18/24 14:00	05/22/24 15:49	7440-36-0	
Arsenic	**0.19**	mg/L	0.0050	0.00084	1	05/18/24 14:00	05/22/24 15:49	7440-38-2	
Barium	**0.043**	mg/L	0.0050	0.00047	1	05/18/24 14:00	05/22/24 15:49	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	05/18/24 14:00	05/22/24 15:49	7440-41-7	
Boron	**0.59**	mg/L	0.040	0.012	1	05/18/24 14:00	05/22/24 15:49	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	05/18/24 14:00	05/22/24 15:49	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	05/18/24 14:00	05/22/24 15:49	7440-47-3	
Cobalt	**0.031**	mg/L	0.0050	0.00032	1	05/18/24 14:00	05/22/24 15:49	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	05/18/24 14:00	05/22/24 15:49	7439-92-1	
Lithium	**0.043**	mg/L	0.030	0.0016	1	05/18/24 14:00	05/22/24 15:49	7439-93-2	
Molybdenum	**0.015**	mg/L	0.010	0.00062	1	05/18/24 14:00	05/22/24 15:49	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	05/18/24 14:00	05/22/24 15:49	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	05/18/24 14:00	05/22/24 15:49	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	05/24/24 08:30	05/24/24 13:07	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**483**	mg/L	25.0	25.0	1		05/20/24 12:19		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**133**	mg/L	5.0	5.0	1		05/21/24 19:16		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		05/21/24 19:16		
Alkalinity, Total as CaCO3	**133**	mg/L	5.0	5.0	1		05/21/24 19:16		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		05/22/24 05:13	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**9.9**	mg/L	1.0	0.60	1		05/21/24 01:48	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92731696

Sample: HAM-INW-04 **Lab ID: 92731696008** Collected: 05/15/24 14:20 Received: 05/17/24 12:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.28**	mg/L	0.10	0.050	1		05/21/24 01:48	16984-48-8	
Sulfate	**187**	mg/L	4.0	2.0	4		05/21/24 08:42	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92731696

Sample: HAM-INW-05 **Lab ID: 92731696009** Collected: 05/15/24 11:18 Received: 05/17/24 12:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**16.9**	mg/L	0.040	0.025	1	05/18/24 14:09	05/23/24 01:38	7439-89-6	
Manganese	**3.3**	mg/L	0.040	0.011	1	05/18/24 14:09	05/23/24 01:38	7439-96-5	
Potassium	**4.7**	mg/L	0.50	0.15	1	05/18/24 14:09	05/23/24 01:38	7440-09-7	
Sodium	**6.7**	mg/L	1.0	0.58	1	05/18/24 14:09	05/23/24 01:38	7440-23-5	
Calcium	**101**	mg/L	1.0	0.12	1	05/18/24 14:09	05/23/24 01:38	7440-70-2	
Magnesium	**11.8**	mg/L	0.050	0.012	1	05/18/24 14:09	05/23/24 01:38	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	05/18/24 14:00	05/22/24 15:53	7440-36-0	
Arsenic	**0.23**	mg/L	0.0050	0.00084	1	05/18/24 14:00	05/22/24 15:53	7440-38-2	
Barium	**0.033**	mg/L	0.0050	0.00047	1	05/18/24 14:00	05/22/24 15:53	7440-39-3	
Beryllium	**0.00012J**	mg/L	0.00050	0.000094	1	05/18/24 14:00	05/22/24 15:53	7440-41-7	
Boron	**0.51**	mg/L	0.040	0.012	1	05/18/24 14:00	05/22/24 15:53	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	05/18/24 14:00	05/22/24 15:53	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	05/18/24 14:00	05/22/24 15:53	7440-47-3	
Cobalt	**0.026**	mg/L	0.0050	0.00032	1	05/18/24 14:00	05/22/24 15:53	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	05/18/24 14:00	05/22/24 15:53	7439-92-1	
Lithium	**0.057**	mg/L	0.030	0.0016	1	05/18/24 14:00	05/22/24 15:53	7439-93-2	
Molybdenum	**0.0096J**	mg/L	0.010	0.00062	1	05/18/24 14:00	05/22/24 15:53	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	05/18/24 14:00	05/22/24 15:53	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	05/18/24 14:00	05/22/24 15:53	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	05/24/24 08:30	05/24/24 13:09	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**456**	mg/L	25.0	25.0	1		05/20/24 12:20		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**123**	mg/L	5.0	5.0	1		05/21/24 19:25		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		05/21/24 19:25		
Alkalinity, Total as CaCO3	**123**	mg/L	5.0	5.0	1		05/21/24 19:25		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		05/22/24 05:13	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**6.9**	mg/L	1.0	0.60	1		05/21/24 02:02	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92731696

Sample: HAM-INW-05 **Lab ID: 92731696009** Collected: 05/15/24 11:18 Received: 05/17/24 12:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.37**	mg/L	0.10	0.050	1		05/21/24 02:02	16984-48-8	
Sulfate	**181**	mg/L	4.0	2.0	4		05/21/24 08:56	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92731696

Sample: HAM-PT-07 **Lab ID: 92731696010** Collected: 05/16/24 12:16 Received: 05/17/24 12:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**15.7**	mg/L	0.040	0.025	1	05/18/24 14:09	05/23/24 01:41	7439-89-6	
Manganese	**3.4**	mg/L	0.040	0.011	1	05/18/24 14:09	05/23/24 01:41	7439-96-5	
Potassium	**4.9**	mg/L	0.50	0.15	1	05/18/24 14:09	05/23/24 01:41	7440-09-7	
Sodium	**7.0**	mg/L	1.0	0.58	1	05/18/24 14:09	05/23/24 01:41	7440-23-5	
Calcium	**96.0**	mg/L	1.0	0.12	1	05/18/24 14:09	05/23/24 01:41	7440-70-2	
Magnesium	**12.1**	mg/L	0.050	0.012	1	05/18/24 14:09	05/23/24 01:41	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	05/18/24 14:00	05/22/24 15:56	7440-36-0	
Arsenic	**0.27**	mg/L	0.0050	0.00084	1	05/18/24 14:00	05/22/24 15:56	7440-38-2	
Barium	**0.034**	mg/L	0.0050	0.00047	1	05/18/24 14:00	05/22/24 15:56	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	05/18/24 14:00	05/22/24 15:56	7440-41-7	
Boron	**0.50**	mg/L	0.040	0.012	1	05/18/24 14:00	05/22/24 15:56	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	05/18/24 14:00	05/22/24 15:56	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	05/18/24 14:00	05/22/24 15:56	7440-47-3	
Cobalt	**0.052**	mg/L	0.0050	0.00032	1	05/18/24 14:00	05/22/24 15:56	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	05/18/24 14:00	05/22/24 15:56	7439-92-1	
Lithium	**0.056**	mg/L	0.030	0.0016	1	05/18/24 14:00	05/22/24 15:56	7439-93-2	
Molybdenum	**0.0093J**	mg/L	0.010	0.00062	1	05/18/24 14:00	05/22/24 15:56	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	05/18/24 14:00	05/22/24 15:56	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	05/18/24 14:00	05/22/24 15:56	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	05/24/24 08:30	05/24/24 13:12	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**450**	mg/L	25.0	25.0	1		05/20/24 12:22		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**116**	mg/L	5.0	5.0	1		05/28/24 17:56		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		05/28/24 17:56		
Alkalinity, Total as CaCO3	**116**	mg/L	5.0	5.0	1		05/28/24 17:56		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		05/22/24 05:16	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**10**	mg/L	1.0	0.60	1		05/21/24 02:16	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92731696

Sample: HAM-PT-07 **Lab ID: 92731696010** Collected: 05/16/24 12:16 Received: 05/17/24 12:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.31**	mg/L	0.10	0.050	1		05/21/24 02:16	16984-48-8	
Sulfate	**171**	mg/L	4.0	2.0	4		05/21/24 09:10	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92731696

Sample: HAM-PT-08 **Lab ID: 92731696011** Collected: 05/16/24 10:37 Received: 05/17/24 12:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**8.0**	mg/L	0.040	0.025	1	05/18/24 14:09	05/23/24 01:45	7439-89-6	
Manganese	**3.3**	mg/L	0.040	0.011	1	05/18/24 14:09	05/23/24 01:45	7439-96-5	
Potassium	**4.8**	mg/L	0.50	0.15	1	05/18/24 14:09	05/23/24 01:45	7440-09-7	
Sodium	**7.2**	mg/L	1.0	0.58	1	05/18/24 14:09	05/23/24 01:45	7440-23-5	
Calcium	**89.4**	mg/L	1.0	0.12	1	05/18/24 14:09	05/23/24 01:45	7440-70-2	
Magnesium	**11.5**	mg/L	0.050	0.012	1	05/18/24 14:09	05/23/24 01:45	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	05/18/24 14:00	05/22/24 16:00	7440-36-0	
Arsenic	**0.23**	mg/L	0.0050	0.00084	1	05/18/24 14:00	05/22/24 16:00	7440-38-2	
Barium	**0.041**	mg/L	0.0050	0.00047	1	05/18/24 14:00	05/22/24 16:00	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	05/18/24 14:00	05/22/24 16:00	7440-41-7	
Boron	**0.73**	mg/L	0.040	0.012	1	05/18/24 14:00	05/22/24 16:00	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	05/18/24 14:00	05/22/24 16:00	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	05/18/24 14:00	05/22/24 16:00	7440-47-3	
Cobalt	**0.046**	mg/L	0.0050	0.00032	1	05/18/24 14:00	05/22/24 16:00	7440-48-4	
Lead	**0.0079**	mg/L	0.0010	0.00016	1	05/18/24 14:00	05/22/24 16:00	7439-92-1	
Lithium	**0.010J**	mg/L	0.030	0.0016	1	05/18/24 14:00	05/22/24 16:00	7439-93-2	
Molybdenum	**0.017**	mg/L	0.010	0.00062	1	05/18/24 14:00	05/22/24 16:00	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	05/18/24 14:00	05/22/24 16:00	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	05/18/24 14:00	05/22/24 16:00	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	05/24/24 08:30	05/24/24 13:14	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**410**	mg/L	25.0	25.0	1		05/20/24 12:22		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**104**	mg/L	5.0	5.0	1		05/28/24 18:06		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		05/28/24 18:06		
Alkalinity, Total as CaCO3	**104**	mg/L	5.0	5.0	1		05/28/24 18:06		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		05/22/24 05:17	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**16.7**	mg/L	1.0	0.60	1		05/21/24 20:59	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92731696

Sample: HAM-PT-08 **Lab ID: 92731696011** Collected: 05/16/24 10:37 Received: 05/17/24 12:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.19**	mg/L	0.10	0.050	1		05/21/24 20:59	16984-48-8	
Sulfate	**159**	mg/L	4.0	2.0	4		05/22/24 07:35	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92731696

Sample: HAM-PT-09 **Lab ID: 92731696012** Collected: 05/14/24 10:40 Received: 05/17/24 12:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.42**	mg/L	0.040	0.025	1	05/18/24 14:09	05/23/24 01:48	7439-89-6	
Manganese	**0.19**	mg/L	0.040	0.011	1	05/18/24 14:09	05/23/24 01:48	7439-96-5	
Potassium	**6.1**	mg/L	0.50	0.15	1	05/18/24 14:09	05/23/24 01:48	7440-09-7	
Sodium	**9.3**	mg/L	1.0	0.58	1	05/18/24 14:09	05/23/24 01:48	7440-23-5	
Calcium	**82.8**	mg/L	1.0	0.12	1	05/18/24 14:09	05/23/24 01:48	7440-70-2	
Magnesium	**23.7**	mg/L	0.050	0.012	1	05/18/24 14:09	05/23/24 01:48	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	05/18/24 14:00	05/22/24 16:04	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	05/18/24 14:00	05/22/24 16:04	7440-38-2	
Barium	**0.058**	mg/L	0.0050	0.00047	1	05/18/24 14:00	05/22/24 16:04	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	05/18/24 14:00	05/22/24 16:04	7440-41-7	
Boron	**1.4**	mg/L	0.040	0.012	1	05/18/24 14:00	05/22/24 16:04	7440-42-8	
Cadmium	**0.00015J**	mg/L	0.00050	0.00010	1	05/18/24 14:00	05/22/24 16:04	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	05/18/24 14:00	05/22/24 16:04	7440-47-3	
Cobalt	**0.0012J**	mg/L	0.0050	0.00032	1	05/18/24 14:00	05/22/24 16:04	7440-48-4	
Lead	**0.00017J**	mg/L	0.0010	0.00016	1	05/18/24 14:00	05/22/24 16:04	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	05/18/24 14:00	05/22/24 16:04	7439-93-2	
Molybdenum	**0.27**	mg/L	0.010	0.00062	1	05/18/24 14:00	05/22/24 16:04	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	05/18/24 14:00	05/22/24 16:04	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	05/18/24 14:00	05/22/24 16:04	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	05/24/24 08:30	05/24/24 13:17	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**436**	mg/L	25.0	25.0	1		05/20/24 12:17		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**139**	mg/L	5.0	5.0	1		05/21/24 17:10		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		05/21/24 17:10		
Alkalinity, Total as CaCO3	**139**	mg/L	5.0	5.0	1		05/21/24 17:10		M1
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		05/20/24 23:46	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**44.4**	mg/L	1.0	0.60	1		05/21/24 02:29	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92731696

Sample: HAM-PT-09 **Lab ID: 92731696012** Collected: 05/14/24 10:40 Received: 05/17/24 12:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.37**	mg/L	0.10	0.050	1		05/21/24 02:29	16984-48-8	
Sulfate	**130**	mg/L	3.0	1.5	3		05/21/24 10:07	14808-79-8	M1

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92731696

Sample: HAM-PT-10 **Lab ID: 92731696013** Collected: 05/15/24 11:52 Received: 05/17/24 12:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.24**	mg/L	0.040	0.025	1	05/18/24 14:09	05/23/24 01:51	7439-89-6	
Manganese	**0.74**	mg/L	0.040	0.011	1	05/18/24 14:09	05/23/24 01:51	7439-96-5	
Potassium	**6.7**	mg/L	0.50	0.15	1	05/18/24 14:09	05/23/24 01:51	7440-09-7	
Sodium	**9.2**	mg/L	1.0	0.58	1	05/18/24 14:09	05/23/24 01:51	7440-23-5	
Calcium	**108**	mg/L	1.0	0.12	1	05/18/24 14:09	05/23/24 01:51	7440-70-2	
Magnesium	**14.3**	mg/L	0.050	0.012	1	05/18/24 14:09	05/23/24 01:51	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	05/18/24 14:00	05/22/24 16:07	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	05/18/24 14:00	05/22/24 16:07	7440-38-2	
Barium	**0.054**	mg/L	0.0050	0.00047	1	05/18/24 14:00	05/22/24 16:07	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	05/18/24 14:00	05/22/24 16:07	7440-41-7	
Boron	**1.5**	mg/L	0.040	0.012	1	05/18/24 14:00	05/22/24 16:07	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	05/18/24 14:00	05/22/24 16:07	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	05/18/24 14:00	05/22/24 16:07	7440-47-3	
Cobalt	**0.0016J**	mg/L	0.0050	0.00032	1	05/18/24 14:00	05/22/24 16:07	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	05/18/24 14:00	05/22/24 16:07	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	05/18/24 14:00	05/22/24 16:07	7439-93-2	
Molybdenum	**0.092**	mg/L	0.010	0.00062	1	05/18/24 14:00	05/22/24 16:07	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	05/18/24 14:00	05/22/24 16:07	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	05/18/24 14:00	05/22/24 16:07	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	05/24/24 08:30	05/24/24 13:25	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**503**	mg/L	25.0	25.0	1		05/20/24 12:20		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**132**	mg/L	5.0	5.0	1		05/21/24 19:35		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		05/21/24 19:35		
Alkalinity, Total as CaCO3	**132**	mg/L	5.0	5.0	1		05/21/24 19:35		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		05/22/24 05:13	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**50.1**	mg/L	1.0	0.60	1		05/21/24 03:11	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92731696

Sample: HAM-PT-10 **Lab ID: 92731696013** Collected: 05/15/24 11:52 Received: 05/17/24 12:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.22**	mg/L	0.10	0.050	1		05/21/24 03:11	16984-48-8	
Sulfate	**146**	mg/L	3.0	1.5	3		05/21/24 10:48	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92731696

Sample: HAM-PT-11 **Lab ID: 92731696014** Collected: 05/14/24 15:20 Received: 05/17/24 12:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	05/18/24 14:09	05/23/24 01:55	7439-89-6	
Manganese	**0.28**	mg/L	0.040	0.011	1	05/18/24 14:09	05/23/24 01:55	7439-96-5	
Potassium	**6.0**	mg/L	0.50	0.15	1	05/18/24 14:09	05/23/24 01:55	7440-09-7	
Sodium	**8.8**	mg/L	1.0	0.58	1	05/18/24 14:09	05/23/24 01:55	7440-23-5	
Calcium	**90.9**	mg/L	1.0	0.12	1	05/18/24 14:09	05/23/24 01:55	7440-70-2	
Magnesium	**16.2**	mg/L	0.050	0.012	1	05/18/24 14:09	05/23/24 01:55	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	05/18/24 14:00	05/22/24 16:11	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	05/18/24 14:00	05/22/24 16:11	7440-38-2	
Barium	**0.057**	mg/L	0.0050	0.00047	1	05/18/24 14:00	05/22/24 16:11	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	05/18/24 14:00	05/22/24 16:11	7440-41-7	
Boron	**1.6**	mg/L	0.040	0.012	1	05/18/24 14:00	05/22/24 16:11	7440-42-8	
Cadmium	**0.00013J**	mg/L	0.00050	0.00010	1	05/18/24 14:00	05/22/24 16:11	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	05/18/24 14:00	05/22/24 16:11	7440-47-3	
Cobalt	**0.0016J**	mg/L	0.0050	0.00032	1	05/18/24 14:00	05/22/24 16:11	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	05/18/24 14:00	05/22/24 16:11	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	05/18/24 14:00	05/22/24 16:11	7439-93-2	
Molybdenum	**0.24**	mg/L	0.010	0.00062	1	05/18/24 14:00	05/22/24 16:11	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	05/18/24 14:00	05/22/24 16:11	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	05/18/24 14:00	05/22/24 16:11	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	05/24/24 08:30	05/24/24 13:28	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**441**	mg/L	25.0	25.0	1		05/20/24 12:17		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**125**	mg/L	5.0	5.0	1		05/21/24 17:33		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		05/21/24 17:33		
Alkalinity, Total as CaCO3	**125**	mg/L	5.0	5.0	1		05/21/24 17:33		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		05/20/24 23:46	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**41.4**	mg/L	1.0	0.60	1		05/21/24 03:25	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92731696

Sample: HAM-PT-11 **Lab ID: 92731696014** Collected: 05/14/24 15:20 Received: 05/17/24 12:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.34**	mg/L	0.10	0.050	1		05/21/24 03:25	16984-48-8	
Sulfate	**122**	mg/L	3.0	1.5	3		05/21/24 11:03	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92731696

Sample: HAM-PT-12 **Lab ID: 92731696015** Collected: 05/14/24 12:05 Received: 05/17/24 12:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.33**	mg/L	0.040	0.025	1	05/18/24 14:09	05/23/24 01:59	7439-89-6	
Manganese	**1.0**	mg/L	0.040	0.011	1	05/18/24 14:09	05/23/24 01:59	7439-96-5	
Potassium	**6.8**	mg/L	0.50	0.15	1	05/18/24 14:09	05/23/24 01:59	7440-09-7	
Sodium	**11.8**	mg/L	1.0	0.58	1	05/18/24 14:09	05/23/24 01:59	7440-23-5	
Calcium	**99.7**	mg/L	1.0	0.12	1	05/18/24 14:09	05/23/24 01:59	7440-70-2	
Magnesium	**16.6**	mg/L	0.050	0.012	1	05/18/24 14:09	05/23/24 01:59	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	05/18/24 14:00	05/22/24 16:15	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	05/18/24 14:00	05/22/24 16:15	7440-38-2	
Barium	**0.069**	mg/L	0.0050	0.00047	1	05/18/24 14:00	05/22/24 16:15	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	05/18/24 14:00	05/22/24 16:15	7440-41-7	
Boron	**1.6**	mg/L	0.040	0.012	1	05/18/24 14:00	05/22/24 16:15	7440-42-8	
Cadmium	**0.00014J**	mg/L	0.00050	0.00010	1	05/18/24 14:00	05/22/24 16:15	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	05/18/24 14:00	05/22/24 16:15	7440-47-3	
Cobalt	**0.0044J**	mg/L	0.0050	0.00032	1	05/18/24 14:00	05/22/24 16:15	7440-48-4	
Lead	**0.00017J**	mg/L	0.0010	0.00016	1	05/18/24 14:00	05/22/24 16:15	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	05/18/24 14:00	05/22/24 16:15	7439-93-2	
Molybdenum	**0.085**	mg/L	0.010	0.00062	1	05/18/24 14:00	05/22/24 16:15	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	05/18/24 14:00	05/22/24 16:15	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	05/18/24 14:00	05/22/24 16:15	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	05/24/24 08:30	05/24/24 13:30	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**523**	mg/L	25.0	25.0	1		05/20/24 12:17		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**129**	mg/L	5.0	5.0	1		05/21/24 17:51		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		05/21/24 17:51		
Alkalinity, Total as CaCO3	**129**	mg/L	5.0	5.0	1		05/21/24 17:51		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		05/20/24 23:47	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**50.3**	mg/L	1.0	0.60	1		05/21/24 03:38	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92731696

Sample: HAM-PT-12 **Lab ID: 92731696015** Collected: 05/14/24 12:05 Received: 05/17/24 12:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.20**	mg/L	0.10	0.050	1		05/21/24 03:38	16984-48-8	
Sulfate	**125**	mg/L	3.0	1.5	3		05/21/24 11:17	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92731696

Sample: HAM-PT-13 **Lab ID: 92731696016** Collected: 05/15/24 18:45 Received: 05/17/24 12:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**15.0**	mg/L	0.040	0.025	1	05/18/24 14:09	05/23/24 02:02	7439-89-6	
Manganese	**3.6**	mg/L	0.040	0.011	1	05/18/24 14:09	05/23/24 02:02	7439-96-5	
Potassium	**5.0**	mg/L	0.50	0.15	1	05/18/24 14:09	05/23/24 02:02	7440-09-7	
Sodium	**7.8**	mg/L	1.0	0.58	1	05/18/24 14:09	05/23/24 02:02	7440-23-5	
Calcium	**99.2**	mg/L	1.0	0.12	1	05/18/24 14:09	05/23/24 02:02	7440-70-2	
Magnesium	**12.0**	mg/L	0.050	0.012	1	05/18/24 14:09	05/23/24 02:02	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	05/18/24 14:00	05/22/24 16:19	7440-36-0	
Arsenic	**0.29**	mg/L	0.0050	0.00084	1	05/18/24 14:00	05/22/24 16:19	7440-38-2	
Barium	**0.033**	mg/L	0.0050	0.00047	1	05/18/24 14:00	05/22/24 16:19	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	05/18/24 14:00	05/22/24 16:19	7440-41-7	
Boron	**0.52**	mg/L	0.040	0.012	1	05/18/24 14:00	05/22/24 16:19	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	05/18/24 14:00	05/22/24 16:19	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	05/18/24 14:00	05/22/24 16:19	7440-47-3	
Cobalt	**0.024**	mg/L	0.0050	0.00032	1	05/18/24 14:00	05/22/24 16:19	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	05/18/24 14:00	05/22/24 16:19	7439-92-1	
Lithium	**0.058**	mg/L	0.030	0.0016	1	05/18/24 14:00	05/22/24 16:19	7439-93-2	
Molybdenum	**0.0087J**	mg/L	0.010	0.00062	1	05/18/24 14:00	05/22/24 16:19	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	05/18/24 14:00	05/22/24 16:19	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	05/18/24 14:00	05/22/24 16:19	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	05/24/24 08:30	05/24/24 13:33	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**459**	mg/L	25.0	25.0	1		05/20/24 12:21		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**111**	mg/L	5.0	5.0	1		05/21/24 19:44		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		05/21/24 19:44		
Alkalinity, Total as CaCO3	**111**	mg/L	5.0	5.0	1		05/21/24 19:44		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		05/22/24 05:14	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**9.5**	mg/L	1.0	0.60	1		05/21/24 04:20	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92731696

Sample: HAM-PT-13 **Lab ID: 92731696016** Collected: 05/15/24 18:45 Received: 05/17/24 12:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.34**	mg/L	0.10	0.050	1		05/21/24 04:20	16984-48-8	
Sulfate	**190**	mg/L	4.0	2.0	4		05/21/24 11:31	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92731696

Sample: HAM-PT-14 **Lab ID: 92731696017** Collected: 05/15/24 18:27 Received: 05/17/24 12:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**14.9**	mg/L	0.040	0.025	1	05/18/24 14:09	05/23/24 02:05	7439-89-6	
Manganese	**3.1**	mg/L	0.040	0.011	1	05/18/24 14:09	05/23/24 02:05	7439-96-5	
Potassium	**5.0**	mg/L	0.50	0.15	1	05/18/24 14:09	05/23/24 02:05	7440-09-7	
Sodium	**6.7**	mg/L	1.0	0.58	1	05/18/24 14:09	05/23/24 02:05	7440-23-5	
Calcium	**97.4**	mg/L	1.0	0.12	1	05/18/24 14:09	05/23/24 02:05	7440-70-2	
Magnesium	**12.7**	mg/L	0.050	0.012	1	05/18/24 14:09	05/23/24 02:05	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	05/18/24 14:00	05/22/24 16:33	7440-36-0	
Arsenic	**0.21**	mg/L	0.0050	0.00084	1	05/18/24 14:00	05/22/24 16:33	7440-38-2	
Barium	**0.038**	mg/L	0.0050	0.00047	1	05/18/24 14:00	05/22/24 16:33	7440-39-3	
Beryllium	**0.00016J**	mg/L	0.00050	0.000094	1	05/18/24 14:00	05/22/24 16:33	7440-41-7	
Boron	**0.51**	mg/L	0.040	0.012	1	05/18/24 14:00	05/22/24 16:33	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	05/18/24 14:00	05/22/24 16:33	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	05/18/24 14:00	05/22/24 16:33	7440-47-3	
Cobalt	**0.020**	mg/L	0.0050	0.00032	1	05/18/24 14:00	05/22/24 16:33	7440-48-4	
Lead	**0.00046J**	mg/L	0.0010	0.00016	1	05/18/24 14:00	05/22/24 16:33	7439-92-1	
Lithium	**0.051**	mg/L	0.030	0.0016	1	05/18/24 14:00	05/22/24 16:33	7439-93-2	
Molybdenum	**0.011**	mg/L	0.010	0.00062	1	05/18/24 14:00	05/22/24 16:33	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	05/18/24 14:00	05/22/24 16:33	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	05/18/24 14:00	05/22/24 16:33	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	05/24/24 08:30	05/24/24 13:35	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**461**	mg/L	25.0	25.0	1		05/20/24 12:21		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**121**	mg/L	5.0	5.0	1		05/21/24 19:53		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		05/21/24 19:53		
Alkalinity, Total as CaCO3	**121**	mg/L	5.0	5.0	1		05/21/24 19:53		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		05/22/24 05:14	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**10.5**	mg/L	1.0	0.60	1		05/21/24 04:34	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92731696

Sample: HAM-PT-14 **Lab ID: 92731696017** Collected: 05/15/24 18:27 Received: 05/17/24 12:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.26**	mg/L	0.10	0.050	1		05/21/24 04:34	16984-48-8	
Sulfate	**175**	mg/L	4.0	2.0	4		05/21/24 11:44	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92731696

Sample: HAM-PT-15 **Lab ID: 92731696018** Collected: 05/15/24 16:10 Received: 05/17/24 12:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Sodium	**8.1**	mg/L	1.0	0.58	1	05/18/24 14:09	05/24/24 11:31	7440-23-5	
Iron	**9.2**	mg/L	0.040	0.025	1	05/18/24 14:09	05/23/24 02:16	7439-89-6	
Manganese	**5.7**	mg/L	0.040	0.011	1	05/18/24 14:09	05/23/24 02:16	7439-96-5	
Potassium	**5.3**	mg/L	0.50	0.15	1	05/18/24 14:09	05/23/24 02:16	7440-09-7	
Calcium	**141**	mg/L	1.0	0.12	1	05/18/24 14:09	05/23/24 02:16	7440-70-2	
Magnesium	**16.1**	mg/L	0.050	0.012	1	05/18/24 14:09	05/23/24 02:16	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	05/18/24 14:00	05/22/24 16:37	7440-36-0	
Arsenic	**0.39**	mg/L	0.0050	0.00084	1	05/18/24 14:00	05/22/24 16:37	7440-38-2	
Barium	**0.043**	mg/L	0.0050	0.00047	1	05/18/24 14:00	05/22/24 16:37	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	05/18/24 14:00	05/22/24 16:37	7440-41-7	
Boron	**0.76**	mg/L	0.040	0.012	1	05/18/24 14:00	05/22/24 16:37	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	05/18/24 14:00	05/22/24 16:37	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	05/18/24 14:00	05/22/24 16:37	7440-47-3	
Cobalt	**0.059**	mg/L	0.0050	0.00032	1	05/18/24 14:00	05/22/24 16:37	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	05/18/24 14:00	05/22/24 16:37	7439-92-1	
Lithium	**0.047**	mg/L	0.030	0.0016	1	05/18/24 14:00	05/22/24 16:37	7439-93-2	
Molybdenum	**0.021**	mg/L	0.010	0.00062	1	05/18/24 14:00	05/22/24 16:37	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	05/18/24 14:00	05/22/24 16:37	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	05/18/24 14:00	05/22/24 16:37	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	05/24/24 08:30	05/24/24 13:38	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**639**	mg/L	25.0	25.0	1		05/20/24 12:22		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**134**	mg/L	5.0	5.0	1		05/21/24 20:02		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		05/21/24 20:02		
Alkalinity, Total as CaCO3	**134**	mg/L	5.0	5.0	1		05/21/24 20:02		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		05/22/24 05:15	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**12.6**	mg/L	1.0	0.60	1		05/21/24 04:48	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92731696

Sample: HAM-PT-15 **Lab ID: 92731696018** Collected: 05/15/24 16:10 Received: 05/17/24 12:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.35**	mg/L	0.10	0.050	1		05/21/24 04:48	16984-48-8	
Sulfate	**271**	mg/L	6.0	3.0	6		05/21/24 11:58	14808-79-8	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92731696

QC Batch: 855608
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92731696001, 92731696002, 92731696003, 92731696004, 92731696005, 92731696006, 92731696007, 92731696008, 92731696009, 92731696010, 92731696011, 92731696012, 92731696013, 92731696014, 92731696015, 92731696016, 92731696017, 92731696018

METHOD BLANK: 4414794
Matrix: Water
Associated Lab Samples: 92731696001, 92731696002, 92731696003, 92731696004, 92731696005, 92731696006, 92731696007, 92731696008, 92731696009, 92731696010, 92731696011, 92731696012, 92731696013, 92731696014, 92731696015, 92731696016, 92731696017, 92731696018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	05/23/24 00:42	
Iron	mg/L	ND	0.040	0.025	05/23/24 00:42	
Magnesium	mg/L	ND	0.050	0.012	05/23/24 00:42	
Manganese	mg/L	ND	0.040	0.011	05/23/24 00:42	
Potassium	mg/L	ND	0.50	0.15	05/23/24 00:42	
Sodium	mg/L	ND	1.0	0.58	05/23/24 00:42	

LABORATORY CONTROL SAMPLE: 4414795

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0	101	80-120	
Iron	mg/L	1	1.0	101	80-120	
Magnesium	mg/L	1	1.0	103	80-120	
Manganese	mg/L	1	0.99	99	80-120	
Potassium	mg/L	1	1.0	103	80-120	
Sodium	mg/L	1	1.0	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4414796 4414797

Parameter	Units	92731696001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	ND	1	1	1.0J	1.0	99	100	75-125		20	
Iron	mg/L	ND	1	1	0.99	1.0	99	100	75-125	1	20	
Magnesium	mg/L	ND	1	1	1.0	1.0	103	103	75-125	0	20	
Manganese	mg/L	ND	1	1	0.99	0.99	99	99	75-125	1	20	
Potassium	mg/L	ND	1	1	0.98	1.0	97	99	75-125	2	20	
Sodium	mg/L	ND	1	1	1.3	1.3	103	100	75-125	2	20	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92731696

QC Batch: 855534
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92731696001, 92731696002, 92731696003, 92731696004, 92731696005, 92731696006, 92731696007, 92731696008, 92731696009, 92731696010, 92731696011, 92731696012, 92731696013, 92731696014, 92731696015, 92731696016, 92731696017, 92731696018

METHOD BLANK: 4414417
Matrix: Water
Associated Lab Samples: 92731696001, 92731696002, 92731696003, 92731696004, 92731696005, 92731696006, 92731696007, 92731696008, 92731696009, 92731696010, 92731696011, 92731696012, 92731696013, 92731696014, 92731696015, 92731696016, 92731696017, 92731696018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00054	05/22/24 14:58	
Arsenic	mg/L	ND	0.0050	0.00084	05/22/24 14:58	
Barium	mg/L	ND	0.0050	0.00047	05/22/24 14:58	
Beryllium	mg/L	ND	0.00050	0.000094	05/22/24 14:58	
Boron	mg/L	ND	0.040	0.012	05/22/24 14:58	
Cadmium	mg/L	ND	0.00050	0.00010	05/22/24 14:58	
Chromium	mg/L	ND	0.0050	0.0019	05/22/24 14:58	
Cobalt	mg/L	ND	0.0050	0.00032	05/22/24 14:58	
Lead	mg/L	ND	0.0010	0.00016	05/22/24 14:58	
Lithium	mg/L	ND	0.030	0.0016	05/22/24 14:58	
Molybdenum	mg/L	ND	0.010	0.00062	05/22/24 14:58	
Selenium	mg/L	ND	0.0050	0.00096	05/22/24 14:58	
Thallium	mg/L	ND	0.0010	0.00038	05/22/24 14:58	

LABORATORY CONTROL SAMPLE: 4414418

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	106	80-120	
Arsenic	mg/L	0.1	0.10	101	80-120	
Barium	mg/L	0.1	0.10	101	80-120	
Beryllium	mg/L	0.1	0.10	104	80-120	
Boron	mg/L	1	1.0	103	80-120	
Cadmium	mg/L	0.1	0.10	103	80-120	
Chromium	mg/L	0.1	0.10	103	80-120	
Cobalt	mg/L	0.1	0.10	101	80-120	
Lead	mg/L	0.1	0.10	104	80-120	
Lithium	mg/L	0.1	0.11	106	80-120	
Molybdenum	mg/L	0.1	0.10	105	80-120	
Selenium	mg/L	0.1	0.10	101	80-120	
Thallium	mg/L	0.1	0.10	100	80-120	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92731696

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4414419 4414420

Parameter	Units	92731696001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.10	0.10	105	103	75-125	1	20	
Arsenic	mg/L	ND	0.1	0.1	0.098	0.099	98	99	75-125	1	20	
Barium	mg/L	ND	0.1	0.1	0.10	0.098	100	98	75-125	2	20	
Beryllium	mg/L	ND	0.1	0.1	0.10	0.10	102	102	75-125	0	20	
Boron	mg/L	ND	1	1	1.0	1.0	101	100	75-125	1	20	
Cadmium	mg/L	ND	0.1	0.1	0.10	0.10	100	100	75-125	0	20	
Chromium	mg/L	ND	0.1	0.1	0.099	0.098	99	98	75-125	1	20	
Cobalt	mg/L	ND	0.1	0.1	0.098	0.099	98	99	75-125	1	20	
Lead	mg/L	ND	0.1	0.1	0.10	0.10	100	101	75-125	1	20	
Lithium	mg/L	ND	0.1	0.1	0.10	0.10	104	104	75-125	0	20	
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.10	102	101	75-125	1	20	
Selenium	mg/L	ND	0.1	0.1	0.097	0.098	97	98	75-125	1	20	
Thallium	mg/L	ND	0.1	0.1	0.097	0.099	97	98	75-125	1	20	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92731696

QC Batch: 856966
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92731696001, 92731696002, 92731696003, 92731696004, 92731696005, 92731696006, 92731696007, 92731696008, 92731696009, 92731696010, 92731696011, 92731696012, 92731696013, 92731696014, 92731696015, 92731696016, 92731696017, 92731696018

METHOD BLANK: 4421300 Matrix: Water
Associated Lab Samples: 92731696001, 92731696002, 92731696003, 92731696004, 92731696005, 92731696006, 92731696007, 92731696008, 92731696009, 92731696010, 92731696011, 92731696012, 92731696013, 92731696014, 92731696015, 92731696016, 92731696017, 92731696018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	05/24/24 12:26	

LABORATORY CONTROL SAMPLE: 4421301

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0024	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4421302 4421303

Parameter	Units	92731696002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0024	0.0024	95	95	75-125	1	20	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92731696

QC Batch: 855801
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92731696001, 92731696002, 92731696003, 92731696004, 92731696005, 92731696006, 92731696007, 92731696008, 92731696009, 92731696010, 92731696011, 92731696012, 92731696013, 92731696014, 92731696015, 92731696016, 92731696017, 92731696018

METHOD BLANK: 4415457
Matrix: Water
Associated Lab Samples: 92731696001, 92731696002, 92731696003, 92731696004, 92731696005, 92731696006, 92731696007, 92731696008, 92731696009, 92731696010, 92731696011, 92731696012, 92731696013, 92731696014, 92731696015, 92731696016, 92731696017, 92731696018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	05/20/24 12:16	

LABORATORY CONTROL SAMPLE: 4415458

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	396	99	80-120	

SAMPLE DUPLICATE: 4415459

Parameter	Units	92731696007 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	564	575	2	10	

SAMPLE DUPLICATE: 4415460

Parameter	Units	92731696008 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	483	478	1	10	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92731696

QC Batch: 856180 — Analysis Method: SM 2320B-2011
QC Batch Method: SM 2320B-2011 — Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92731696001, 92731696002, 92731696003, 92731696004, 92731696005, 92731696006, 92731696007, 92731696008, 92731696009, 92731696012, 92731696013, 92731696014, 92731696015, 92731696016, 92731696017, 92731696018

METHOD BLANK: 4417200 — Matrix: Water
Associated Lab Samples: 92731696001, 92731696002, 92731696003, 92731696004, 92731696005, 92731696006, 92731696007, 92731696008, 92731696009, 92731696012, 92731696013, 92731696014, 92731696015, 92731696016, 92731696017, 92731696018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	05/21/24 16:14	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	05/21/24 16:14	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	05/21/24 16:14	

LABORATORY CONTROL SAMPLE: 4417201

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.4	103	80-120	

LABORATORY CONTROL SAMPLE: 4417202

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	49.9	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4417203 4417204

Parameter	Units	92731696007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	175	50	50	214	211	79	72	80-120	2	25	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4417205 4417206

Parameter	Units	92731696012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	139	50	50	181	177	83	77	80-120	2	25	M1

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92731696

QC Batch: 857348
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92731696010, 92731696011

METHOD BLANK: 4422747 Matrix: Water
Associated Lab Samples: 92731696010, 92731696011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	05/28/24 16:34	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	05/28/24 16:34	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	05/28/24 16:34	

LABORATORY CONTROL SAMPLE: 4422748

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.4	101	80-120	

LABORATORY CONTROL SAMPLE: 4422749

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.0	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4422750 4422751

Parameter	Units	92731615001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	75300 ug/L	50	50	124	125	98	99	80-120	0	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4422752 4422753

Parameter	Units	92732006003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	766	50	50	804	820	76	109	80-120	2	25	M1

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92731696

QC Batch: 855942
QC Batch Method: SM 4500-S2D-2011
Analysis Method: SM 4500-S2D-2011
Analysis Description: 4500S2D Sulfide Water
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92731696007, 92731696012, 92731696014, 92731696015

METHOD BLANK: 4416179 Matrix: Water
Associated Lab Samples: 92731696007, 92731696012, 92731696014, 92731696015

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	0.022	05/20/24 23:35	

LABORATORY CONTROL SAMPLE: 4416180

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	0.53	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4416181 4416182

Parameter	Units	92731245002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.55	0.55	106	106	80-120	0	10	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92731696

QC Batch: 856274 — Analysis Method: SM 4500-S2D-2011
QC Batch Method: SM 4500-S2D-2011 — Analysis Description: 4500S2D Sulfide Water
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92731696001, 92731696003, 92731696004, 92731696005, 92731696006, 92731696008, 92731696009, 92731696010, 92731696011, 92731696013, 92731696016, 92731696017, 92731696018

METHOD BLANK: 4417824 — Matrix: Water
Associated Lab Samples: 92731696001, 92731696003, 92731696004, 92731696005, 92731696006, 92731696008, 92731696009, 92731696010, 92731696011, 92731696013, 92731696016, 92731696017, 92731696018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	0.022	05/22/24 05:06	

LABORATORY CONTROL SAMPLE: 4417825

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	0.45	89	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4417826 4417827

Parameter	Units	92731245003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.49	0.49	94	95	80-120	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4417828 4417829

Parameter	Units	92731696001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.48	0.50	96	100	80-120	4	10	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92731696

QC Batch: 856275
QC Batch Method: SM 4500-S2D-2011
Analysis Method: SM 4500-S2D-2011
Analysis Description: 4500S2D Sulfide Water
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92731696002

METHOD BLANK: 4417830 Matrix: Water
Associated Lab Samples: 92731696002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	0.022	05/22/24 05:18	

LABORATORY CONTROL SAMPLE: 4417831

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	0.49	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4417832 4417833

Parameter	Units	92731696002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.49	0.48	99	97	80-120	2	10	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92731696

QC Batch: 855697
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92731696001, 92731696002, 92731696004, 92731696006

METHOD BLANK: 4415009 Matrix: Water
Associated Lab Samples: 92731696001, 92731696002, 92731696004, 92731696006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	05/20/24 00:22	
Fluoride	mg/L	ND	0.10	0.050	05/20/24 00:22	
Sulfate	mg/L	ND	1.0	0.50	05/20/24 00:22	

LABORATORY CONTROL SAMPLE: 4415010

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.3	99	90-110	
Fluoride	mg/L	2.5	2.4	97	90-110	
Sulfate	mg/L	50	49.1	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4415011 4415012

Parameter	Units	92731542009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	151	50	50	199	199	95	96	90-110	0	10	
Fluoride	mg/L	0.081J	2.5	2.5	2.7	2.7	104	103	90-110	1	10	
Sulfate	mg/L	3.0	50	50	55.7	55.2	105	104	90-110	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4415013 4415014

Parameter	Units	92731735001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	492	50	50	530	529	75	74	90-110	0	10	M1
Fluoride	mg/L	ND	2.5	2.5	ND	ND	0	0	90-110		10	M1
Sulfate	mg/L	16.9	50	50	70.8	69.6	108	105	90-110	2	10	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92731696

QC Batch: 855920
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92731696007, 92731696008, 92731696009, 92731696010, 92731696012, 92731696013, 92731696014, 92731696015, 92731696016, 92731696017, 92731696018

METHOD BLANK: 4416092 Matrix: Water
Associated Lab Samples: 92731696007, 92731696008, 92731696009, 92731696010, 92731696012, 92731696013, 92731696014, 92731696015, 92731696016, 92731696017, 92731696018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	05/20/24 20:15	
Fluoride	mg/L	ND	0.10	0.050	05/20/24 20:15	
Sulfate	mg/L	ND	1.0	0.50	05/20/24 20:15	

LABORATORY CONTROL SAMPLE: 4416093

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	53.3	107	90-110	
Fluoride	mg/L	2.5	2.6	103	90-110	
Sulfate	mg/L	50	53.5	107	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4416094 4416095

Parameter	Units	92731696007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	56.9	50	50	97.8	98.5	82	83	90-110	1	10	M1
Fluoride	mg/L	0.20	2.5	2.5	2.7	2.7	99	102	90-110	2	10	
Sulfate	mg/L	178	50	50	224	225	93	93	90-110	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4416096 4416097

Parameter	Units	92731696012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	44.4	50	50	96.7	97.9	105	107	90-110	1	10	
Fluoride	mg/L	0.37	2.5	2.5	2.9	2.9	100	103	90-110	2	10	
Sulfate	mg/L	130	50	50	175	177	89	94	90-110	1	10	M1

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92731696

QC Batch: 856238
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92731696011

METHOD BLANK: 4417658 Matrix: Water
Associated Lab Samples: 92731696011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	05/21/24 20:18	
Fluoride	mg/L	ND	0.10	0.050	05/21/24 20:18	
Sulfate	mg/L	ND	1.0	0.50	05/21/24 20:18	

LABORATORY CONTROL SAMPLE: 4417659

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	52.0	104	90-110	
Fluoride	mg/L	2.5	2.6	102	90-110	
Sulfate	mg/L	50	52.1	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4417660 4417661

Parameter	Units	92732137001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	533	50	50	569	579	73	92	90-110	2	10	M1
Fluoride	mg/L	0.74	2.5	2.5	2.3	2.4	64	66	90-110	2	10	M1
Sulfate	mg/L	357	50	50	398	404	81	95	90-110	2	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4417662 4417663

Parameter	Units	92732121002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	4.5	50	50	58.4	60.2	108	111	90-110	3	10	M1
Fluoride	mg/L	0.061J	2.5	2.5	2.6	2.7	101	106	90-110	5	10	
Sulfate	mg/L	88.0	50	50	125	128	74	79	90-110	2	10	M1

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92731696

QC Batch: 860766
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92731696003, 92731696005

METHOD BLANK: 4439360 Matrix: Water
Associated Lab Samples: 92731696003, 92731696005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	06/12/24 12:57	
Fluoride	mg/L	ND	0.10	0.050	06/12/24 12:57	
Sulfate	mg/L	ND	1.0	0.50	06/12/24 12:57	

LABORATORY CONTROL SAMPLE: 4439361

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	51.5	103	90-110	
Fluoride	mg/L	2.5	2.6	105	90-110	
Sulfate	mg/L	50	51.5	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4439362 4439363

Parameter	Units	92735940001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	14.2	50	50	64.9	65.3	101	102	90-110	1	10	
Fluoride	mg/L	0.056J	2.5	2.5	2.7	2.7	104	105	90-110	1	10	
Sulfate	mg/L	11.5	50	50	62.8	63.0	103	103	90-110	0	10	

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QUALIFIERS

Project: Hammond AP-1
Pace Project No.: 92731696

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Hammond AP-1
Pace Project No.: 92731696

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92731696001	**HAM-AP1-EB-01**	EPA 3010A	855608	EPA 6010D	855649
92731696002	**HAM-AP1-EB-02**	EPA 3010A	855608	EPA 6010D	855649
92731696003	**HAM-AP1-FB-01**	EPA 3010A	855608	EPA 6010D	855649
92731696004	**HAM-AP1-FB-02**	EPA 3010A	855608	EPA 6010D	855649
92731696005	**HAM-AP1-FD-01**	EPA 3010A	855608	EPA 6010D	855649
92731696006	**HAM-AP1-FD-02**	EPA 3010A	855608	EPA 6010D	855649
92731696007	**HAM-INW-03**	EPA 3010A	855608	EPA 6010D	855649
92731696008	**HAM-INW-04**	EPA 3010A	855608	EPA 6010D	855649
92731696009	**HAM-INW-05**	EPA 3010A	855608	EPA 6010D	855649
92731696010	**HAM-PT-07**	EPA 3010A	855608	EPA 6010D	855649
92731696011	**HAM-PT-08**	EPA 3010A	855608	EPA 6010D	855649
92731696012	**HAM-PT-09**	EPA 3010A	855608	EPA 6010D	855649
92731696013	**HAM-PT-10**	EPA 3010A	855608	EPA 6010D	855649
92731696014	**HAM-PT-11**	EPA 3010A	855608	EPA 6010D	855649
92731696015	**HAM-PT-12**	EPA 3010A	855608	EPA 6010D	855649
92731696016	**HAM-PT-13**	EPA 3010A	855608	EPA 6010D	855649
92731696017	**HAM-PT-14**	EPA 3010A	855608	EPA 6010D	855649
92731696018	**HAM-PT-15**	EPA 3010A	855608	EPA 6010D	855649
92731696001	**HAM-AP1-EB-01**	EPA 3005A	855534	EPA 6020B	855663
92731696002	**HAM-AP1-EB-02**	EPA 3005A	855534	EPA 6020B	855663
92731696003	**HAM-AP1-FB-01**	EPA 3005A	855534	EPA 6020B	855663
92731696004	**HAM-AP1-FB-02**	EPA 3005A	855534	EPA 6020B	855663
92731696005	**HAM-AP1-FD-01**	EPA 3005A	855534	EPA 6020B	855663
92731696006	**HAM-AP1-FD-02**	EPA 3005A	855534	EPA 6020B	855663
92731696007	**HAM-INW-03**	EPA 3005A	855534	EPA 6020B	855663
92731696008	**HAM-INW-04**	EPA 3005A	855534	EPA 6020B	855663
92731696009	**HAM-INW-05**	EPA 3005A	855534	EPA 6020B	855663
92731696010	**HAM-PT-07**	EPA 3005A	855534	EPA 6020B	855663
92731696011	**HAM-PT-08**	EPA 3005A	855534	EPA 6020B	855663
92731696012	**HAM-PT-09**	EPA 3005A	855534	EPA 6020B	855663
92731696013	**HAM-PT-10**	EPA 3005A	855534	EPA 6020B	855663
92731696014	**HAM-PT-11**	EPA 3005A	855534	EPA 6020B	855663
92731696015	**HAM-PT-12**	EPA 3005A	855534	EPA 6020B	855663
92731696016	**HAM-PT-13**	EPA 3005A	855534	EPA 6020B	855663
92731696017	**HAM-PT-14**	EPA 3005A	855534	EPA 6020B	855663
92731696018	**HAM-PT-15**	EPA 3005A	855534	EPA 6020B	855663
92731696001	**HAM-AP1-EB-01**	EPA 7470A	856966	EPA 7470A	856985
92731696002	**HAM-AP1-EB-02**	EPA 7470A	856966	EPA 7470A	856985
92731696003	**HAM-AP1-FB-01**	EPA 7470A	856966	EPA 7470A	856985
92731696004	**HAM-AP1-FB-02**	EPA 7470A	856966	EPA 7470A	856985
92731696005	**HAM-AP1-FD-01**	EPA 7470A	856966	EPA 7470A	856985
92731696006	**HAM-AP1-FD-02**	EPA 7470A	856966	EPA 7470A	856985
92731696007	**HAM-INW-03**	EPA 7470A	856966	EPA 7470A	856985
92731696008	**HAM-INW-04**	EPA 7470A	856966	EPA 7470A	856985
92731696009	**HAM-INW-05**	EPA 7470A	856966	EPA 7470A	856985
92731696010	**HAM-PT-07**	EPA 7470A	856966	EPA 7470A	856985
92731696011	**HAM-PT-08**	EPA 7470A	856966	EPA 7470A	856985
92731696012	**HAM-PT-09**	EPA 7470A	856966	EPA 7470A	856985

REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Hammond AP-1
Pace Project No.: 92731696

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92731696013	**HAM-PT-10**	EPA 7470A	856966	EPA 7470A	856985
92731696014	**HAM-PT-11**	EPA 7470A	856966	EPA 7470A	856985
92731696015	**HAM-PT-12**	EPA 7470A	856966	EPA 7470A	856985
92731696016	**HAM-PT-13**	EPA 7470A	856966	EPA 7470A	856985
92731696017	**HAM-PT-14**	EPA 7470A	856966	EPA 7470A	856985
92731696018	**HAM-PT-15**	EPA 7470A	856966	EPA 7470A	856985
92731696001	**HAM-AP1-EB-01**	SM 2540C-2015	855801		
92731696002	**HAM-AP1-EB-02**	SM 2540C-2015	855801		
92731696003	**HAM-AP1-FB-01**	SM 2540C-2015	855801		
92731696004	**HAM-AP1-FB-02**	SM 2540C-2015	855801		
92731696005	**HAM-AP1-FD-01**	SM 2540C-2015	855801		
92731696006	**HAM-AP1-FD-02**	SM 2540C-2015	855801		
92731696007	**HAM-INW-03**	SM 2540C-2015	855801		
92731696008	**HAM-INW-04**	SM 2540C-2015	855801		
92731696009	**HAM-INW-05**	SM 2540C-2015	855801		
92731696010	**HAM-PT-07**	SM 2540C-2015	855801		
92731696011	**HAM-PT-08**	SM 2540C-2015	855801		
92731696012	**HAM-PT-09**	SM 2540C-2015	855801		
92731696013	**HAM-PT-10**	SM 2540C-2015	855801		
92731696014	**HAM-PT-11**	SM 2540C-2015	855801		
92731696015	**HAM-PT-12**	SM 2540C-2015	855801		
92731696016	**HAM-PT-13**	SM 2540C-2015	855801		
92731696017	**HAM-PT-14**	SM 2540C-2015	855801		
92731696018	**HAM-PT-15**	SM 2540C-2015	855801		
92731696001	**HAM-AP1-EB-01**	SM 2320B-2011	856180		
92731696002	**HAM-AP1-EB-02**	SM 2320B-2011	856180		
92731696003	**HAM-AP1-FB-01**	SM 2320B-2011	856180		
92731696004	**HAM-AP1-FB-02**	SM 2320B-2011	856180		
92731696005	**HAM-AP1-FD-01**	SM 2320B-2011	856180		
92731696006	**HAM-AP1-FD-02**	SM 2320B-2011	856180		
92731696007	**HAM-INW-03**	SM 2320B-2011	856180		
92731696008	**HAM-INW-04**	SM 2320B-2011	856180		
92731696009	**HAM-INW-05**	SM 2320B-2011	856180		
92731696010	**HAM-PT-07**	SM 2320B-2011	857348		
92731696011	**HAM-PT-08**	SM 2320B-2011	857348		
92731696012	**HAM-PT-09**	SM 2320B-2011	856180		
92731696013	**HAM-PT-10**	SM 2320B-2011	856180		
92731696014	**HAM-PT-11**	SM 2320B-2011	856180		
92731696015	**HAM-PT-12**	SM 2320B-2011	856180		
92731696016	**HAM-PT-13**	SM 2320B-2011	856180		
92731696017	**HAM-PT-14**	SM 2320B-2011	856180		
92731696018	**HAM-PT-15**	SM 2320B-2011	856180		
92731696001	**HAM-AP1-EB-01**	SM 4500-S2D-2011	856274		
92731696002	**HAM-AP1-EB-02**	SM 4500-S2D-2011	856275		
92731696003	**HAM-AP1-FB-01**	SM 4500-S2D-2011	856274		

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Hammond AP-1
Pace Project No.: 92731696

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92731696004	**HAM-AP1-FB-02**	SM 4500-S2D-2011	856274		
92731696005	**HAM-AP1-FD-01**	SM 4500-S2D-2011	856274		
92731696006	**HAM-AP1-FD-02**	SM 4500-S2D-2011	856274		
92731696007	**HAM-INW-03**	SM 4500-S2D-2011	855942		
92731696008	**HAM-INW-04**	SM 4500-S2D-2011	856274		
92731696009	**HAM-INW-05**	SM 4500-S2D-2011	856274		
92731696010	**HAM-PT-07**	SM 4500-S2D-2011	856274		
92731696011	**HAM-PT-08**	SM 4500-S2D-2011	856274		
92731696012	**HAM-PT-09**	SM 4500-S2D-2011	855942		
92731696013	**HAM-PT-10**	SM 4500-S2D-2011	856274		
92731696014	**HAM-PT-11**	SM 4500-S2D-2011	855942		
92731696015	**HAM-PT-12**	SM 4500-S2D-2011	855942		
92731696016	**HAM-PT-13**	SM 4500-S2D-2011	856274		
92731696017	**HAM-PT-14**	SM 4500-S2D-2011	856274		
92731696018	**HAM-PT-15**	SM 4500-S2D-2011	856274		
92731696001	**HAM-AP1-EB-01**	EPA 300.0 Rev 2.1 1993	855697		
92731696002	**HAM-AP1-EB-02**	EPA 300.0 Rev 2.1 1993	855697		
92731696003	**HAM-AP1-FB-01**	EPA 300.0 Rev 2.1 1993	860766		
92731696004	**HAM-AP1-FB-02**	EPA 300.0 Rev 2.1 1993	855697		
92731696005	**HAM-AP1-FD-01**	EPA 300.0 Rev 2.1 1993	860766		
92731696006	**HAM-AP1-FD-02**	EPA 300.0 Rev 2.1 1993	855697		
92731696007	**HAM-INW-03**	EPA 300.0 Rev 2.1 1993	855920		
92731696008	**HAM-INW-04**	EPA 300.0 Rev 2.1 1993	855920		
92731696009	**HAM-INW-05**	EPA 300.0 Rev 2.1 1993	855920		
92731696010	**HAM-PT-07**	EPA 300.0 Rev 2.1 1993	855920		
92731696011	**HAM-PT-08**	EPA 300.0 Rev 2.1 1993	856238		
92731696012	**HAM-PT-09**	EPA 300.0 Rev 2.1 1993	855920		
92731696013	**HAM-PT-10**	EPA 300.0 Rev 2.1 1993	855920		
92731696014	**HAM-PT-11**	EPA 300.0 Rev 2.1 1993	855920		
92731696015	**HAM-PT-12**	EPA 300.0 Rev 2.1 1993	855920		
92731696016	**HAM-PT-13**	EPA 300.0 Rev 2.1 1993	855920		
92731696017	**HAM-PT-14**	EPA 300.0 Rev 2.1 1993	855920		
92731696018	**HAM-PT-15**	EPA 300.0 Rev 2.1 1993	855920		

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DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt

Effective Date: 12/01/2023

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

WO#: 92731696

92731696

Sample Condition Upon Receipt

Client Name: GA Power

Project #

Courier: ☐ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☑ Pace ☐ Other

Custody Seal Present? ☑ Yes ☐ No Seals Intact? ☑ Yes ☐ No ☐ N/A

Date/Initials Person Examining Contents: 5/17/24 HC

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 235

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 3.1 Correction Factor: Add/Subtract (°C) 0

Temp should be above freezing to 6°C

☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 3.1

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check map)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: W				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☐ N/A	

Field Data Required? ☐ Yes ☐ No

COMMENTS/SAMPLE DISCREPANCY

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date

Qualtrax ID: 69614

DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt

Effective Date: 12/01/2023

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Project #

Items	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH = 12) (Cl-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG9H-40 mL Amber NaHSO (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG4T-40 mL VOA NaTSO3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9M-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	VJ/GK (3 vials per MS)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH4)2S2O3 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-22 mL Scintillation Vials (N/A)	DG8U-40 mL Amber Unpreserved vials (N/A)
1		2	1			1	1																					
2		2	1			1	1																					
3		2	1			1	1																					
4		2	1			1	1																					
5		2	1			1	1																					
6		2	1			1	1																					
7																												
8																												
9																												
10																												
11																												
12																												

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of Hold, incorrect preservative, out of temp, incorrect container).

Page 2 of 2

Qualtrax ID: 60614

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: GA Power	Report To: ECS Contacts	Attention: Southern Co.
Address: Atlanta, GA	Copy To: Geosyntec Contacts	Company Name:
		Address:
Email To: ECS Contacts	Purchase Order No.: GPC82474-0001	Pace Quote Reference:
Phone: Fax:	Project Name: Hammond AP-1	Pace Project Manager: Sunnie Vera
Requested Due Date/TAT: 3 day	Project Number:	Pace Profile #: 10409

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER

☐ UST ☐ RCRA ☒ OTHER: CCR

Site Location STATE: GA

ITEM #	SAMPLE ID (A-Z, 0-9 / , -) Sample IDs MUST BE UNIQUE	Valid Matrix Codes (Matrix: DRINKING WATER, WATER, WASTE WATER, PRODUCT, SOIL/SOLID, OIL, WIPE, AIR, TISSUE, OTHER; Code: DW, WT, WW, P, SL, OL, WP, AR, TS, OT)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	Preservatives: H_2SO_4	Preservatives: HNO_3	Preservatives: HCl	Preservatives: NaOH	Preservatives: $Na_2S_2O_3$	Preservatives: Methanol	Preservatives: Other	Requested Analysis Filtered (Y/N): Y/N	Analysis Test: Chloride, Fluoride, Sulfate	Analysis Test: pH, Appendix III and IV metals	Analysis Test: Radium 226/228	Analysis Test: CCR	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	HAM-AP1-EB-01	WATER	WW	G	5/15/2024	1400				19	5	3	1					1		A	X	X	X	X	A	
2	HAM-AP1-EB-02	WATER	WW	G	5/15/2024	1535				19	5	3	1					1		B	X	X	X	X	B	
3	HAM-AP1-FB-01	WATER	WW	G	5/15/2024	1550				19	5	3	1					1		C	X	X	X	X	C	
4	HAM-AP1-FB-02	WATER	WW	G	5/15/2024	1715				19	5	3	1					1		D	X	X	X	X	D	
5	HAM-AP1-FD-01	WATER	WW	G	5/15/2024	1535				19	5	3	1					1		E	X	X	X	X	E	
6	HAM-AP1-FD-02	WATER	WW	G	5/15/2024	1550	AS 5/15/2024			19	5	3	1					1		F	X	X	X	X	F	
7																				G					G	
8							AS 5/15/2024													H					H	
9																				I					I	
10																				J					J	
11																				K					K	
12																				L					L	

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
ppa Codes: HAM-CCR-EA-092402-10	Anthony Szwajd / Geosyntec	5-17-24	1255	Ryan William / Pace	5/17/24	1265	
	Ryan William / Pace	5/17/24	1450		5/17	1430	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Anthony Szwajd, Jamie Newsome / Geosyntec Consultants, Inc.

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 05/16/24

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07 15-Feb-2007

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

Section A	Section B	Section C
Company: GA Power	Report To: SCS Contacts	Invoice: Southern Co
Address: Atlanta, GA	Copy To: Geosyntec Contacts	Company Name:
		Address:
Email To: SCS Contacts	Purchase Order No.: GPC0247A-0001	Pace Quote Reference:
Phone: Fax:	Project Name: Hammond AP-1	Pace Project Manager: Holmes Vahg
Requested Due Date/TAT: 5 Day	Project Number:	Pace Profile #: 12839

Page 1 of 1

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER

UST RCRA OTHER

Site Location STATE: GA

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (A-Z, 0-9, / , -) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test	Y/N	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	HAM-INW-03	WG	G	5/14/2024	1400				10	6	0	1					1		N		
2	HAM-INW-04	WG	G	5/15/2024	1430				20	6	3	1					1		N		
3	HAM-INW-05	WG	G	5/15/2024	1148				10	5	3	1					1		N		
4	HAM-PT-07	WG	G	5/15/2024	1236				10	5	3	1					1		N		
5	HAM-PT-08	WG	G	5/15/2024	1457				10	5	3	1					1		N		
6	HAM-PT-09	WG	G	5/14/2024	1540				10	5	3	1					1		N		
7	HAM-PT-10	WG	G	5/15/2024	1157				20	5	3	1					1		N		
8	HAM-PT-11	WG	G	5/14/2024	1529				10	5	3	1					1		N		
9	HAM-PT-12	WG	G	5/14/2024	1205				10	5	3	1					1		N		
10	HAM-PT-13	WG	G	5/15/2024	1545				10	5	3	1					1		N		
11	HAM-PT-14	WG	G	5/15/2024	1627	AS 5/16/2024			10	5	3	1					1		N		
12	HAM-PT-15	WG	G	5/15/2024	1510				20	5	3	1					1		N		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Use Code: HAM-CCR-GA-Voluntary	Anthony Sweet / Geosyntec	5-17-24	1255	Kyan Williams / Pace	5/17/24	1255	
	Kyan Williams / Pace	5/17/24	1430		5/17	0821	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Anthony Sweet, Jamie Newsome / Geosyntec Consultants, Inc

SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY): 05/16/24

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-Feb-2007

DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt

Effective Date: 12/01/2023

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA power

Project #:

Courier: ☐ Commercial ☐ Fed Ex ☑ Pace ☐ UPS ☐ USPS ☐ Other: ☐ Client

Custody Seal Present? ☑ Yes ☐ No Seals Intact? ☐ Yes ☐ No ☐ N/A

Date/Initials Person Examining Contents: 5/17/24 SW

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 73

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 3.1 Correction Factor: Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 3.1

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: S				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

Field Data Required? ☐ Yes ☐ No

COMMENTS/SAMPLE DISCREPANCY

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

Qualtrax ID: 69614

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

Project #

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Item #	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP6Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH >12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG9H-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VGFT-40 mL VOA Na2S2O3 (N/A)	VORU-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H2SO4 (N/A)	DG9U-40 mL Plastic Unpreserved (N/A)	VJGK (3 vials per kit)-VOA/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (W/A – lab)	SAP1-250 mL Sterile Plastic (N/A – lab)		BP3B-250 mL Plastic (HNO3)(H2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Sodium Vials (N/A)	DG0U-40 mL Amber Unpreserved (3 vials) (N/A)
1		2	1																									
2		2	1																									
3		2	1																									
4		2	1																									
5		2	1																									
6		2																										
7		2	1																									
8		2	1																									
9		2	1																									
10		2	1																									
11		2	1																									
12		2	1																									

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a noncompliance affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect container).

Page 2 of 2

Cooltrax ID: 69814

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

June 17, 2024

Kristen Jurinko
Southern Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, GA 30308

RE: Project: Hammond AP-1
Pace Project No.: 92733822

Dear Kristen Jurinko:

Enclosed are the analytical results for sample(s) received by the laboratory on May 31, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Asheville
- Pace Analytical Services - Peachtree Corners, GA

Revision 1: EB/FB/FD sample ID's amended.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Bonnie Vang
bonnie.vang@pacelabs.com
704-977-0968
Project Manager

Enclosures

cc: Kip Gray, Geosyntec
Christine Hug, Geosyntec Consultants, Inc.
Thomas Kessler, Geosyntec Consultants
Whitney Law, Geosyntec Consultants
Laura Midkiff, Southern Company
Caroline Nelson, Geosyntec Consultants, Inc
Anthony Szwast, Geosyntec Consultants

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: Hammond AP-1
Pace Project No.: 92733822

Pace Analytical Services Asheville
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Laboratory ID: 99030
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners
110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812
North Carolina Certification #: 381
South Carolina Certification #: 98011001
Virginia Certification #: 460204

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SAMPLE SUMMARY

Project: Hammond AP-1
Pace Project No.: 92733822

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92733822001	**HAM-INW-03**	Water	05/29/24 14:14	05/31/24 12:05
92733822002	**HAM-PT-09**	Water	05/30/24 11:52	05/31/24 12:05
92733822003	**HAM-PT-10**	Water	05/30/24 14:40	05/31/24 12:05
92733822004	**HAM-PT-11**	Water	05/29/24 16:43	05/31/24 12:05
92733822005	**HAM-PT-12**	Water	05/29/24 12:08	05/31/24 12:05
92733822006	**HAM-AP1-EB-01**	Water	05/30/24 16:59	05/31/24 12:05
92733822007	**HAM-AP1-FB-01**	Water	05/30/24 16:52	05/31/24 12:05
92733822008	**HAM-AP1-FD-01**	Water	05/30/24 00:00	05/31/24 12:05

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SAMPLE ANALYTE COUNT

Project: Hammond AP-1
Pace Project No.: 92733822

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92733822001	**HAM-INW-03**	EPA 6010D	AJM	6
		EPA 6020B	MT1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92733822002	**HAM-PT-09**	EPA 6010D	AJM	6
		EPA 6020B	MT1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92733822003	**HAM-PT-10**	EPA 6010D	AJM	6
		EPA 6020B	MT1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92733822004	**HAM-PT-11**	EPA 6010D	AJM	6
		EPA 6020B	MT1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92733822005	**HAM-PT-12**	EPA 6010D	AJM	6
		EPA 6020B	MT1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92733822006	**HAM-AP1-EB-01**	EPA 6010D	AJM	6
		EPA 6020B	MT1	13

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SAMPLE ANALYTE COUNT

Project: Hammond AP-1
Pace Project No.: 92733822

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92733822007	**HAM-AP1-FB-01**	EPA 6010D	AJM	6
		EPA 6020B	MT1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92733822008	**HAM-AP1-FD-01**	EPA 6010D	AJM	6
		EPA 6020B	MT1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	JCM	3

PASI-A = Pace Analytical Services - Asheville
PASI-GA = Pace Analytical Services - Peachtree Corners, GA

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Huntersville, NC 28078
(704)875-9092

SUMMARY OF DETECTION

Project: Hammond AP-1
Pace Project No.: 92733822

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92733822001	**HAM-INW-03**					
EPA 6010D	Iron	0.14	mg/L	0.040	06/03/24 20:27	
EPA 6010D	Manganese	1.2	mg/L	0.040	06/03/24 20:27	
EPA 6010D	Potassium	6.1	mg/L	0.50	06/03/24 20:27	
EPA 6010D	Sodium	11.1	mg/L	1.0	06/03/24 20:27	
EPA 6010D	Calcium	144	mg/L	1.0	06/03/24 20:27	
EPA 6010D	Magnesium	16.5	mg/L	0.050	06/03/24 20:27	
EPA 6020B	Arsenic	0.0022J	mg/L	0.0050	06/04/24 16:51	
EPA 6020B	Barium	0.12	mg/L	0.0050	06/04/24 16:51	
EPA 6020B	Boron	1.5	mg/L	0.040	06/04/24 16:51	
EPA 6020B	Cobalt	0.00087J	mg/L	0.0050	06/04/24 16:51	
EPA 6020B	Lithium	0.0048J	mg/L	0.030	06/04/24 16:51	
EPA 6020B	Molybdenum	0.060	mg/L	0.010	06/04/24 16:51	
EPA 6020B	Selenium	0.0016J	mg/L	0.0050	06/04/24 16:51	
SM 2540C-2015	Total Dissolved Solids	610	mg/L	25.0	06/03/24 12:08	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	176	mg/L	5.0	06/05/24 17:10	
SM 2320B-2011	Alkalinity, Total as CaCO3	176	mg/L	5.0	06/05/24 17:10	
EPA 300.0 Rev 2.1 1993	Chloride	61.6	mg/L	1.0	06/01/24 22:59	
EPA 300.0 Rev 2.1 1993	Fluoride	0.13	mg/L	0.10	06/01/24 22:59	
EPA 300.0 Rev 2.1 1993	Sulfate	187	mg/L	4.0	06/02/24 04:57	
92733822002	**HAM-PT-09**					
EPA 6010D	Iron	0.24	mg/L	0.040	06/03/24 20:31	
EPA 6010D	Manganese	0.28	mg/L	0.040	06/03/24 20:31	
EPA 6010D	Potassium	6.2	mg/L	0.50	06/03/24 20:31	
EPA 6010D	Sodium	11.5	mg/L	1.0	06/03/24 20:31	
EPA 6010D	Calcium	94.9	mg/L	1.0	06/03/24 20:31	
EPA 6010D	Magnesium	19.9	mg/L	0.050	06/03/24 20:31	
EPA 6020B	Arsenic	0.0022J	mg/L	0.0050	06/04/24 16:55	
EPA 6020B	Barium	0.062	mg/L	0.0050	06/04/24 16:55	
EPA 6020B	Boron	1.5	mg/L	0.040	06/04/24 16:55	
EPA 6020B	Cadmium	0.00010J	mg/L	0.00050	06/04/24 16:55	
EPA 6020B	Cobalt	0.0010J	mg/L	0.0050	06/04/24 16:55	
EPA 6020B	Molybdenum	0.24	mg/L	0.010	06/04/24 16:55	
SM 2540C-2015	Total Dissolved Solids	532	mg/L	25.0	06/03/24 12:09	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	138	mg/L	5.0	06/07/24 15:22	
SM 2320B-2011	Alkalinity, Total as CaCO3	138	mg/L	5.0	06/07/24 15:22	
EPA 300.0 Rev 2.1 1993	Chloride	52.4	mg/L	1.0	06/01/24 23:14	
EPA 300.0 Rev 2.1 1993	Fluoride	0.33	mg/L	0.10	06/01/24 23:14	
EPA 300.0 Rev 2.1 1993	Sulfate	133	mg/L	3.0	06/02/24 05:41	
92733822003	**HAM-PT-10**					
EPA 6010D	Iron	0.21	mg/L	0.040	06/03/24 20:35	
EPA 6010D	Manganese	0.52	mg/L	0.040	06/03/24 20:35	
EPA 6010D	Potassium	6.6	mg/L	0.50	06/03/24 20:35	
EPA 6010D	Sodium	9.5	mg/L	1.0	06/03/24 20:35	
EPA 6010D	Calcium	95.9	mg/L	1.0	06/03/24 20:35	
EPA 6010D	Magnesium	13.1	mg/L	0.050	06/03/24 20:35	
EPA 6020B	Arsenic	0.0018J	mg/L	0.0050	06/04/24 16:59	

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SUMMARY OF DETECTION

Project: Hammond AP-1
Pace Project No.: 92733822

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92733822003	**HAM-PT-10**					
EPA 6020B	Barium	0.052	mg/L	0.0050	06/04/24 16:59	
EPA 6020B	Boron	1.4	mg/L	0.040	06/04/24 16:59	
EPA 6020B	Cobalt	0.0014J	mg/L	0.0050	06/04/24 16:59	
EPA 6020B	Molybdenum	0.053	mg/L	0.010	06/04/24 16:59	
SM 2540C-2015	Total Dissolved Solids	495	mg/L	25.0	06/03/24 12:10	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	116	mg/L	5.0	06/07/24 15:31	
SM 2320B-2011	Alkalinity, Total as CaCO3	116	mg/L	5.0	06/07/24 15:31	
EPA 300.0 Rev 2.1 1993	Chloride	53.0	mg/L	1.0	06/01/24 23:57	
EPA 300.0 Rev 2.1 1993	Fluoride	0.17	mg/L	0.10	06/01/24 23:57	
EPA 300.0 Rev 2.1 1993	Sulfate	124	mg/L	3.0	06/02/24 05:55	
92733822004	**HAM-PT-11**					
EPA 6010D	Iron	0.10	mg/L	0.040	06/03/24 20:39	
EPA 6010D	Manganese	0.27	mg/L	0.040	06/03/24 20:39	
EPA 6010D	Potassium	6.5	mg/L	0.50	06/03/24 20:39	
EPA 6010D	Sodium	9.2	mg/L	1.0	06/03/24 20:39	
EPA 6010D	Calcium	95.7	mg/L	1.0	06/03/24 20:39	
EPA 6010D	Magnesium	16.7	mg/L	0.050	06/03/24 20:39	
EPA 6020B	Arsenic	0.0021J	mg/L	0.0050	06/04/24 17:03	
EPA 6020B	Barium	0.072	mg/L	0.0050	06/04/24 17:03	
EPA 6020B	Boron	1.4	mg/L	0.040	06/04/24 17:03	
EPA 6020B	Cadmium	0.00013J	mg/L	0.00050	06/04/24 17:03	
EPA 6020B	Cobalt	0.0013J	mg/L	0.0050	06/04/24 17:03	
EPA 6020B	Molybdenum	0.17	mg/L	0.010	06/04/24 17:03	
SM 2540C-2015	Total Dissolved Solids	474	mg/L	25.0	06/03/24 12:08	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	143	mg/L	5.0	06/05/24 17:35	
SM 2320B-2011	Alkalinity, Total as CaCO3	143	mg/L	5.0	06/05/24 17:35	
EPA 300.0 Rev 2.1 1993	Chloride	39.4	mg/L	1.0	06/02/24 00:11	
EPA 300.0 Rev 2.1 1993	Fluoride	0.31	mg/L	0.10	06/02/24 00:11	
EPA 300.0 Rev 2.1 1993	Sulfate	118	mg/L	3.0	06/02/24 06:09	
92733822005	**HAM-PT-12**					
EPA 6010D	Iron	0.032J	mg/L	0.040	06/03/24 20:43	
EPA 6010D	Manganese	0.75	mg/L	0.040	06/03/24 20:43	
EPA 6010D	Potassium	5.7	mg/L	0.50	06/03/24 20:43	
EPA 6010D	Sodium	9.6	mg/L	1.0	06/03/24 20:43	
EPA 6010D	Calcium	91.0	mg/L	1.0	06/03/24 20:43	
EPA 6010D	Magnesium	18.6	mg/L	0.050	06/03/24 20:43	
EPA 6020B	Arsenic	0.0026J	mg/L	0.0050	06/04/24 17:07	
EPA 6020B	Barium	0.069	mg/L	0.0050	06/04/24 17:07	
EPA 6020B	Boron	1.5	mg/L	0.040	06/04/24 17:07	
EPA 6020B	Cadmium	0.00011J	mg/L	0.00050	06/04/24 17:07	
EPA 6020B	Cobalt	0.0021J	mg/L	0.0050	06/04/24 17:07	
EPA 6020B	Molybdenum	0.22	mg/L	0.010	06/04/24 17:07	
EPA 6020B	Selenium	0.0015J	mg/L	0.0050	06/04/24 17:07	
SM 2540C-2015	Total Dissolved Solids	488	mg/L	25.0	06/03/24 12:08	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	136	mg/L	5.0	06/07/24 13:55	
SM 2320B-2011	Alkalinity, Total as CaCO3	136	mg/L	5.0	06/07/24 13:55	

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SUMMARY OF DETECTION

Project: Hammond AP-1
Pace Project No.: 92733822

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92733822005	**HAM-PT-12**					
EPA 300.0 Rev 2.1 1993	Chloride	48.0	mg/L	1.0	06/03/24 00:51	
EPA 300.0 Rev 2.1 1993	Fluoride	0.31	mg/L	0.10	06/03/24 00:51	
EPA 300.0 Rev 2.1 1993	Sulfate	131	mg/L	3.0	06/03/24 03:15	
92733822006	**HAM-AP1-EB-01**					
EPA 6010D	Calcium	0.13J	mg/L	1.0	06/03/24 20:47	
EPA 6010D	Magnesium	0.030J	mg/L	0.050	06/03/24 20:47	
EPA 6020B	Arsenic	0.0044J	mg/L	0.0050	06/04/24 17:16	
92733822007	**HAM-AP1-FB-01**					
EPA 6020B	Arsenic	0.0040J	mg/L	0.0050	06/04/24 17:20	
EPA 6020B	Selenium	0.0011J	mg/L	0.0050	06/04/24 17:20	
92733822008	**HAM-AP1-FD-01**					
EPA 6010D	Iron	0.26	mg/L	0.040	06/03/24 21:41	
EPA 6010D	Manganese	0.27	mg/L	0.040	06/03/24 21:41	
EPA 6010D	Calcium	97.3	mg/L	1.0	06/03/24 21:41	
EPA 6010D	Magnesium	20.9	mg/L	0.050	06/03/24 21:41	
EPA 6010D	Potassium	6.4	mg/L	0.50	06/04/24 14:10	
EPA 6010D	Sodium	12.0	mg/L	1.0	06/04/24 14:10	
EPA 6020B	Arsenic	0.0025J	mg/L	0.0050	06/04/24 17:24	
EPA 6020B	Barium	0.062	mg/L	0.0050	06/04/24 17:24	
EPA 6020B	Boron	1.4	mg/L	0.040	06/04/24 17:24	
EPA 6020B	Cadmium	0.00014J	mg/L	0.00050	06/04/24 17:24	
EPA 6020B	Cobalt	0.0010J	mg/L	0.0050	06/04/24 17:24	
EPA 6020B	Molybdenum	0.24	mg/L	0.010	06/04/24 17:24	
EPA 6020B	Selenium	0.0012J	mg/L	0.0050	06/04/24 17:24	
SM 2540C-2015	Total Dissolved Solids	500	mg/L	25.0	06/03/24 12:10	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	140	mg/L	5.0	06/07/24 15:48	
SM 2320B-2011	Alkalinity, Total as CaCO3	140	mg/L	5.0	06/07/24 15:48	
EPA 300.0 Rev 2.1 1993	Chloride	51.3	mg/L	1.0	06/03/24 01:06	
EPA 300.0 Rev 2.1 1993	Fluoride	0.32	mg/L	0.10	06/03/24 01:06	
EPA 300.0 Rev 2.1 1993	Sulfate	129	mg/L	3.0	06/03/24 03:29	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92733822

Sample: HAM-INW-03 **Lab ID: 92733822001** Collected: 05/29/24 14:14 Received: 05/31/24 12:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.14**	mg/L	0.040	0.025	1	05/31/24 17:19	06/03/24 20:27	7439-89-6	
Manganese	**1.2**	mg/L	0.040	0.011	1	05/31/24 17:19	06/03/24 20:27	7439-96-5	
Potassium	**6.1**	mg/L	0.50	0.15	1	05/31/24 17:19	06/03/24 20:27	7440-09-7	
Sodium	**11.1**	mg/L	1.0	0.58	1	05/31/24 17:19	06/03/24 20:27	7440-23-5	
Calcium	**144**	mg/L	1.0	0.12	1	05/31/24 17:19	06/03/24 20:27	7440-70-2	
Magnesium	**16.5**	mg/L	0.050	0.012	1	05/31/24 17:19	06/03/24 20:27	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	05/31/24 16:57	06/04/24 16:51	7440-36-0	
Arsenic	**0.0022J**	mg/L	0.0050	0.00084	1	05/31/24 16:57	06/04/24 16:51	7440-38-2	
Barium	**0.12**	mg/L	0.0050	0.00047	1	05/31/24 16:57	06/04/24 16:51	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	05/31/24 16:57	06/04/24 16:51	7440-41-7	
Boron	**1.5**	mg/L	0.040	0.012	1	05/31/24 16:57	06/04/24 16:51	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	05/31/24 16:57	06/04/24 16:51	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	05/31/24 16:57	06/04/24 16:51	7440-47-3	
Cobalt	**0.00087J**	mg/L	0.0050	0.00032	1	05/31/24 16:57	06/04/24 16:51	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	05/31/24 16:57	06/04/24 16:51	7439-92-1	
Lithium	**0.0048J**	mg/L	0.030	0.0016	1	05/31/24 16:57	06/04/24 16:51	7439-93-2	
Molybdenum	**0.060**	mg/L	0.010	0.00062	1	05/31/24 16:57	06/04/24 16:51	7439-98-7	
Selenium	**0.0016J**	mg/L	0.0050	0.00096	1	05/31/24 16:57	06/04/24 16:51	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	05/31/24 16:57	06/04/24 16:51	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	06/10/24 17:00	06/11/24 09:10	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**610**	mg/L	25.0	25.0	1		06/03/24 12:08		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**176**	mg/L	5.0	5.0	1		06/05/24 17:10		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		06/05/24 17:10		
Alkalinity, Total as CaCO3	**176**	mg/L	5.0	5.0	1		06/05/24 17:10		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		06/02/24 02:01	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**61.6**	mg/L	1.0	0.60	1		06/01/24 22:59	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92733822

Sample: HAM-INW-03 **Lab ID: 92733822001** Collected: 05/29/24 14:14 Received: 05/31/24 12:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.13**	mg/L	0.10	0.050	1		06/01/24 22:59	16984-48-8	
Sulfate	**187**	mg/L	4.0	2.0	4		06/02/24 04:57	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92733822

Sample: HAM-PT-09 **Lab ID: 92733822002** Collected: 05/30/24 11:52 Received: 05/31/24 12:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.24**	mg/L	0.040	0.025	1	05/31/24 17:19	06/03/24 20:31	7439-89-6	
Manganese	**0.28**	mg/L	0.040	0.011	1	05/31/24 17:19	06/03/24 20:31	7439-96-5	
Potassium	**6.2**	mg/L	0.50	0.15	1	05/31/24 17:19	06/03/24 20:31	7440-09-7	
Sodium	**11.5**	mg/L	1.0	0.58	1	05/31/24 17:19	06/03/24 20:31	7440-23-5	
Calcium	**94.9**	mg/L	1.0	0.12	1	05/31/24 17:19	06/03/24 20:31	7440-70-2	
Magnesium	**19.9**	mg/L	0.050	0.012	1	05/31/24 17:19	06/03/24 20:31	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	05/31/24 16:57	06/04/24 16:55	7440-36-0	
Arsenic	**0.0022J**	mg/L	0.0050	0.00084	1	05/31/24 16:57	06/04/24 16:55	7440-38-2	
Barium	**0.062**	mg/L	0.0050	0.00047	1	05/31/24 16:57	06/04/24 16:55	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	05/31/24 16:57	06/04/24 16:55	7440-41-7	
Boron	**1.5**	mg/L	0.040	0.012	1	05/31/24 16:57	06/04/24 16:55	7440-42-8	
Cadmium	**0.00010J**	mg/L	0.00050	0.00010	1	05/31/24 16:57	06/04/24 16:55	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	05/31/24 16:57	06/04/24 16:55	7440-47-3	
Cobalt	**0.0010J**	mg/L	0.0050	0.00032	1	05/31/24 16:57	06/04/24 16:55	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	05/31/24 16:57	06/04/24 16:55	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	05/31/24 16:57	06/04/24 16:55	7439-93-2	
Molybdenum	**0.24**	mg/L	0.010	0.00062	1	05/31/24 16:57	06/04/24 16:55	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	05/31/24 16:57	06/04/24 16:55	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	05/31/24 16:57	06/04/24 16:55	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	06/10/24 17:00	06/11/24 09:32	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**532**	mg/L	25.0	25.0	1		06/03/24 12:09		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**138**	mg/L	5.0	5.0	1		06/07/24 15:22		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		06/07/24 15:22		
Alkalinity, Total as CaCO3	**138**	mg/L	5.0	5.0	1		06/07/24 15:22		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		06/02/24 02:05	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**52.4**	mg/L	1.0	0.60	1		06/01/24 23:14	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92733822

Sample: HAM-PT-09 **Lab ID: 92733822002** Collected: 05/30/24 11:52 Received: 05/31/24 12:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.33**	mg/L	0.10	0.050	1		06/01/24 23:14	16984-48-8	
Sulfate	**133**	mg/L	3.0	1.5	3		06/02/24 05:41	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92733822

Sample: HAM-PT-10 **Lab ID: 92733822003** Collected: 05/30/24 14:40 Received: 05/31/24 12:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.21**	mg/L	0.040	0.025	1	05/31/24 17:19	06/03/24 20:35	7439-89-6	
Manganese	**0.52**	mg/L	0.040	0.011	1	05/31/24 17:19	06/03/24 20:35	7439-96-5	
Potassium	**6.6**	mg/L	0.50	0.15	1	05/31/24 17:19	06/03/24 20:35	7440-09-7	
Sodium	**9.5**	mg/L	1.0	0.58	1	05/31/24 17:19	06/03/24 20:35	7440-23-5	
Calcium	**95.9**	mg/L	1.0	0.12	1	05/31/24 17:19	06/03/24 20:35	7440-70-2	
Magnesium	**13.1**	mg/L	0.050	0.012	1	05/31/24 17:19	06/03/24 20:35	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	05/31/24 16:57	06/04/24 16:59	7440-36-0	
Arsenic	**0.0018J**	mg/L	0.0050	0.00084	1	05/31/24 16:57	06/04/24 16:59	7440-38-2	
Barium	**0.052**	mg/L	0.0050	0.00047	1	05/31/24 16:57	06/04/24 16:59	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	05/31/24 16:57	06/04/24 16:59	7440-41-7	
Boron	**1.4**	mg/L	0.040	0.012	1	05/31/24 16:57	06/04/24 16:59	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	05/31/24 16:57	06/04/24 16:59	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	05/31/24 16:57	06/04/24 16:59	7440-47-3	
Cobalt	**0.0014J**	mg/L	0.0050	0.00032	1	05/31/24 16:57	06/04/24 16:59	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	05/31/24 16:57	06/04/24 16:59	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	05/31/24 16:57	06/04/24 16:59	7439-93-2	
Molybdenum	**0.053**	mg/L	0.010	0.00062	1	05/31/24 16:57	06/04/24 16:59	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	05/31/24 16:57	06/04/24 16:59	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	05/31/24 16:57	06/04/24 16:59	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	06/10/24 17:00	06/11/24 09:35	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**495**	mg/L	25.0	25.0	1		06/03/24 12:10		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**116**	mg/L	5.0	5.0	1		06/07/24 15:31		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		06/07/24 15:31		
Alkalinity, Total as CaCO3	**116**	mg/L	5.0	5.0	1		06/07/24 15:31		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		06/02/24 02:05	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**53.0**	mg/L	1.0	0.60	1		06/01/24 23:57	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92733822

Sample: HAM-PT-10 **Lab ID: 92733822003** Collected: 05/30/24 14:40 Received: 05/31/24 12:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.17**	mg/L	0.10	0.050	1		06/01/24 23:57	16984-48-8	
Sulfate	**124**	mg/L	3.0	1.5	3		06/02/24 05:55	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92733822

Sample: HAM-PT-11 **Lab ID: 92733822004** Collected: 05/29/24 16:43 Received: 05/31/24 12:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.10**	mg/L	0.040	0.025	1	05/31/24 17:19	06/03/24 20:39	7439-89-6	
Manganese	**0.27**	mg/L	0.040	0.011	1	05/31/24 17:19	06/03/24 20:39	7439-96-5	
Potassium	**6.5**	mg/L	0.50	0.15	1	05/31/24 17:19	06/03/24 20:39	7440-09-7	
Sodium	**9.2**	mg/L	1.0	0.58	1	05/31/24 17:19	06/03/24 20:39	7440-23-5	
Calcium	**95.7**	mg/L	1.0	0.12	1	05/31/24 17:19	06/03/24 20:39	7440-70-2	
Magnesium	**16.7**	mg/L	0.050	0.012	1	05/31/24 17:19	06/03/24 20:39	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	05/31/24 16:57	06/04/24 17:03	7440-36-0	
Arsenic	**0.0021J**	mg/L	0.0050	0.00084	1	05/31/24 16:57	06/04/24 17:03	7440-38-2	
Barium	**0.072**	mg/L	0.0050	0.00047	1	05/31/24 16:57	06/04/24 17:03	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	05/31/24 16:57	06/04/24 17:03	7440-41-7	
Boron	**1.4**	mg/L	0.040	0.012	1	05/31/24 16:57	06/04/24 17:03	7440-42-8	
Cadmium	**0.00013J**	mg/L	0.00050	0.00010	1	05/31/24 16:57	06/04/24 17:03	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	05/31/24 16:57	06/04/24 17:03	7440-47-3	
Cobalt	**0.0013J**	mg/L	0.0050	0.00032	1	05/31/24 16:57	06/04/24 17:03	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	05/31/24 16:57	06/04/24 17:03	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	05/31/24 16:57	06/04/24 17:03	7439-93-2	
Molybdenum	**0.17**	mg/L	0.010	0.00062	1	05/31/24 16:57	06/04/24 17:03	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	05/31/24 16:57	06/04/24 17:03	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	05/31/24 16:57	06/04/24 17:03	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	06/10/24 17:00	06/11/24 09:37	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**474**	mg/L	25.0	25.0	1		06/03/24 12:08		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**143**	mg/L	5.0	5.0	1		06/05/24 17:35		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		06/05/24 17:35		
Alkalinity, Total as CaCO3	**143**	mg/L	5.0	5.0	1		06/05/24 17:35		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		06/02/24 02:01	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**39.4**	mg/L	1.0	0.60	1		06/02/24 00:11	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92733822

Sample: HAM-PT-11 **Lab ID: 92733822004** Collected: 05/29/24 16:43 Received: 05/31/24 12:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.31**	mg/L	0.10	0.050	1		06/02/24 00:11	16984-48-8	
Sulfate	**118**	mg/L	3.0	1.5	3		06/02/24 06:09	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92733822

Sample: HAM-PT-12 **Lab ID: 92733822005** Collected: 05/29/24 12:08 Received: 05/31/24 12:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.032J**	mg/L	0.040	0.025	1	05/31/24 17:19	06/03/24 20:43	7439-89-6	
Manganese	**0.75**	mg/L	0.040	0.011	1	05/31/24 17:19	06/03/24 20:43	7439-96-5	
Potassium	**5.7**	mg/L	0.50	0.15	1	05/31/24 17:19	06/03/24 20:43	7440-09-7	
Sodium	**9.6**	mg/L	1.0	0.58	1	05/31/24 17:19	06/03/24 20:43	7440-23-5	
Calcium	**91.0**	mg/L	1.0	0.12	1	05/31/24 17:19	06/03/24 20:43	7440-70-2	
Magnesium	**18.6**	mg/L	0.050	0.012	1	05/31/24 17:19	06/03/24 20:43	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	05/31/24 16:57	06/04/24 17:07	7440-36-0	
Arsenic	**0.0026J**	mg/L	0.0050	0.00084	1	05/31/24 16:57	06/04/24 17:07	7440-38-2	
Barium	**0.069**	mg/L	0.0050	0.00047	1	05/31/24 16:57	06/04/24 17:07	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	05/31/24 16:57	06/04/24 17:07	7440-41-7	
Boron	**1.5**	mg/L	0.040	0.012	1	05/31/24 16:57	06/04/24 17:07	7440-42-8	
Cadmium	**0.00011J**	mg/L	0.00050	0.00010	1	05/31/24 16:57	06/04/24 17:07	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	05/31/24 16:57	06/04/24 17:07	7440-47-3	
Cobalt	**0.0021J**	mg/L	0.0050	0.00032	1	05/31/24 16:57	06/04/24 17:07	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	05/31/24 16:57	06/04/24 17:07	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	05/31/24 16:57	06/04/24 17:07	7439-93-2	
Molybdenum	**0.22**	mg/L	0.010	0.00062	1	05/31/24 16:57	06/04/24 17:07	7439-98-7	
Selenium	**0.0015J**	mg/L	0.0050	0.00096	1	05/31/24 16:57	06/04/24 17:07	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	05/31/24 16:57	06/04/24 17:07	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	06/10/24 17:00	06/11/24 09:40	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**488**	mg/L	25.0	25.0	1		06/03/24 12:08		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**136**	mg/L	5.0	5.0	1		06/07/24 13:55		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		06/07/24 13:55		
Alkalinity, Total as CaCO3	**136**	mg/L	5.0	5.0	1		06/07/24 13:55		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		06/02/24 02:01	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**48.0**	mg/L	1.0	0.60	1		06/03/24 00:51	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92733822

Sample: HAM-PT-12 **Lab ID: 92733822005** Collected: 05/29/24 12:08 Received: 05/31/24 12:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.31**	mg/L	0.10	0.050	1		06/03/24 00:51	16984-48-8	
Sulfate	**131**	mg/L	3.0	1.5	3		06/03/24 03:15	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92733822

Sample: HAM-AP1-EB-01 **Lab ID: 92733822006** Collected: 05/30/24 16:59 Received: 05/31/24 12:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	05/31/24 17:19	06/03/24 20:47	7439-89-6	
Manganese	ND	mg/L	0.040	0.011	1	05/31/24 17:19	06/03/24 20:47	7439-96-5	
Potassium	ND	mg/L	0.50	0.15	1	05/31/24 17:19	06/03/24 20:47	7440-09-7	
Sodium	ND	mg/L	1.0	0.58	1	05/31/24 17:19	06/03/24 20:47	7440-23-5	
Calcium	**0.13J**	mg/L	1.0	0.12	1	05/31/24 17:19	06/03/24 20:47	7440-70-2	
Magnesium	**0.030J**	mg/L	0.050	0.012	1	05/31/24 17:19	06/03/24 20:47	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	05/31/24 16:57	06/04/24 17:16	7440-36-0	
Arsenic	**0.0044J**	mg/L	0.0050	0.00084	1	05/31/24 16:57	06/04/24 17:16	7440-38-2	
Barium	ND	mg/L	0.0050	0.00047	1	05/31/24 16:57	06/04/24 17:16	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	05/31/24 16:57	06/04/24 17:16	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	05/31/24 16:57	06/04/24 17:16	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	05/31/24 16:57	06/04/24 17:16	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	05/31/24 16:57	06/04/24 17:16	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	05/31/24 16:57	06/04/24 17:16	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	05/31/24 16:57	06/04/24 17:16	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	05/31/24 16:57	06/04/24 17:16	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	05/31/24 16:57	06/04/24 17:16	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	05/31/24 16:57	06/04/24 17:16	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	05/31/24 16:57	06/04/24 17:16	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	06/10/24 17:00	06/11/24 09:43	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		06/03/24 12:10		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		06/07/24 15:40		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		06/07/24 15:40		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		06/07/24 15:40		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		06/02/24 02:06	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		06/02/24 22:00	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92733822

Sample: HAM-AP1-EB-01 **Lab ID: 92733822006** Collected: 05/30/24 16:59 Received: 05/31/24 12:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	ND	mg/L	0.10	0.050	1		06/02/24 22:00	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		06/02/24 22:00	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92733822

Sample: HAM-AP1-FB-01 **Lab ID: 92733822007** Collected: 05/30/24 16:52 Received: 05/31/24 12:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	05/31/24 17:19	06/03/24 20:51	7439-89-6	
Manganese	ND	mg/L	0.040	0.011	1	05/31/24 17:19	06/03/24 20:51	7439-96-5	
Potassium	ND	mg/L	0.50	0.15	1	05/31/24 17:19	06/03/24 20:51	7440-09-7	
Sodium	ND	mg/L	1.0	0.58	1	05/31/24 17:19	06/03/24 20:51	7440-23-5	
Calcium	ND	mg/L	1.0	0.12	1	05/31/24 17:19	06/03/24 20:51	7440-70-2	
Magnesium	ND	mg/L	0.050	0.012	1	05/31/24 17:19	06/03/24 20:51	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	05/31/24 16:57	06/04/24 17:20	7440-36-0	
Arsenic	**0.0040J**	mg/L	0.0050	0.00084	1	05/31/24 16:57	06/04/24 17:20	7440-38-2	
Barium	ND	mg/L	0.0050	0.00047	1	05/31/24 16:57	06/04/24 17:20	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	05/31/24 16:57	06/04/24 17:20	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	05/31/24 16:57	06/04/24 17:20	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	05/31/24 16:57	06/04/24 17:20	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	05/31/24 16:57	06/04/24 17:20	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	05/31/24 16:57	06/04/24 17:20	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	05/31/24 16:57	06/04/24 17:20	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	05/31/24 16:57	06/04/24 17:20	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	05/31/24 16:57	06/04/24 17:20	7439-98-7	
Selenium	**0.0011J**	mg/L	0.0050	0.00096	1	05/31/24 16:57	06/04/24 17:20	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	05/31/24 16:57	06/04/24 17:20	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	06/10/24 17:00	06/11/24 09:45	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		06/03/24 12:10		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		06/07/24 15:44		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		06/07/24 15:44		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		06/07/24 15:44		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		06/02/24 02:06	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		06/02/24 22:14	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92733822

Sample: HAM-AP1-FB-01 **Lab ID: 92733822007** Collected: 05/30/24 16:52 Received: 05/31/24 12:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	ND	mg/L	0.10	0.050	1		06/02/24 22:14	16984-48-8	M1
Sulfate	ND	mg/L	1.0	0.50	1		06/02/24 22:14	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92733822

Sample: HAM-AP1-FD-01 **Lab ID: 92733822008** Collected: 05/30/24 00:00 Received: 05/31/24 12:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.26**	mg/L	0.040	0.025	1	05/31/24 17:19	06/03/24 21:41	7439-89-6	
Manganese	**0.27**	mg/L	0.040	0.011	1	05/31/24 17:19	06/03/24 21:41	7439-96-5	
Calcium	**97.3**	mg/L	1.0	0.12	1	05/31/24 17:19	06/03/24 21:41	7440-70-2	
Magnesium	**20.9**	mg/L	0.050	0.012	1	05/31/24 17:19	06/03/24 21:41	7439-95-4	
Potassium	**6.4**	mg/L	0.50	0.15	1	05/31/24 17:19	06/04/24 14:10	7440-09-7	
Sodium	**12.0**	mg/L	1.0	0.58	1	05/31/24 17:19	06/04/24 14:10	7440-23-5	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	05/31/24 16:57	06/04/24 17:24	7440-36-0	
Arsenic	**0.0025J**	mg/L	0.0050	0.00084	1	05/31/24 16:57	06/04/24 17:24	7440-38-2	
Barium	**0.062**	mg/L	0.0050	0.00047	1	05/31/24 16:57	06/04/24 17:24	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	05/31/24 16:57	06/04/24 17:24	7440-41-7	
Boron	**1.4**	mg/L	0.040	0.012	1	05/31/24 16:57	06/04/24 17:24	7440-42-8	
Cadmium	**0.00014J**	mg/L	0.00050	0.00010	1	05/31/24 16:57	06/04/24 17:24	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	05/31/24 16:57	06/04/24 17:24	7440-47-3	
Cobalt	**0.0010J**	mg/L	0.0050	0.00032	1	05/31/24 16:57	06/04/24 17:24	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	05/31/24 16:57	06/04/24 17:24	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	05/31/24 16:57	06/04/24 17:24	7439-93-2	
Molybdenum	**0.24**	mg/L	0.010	0.00062	1	05/31/24 16:57	06/04/24 17:24	7439-98-7	
Selenium	**0.0012J**	mg/L	0.0050	0.00096	1	05/31/24 16:57	06/04/24 17:24	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	05/31/24 16:57	06/04/24 17:24	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	06/10/24 17:00	06/11/24 09:48	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**500**	mg/L	25.0	25.0	1		06/03/24 12:10		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**140**	mg/L	5.0	5.0	1		06/07/24 15:48		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		06/07/24 15:48		
Alkalinity, Total as CaCO3	**140**	mg/L	5.0	5.0	1		06/07/24 15:48		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		06/02/24 02:06	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**51.3**	mg/L	1.0	0.60	1		06/03/24 01:06	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92733822

Sample: HAM-AP1-FD-01 **Lab ID: 92733822008** Collected: 05/30/24 00:00 Received: 05/31/24 12:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.32**	mg/L	0.10	0.050	1		06/03/24 01:06	16984-48-8	
Sulfate	**129**	mg/L	3.0	1.5	3		06/03/24 03:29	14808-79-8	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92733822

QC Batch: 858318
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92733822001, 92733822002, 92733822003, 92733822004, 92733822005, 92733822006, 92733822007, 92733822008

METHOD BLANK: 4427514 Matrix: Water
Associated Lab Samples: 92733822001, 92733822002, 92733822003, 92733822004, 92733822005, 92733822006, 92733822007, 92733822008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	06/03/24 19:29	
Iron	mg/L	ND	0.040	0.025	06/03/24 19:29	
Magnesium	mg/L	ND	0.050	0.012	06/03/24 19:29	
Manganese	mg/L	ND	0.040	0.011	06/03/24 19:29	
Potassium	mg/L	ND	0.50	0.15	06/03/24 19:29	
Sodium	mg/L	ND	1.0	0.58	06/03/24 19:29	

LABORATORY CONTROL SAMPLE: 4427515

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0	102	80-120	
Iron	mg/L	1	1.0	103	80-120	
Magnesium	mg/L	1	1.0	104	80-120	
Manganese	mg/L	1	1.0	102	80-120	
Potassium	mg/L	1	1.0	102	80-120	
Sodium	mg/L	1	1.1	110	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4427516 4427517

Parameter	Units	92733547001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	37.2	1	1	38.6	39.0	141	186	75-125	1	20	M1
Iron	mg/L	0.21	1	1	1.2	1.2	100	100	75-125	0	20	
Magnesium	mg/L	8.5	1	1	9.5	9.6	101	112	75-125	1	20	
Manganese	mg/L	ND	1	1	0.99	1.0	97	98	75-125	1	20	
Potassium	mg/L	2580 ug/L	1	1	3.4	3.5	85	88	75-125	1	20	
Sodium	mg/L	67.1	1	1	68.5	69.1	139	197	75-125	1	20	M1

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92733822

QC Batch: 858301
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92733822001, 92733822002, 92733822003, 92733822004, 92733822005, 92733822006, 92733822007, 92733822008

METHOD BLANK: 4427464 Matrix: Water
Associated Lab Samples: 92733822001, 92733822002, 92733822003, 92733822004, 92733822005, 92733822006, 92733822007, 92733822008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	0.0010J	0.0030	0.00054	06/04/24 15:49	
Arsenic	mg/L	ND	0.0050	0.00084	06/04/24 15:49	
Barium	mg/L	ND	0.0050	0.00047	06/04/24 15:49	
Beryllium	mg/L	ND	0.00050	0.000094	06/04/24 15:49	
Boron	mg/L	ND	0.040	0.012	06/04/24 15:49	
Cadmium	mg/L	ND	0.00050	0.00010	06/04/24 15:49	
Chromium	mg/L	ND	0.0050	0.0019	06/04/24 15:49	
Cobalt	mg/L	ND	0.0050	0.00032	06/04/24 15:49	
Lead	mg/L	ND	0.0010	0.00016	06/04/24 15:49	
Lithium	mg/L	ND	0.030	0.0016	06/04/24 15:49	
Molybdenum	mg/L	ND	0.010	0.00062	06/04/24 15:49	
Selenium	mg/L	ND	0.0050	0.00096	06/04/24 15:49	
Thallium	mg/L	ND	0.0010	0.00038	06/04/24 15:49	

LABORATORY CONTROL SAMPLE: 4427465

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	111	80-120	
Arsenic	mg/L	0.1	0.11	106	80-120	
Barium	mg/L	0.1	0.11	105	80-120	
Beryllium	mg/L	0.1	0.10	103	80-120	
Boron	mg/L	1	0.98	98	80-120	
Cadmium	mg/L	0.1	0.10	101	80-120	
Chromium	mg/L	0.1	0.096	96	80-120	
Cobalt	mg/L	0.1	0.096	96	80-120	
Lead	mg/L	0.1	0.10	102	80-120	
Lithium	mg/L	0.1	0.10	104	80-120	
Molybdenum	mg/L	0.1	0.10	104	80-120	
Selenium	mg/L	0.1	0.11	107	80-120	
Thallium	mg/L	0.1	0.10	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4427466 4427467

Parameter	Units	92732634001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.10	0.11	104	108	75-125	4	20	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92733822

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4427466 4427467

Parameter	Units	92732634001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	6.5 ug/L	0.1	0.1	0.12	0.13	118	120	75-125	1	20	
Barium	mg/L	73.4 ug/L	0.1	0.1	0.19	0.20	120	123	75-125	2	20	
Beryllium	mg/L	ND	0.1	0.1	0.080	0.081	80	81	75-125	1	20	
Boron	mg/L	16.1	1	1	17.8	17.4	179	137	75-125	2	20	M1
Cadmium	mg/L	0.16J ug/L	0.1	0.1	0.097	0.098	97	97	75-125	1	20	
Chromium	mg/L	ND	0.1	0.1	0.10	0.10	103	100	75-125	3	20	
Cobalt	mg/L	0.011	0.1	0.1	0.11	0.11	103	99	75-125	3	20	
Lead	mg/L	ND	0.1	0.1	0.080	0.083	80	83	75-125	4	20	
Lithium	mg/L	16.2J ug/L	0.1	0.1	0.10	0.11	88	89	75-125	1	20	
Molybdenum	mg/L	41.5 ug/L	0.1	0.1	0.15	0.15	104	109	75-125	4	20	
Selenium	mg/L	2.9J ug/L	0.1	0.1	0.12	0.12	115	120	75-125	5	20	
Thallium	mg/L	0.75J ug/L	0.1	0.1	0.086	0.090	85	89	75-125	5	20	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92733822

QC Batch: 860215
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92733822001, 92733822002, 92733822003, 92733822004, 92733822005, 92733822006, 92733822007, 92733822008

METHOD BLANK: 4436712 Matrix: Water
Associated Lab Samples: 92733822001, 92733822002, 92733822003, 92733822004, 92733822005, 92733822006, 92733822007, 92733822008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	06/11/24 09:02	

LABORATORY CONTROL SAMPLE: 4436713

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0026	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4436714 4436715

Parameter	Units	92733822001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0027	0.0026	106	105	75-125	1	20	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92733822

QC Batch: 858596 | Analysis Method: SM 2540C-2015
QC Batch Method: SM 2540C-2015 | Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92733822001, 92733822002, 92733822003, 92733822004, 92733822005, 92733822006, 92733822007, 92733822008

METHOD BLANK: 4428622 Matrix: Water
Associated Lab Samples: 92733822001, 92733822002, 92733822003, 92733822004, 92733822005, 92733822006, 92733822007, 92733822008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	06/03/24 12:07	

LABORATORY CONTROL SAMPLE: 4428623

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	394	98	80-120	

SAMPLE DUPLICATE: 4428624

Parameter	Units	92733822001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	610	630	3	10	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92733822

QC Batch: 859203
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92733822001, 92733822004

METHOD BLANK: 4431658 Matrix: Water
Associated Lab Samples: 92733822001, 92733822004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	06/05/24 14:59	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	06/05/24 14:59	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	06/05/24 14:59	

LABORATORY CONTROL SAMPLE: 4431659

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.6	101	80-120	

LABORATORY CONTROL SAMPLE: 4431660

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	52.5	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4431661 4431662

Parameter	Units	92733822001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	176	50	50	221	222	90	90	80-120	0	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4431663 4431664

Parameter	Units	92733822004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	143	50	50	190	190	94	93	80-120	0	25	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92733822

QC Batch: 859504
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92733822002, 92733822003, 92733822005, 92733822006, 92733822007, 92733822008

METHOD BLANK: 4433372 Matrix: Water
Associated Lab Samples: 92733822002, 92733822003, 92733822005, 92733822006, 92733822007, 92733822008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	06/07/24 13:37	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	06/07/24 13:37	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	06/07/24 13:37	

LABORATORY CONTROL SAMPLE: 4433373

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	49.9	100	80-120	

LABORATORY CONTROL SAMPLE: 4433374

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	49.7	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4433375 4433376

Parameter	Units	92733822005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	136	50	50	184	183	97	96	80-120	0	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4433377 4433378

Parameter	Units	92734198001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	67.0	50	50	114	115	95	96	80-120	0	25	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92733822

QC Batch: 858390
QC Batch Method: SM 4500-S2D-2011
Analysis Method: SM 4500-S2D-2011
Analysis Description: 4500S2D Sulfide Water
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92733822001, 92733822002, 92733822003, 92733822004, 92733822005, 92733822006, 92733822007, 92733822008

METHOD BLANK: 4428023 Matrix: Water
Associated Lab Samples: 92733822001, 92733822002, 92733822003, 92733822004, 92733822005, 92733822006, 92733822007, 92733822008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	0.022	06/02/24 01:56	

LABORATORY CONTROL SAMPLE: 4428024

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	0.52	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4428025 4428026

Parameter	Units	92733542001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.53	0.54	104	107	80-120	3	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4428027 4428028

Parameter	Units	92733542003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.52	0.56	102	110	80-120	8	10	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92733822

QC Batch: 858418
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92733822001, 92733822002, 92733822003, 92733822004

METHOD BLANK: 4428096 Matrix: Water
Associated Lab Samples: 92733822001, 92733822002, 92733822003, 92733822004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	06/01/24 16:46	
Fluoride	mg/L	ND	0.10	0.050	06/01/24 16:46	
Sulfate	mg/L	ND	1.0	0.50	06/01/24 16:46	

LABORATORY CONTROL SAMPLE: 4428097

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	51.1	102	90-110	
Fluoride	mg/L	2.5	2.6	104	90-110	
Sulfate	mg/L	50	51.1	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4428098 4428099

Parameter	Units	92733871001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	11.7	50	50	66.7	63.3	110	103	90-110	5	10	
Fluoride	mg/L	0.33	2.5	2.5	3.2	2.9	113	104	90-110	7	10	M1
Sulfate	mg/L	3.5	50	50	58.5	55.1	110	103	90-110	6	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4428102 4428103

Parameter	Units	92733765025 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	3.2	50	50	56.9	57.5	107	109	90-110	1	10	
Fluoride	mg/L	0.30	2.5	2.5	3.1	3.1	110	111	90-110	1	10	M1
Sulfate	mg/L	43.6	50	50	96.9	97.5	107	108	90-110	1	10	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92733822

QC Batch: 858511
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92733822005, 92733822006, 92733822007, 92733822008

METHOD BLANK: 4428289 Matrix: Water
Associated Lab Samples: 92733822005, 92733822006, 92733822007, 92733822008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	06/02/24 21:31	
Fluoride	mg/L	ND	0.10	0.050	06/02/24 21:31	
Sulfate	mg/L	ND	1.0	0.50	06/02/24 21:31	

LABORATORY CONTROL SAMPLE: 4428290

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	51.0	102	90-110	
Fluoride	mg/L	2.5	2.7	107	90-110	
Sulfate	mg/L	50	51.1	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4428291 4428292

Parameter	Units	92733788001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	70.2	50	50	108	109	75	78	90-110	1	10	M1
Fluoride	mg/L	ND	2.5	2.5	2.6	2.8	105	110	90-110	5	10	
Sulfate	mg/L	22.8	50	50	73.4	75.8	101	106	90-110	3	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4428293 4428294

Parameter	Units	92733822007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	ND	50	50	49.3	53.2	99	106	90-110	7	10	
Fluoride	mg/L	ND	2.5	2.5	2.6	2.8	105	112	90-110	6	10	M1
Sulfate	mg/L	ND	50	50	49.3	53.1	99	106	90-110	7	10	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: Hammond AP-1
Pace Project No.: 92733822

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Hammond AP-1
Pace Project No.: 92733822

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92733822001	**HAM-INW-03**	EPA 3010A	858318	EPA 6010D	858334
92733822002	**HAM-PT-09**	EPA 3010A	858318	EPA 6010D	858334
92733822003	**HAM-PT-10**	EPA 3010A	858318	EPA 6010D	858334
92733822004	**HAM-PT-11**	EPA 3010A	858318	EPA 6010D	858334
92733822005	**HAM-PT-12**	EPA 3010A	858318	EPA 6010D	858334
92733822006	**HAM-AP1-EB-01**	EPA 3010A	858318	EPA 6010D	858334
92733822007	**HAM-AP1-FB-01**	EPA 3010A	858318	EPA 6010D	858334
92733822008	**HAM-AP1-FD-01**	EPA 3010A	858318	EPA 6010D	858334
92733822001	**HAM-INW-03**	EPA 3005A	858301	EPA 6020B	858345
92733822002	**HAM-PT-09**	EPA 3005A	858301	EPA 6020B	858345
92733822003	**HAM-PT-10**	EPA 3005A	858301	EPA 6020B	858345
92733822004	**HAM-PT-11**	EPA 3005A	858301	EPA 6020B	858345
92733822005	**HAM-PT-12**	EPA 3005A	858301	EPA 6020B	858345
92733822006	**HAM-AP1-EB-01**	EPA 3005A	858301	EPA 6020B	858345
92733822007	**HAM-AP1-FB-01**	EPA 3005A	858301	EPA 6020B	858345
92733822008	**HAM-AP1-FD-01**	EPA 3005A	858301	EPA 6020B	858345
92733822001	**HAM-INW-03**	EPA 7470A	860215	EPA 7470A	860356
92733822002	**HAM-PT-09**	EPA 7470A	860215	EPA 7470A	860356
92733822003	**HAM-PT-10**	EPA 7470A	860215	EPA 7470A	860356
92733822004	**HAM-PT-11**	EPA 7470A	860215	EPA 7470A	860356
92733822005	**HAM-PT-12**	EPA 7470A	860215	EPA 7470A	860356
92733822006	**HAM-AP1-EB-01**	EPA 7470A	860215	EPA 7470A	860356
92733822007	**HAM-AP1-FB-01**	EPA 7470A	860215	EPA 7470A	860356
92733822008	**HAM-AP1-FD-01**	EPA 7470A	860215	EPA 7470A	860356
92733822001	**HAM-INW-03**	SM 2540C-2015	858596		
92733822002	**HAM-PT-09**	SM 2540C-2015	858596		
92733822003	**HAM-PT-10**	SM 2540C-2015	858596		
92733822004	**HAM-PT-11**	SM 2540C-2015	858596		
92733822005	**HAM-PT-12**	SM 2540C-2015	858596		
92733822006	**HAM-AP1-EB-01**	SM 2540C-2015	858596		
92733822007	**HAM-AP1-FB-01**	SM 2540C-2015	858596		
92733822008	**HAM-AP1-FD-01**	SM 2540C-2015	858596		
92733822001	**HAM-INW-03**	SM 2320B-2011	859203		
92733822002	**HAM-PT-09**	SM 2320B-2011	859504		
92733822003	**HAM-PT-10**	SM 2320B-2011	859504		
92733822004	**HAM-PT-11**	SM 2320B-2011	859203		
92733822005	**HAM-PT-12**	SM 2320B-2011	859504		
92733822006	**HAM-AP1-EB-01**	SM 2320B-2011	859504		
92733822007	**HAM-AP1-FB-01**	SM 2320B-2011	859504		
92733822008	**HAM-AP1-FD-01**	SM 2320B-2011	859504		
92733822001	**HAM-INW-03**	SM 4500-S2D-2011	858390		
92733822002	**HAM-PT-09**	SM 4500-S2D-2011	858390		
92733822003	**HAM-PT-10**	SM 4500-S2D-2011	858390		
92733822004	**HAM-PT-11**	SM 4500-S2D-2011	858390		
92733822005	**HAM-PT-12**	SM 4500-S2D-2011	858390		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Hammond AP-1
Pace Project No.: 92733822

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92733822006	**HAM-AP1-EB-01**	SM 4500-S2D-2011	858390		
92733822007	**HAM-AP1-FB-01**	SM 4500-S2D-2011	858390		
92733822008	**HAM-AP1-FD-01**	SM 4500-S2D-2011	858390		
92733822001	**HAM-INW-03**	EPA 300.0 Rev 2.1 1993	858418		
92733822002	**HAM-PT-09**	EPA 300.0 Rev 2.1 1993	858418		
92733822003	**HAM-PT-10**	EPA 300.0 Rev 2.1 1993	858418		
92733822004	**HAM-PT-11**	EPA 300.0 Rev 2.1 1993	858418		
92733822005	**HAM-PT-12**	EPA 300.0 Rev 2.1 1993	858511		
92733822006	**HAM-AP1-EB-01**	EPA 300.0 Rev 2.1 1993	858511		
92733822007	**HAM-AP1-FB-01**	EPA 300.0 Rev 2.1 1993	858511		
92733822008	**HAM-AP1-FD-01**	EPA 300.0 Rev 2.1 1993	858511		

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DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt

Effective Date: 12/01/2023

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Georgia Power

Project #: **WO# : 92733822**

92733822

Courier: ☐ Commercial ☑ Pace ☐ Fed Ex ☐ UPS ☐ USPS ☐ Other: ☐ Client

Custody Seal Present? ☑ Yes ☐ No Seals Intact? ☑ Yes ☐ No ☐ N/A

Date/Initials Person Examining Contents: 9/26 DW

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☐ IR Gun ID: 232

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 2.6 Correction Factor: Add/Subtract (°C) 0

Temp should be above freezing to 6°C

☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 2.6

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☐ No	☐ N/A	4. 5 Day TAT
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☑ No	☐ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: WG, WW				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

Dualtrax ID: 68614

Page 1 of 2

WO#: 92733822

PM: BV Due Date: 06/14/24

CLIENT: 92- GP-HAM

Project #

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, Hg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic Zn Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	SP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3B-250 mL Plastic (NH4)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		2	1			1	1																						
2		2	1			1	1																						
3		2	1			1	1																						
4		2	1			1	1																						
5		2	1			1	1																						
6		2	1			1	1																						
7		2	1			1	1																						
8		2	1			1	1																						
9																													
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

Section A (Required Client Information)	Section B	Section C
Company: GA Power	Report To: SCS Contacts	Attention: Southern Co
Address: Atlanta GA	Copy To: Geosyntec Contacts	Company Name:
		Address:
Email To: SCS Contacts	Purchase Order No: GPC82474-0001	Pace Quote Reference:
Phone: / Fax:	Project Name: Hammond AP-1	Pace Project Manager: Bonnie Varg
Requested Due Date/TAT: 5 day	Project Number:	Pace Profile #: 10839

REGULATORY AGENCY

NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐

UST ☐ RCRA ☐ OTHER ☑ CCR

Site Location STATE: GA

Section D (Required Client Information)

Valid Matrix Codes: MATRIX / CODE — DRINKING WATER DW; WATER WT; WASTE WATER WW; PRODUCT P; SOIL/SOLID S; OIL OL; WIPE WP; AIR AR; TISSUE TS; OTHER OT

SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test: Chloride, Fluoride, Sulfate	Total App. III and IV Metals	Major Ions (Profile 10839-2)	TDS	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
																Y/N	N	N	N	N		9273382
1	HAM-INW-03	WG	G	5/29/2024	1414		20	5	3		1				1	X	X	X	X		N	001
2	HAM-PT-09	WG	G	5/30/2024	1152		20	5	3		1				1	X	X	X	X		N	002
3	HAM-PT-10	WG	G	5/30/2024	1440		20	5	3		1				1	X	X	X	X		N	003
4	HAM-PT-11	WG	G	5/29/2024	1643		19	5	3		1				1	X	X	X	X		N	004
5	HAM-PT-12	WG	G	5/29/2024	1208		19	5	3		1				1	X	X	X	X		N	005
6	HAM-AP1-EB-01	WQ	G	5/30/2024	1659		20	5	3		1				1	X	X	X	X		N	006
7	HAM-AP1-FB-01	WQ	G	5/30/2024	1652		20	5	3		1				1	X	X	X	X		N	007
8	HAM-AP1-FD-01	WG	G	5/30/2024	0000		20	5	3		1				1	X	X	X	X		N	
9																						
10																						
11																						
12																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Task Code: HAM-CCR-CA-20240529	Zan Webb / Geosyntec	5-30-2024	1900	Colton Grant / Geosyntec	5-30-2024	1900	
	Colton Grant / Geosyntec	5-31-2024	1207	Ryan Williams / Pace	5/31/2024	1207	
	Ryan Williams / Pace	5/31/2024	1252		5/31/24	1252	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Zan Webb / Geosyntec Consultants, Inc

SIGNATURE of SAMPLER: Zan Webb DATE Signed (MM/DD/YY): 5/30/2024

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

Page 40 of 40

F-ALL-Q-020rev.07, 15-Feb-2017

Site Name: Hammond

Field Instrumentation Calibration Form

Date: 5/2/23

Calibrated By: EF

Field Conditions: 60-80 sunny

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aqua Troll 400	183546
Turbidity Meter	Hanna 2020	1511-911

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24005393	12/24	APW
pH (SU)	4.00	24004993	12/23	APW
pH (SU)	7.00	24004517	12/24	APW
pH (SU)	10.00	24000083	12/24	APW
D.O. (%)	N/A	—	~~12/23~~	APW
ORP (mV)	228.0	24006405	12/24	APW

Calibration					
Time Start 815		Time Finish 847			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4490	19.86	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	~~20.59~~ 28.15	± 0.1	GWMP
pH (SU)	7.00	7.00	27.30	± 0.1	GWMP
pH (SU)	10.00	10.00	26.99	± 0.1	GWMP
D.O. (%)	N/A	100.1	27.22	± 10%	NA
ORP (mV)	228.0	228	26.57	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0	± 10% of standard	EPA 2023
	1	91		
	10	9.91		
	—	—		

Calibration Check					
Time Start 1315		Time Finish 1340			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4490	30.09	± 10% of standard	EPA 2023
pH (SU)	4.00	4	34.13	± 0.1	GWMP
pH (SU)	7.00	7	33.21	± 0.1	GWMP
pH (SU)	10.00	10	31.94	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0	± 10% of standard	EPA 2023
	1	.97		
	10	9.71		
	—	—		

Notes:

Site Name: Plant Hammond

Field Instrumentation Calibration Form

Date: 6-2-24

Calibrated By: Zain W.

Field Conditions: Clear, 70°F

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 600	916183
Turbidity Meter	LaMotte	7009-1416

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (uS/cm)	4,490	24005593	12/24	ATR
pH (SU)	4 00	24005595	12/24	
pH (SU)	7 00	24004511	12/24	
pH (SU)	10 00	24000085	12/24	
D.O (%)	N/A	—	—	
ORP (mV)	228.0	24006903	12/24	

Calibration					
Time Start 0828		Time Finish 1348			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (uS/cm)	4,490	4490	22.01	± 10% of standard	EPA 2023
pH (SU)	4 00	4.0	22.17	± 0 1	GWMP
pH (SU)	7 00	7.0	22.33	± 0 1	GWMP
pH (SU)	10 00	10.0	22.35	± 0 1	GWMP
D O (%)	N/A	—	97.56	± 10%	NA
ORP (mV)	228.0	228.0	22.19	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0	± 10% of standard	EPA 2023
	1	1		
	10	10		
	—	—		

Calibration Check					
Time Start 1510		Time Finish 1523			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (uS/cm)	4,490	4490	26.05	± 10% of standard	EPA 2023
pH (SU)	4 00	4.0	26.33	± 0 1	GWMP
pH (SU)	7 00	7.0	25.26	± 0 1	GWMP
pH (SU)	10.00	10.0	24.38	± 0 1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0	± 10% of standard	EPA 2023
	1	1		
	10	10		
	—	—		

Notes: Had problem w/ conductivity; solved by restoring factory calibration

Site Name: Plant Hammond

Field Instrumentation Calibration Form

Date: 5-9-2024

Calibrated By: A. Szwast

Field Conditions: Thunderstorms, 66°F

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	850751
Turbidity Meter	La Motte 2020e	7009-1416

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24040693	12/2024	AIR
pH (SU)	4.00	24011593	12/2024	AIR
pH (SU)	7.00	24003597	11/2024	AIR
pH (SU)	10.00	24014996	11/2024	AIR
D.O. (%)	N/A	—	—	—
ORP (mV)	228.0	24006903	11/2024	AIR

Calibration					
Time Start 1020		Time Finish 1040			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4490.0	23.34	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	23.54	± 0.1	GWMP
pH (SU)	7.00	7.00	23.52	± 0.1	GWMP
pH (SU)	10.00	10.00	23.57	± 0.1	GWMP
D.O. (%)	N/A	99.7 100%	23.04	± 10%	NA
ORP (mV)	228.0	228.0	23.45	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0.00	± 10% of standard	EPA 2023
	1	0.70		
	10	10.12		
	—	—		

Calibration Check					
Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490			± 10% of standard	EPA 2023
pH (SU)	4.00			± 0.1	GWMP
pH (SU)	7.00			± 0.1	GWMP
pH (SU)	10.00			± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)			± 10% of standard	EPA 2023

Notes:

Site Name: GP Plant Hammond

Field Instrumentation Calibration Form

Date: 5/13 & 14/24

Calibrated By: J. Newsome

Field Conditions: Cloudy, 60's

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll	966105
Turbidity Meter	LaMotte 2020 we	1511- 4111

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24005593	12/2024	AIR
pH (SU)	4 00	24005593	12/2024	AIR
pH (SU)	7 00	24050457	12/2024	AIR
pH (SU)	10 00	24 001085	12/2024	AIR
D O (%)	N/A	—	—	—
ORP (mV)	228 0	24003903	12/2024	AIR

Calibration					
Time Start	0750	Time Finish	820		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4491.4	19.05	± 10% of standard	EPA 2023
pH (SU)	4 00	4.04	19.14	± 0 1	GWMP
pH (SU)	7.00	7.04	19.24	± 0 1	GWMP
pH (SU)	10 00	10.03	19.33 30	± 0 1	GWMP
D O (%)	N/A	99.75	19.24	± 10%	NA
ORP (mV)	228 0	228.5	19.32	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0.01	± 10% of standard	EPA 2023
	1	1.01		
	10	9.98		
	—	—		

Calibration Check					
Time Start	1230	Time Finish	1245		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4490.91	20.12	± 10% of standard	EPA 2023
pH (SU)	4 00	4.03	20.12	± 0.1	GWMP
pH (SU)	7 00	7.02	19.103	± 0.1	GWMP
pH (SU)	10 00	10.04	20.05	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0	± 10% of standard	EPA 2023
	1	1.01		
	10	10		
	—	—		

Notes:

Site Name: Plant Hammond

Field Instrumentation Calibration Form

Date: 5-15-2024

Calibrated By: A. Szwast

Field Conditions: Cloudy, 70°F

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	850751
Turbidity Meter	LaMotte 2020e	5008-1816

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24005593	12/2024	AIR
pH (SU)	4 00	24005593	12/2024	AIR
pH (SU)	7 00	24003597	11/2024	AIR
pH (SU)	10 00	24004496	11/2024	AIR
D O (%)	N/A	—	—	—
ORP (mV)	228.0	24006403	11/2024	AIR

Calibration					
Time Start 745		Time Finish 810			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (uS/cm)	4,490	4490.0	18.97	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	19.15	± 0 1	GWMP
pH (SU)	7 00	7.00	19.33	± 0 1	GWMP
pH (SU)	10 00	10.00	19.47	± 0 1	GWMP
D.O (%)	N/A	100.00	18.62	± 10%	NA
ORP (mV)	228.0	229.0	19.46	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0.00	± 10% of standard	EPA 2023
	1	0.77		
	10	9.47		
	—	—		

Calibration Check					
Time Start 1630		Time Finish 1640			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (uS/cm)	4,490	4490.0	30.19	± 10% of standard	EPA 2023
pH (SU)	4 00	4.00	29.82	± 0 1	GWMP
pH (SU)	7 00	7.00	28.04	± 0 1	GWMP
pH (SU)	10.00	10.00	27.03	± 0 1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0.02	± 10% of standard	EPA 2023
	1	0.83		
	10	10.08		
	—	—		

Notes:

Site Name: Port Hammond

Field Instrumentation Calibration Form

Date: 5/15/24

Calibrated By: T Newsome

Field Conditions: Cloudy, 60° F

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aqua troll	966105
Turbidity Meter	LaMotte 2020e	17111-4111

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24105593	12/2024	AIR2
pH (SU)	4.00	24105493	12/20/24	AIR
pH (SU)	7.00	24004514	12/2024	AIR2
pH (SU)	10.00	24000065	12/2024	AIR2
D.O. (%)	N/A	—	—	—
ORP (mV)	228.0	24070905	12/2024	AIR2

Calibration					
Time Start	0750	Time Finish	0810		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4034.6	20.20	± 10% of standard	EPA 2023
pH (SU)	4.00	4.02	20.35	± 0.1	GWMP
pH (SU)	7.00	7.03	20.30	± 0.1	GWMP
pH (SU)	10.00	10.05	21.01	± 0.1	GWMP
D.O. (%)	N/A	100.1	20.27	± 10%	NA
ORP (mV)	228.0	232.6	20.94	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0	± 10% of standard	EPA 2023
	1	0.96		
	10	10.01		
	—	—		

Calibration Check					
Time Start	1445	Time Finish	1455		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4109.7	22.4	± 10% of standard	EPA 2023
pH (SU)	4.00	4.02	22.4	± 0.1	GWMP
pH (SU)	7.00	7.03	21.6	± 0.1	GWMP
pH (SU)	10.00	10.0	22.7	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0	± 10% of standard	EPA 2023
	1	1.01		
	—	—		

Notes:

Site Name: Plant Hammond

Calibrated By: A. Sennett

Field Instrumentation Calibration Form

Date: 5-16-2024

Field Conditions: Sunny, 70°F

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	550751
Turbidity Meter	LaMotte 2020e	2009-1416

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4.490	24005593	12/2024	AIR
pH (SU)	4.00	24005593	12/2024	AIR
pH (SU)	7.00	24003594	11/2024	AIR
pH (SU)	10.00	24004996	11/2024	AIR
D.O. (%)	N/A	~	~	~
ORP (mV)	228.0	24006903	11/2024	AIR

Calibration					
Time Start 800		Time Finish 830			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4.490	4420.0	20.04	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	20.02	± 0.1	GWMP
pH (SU)	7.00	7.00	20.13	± 0.1	GWMP
pH (SU)	10.00	10.00	20.20	± 0.1	GWMP
D.O. (%)	N/A	100.00	20.04	± 10%	NA
ORP (mV)	228.0	228.0	20.09	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0.00	± 10% of standard	EPA 2023
	1	0.81		
	10	10.10		
	~	~		

Calibration Check					
Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4.490			± 10% of standard	EPA 2023
pH (SU)	4.00			± 0.1	GWMP
pH (SU)	7.00			± 0.1	GWMP
pH (SU)	10.00			± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)			± 10% of standard	EPA 2023

Notes:

Site Name: Plant Hammond

Field Instrumentation Calibration Form

Date: 5/14/24

Calibrated By: J Nelson Sc Mc

Field Conditions: Sunny, 100°F

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll	710105
Turbidity Meter	LaMotte 2020w	1511-1111

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24005593	12/2024	AIR
pH (SU)	4 00	24 005593	12/2024	AIR
pH (SU)	7 00	24 004517	12/2024	AIR
pH (SU)	10.00	24000085	12/2024	AIR
D O (%)	N/A	—	—	—
ORP (mV)	228 0	24006903	12/2024	AIR

Calibration					
Time Start	740	Time Finish	0800		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4493.9	19.9	± 10% of standard	EPA 2023
pH (SU)	4 00	4.00	20.17	± 0.1	GWMP
pH (SU)	7 00	6.97	20.25	± 0 1	GWMP
pH (SU)	10 00	10.02	20.29	± 0 1	GWMP
D O (%)	N/A	100.53	20.3	± 10%	NA
ORP (mV)	228 0	234.7	20.52	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0.00	± 10% of standard	EPA 2023
	1	0.97		
	10	9.99		
	—	—		

Calibration Check					
Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490			± 10% of standard	EPA 2023
pH (SU)	4 00			± 0 1	GWMP
pH (SU)	7 00			± 0 1	GWMP
pH (SU)	10 00			± 0 1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)			± 10% of standard	EPA 2023

Notes:

Site Name: Plant Hammond

Calibrated By: Zeiin Webb

Field Instrumentation Calibration Form

Date: 5-29-24

Field Conditions: Sunny, 75°F

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	In-Situ Aqua Troll 400	965586
Turbidity Meter	Orion Model 9510	—

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24005595	11/24	ATR
pH (SU)	4 00	24005593	12/24	ATR
pH (SU)	7 00	24003547	11/24	ATR
pH (SU)	10 00	24000085	12/24	ATR
D O (%)	N/A	—	—	ATR
ORP (mV)	228.0	24006903	12/24	ATR

Calibration					
Time Start 0937		Time Finish 0959			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (uS/cm)	4,490	4491	23.69	± 10% of standard	EPA 2023
pH (SU)	4 00	4.00	23.87	± 0.1	GWMP
pH (SU)	7 00	7.00	24.17	± 0 1	GWMP
pH (SU)	10 00	10 00	24.35	± 0.1	GWMP
D O (%)	N/A	—	24.51	± 10%	NA
ORP (mV)	228.0	228.0	24.31	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0	± 10% of standard	EPA 2023
	1	1		
	10	10		
	—	—		

Calibration Check					
Time Start 1500		Time Finish 1515			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4490	29.03	± 10% of standard	EPA 2023
pH (SU)	4 00	4.00	28.59	± 0 1	GWMP
pH (SU)	7 00	7.00	26.87	± 0 1	GWMP
pH (SU)	10 00	10.00	25.93	± 0 1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0	± 10% of standard	EPA 2023
	1	1		
	10	10		
	—	—		

Notes:

Site Name: Plant Hammond

Field Instrumentation Calibration Form

Date: 5-30-24

Calibrated By: Zain W.

Field Conditions: Sunny, 70°F

Instrument	Manufacturer/ Model	Serial Number
Water Quality Meter	Xylem Aqua Troll 600	665826
Turbidity Meter	LaMotte 2020i	—

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24005593	12/24	ATR
pH (SU)	4.00	24005593	12/24	↓
pH (SU)	7.00	24003597	11/24	
pH (SU)	10.00	24000085	12/24	
D.O. (%)	N/A	—	—	
ORP (mV)	228.0	24006903	12/24	↓

Calibration					
Time Start: 0819		Time Finish: 0844			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4490	20.32	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	20.75	± 0.1	GWMP
pH (SU)	7.00	7.00	21.90	± 0.1	GWMP
pH (SU)	10.00	10.00	22.55	± 0.1	GWMP
D.O. (%)	N/A	100.2	22.21	± 10%	NA
ORP (mV)	228.0	228.0	22.68	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0	± 10% of standard	EPA 2023
	1	1		
	10	10		
	—	—		

Calibration Check					
Time Start: —		Time Finish: —			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	—	—	± 10% of standard	EPA 2023
pH (SU)	4.00	—	—	± 0.1	GWMP
pH (SU)	7.00	—	—	± 0.1	GWMP
pH (SU)	10.00	—	—	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	—	—	± 10% of standard	EPA 2023
	—	—		
	—	—		
	—	—		

Notes:

APPENDIX C

Injection Field Forms

Injection Log

Project Name: GP Plant Hammond
Project Number: 60605816
Field Personnel: T. Newsome, A. Akers

Date: 7/11/24 Page 1 of ___
Weather: sunny, 85°
Activity: injections

Location: AP 1
Start: Date 7/11/24 Time 1045
Finish: Date ___ Time ___

Well ID	Start Time (hr:mm)	Stop Time (hr:mm)	Volume Injected (gal)	Injection Pressure (psi)	Flowrate (GPM)	Notes
7/11 INW-03	1045	1200	325	<2	~2	FeSO4 Batch 1
INW-03	1240	1410	325	<2	~2	FeSO4 Batch 2
INW-03	1500	1610	325	<2	3	FeSO4 Batch 3
7/15 INW-03	1006	1059	300	0.7	5.7	FeSO4 Batch 4
INW-03	1115	1213	308	<0.5	5.3	FeSO4 Batch 5
INW-03	1300	1355	300	0.7	5.2	FeSO4 Batch 6
INW-03	1415	1522	303	0.4	5.4	FeSO4 Batch 7
7/15 INW-03	1030	1107	305	2.6	8.2	FeSO4 Batch 8
INW-03	1125	1200	298	3.3	8.5	FeSO4 Batch 9
INW-03	1317	1353	309	3.3	8.5	FeSO4 Batch 10
INW-03	1405	1442	305	3.3	8.2	FeSO4 Batch 11

HSWL 8 Area

Injectate Batch Preparation Log

Project Name: GP Plant Hammond Page 1 of
Project Number: GWU5815 Field Personnel: J Newsome A Akbari
Date: 7/11/24 Weather Sunny 80F

Batch #	Tank Fill			Injectate		Geochemical Parameters						Comments
	Start Time (hr:mm)	End Time (hr:mm)	Volume (gallons)	Time (hr:mm)	Amount (lb)	Time (hr:mm)	Temp (°C)	pH (SU)	Sp. Cond (µs/cm²)	DO (mg/L)	ORP (mV)	
INW-03 1			325	1040	1.25	1040	25.96	7.47	0.459	8.25	38.3	mixing in tank
						1045	26.0	6.78	0.475	5.17	9.4	start injection
						1100	26.19	6.03	0.455	3.3	8.7	
						1115	26.42	5.91	0.444	2.99	15.3	
						1130	26.60	5.85	0.439	3.14	20.3	
						1145	26.87	5.83	0.419	4.46	27.5	
↓						1200	27.29	5.84	0.415	5.44	23.4	stop injections
INW-03 2	1204	1224	325	1240	1.25	1240	29.93	7.90	0.206	7.79	290	mixing in tank
						1245	25.89	6.23	0.459	5.64	-3.9	inject
						1300	25.92	6.02	0.429	3.83	—	
						1315	26.11	5.93	0.419	3.76	12.8	
						1330	26.36	5.87	0.411	4.22	17.2	
						1345	26.67	5.76	0.393	5.96	27.1	
↓						1400	26.93	5.63	0.393	6.22	52.1	stop injection
INW-03 3			325	1455	1.25	1455	25.82	8.09	0.198	7.82	419.6	mix in tank
						1500	25.94	6.14	0.435	5.44	9.2	inject
						1515	26.17	6.02	0.410	3.81	25	↓
						1530	26.37	5.93	0.413	3.54	7.4	

Injectate Batch Preparation Log

Project Name: Hammond
Project Number: [illegible]
Date: 07-13-24
Field Personnel: AA JH
Weather: Sunny
Page: 1 of 1

Batch #	Tank Fill			Injectate		Geochemical Parameters						Comments
	Start Time (hr:mm)	End Time (hr:mm)	Volume (gallons)	Time (hr:mm)	Amount (lb)	Time (hr:mm)	Temp (°C)	pH (SU)	Sp. Cond (µs/cm²)	DO (mg/L)	ORP (mV)	
1						952	27.03	7.88	0.20	7.95	377.8	Potable water
1	1000	1059	300	1000	1.25	1000	26.90	6.03	0.45	5.14	-27.0	5min after mixing w/ injectate
1						1015	27.15	5.86	0.45	3.37	-6.10	
1						1030	27.38	5.72	0.44	2.80	12.3	
2(1)						1045	27.63	5.65	0.43	2.60	19.3	
2	1115	1213	303	1115	1.25	1100	25.63	7.79	0.20	7.98	302.0	potable water
2						1115	26.06	6.00	0.47	4.98	-25.1	5min after mixing / start injec
2						1130	26.24	5.90	0.43	3.53	-11.1	
2						1145	26.51	5.78	0.42	2.98	4.1	
2						1200	26.64	5.73	0.42	2.82	10.3	
2						202	26.84	5.73	0.42	3.77	10.6	moved sensor down
3			300			1255	26.29	7.99	0.2	7.94	291.8	Potable water
3								7.78				
3	1300	1356		1300		1300	26.28	5.99	0.47	4.63	-28.9	after 5min mix/start of inj
3						1315	26.46	5.89	0.45	3.50	-17.0	
3						1330	26.73	5.79	0.44	2.97	-3.8	
3						1345	27.03	5.68	0.43	2.71	9.7	
3						1356	27.46	5.64	0.43	2.62	6.9	
4				1410	1.25	1410	25.84	7.75	0.19	7.99	238.8	Potable water
4	1415		303	1415		1415	26.27	6.00	0.46	5.34	-32.0	Start of injection / 15min mix
4				1430		1430						
4						1445	26.82	5.78	0.41	2.93	-1.1	
4						1500	27.15	5.75	0.41	4.17	5.3	
4						1515	27.38	5.88	0.41	4.34	30.3	

MW-03_4

MW-03_8

MW-03S

MW-03D

Injectate Batch Preparation Log

Project Name: Hammond
Project Number:
Date: 07-15-2024
Field Personnel: Ali A, Jamie N
Weather: cloudy
Page 1 of 1

Batch #	Tank Fill			Injectate		Geochemical Parameters						Comments
	Start Time (hr:mm)	End Time (hr:mm)	Volume (gallons)	Time (hr:mm)	Amount (lb)	Time (hr:mm)	Temp (°C)	pH (SU)	Sp. Cond (µs/cm³)	DO (mg/L)	ORP (mV)	
						9825	24.69	7.96	0.2	8.07	138.5	potable water
1	1030				2.5	1030	25.78	5.72	1.12	6.29	-34.5	start of injection
						1045	25.91	5.73	0.63	3.34	-14.9	
						1100	26.10	5.54	0.84	5.15	-0.4	
		1107	305			1107	26.14	5.42	0.89*	4.74	13.7	
2						1120	24.51	7.52	0.20	8.17	110.5	potable water
	1125				2.5	1125	24.91	5.80	0.77	4.35	-26.9	start of injection
						1140	25.05	5.65	0.75	3.20	-8.8	
						1155	25.3	5.58	0.74	4.96	0.6	
		1200	296		2.5	1159	25.49	5.89	0.73	5.89	14.1	
3						1312	26.10	7.09	0.21	7.28	106.2	potable water
	1318		808		2.5	1318	26.28	5.80	0.7	4.55	-32.8	start of injection
						1330	26.51	5.62	0.68	3.04	-10.6	
		1353	303		2	1345	26.85	5.59	0.78	4.12	-1.4	
						~~1353~~	~~27.42~~	~~5.99~~	~~0.17~~	~~7.43~~	~~19.5~~	~~Potable water~~
4						1359	25.73	7.50	0.20	8.15	87.1	Potable water
	1405				2.5	1405	25.86	5.79	0.71	4.40	-28.9	
						1424	26.12	5.55	0.72	2.85	-3.5	
		1442	305			1440	26.55	5.45	0.79	3.27	8.5	4th injection complete

Injection Log

Project Name: Plant Hammond
Project Number: AW05816
Field Personnel: A. Akbar, J. Newsome

Date: 7/9/24 Page 1 of ___
Weather: Sunny, 94F
Activity: injections

Location: HGWS-13
Start: Date 7/9/24 Time 1223
Finish: Date ___ Time ___

Well ID	Start Time (hr:mm)	Stop Time (hr:mm)	Volume Injected (gal)	Injection Pressure (psi)	Flowrate (GPM)	Notes
7/9/24						
INW-04	1223	1308	22	Ø	0.5	potable water
INW-05	1310	1321	3	Ø	2.5	
INW-04	1324	1426	225	Ø	5	
INW-05	1700	1815	225	Ø	2	
7/10/24						
INW-04	903	~~1240~~ 1240	300	2	3	$FeSO_4$, gravity fed 150 gal, pathfinder 150 gal
INW-04	~~1500~~ ~~1700~~	~~1840~~ 1240	325	1.5	3.2	$FeSO_4$, pathfinder, batch 2
INW-04	1730	1912	325	1.5	3.0	
7/11/24						
INW-04	1045	1248	325	3.6	3.9	$FeSO_4$ gravity feed, switch to pathfinder after 150 gal
INW-04	1315	1451	325	0.4	3.5	$FeSO_4$, pathfinder
INW-04	1600	1734	304	0.7	3.45	$FeSO_4$, pathfinder
7/12/24						
INW-04	920	1000	141	3.5	3.5	
INW-05	920	1000	153	3.5	3.8	
INW-04	1015	1059	151	2.7	3.4	
INW-05	1015	1059	142	2.7	3.2	
INW-04	1145	1236	148	1.5	2.9	
INW-05	1145	1236	157	1.5	3.1	
INW-04	1245	1337	156	2.5	4.1	
INW-05	1245	1333	1484	2.5	3.8	
INW-04	1415	1503	151	1.7	3.1	
INW-05	1415	1513	153	1.7	3.2	
INW-04	1515	1602	151	1.8	3.1	
INW-05	1515	1602	151	1.8	3.2	

Injection Log

Project Name: Hammond
Project Number:
Field Personnel: Ali A. Zaic W

Date: 7/23/24 Page 1 of 1
Weather: Sunny / rain during day
Activity: Injection

Location: HGWC-13 area | Start: Date 7/23/24 Time 1100 | Finish: Date ____ Time ____

Well ID	Start Time (hr:mm)	Stop Time (hr:mm)	Volume Injected (gal)	Injection Pressure (psi)	Flowrate (GPM)	Notes
INW04	1030	1113	150	~~0.3-4.4~~	3.5-3.8	
INW05	1030	1113	147	0.4-1.2	3.1-3.6	
INW04	1130	1214	145	0-2.2	3.0-3.3	
INW05	1130	1214	151	0-2.5	2.8-3.3	
INW04	1300	1347	152	3-3.3	3.2-3.4	
INW05	1300	1347	154	-1.3-0.3	3.0-3.5	
INW04	1400	1444	151	1.7-2.8	2.9-3.4	
INW05	1400	1444	155	0.3-2.5	3.0-3.6	
INW04	1530	1622	152	5.8-6.5	2.9-3.2	
INW05	1530	1622	148	-2.8- -0.7	2.6-3.2	

Injection Log

Project Name: Hammond
Project Number:
Field Personnel: Ali A Zain W

Date: 7/24/24
Weather: cloudy
Activity: injection

Location: HGWC-13 area
Start: Date 7/24/24 Time
Finish: Date 7/24/24 Time

Well ID	Start Time (hr:mm)	Stop Time (hr:mm)	Volume Injected (gal)	Injection Pressure (psi)	Flowrate (GPM)	Notes
INW04	1045	1131	149	1.5-2.0	3.0-3.3	
INW05	1045	1131	148	3.5-4.1	2.9-3.3	
INW04	1145	1229	150	2.5-2.9	3.4-3.6	
INW05	1145	1229	151	0.7-1.9	3.4-3.7	
INW04	1305	1349	151	2.9-3.8	2.9-3.6	
INW05	1305	1349	151	0.4-3.2	3.0-3.8	
INW04	1400	1449	152	1.6-2.9	3.1-3.4	
INW05	1400	1449	152	2.8-3.8	3.0-3.4	
INW04	1530	1619	151	3.3-5.5	2.8-3.6	
INW05	1530	1619	150	4.1-5.7	2.8-3.2	
INW04	1630	1717	149	-0.7-1.9	3.0-3.3	
INW05	1630	1717	151	3.5-4.6	3.2-3.4	

Injection Log

Project Name: Hammond
Project Number:
Field Personnel: ~~Ali Rizan w/ KHG~~

Date: 07/26/24
Weather: Clear
Activity: Air Sparge

Page 1 of 1

Location: HGWC-3 area
Start: Date 7/26 Time 1600
Finish: Date ____ Time ____

Well ID	Start Time (hr:mm)	Stop Time (hr:mm)	Volume Injected (~~gal~~)	Injection Pressure (psi)	Flowrate (~~GPM~~) SCFM	Notes
9803	1600	1830	—	<10	<1	

Injection Log

Project Name: Hammond
Project Number:
Field Personnel: Avi A Zain W.

Date: ~~5/29~~/24
Weather:
Activity: Air Sparge

Page 1 of 1

Location: HGWC-13 area
Start: Date 5/28 Time
Finish: Date
Time

Well ID	Start Time (hr:mm)	Stop Time (hr:mm)	Volume Injected (gal)	Injection Pressure (psi)	Flowrate ~~(GPM)~~ SCFM	Notes
AS03	1140	1440	-	<10	<1	
AS04	1510	1610	-	<10	1.2	

Injection Log

Project Name: Hammond
Project Number:
Field Personnel: Ali A / Erin W

Date: 7/28/24
Weather:
Activity: Air Sparge

Page 1 of 1

Location: HGWC-13 area
Start: Date 7/28/24 Time
Finish: Date
Time

Well ID	Start Time (hr:mm)	Stop Time (hr:mm)	Volume Injected (gal)	Injection Pressure (psi)	Flowrate (~~GPM~~) SCFH	Notes
AS03	1020	1320	-	~~A~~ 9	1.7	

Injection Log

Project Name: Hammond
Project Number:
Field Personnel: Ali A / Zain W

Date: 7/29/24
Weather:
Activity: Injection

Page ___ of ___

Location: HGWC13 area

Start: Date 7/29/24 Time

Finish: Date
Time

Well ID	Start Time (hr:mm)	Stop Time (hr:mm)	Volume Injected (gal)	Injection Pressure (psi)	Flowrate (GPM)	Notes
INW04	1100	1143	152	-2.2 - 3.5	3.3-3.6	
INW05	1100	1143	152	0.6 - 1.9	3.4-3.6	
INW04	1300	1342	151	-1.2 - 3.0	3.5	
INW05	1300	1342	151	0.9 - 1.9	3.4-3.6	
INW04	1540	1636	100	0.3 - 2.9	3.5	
INW05	1540	1636	198	0.4 - 1.5	3.2-3.5	

Injection Log

Project Name: Hammond
Project Number:
Field Personnel: Ali A / Zain W

Date: 7/30/24
Weather:
Activity: Sparge

Page 1 of 1

Location: HGWC-13 pilot area
Start: Date 7/30/24 Time
Finish: Date
Time

Well ID	Start Time (hr:mm)	Stop Time (hr:mm)	Volume Injected (gal)	Injection Pressure (psi)	Flowrate ~~(GPM)~~ SCFM	Notes
AS03	1230	1530		~8	1.8	

Injection Log

Project Name: Hammond
Project Number:
Field Personnel: Ali A, Zain W

Date: 7/31/24
Weather: Injection
Activity: Slurry

Page ___ of ___

Location: HGWC-13 pilot area
Start: Date_____ Time_____
Finish: Date_____ Time_____

Well ID	Start Time (hr:mm)	Stop Time (hr:mm)	Volume Injected (gal)	Injection Pressure (psi)	Flowrate (GPM)	Notes
INJ04	1100	1437	307	~0.9 - 0.0	~1.5	Potable water

Injectate Batch Preparation Log

Project Name: Plant Hammond — Page 1 of
Project Number: SWL5815 — Field Personnel: A. [illegible], J. Newsome
Date: 7/9/24 — Weather: Sunny, 90°F

Batch #	Tank Fill			Injectate		Geochemical Parameters						Comments
	Start Time (hr:mm)	End Time (hr:mm)	Volume (gallons)	Time (hr:mm)	Amount (lb)	Time (hr:mm)	Temp (°C)	pH (SU)	Sp. Cond (mS/cm²)	DO (mg/L)	ORP (mV)	
Tank 1	1155		250				28.68	7.6	0.23	7.55	651.4	Potable water
Tank 2	1155		250				27.61	7.7	0.23	7.68	667.6	↓
							~~28.40~~	7.47	0.24	7.87	495	7/10/24
INW-04_1			300	900	1.25	903	~~29.29~~	~~6.03~~	~~0.89~~	~~3.08~~	~~9.2~~	7/9/24
~~INW-04_2~~						917	29.29	6.03	0.89	3.08	9.2	1559 top of tank
						959	27.39	5.35	0.71	1.95	59.7	middle of tank
						1042	27.67	5.63	0.44	2.25	44.6	50 gall injected
						1126	27.67	6.90	0.25	6.54	77.7	100 gall injected
						1215	28.5	6.66	0.85	5.64	62.4	150 gall injected
↓			~~325~~			1230	27.67	6.90	0.25	6.54	77.7	200 gall
INW-04_2	1254		~~325~~ 300	1700		1500	27.61	5.94	0.45	4.75	27	250 gallons
			7/10/24			1523	27.85	5.78	0.44	4.42	15.9	0 gallons
						1536	28.08	5.76	0.43	5.05	30.0	50 gallons
						1552	28.30	5.44	0.42	6.23	28.0	110 gal
						1607	28.41	5.98	0.41	7.47	52.4	170 gal
						1821	29.20	5.37	0.41	7.63	88.0	220 gal
		1719				1840	—	—	—	—	—	270 gal
INW-04_3	1455	~~1725~~	300	1725	1.25	1729	27.89	7.89	0.24	9.93	68.2	325
		7/10/24		~~1730~~		1730	27.93	6.08	0.49	5.18	46.9	in tank, not injecting
				7/10/24		1745	28.24	5.84	0.47	3.65	33.2	begin injecting
						1819	28.33	5.66	0.45	4.34	39.7	50 gal
						1845	19.2	5.40	0.09	7.50	91.7	146 gal
						1900	26.92	5.19	0.43	7.84	193.3	242 gal
												286 gal

40
70
70

Injectate Batch Preparation Log

Project Name: Plant Hammond Page 2 of ___
Project Number: GW6581G Field Personnel: A. McKeon, D. Newsome
Date: 7/9/24 Weather: ___

Batch #	Tank Fill			Injectate		Geochemical Parameters						Comments
	Start Time (hr:mm)	End Time (hr:mm)	Volume (gallons)	Time (hr:mm)	Amount (lb)	Time (hr:mm)	Temp (°C)	pH (SU)	Sp. Cond (mS/cm)	DO (mg/L)	ORP (mV)	
7/12/24 INW-04.04						1115	25.82	5.87	0.43	3.54	207.9	
						1130	26.01	5.78	0.42	3.40	217.8	switch to path finder
						1145	26.32	5.76	0.41	3.77	217.0	
						1200	26.57	5.73	0.41	4.60	232.0	48 psi ~ 3 gpm
						1215	26.85	5.70	0.40	4.01	277.0	
INW-04.05				1310	125	1310	25.44	7.82	0.199	—	43.6	mix
						1315	26.47	6.09	0.403	4.84	69.5	path finder
						1330	26.63	5.97	0.403	3.98	58.7	
						1345	26.84	5.89	0.401	3.36	57.4	
						1400	27.15	5.72	0.423	2.84	64.6	
						1415	27.45	5.64	0.423	2.72	76.3	
						1445	28.20	5.56	0.418	5.00	114.5	
INW-04.06				1552	125	1552	29.35	~~8.09~~	180.437	~~7.80~~ 4.99	~~437.4~~	
						1600	26.03	4.12	0.410	5.52	~~410.9~~	
						1630	26.53	5.85	0.438	3.32	114	
						1645	26.78	5.75	0.439	2.99	203	
						1725	27.89	5.5	0.437	4.17	141.6	

Injectate Batch Preparation Log

Project Name: Hammond
Project Number:
Field Personnel: AR JM
Date: 07.14.2024
Weather: Sunny

Batch #	Tank Fill			Injectate		Geochemical Parameters						Comments
	Start Time (hr:mm)	End Time (hr:mm)	Volume (gallons)	Time (hr:mm)	Amount (lb)	Time (hr:mm)	Temp (°C)	pH (SU)	Sp. Cond (µs/cm²)	DO (mg/L)	ORP (mV)	
#1	920	1000	~~304~~ 294	920	1.25	915	26.66	7.96	0.2	7.82	335.9	Potable water
						920	26.74	6.02	0.47	5.15	-37.8	Start of Injection
						935	26.89	5.89	0.45	3.31	-16.7	
						950	27.14	5.75	0.44	4.71	8.5	191 INW04/ 1531NW05
						1010	25.55	7.52	0.20	7.87	239.5	Potable water
#2						1015	25.87	6.06	0.16	5.07	-32.4	start of injection
	1015	1059	297	1015	1.25	1030	26.03	5.92	0.46	3.59	-17.4	
						1045	26.26	5.80	0.44	3.17	-7.5	
						1100	26.73	5.60	0.44	4.71	8.5	161 INW04/ 1921 NW05
						1140	26.64	7.82	0.20	7.82	291.8	Potable water
#3						1145	26.69	6.06	0.43	5.2	-37.7	start of injection
	1145	1236	305	1145	1.25	1200	26.85	5.94	0.43	3.68	-23.4	
						1215	27.70	5.73	0.44	2.9	-2.5	
						1230	27.36	5.71	0.44	2.61	-3.7	
												148 INW04/ 157 INW05
		1236				1240	25.66	0.20	7.86 → 7.54 (pH)		19.7	potable water
#4						1245	26.20	6.05	0.45	5.31	-37.0	start of injection
#4	1245			1245	1.25	1300	26.46	5.91	0.45	3.56	-20.2	
						1315	26.75	5.80	0.45	3.09	-10.2	
						1325	26.99	5.71	0.44	2.73	-0.6	
												156 INW04 / 144 INW05
		1336				1415	26.79	6.04	0.43	5.09	39.8	start of injection
#5	1415		302	1415	1.25	1430	27.01	5.87	0.44	3.30	-19.1	
						1445	27.27	5.82	0.44	3.04	-12.5	
												151 INW04/ 151 INW05
		1503										
#6	1515					1510	25.80	07.44	0.20	8.18	180.40	potable water

Injectate Batch Preparation Log

Project Name: Hammond
Project Number:
Date: 7/14/2024
Field Personnel: AB JN
Weather: Sunny

Batch #	Tank Fill			Injectate		Geochemical Parameters						Comments
	Start Time (hr:mm)	End Time (hr:mm)	Volume (gallons)	Time (hr:mm)	Amount (lb)	Time (hr:mm)	Temp (°C)	pH (SU)	Sp. Cond (µs/cm³)	DO (mg/L)	ORP (mV)	
#6	1515	1604	302			1515	26.33	6.01	0.45	5.27	-34.4	Start of injection
						1530	26.44	5.87	0.44	3.58	-16.9	
						1545	26.56	5.81	0.44	3.41	-11.6	
		1604										149 INW04 153 INW05

Injectate Batch Preparation Log

Project Name: Hammond Page 1 of 2
Project Number: _____ Field Personnel: Ali A / Zain W
Date: 7/22/2024 Weather: clear

Batch #	Tank Fill			Injectate		Geochemical Parameters						Comments
	Start Time (hr:mm)	End Time (hr:mm)	Volume (gallons)	Time (hr:mm)	Amount (lb)	Time (hr:mm)	Temp (°C)	pH (SU)	Sp. Cond (µs/cm³)	DO (mg/L)	ORP (mV)	
#1						1028						
↓	1030	1113	297		2.5	1035	29.67	8.02	226.90	6.96	153.7	Potable water
						1038	29.78	5.73	739.60	3.71	-2.3	Start of injection
						1045	29.86	5.39	733.46	2.36	40.2	
						1100	29.97	5.23	730.06	2.19	59.5	
		111				1110	30.05	5.13	675.02	2.13	75.4	
#2	1130	1214	296		2.5	1125	30.19	8.28	218.06	7.13	54.7	Potable water
↓						1130	30.23	5.68	725.98	3.49	4.0	Start of injection
						1145	30.33	5.37	720.95	2.22	37.7	20
						1200	30.47	5.22	716.19	2.27	56.1	
						1210	30.61	5.11	708.22	2.17	69.2	
#3	1300	1347	306		2.5	1255	25.78	7.91	196.22	7.77	147.3	Potable water
↓						1300	25.89	5.80	698.97	4.72	-0.5	Start of injection
						1315	26.08	5.64	693.69	2.88	18.3	
						1330	26.32	5.51	672.27	2.49	32.4	
						1345	26.65	5.41	665.84	2.37	41.7	
#4	1400	1444	306		2.5	1355	25.41	7.88	189.7	7.98	78.7	Potable water
↓						1400	25.50	5.77	690.56	4.78	1.5	Start of injection
						1415	25.76	5.60	665.23	3.13	19.1	
						1430	26.05	5.49	657.61	2.98	30.4	
						1440	26.23	5.40	653.13	2.87	43.5	
#5	1530	1622	300		2.5	1525	26.08	7.56	167.81	7.87	150.2	Potable water
↓						1530	26.11	5.78	653.93	5.12	2.4	Start of injection
						1538	26.16	5.64	652.04	3.13	17.8	
						1555	26.26	5.50	666.75	2.50	26.8	
						1600	26.36	5.49	664.77	2.62	28.6	

Injectate Batch Preparation Log

Project Name: Hammond
Project Number: _____
Date: 7/23/24
Field Personnel: _____
Weather: clear / rain throughout the day

Batch #	Tank Fill			Injectate		Geochemical Parameters						Comments
	Start Time (hr:mm)	End Time (hr:mm)	Volume (gallons)	Time (hr:mm)	Amount (lb)	Time (hr:mm)	Temp (°C)	pH (SU)	Sp. Cond (µs/cm²)	DO (mg/L)	ORP (mV)	
#5						1610	26.42	5.39	65707	2.28	39.8	
↓						1615	26.63	5.43	660.37	4.71	36.1	

Injectate Batch Preparation Log

Project Name: Hammond
Project Number: _____
Date: 7/24/24
Page ___ of ___
Field Personnel: Ali A Jason W
Weather: Cloudy

Batch #	Tank Fill			Injectate		Geochemical Parameters						Comments
	Start Time (hr:mm)	End Time (hr:mm)	Volume (gallons)	Time (hr:mm)	Amount (lb)	Time (hr:mm)	Temp (°C)	pH (SU)	Sp. Cond (µs/cm)	DO (mg/L)	ORP (mV)	
#1	1045	1131	297		2.5	1040	25.56	7.54	191.36	7.74	76.8	Potable water
						1045	25.59	5.80	1167.3	4.75	2.6	start of inj
						1100	25.68	5.62	688.62	3.02	29.4	
						1115	25.79	5.47	683.16	2.61	46.1	
#2	1145	1229	301		2.5	1140	24.83	7.79	183.52	7.84	59.6	Potable water
						1145	24.93	5.76	666.18	4.07	15.3	start of inj
						1200	25.05	5.66	681.63	3.31	21.9	
						1215	25.23	5.59	670.19	2.92	33.8	
						1230	25.41	5.43	664.79	2.70	42.5	
#3	1305	1349	302		2.5	1300	25.64	7.58	188.17	7.75	115.2	Potable water
						1305	25.57	5.77	671.97	4.97	3.8	start of inj
						1320	25.67	5.62	680.35	3.00	17.9	
						1335	25.81	5.51	673.26	2.77	30.2	
						1350	2596	5.42	670.30	2.61	37.9	End of batch
#4	1400	1449	304		2.5	1355	24.84	7.61	188.16	7.79	29.7	Potable Water
						1400	24.90	5.76	702.07	4.86	3.0	start of inj
						1415	25.09	5.59	675.74	3.09	28.9	
						1430	2532	5.50	668.79	2.82	29.9	
						1445	25.55	5.44	653.00	4.30	36.1	
#5	1530	1619	301		2.5	1525	~~2.618~~	7.41	187.05	7.64	139.0	Potable water
						1530	25.52	5.71	683.24	4.70	2.2	start of injection
						1545	25.59	5.61	680.56	3.22	13.2	
						1600	25.78	5.49	669.26	2.77	27.8	
						1615	2600	5.41	662.64	3.89	40.4	
#6	1630	1717	300		2.5	1625	24.96	7.62	184.22	7.99	53.8	Potable water
						1630	25.03	5.73	656.93	5.11	1.6	start of inj

Injectate Batch Preparation Log

Project Name: Plant Hammond
Project Number: _____
Date: 7/24/24

Field Personnel: Ali A, Zain W
Weather: Cloudy

Batch #	Tank Fill			Injectate		Geochemical Parameters						Comments
	Start Time (hr:mm)	End Time (hr:mm)	Volume (gallons)	Time (hr:mm)	Amount (lb)	Time (hr:mm)	Temp (°C)	pH (SU)	Sp. Cond (µs/cm²)	DO (mg/L)	ORP (mV)	
						1640	25.06	5.61	668.78	3.56	17.2	
						1700	25.28	5.50	678.88	2.94	26.7	
						1710	25.41	5.41	674.17	2.73	37.0	

Injectate Batch Preparation Log

Project Name: Hammond
Project Number: _____
Date: 7/29/24
Field Personnel: Ali Ai
Weather: Sunny
Page ___ of ___

Batch #	Tank Fill			Injectate		Geochemical Parameters						Comments
	Start Time (hr:mm)	End Time (hr:mm)	Volume (gallons)	Time (hr:mm)	Amount (lb)	Time (hr:mm)	Temp (°C)	pH (SU)	Sp. Cond (µs/cm²)	DO (mg/L)	ORP (mV)	
#1	1100	1143	304		2.5	1055	25.34	7.84	187.22	7.65	79.4	Potable water
						1100	25.41	5.80	1015.4	5.70	0.1	Start of injection
						1115	25.54	5.67	682.13	3.24	14.9	
						1144	26.07	5.67	—	3.48	61.8	
#2	1300	1342	302		2.5	1255	25.82	7.90	187.10	7.70	198.3	potable water
						1300	25.90	5.81	683.35	4.87	1.3	start of injection
						1315	26.07	5.60	682.53	2.94	18.8	
						1330	26.19	5.51	675.99	3.27	30.0	
						1341	26.24	5.43	668.30	3.40	38.2	
#3	1540	1636	298		2.5	1530	26.16	7.95	187.06	7.68	199.2	Potable water
						1540	26.41	5.82	672.86	5.35	-5.1	Start of injection
						1610	26.87	5.45	688.30	2.66	31.9	
						1620	26.93	5.37	685.07	2.58	41.2	
						1630	27.20	5.31	688.53	4.21	51.9	
						1636	27.30	5.24	687.12	4.29	55.8	

Injectate Batch Preparation Log

Project Name: Hammond
Project Number:
Date: 7/31/24
Page ___ of ___
Field Personnel: ALC A / Bari W
Weather: Sunny

Batch #	Tank Fill			Injectate		Geochemical Parameters						Comments
	Start Time (hr:mm)	End Time (hr:mm)	Volume (gallons)	Time (hr:mm)	Amount (lb)	Time (hr:mm)	Temp (°C)	pH (SU)	Sp. Cond (µS/cm³)	DO (mg/L)	ORP (mV)	
AF	1100	1437			—	1100	28.4	7.90	188.99	7.35	138.8	potable water
		"				1115	28.59	7.86	188.41	7.36	178.2	↓
						1130	28.61	7.86	188.9	7.37	188.37	
						1145	28.66	7.89	188.40	7.39	193.9	
						1200	2903	7.92	195.40	7.39	195.4	
						1250	29.36	7.92	201.2	7.92	201.0	
						1400	20.52	7.89	~~208.89~~	7.37	205.0	Sp. Cond. 190.39

APPENDIX D

Screening-Level Groundwater Analytical Data

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Kip Gray
Geosyntec Consultants Inc
1255 Roberts Blvd. NW
Suite 200
Kennesaw, Georgia 30144

Generated 7/15/2024 7:01:03 PM

JOB DESCRIPTION

Plant Hammond

JOB NUMBER

705-1392-1

Eurofins Atlanta
3080 Presidential Dr
Atlanta GA 30340

See page two for job notes and contact information.

my EOL

Eurofins Atlanta

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization

Generated
7/15/2024 7:01:03 PM

Authorized for release by
David Fuller, Project Manager
David.Fuller@et.eurofinsus.com
(770)344-8986

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Client: Geosyntec Consultants Inc
Job ID: 705-1392-1
Project/Site: Plant Hammond

Qualifiers

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Eurofins Atlanta
3080 Presidential Dr
Atlanta, GA 30340
Phone (770) 457-8177

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Jamie Newsome	Lab PM: David Fuller / Phone 770-344-8986	Carrier Tracking No(s):	COC No:
Client Contact: Kip Gray	Phone: 470-496-3392	E-Mail: David.Fuller@et.eurofinsus.com	State of Origin: GA	Page: Page 1 of 1
Company: Geosyntec Consultants Inc	PWSID:	Analysis Requested		Job #:
Address: 1255 Roberts Blvd, NW Suite 200	Due Date Requested			Preservation Codes: D - HNO3
City: Kennesaw	TAT Requested (days): RUSH / 1 Day TAT			
State, Zip: GA, 30144	Compliance Project: Δ Yes Δ No			
Phone:	Lab Project #: 70500911 (DO NOT REMOVE)			
Email: Kip.Gray@Geosyntec.com	PO #:			
Project Name: Plant Hammond	Project #:			Other:
Task Code: Task Code#:	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010D - Total Boron	6020B - Total Arsenic and Iron	6020B - Total Iron and Molybdenum		6010D - Dissolved Boron - Field Filtered (FF)	6020B - Dissolved Arsenic and Iron (FF)	6020B - Dissolved Iron and Molybdenum (FF)	Total Number of Containers	Special Instructions/Note:
			Preservation Code:				D	D	D		D	D	D		
PT-07-0710-FIL	7/10/24	1940	G	W	X						X	X	X		
PT-07-0710-UNF	7/10/24	1940	G	W			X	X	X						
PT-08-0710-FIL	7/10/24	2100	G	W	X						X	X	X		
PT-08-0710-UNF	7/10/24	2100	G	W			X	X	X						
PT-13-0710-FIL	7/10/24	2012	G	W							X	X	X		
PT-13-0710-UNF	7/10/24	2012	G	W			X	X	X						

'05 1392 COC

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I, II, III, IV, Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment: Courier

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Jamie Newsome	7/10/24 700	Geosyntec		7-11-24 7:00	
2		7-11-24 9:05		Anna Neal	7-11-24 905	eurofins
3		Date/Time:		Received by	Date/Time:	

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks: #2665 5.0°C

Job Narrative
705-1392-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Receipt
The samples were received on 7/11/2024 9:05 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.0°C.

Receipt Exceptions
Per client, Arsenic & Iron are the only 6020B metals to be reported with these samples.

Limited sample volume was received for the following samples: PT-07-0710-FIL (705-1392-1), PT-08-0710-FIL (705-1392-3) and PT-13-0710-FIL (705-1392-5).

Metals
Method 6020B - Total Recoverable: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 705-3002 and analytical batch 705-3132 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-1392-1

Client Sample ID: PT-07-0710-FIL

Date Collected: 07/10/24 19:40
Date Received: 07/11/24 09:05

Lab Sample ID: 705-1392-1

Matrix: Water

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron, Dissolved	0.49		0.040	0.026	mg/L			07/11/24 17:24	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic, Dissolved	0.23		0.0050	0.0013	mg/L			07/12/24 11:39	1
Iron, Dissolved	14		0.040	0.018	mg/L			07/12/24 11:39	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-1392-1

Client Sample ID: PT-07-0710-UNF

Lab Sample ID: 705-1392-2

Date Collected: 07/10/24 19:40

Matrix: Water

Date Received: 07/11/24 09:05

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.54		0.040	0.026	mg/L		07/11/24 12:55	07/11/24 20:13	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.32		0.0050	0.0013	mg/L		07/11/24 13:12	07/11/24 19:44	1
Iron	41		0.20	0.089	mg/L		07/11/24 13:12	07/12/24 15:36	5

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-1392-1

Client Sample ID: PT-08-0710-FIL

Lab Sample ID: 705-1392-3

Date Collected: 07/10/24 21:00

Matrix: Water

Date Received: 07/11/24 09:05

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron, Dissolved	0.69		0.040	0.026	mg/L			07/11/24 17:27	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic, Dissolved	0.26		0.0050	0.0013	mg/L			07/12/24 11:41	1
Iron, Dissolved	9.1		0.040	0.018	mg/L			07/12/24 11:41	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-1392-1

Client Sample ID: PT-08-0710-UNF

Lab Sample ID: 705-1392-4

Date Collected: 07/10/24 21:00

Matrix: Water

Date Received: 07/11/24 09:05

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.74		0.040	0.026	mg/L		07/11/24 12:55	07/11/24 20:17	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.33	F1	0.0050	0.0013	mg/L		07/11/24 13:12	07/11/24 19:25	1
Iron	22		0.20	0.089	mg/L		07/11/24 13:12	07/12/24 15:24	5

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-1392-1

Client Sample ID: PT-13-0710-FIL
Date Collected: 07/10/24 20:12
Date Received: 07/11/24 09:05

Lab Sample ID: 705-1392-5
Matrix: Water

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron, Dissolved	0.56		0.040	0.026	mg/L			07/11/24 17:30	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic, Dissolved	0.23		0.0050	0.0013	mg/L			07/12/24 11:44	1
Iron, Dissolved	11		0.040	0.018	mg/L			07/12/24 11:44	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-1392-1

Client Sample ID: PT-13-0710-UNF

Lab Sample ID: 705-1392-6

Date Collected: 07/10/24 20:12

Matrix: Water

Date Received: 07/11/24 09:05

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.56		0.040	0.026	mg/L		07/11/24 12:55	07/11/24 20:20	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.29		0.0050	0.0013	mg/L		07/11/24 13:12	07/11/24 19:48	1
Iron	80		20	8.9	mg/L		07/11/24 13:12	07/12/24 11:26	500

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 705-2944/1-A
Matrix: Water
Analysis Batch: 3123

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2944

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	ND		0.040	0.026	mg/L		07/11/24 09:22	07/11/24 19:27	1

Lab Sample ID: LCS 705-2944/2-A
Matrix: Water
Analysis Batch: 3123

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 2944

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1.00	1.03		mg/L		103	80 - 120

Lab Sample ID: 705-1262-F-3-B MS
Matrix: Water
Analysis Batch: 3123

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 2944

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	ND		1.00	1.05		mg/L		105	75 - 125

Lab Sample ID: 705-1262-F-3-C MSD
Matrix: Water
Analysis Batch: 3123

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 2944

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron	ND		1.00	1.06		mg/L		106	75 - 125	1	20

Lab Sample ID: MB 705-3013/1-A
Matrix: Water
Analysis Batch: 3163

Client Sample ID: Method Blank
Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron, Dissolved	ND		0.040	0.026	mg/L			07/11/24 17:10	1

Lab Sample ID: LCS 705-3013/2-A
Matrix: Water
Analysis Batch: 3163

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron, Dissolved	1.00	0.979		mg/L		98	80 - 120

Lab Sample ID: LCSD 705-3013/6-A
Matrix: Water
Analysis Batch: 3163

Client Sample ID: Lab Control Sample Dup
Prep Type: Dissolved

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron, Dissolved	1.00	0.973		mg/L		97	80 - 120	1	20

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 705-3002/1-A
Matrix: Water
Analysis Batch: 3132

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 3002

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0050	0.0013	mg/L		07/11/24 13:12	07/11/24 19:17	1
Iron	ND		0.040	0.018	mg/L		07/11/24 13:12	07/11/24 19:17	1

Lab Sample ID: LCS 705-3002/2-A
Matrix: Water
Analysis Batch: 3132

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 3002

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.100	0.0932		mg/L		93	80 - 120
Iron	1.00	1.02		mg/L		102	80 - 120

Lab Sample ID: 705-1392-4 MS
Matrix: Water
Analysis Batch: 3132

Client Sample ID: PT-08-0710-UNF
Prep Type: Total Recoverable
Prep Batch: 3002

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.33	F1	0.100	0.405		mg/L		71	75 - 125

Lab Sample ID: 705-1392-4 MS
Matrix: Water
Analysis Batch: 3279

Client Sample ID: PT-08-0710-UNF
Prep Type: Total Recoverable
Prep Batch: 3002

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	22		1.00	22.8	4	mg/L		66	75 - 125

Lab Sample ID: 705-1392-4 MSD
Matrix: Water
Analysis Batch: 3132

Client Sample ID: PT-08-0710-UNF
Prep Type: Total Recoverable
Prep Batch: 3002

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	0.33	F1	0.100	0.419		mg/L		85	75 - 125	3	20

Lab Sample ID: 705-1392-4 MSD
Matrix: Water
Analysis Batch: 3279

Client Sample ID: PT-08-0710-UNF
Prep Type: Total Recoverable
Prep Batch: 3002

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Iron	22		1.00	24.5	4	mg/L		236	75 - 125	7	20

Lab Sample ID: MB 705-3021/1-A
Matrix: Water
Analysis Batch: 3175

Client Sample ID: Method Blank
Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic, Dissolved	ND		0.0050	0.0013	mg/L			07/12/24 11:31	1
Iron, Dissolved	ND		0.040	0.018	mg/L			07/12/24 11:31	1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 705-3021/2-A
Matrix: Water
Analysis Batch: 3175

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic, Dissolved	0.100	0.0933		mg/L		93	80 - 120
Iron, Dissolved	1.00	0.868		mg/L		87	80 - 120

Lab Sample ID: LCSD 705-3021/3-A
Matrix: Water
Analysis Batch: 3175

Client Sample ID: Lab Control Sample Dup
Prep Type: Dissolved

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic, Dissolved	0.100	0.0894		mg/L		89	80 - 120	4	20
Iron, Dissolved	1.00	0.829		mg/L		83	80 - 120	5	20

Lab Chronicle

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-1392-1

Client Sample ID: PT-07-0710-FIL

Lab Sample ID: 705-1392-1

Date Collected: 07/10/24 19:40

Matrix: Water

Date Received: 07/11/24 09:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Analysis	6010D		1	3163	DAB	EET ATL	07/11/24 17:24
Dissolved	Analysis	6020B		1	3175	AD	EET ATL	07/12/24 11:39

Client Sample ID: PT-07-0710-UNF

Lab Sample ID: 705-1392-2

Date Collected: 07/10/24 19:40

Matrix: Water

Date Received: 07/11/24 09:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3010A			2944	SA	EET ATL	07/11/24 12:55
Total/NA	Analysis	6010D		1	3123	DS	EET ATL	07/11/24 20:13
Total Recoverable	Prep	3005A			3002	BL	EET ATL	07/11/24 13:12
Total Recoverable	Analysis	6020B		5	3279	AD	EET ATL	07/12/24 15:36
Total Recoverable	Prep	3005A			3002	BL	EET ATL	07/11/24 13:12
Total Recoverable	Analysis	6020B		1	3132	IF	EET ATL	07/11/24 19:44

Client Sample ID: PT-08-0710-FIL

Lab Sample ID: 705-1392-3

Date Collected: 07/10/24 21:00

Matrix: Water

Date Received: 07/11/24 09:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Analysis	6010D		1	3163	DAB	EET ATL	07/11/24 17:27
Dissolved	Analysis	6020B		1	3175	AD	EET ATL	07/12/24 11:41

Client Sample ID: PT-08-0710-UNF

Lab Sample ID: 705-1392-4

Date Collected: 07/10/24 21:00

Matrix: Water

Date Received: 07/11/24 09:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3010A			2944	SA	EET ATL	07/11/24 12:55
Total/NA	Analysis	6010D		1	3123	DS	EET ATL	07/11/24 20:17
Total Recoverable	Prep	3005A			3002	BL	EET ATL	07/11/24 13:12
Total Recoverable	Analysis	6020B		5	3279	AD	EET ATL	07/12/24 15:24
Total Recoverable	Prep	3005A			3002	BL	EET ATL	07/11/24 13:12
Total Recoverable	Analysis	6020B		1	3132	IF	EET ATL	07/11/24 19:25

Client Sample ID: PT-13-0710-FIL

Lab Sample ID: 705-1392-5

Date Collected: 07/10/24 20:12

Matrix: Water

Date Received: 07/11/24 09:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Analysis	6010D		1	3163	DAB	EET ATL	07/11/24 17:30
Dissolved	Analysis	6020B		1	3175	AD	EET ATL	07/12/24 11:44

Lab Chronicle

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-1392-1

Client Sample ID: PT-13-0710-UNF

Date Collected: 07/10/24 20:12
Date Received: 07/11/24 09:05

Lab Sample ID: 705-1392-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3010A			2944	SA	EET ATL	07/11/24 12:55
Total/NA	Analysis	6010D		1	3123	DS	EET ATL	07/11/24 20:20
Total Recoverable	Prep	3005A			3002	BL	EET ATL	07/11/24 13:12
Total Recoverable	Analysis	6020B		500	3175	AD	EET ATL	07/12/24 11:26
Total Recoverable	Prep	3005A			3002	BL	EET ATL	07/11/24 13:12
Total Recoverable	Analysis	6020B		1	3132	IF	EET ATL	07/11/24 19:48

Laboratory References:

EET ATL = Eurofins Atlanta, 3080 Presidential Dr, Atlanta, GA 30340, TEL (770)457-8177

Accreditation/Certification Summary

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-1392-1

Laboratory: Eurofins Atlanta

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E87582	06-30-25

Method Summary

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-1392-1

Method	Method Description	Protocol	Laboratory
6010D	Metals (ICP)	SW846	EET ATL
6020B	Metals (ICP/MS)	SW846	EET ATL
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET ATL
3010A	Preparation, Total Metals	SW846	EET ATL

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET ATL = Eurofins Atlanta, 3080 Presidential Dr, Atlanta, GA 30340, TEL (770)457-8177

Sample Summary

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-1392-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
705-1392-1	PT-07-0710-FIL	Water	07/10/24 19:40	07/11/24 09:05
705-1392-2	PT-07-0710-UNF	Water	07/10/24 19:40	07/11/24 09:05
705-1392-3	PT-08-0710-FIL	Water	07/10/24 21:00	07/11/24 09:05
705-1392-4	PT-08-0710-UNF	Water	07/10/24 21:00	07/11/24 09:05
705-1392-5	PT-13-0710-FIL	Water	07/10/24 20:12	07/11/24 09:05
705-1392-6	PT-13-0710-UNF	Water	07/10/24 20:12	07/11/24 09:05

Login Sample Receipt Checklist

Client: Geosyntec Consultants Inc

Job Number: 705-1392-1

Login Number: 1392

List Source: Eurofins Atlanta

List Number: 1

Creator: Pomuti, Carmen

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	False	Limited volume received.
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

END OF REPORT

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ANALYTICAL REPORT

PREPARED FOR

Attn: Kip Gray
Geosyntec Consultants Inc
1255 Roberts Blvd. NW
Suite 200
Kennesaw, Georgia 30144

Generated 7/12/2024 6:18:03 PM

JOB DESCRIPTION

Plant Hammond

JOB NUMBER

705-1526-1

Eurofins Atlanta
3080 Presidential Dr
Atlanta GA 30340

See page two for job notes and contact information.

my EOL

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization

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7/12/2024 6:18:03 PM

Authorized for release by
David Fuller, Project Manager
David.Fuller@et.eurofinsus.com
(770)344-8986

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Definitions/Glossary

Client: Geosyntec Consultants Inc
Job ID: 705-1526-1
Project/Site: Plant Hammond

Qualifiers

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Eurofins Atlanta
3080 Presidential Dr
Atlanta, GA 30340
Phone (770) 457-8177

Chain of Custody Record

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Client Information	Sampler: Jamie Newsome	Lab PM: David Fuller / Phone 770-344-8986	Carrier Tracking No(s):	COC No.
Client Contact: Kip Gray	Phone:	E-Mail: David.Fuller@et.eurofinsus.com	State of Origin: GA	Page: Page 1 of 1
Company: Geosyntec Consultants Inc	PWSID:			Job #:
Address: 1255 Roberts Blvd, NW Suite 200	Due Date Requested:			
City: Kennesaw	TAT Requested (days): same day RUSH / ~~1 Day TAT~~			
State, Zip: GA, 30144	Compliance Project: Δ Yes Δ No			
Phone:	Lab Project #: 70500911 (DO NOT REMOVE)			
Email: Kip.Gray@Geosyntec.com	PO #:			
Project Name: Plant Hammond	Project #:			
Task Code: Task Code#:	SSOW#:			

Analysis Requested

Preservation Codes: D - HNO3

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010D - Total Boron	6020B - Total Arsenic and Iron	6020B - Total Iron and Molybdenum		6010D - Dissolved Boron - Field Filtered (FF)	6020B - Dissolved Arsenic and Iron (FF)	6020B - Dissolved Iron and Molybdenum (FF)	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	D	D	D		D	D	D	X	
PT-9-07-11-FIL	7/11/24	1800	G	W	X						X		X		
PT-9-07-11-UNF	7/11/24	1800	G	W			X		X						
PT-10-07-11-FIL	7/11/24	1800	G	W	X						X		X		
PT-10-07-11-UNF	7/11/24	1800	G	W			X		X						
PT-11-07-11-FIL	7/11/24	1800	G	W	X						X		X		
PT-11-07-11-UNF	7/11/24	2000	G	W			X		X						
PT-12-07-11-FIL	7/11/24	2000	G	W	X						X		X		
PT-12-07-11-UNF	7/11/24	2000	G	W			X		X						

70505 1526 COC

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Jamie Newsome	7/12/24 1700	Geosyntec		7-12-24 700	Eurofins
	7 12 24 8:45	Geosyntec	Anna Neal	7-12-24 845	Eurofins

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks:
		# 2665 4.9°C

Job ID: 705-1526-1 — Eurofins Atlanta

Job Narrative
705-1526-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Receipt
The samples were received on 7/12/2024 8:45 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.9°C.

Metals
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-1526-1

Client Sample ID: PT-9-07-11-FIL

Lab Sample ID: 705-1526-1

Date Collected: 07/11/24 18:00

Matrix: Water

Date Received: 07/12/24 08:45

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron, Dissolved	1.4		0.040	0.026	mg/L			07/12/24 12:00	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron, Dissolved	0.020	J	0.040	0.018	mg/L			07/12/24 15:53	1
Molybdenum, Dissolved	0.42		0.0050	0.00069	mg/L			07/12/24 15:53	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-1526-1

Client Sample ID: PT-9-07-11-UNF

Lab Sample ID: 705-1526-2

Date Collected: 07/11/24 18:00

Matrix: Water

Date Received: 07/12/24 08:45

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1.5		0.040	0.026	mg/L		07/12/24 09:41	07/12/24 12:06	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.56		0.040	0.018	mg/L		07/12/24 09:45	07/12/24 16:02	1
Molybdenum	0.43		0.0050	0.00069	mg/L		07/12/24 09:45	07/12/24 16:02	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-1526-1

Client Sample ID: PT-10-07-11-FIL

Lab Sample ID: 705-1526-3

Date Collected: 07/11/24 18:00

Matrix: Water

Date Received: 07/12/24 08:45

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron, Dissolved	**1.7**		0.040	0.026	mg/L			07/12/24 12:07	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron, Dissolved	ND		0.040	0.018	mg/L			07/12/24 15:55	1
Molybdenum, Dissolved	**0.15**		0.0050	0.00069	mg/L			07/12/24 15:55	1

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-1526-1

Client Sample ID: PT-10-07-11-UNF
Date Collected: 07/11/24 18:00
Date Received: 07/12/24 08:45

Lab Sample ID: 705-1526-4
Matrix: Water

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1.6		0.040	0.026	mg/L		07/12/24 09:41	07/12/24 12:15	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.37		0.040	0.018	mg/L		07/12/24 09:45	07/12/24 16:05	1
Molybdenum	0.16		0.0050	0.00069	mg/L		07/12/24 09:45	07/12/24 16:05	1

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-1526-1

Client Sample ID: PT-11-07-11-FIL
Date Collected: 07/11/24 20:00
Date Received: 07/12/24 08:45

Lab Sample ID: 705-1526-5
Matrix: Water

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron, Dissolved	0.72		0.040	0.026	mg/L			07/12/24 12:10	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron, Dissolved	2.4		0.040	0.018	mg/L			07/12/24 15:57	1
Molybdenum, Dissolved	0.047		0.0050	0.00069	mg/L			07/12/24 15:57	1

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-1526-1

Client Sample ID: PT-11-07-11-UNF
Date Collected: 07/11/24 20:00
Date Received: 07/12/24 08:45

Lab Sample ID: 705-1526-6
Matrix: Water

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.69		0.040	0.026	mg/L		07/12/24 09:41	07/12/24 12:18	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	3.2		0.040	0.018	mg/L		07/12/24 09:45	07/12/24 16:07	1
Molybdenum	0.046		0.0050	0.00069	mg/L		07/12/24 09:45	07/12/24 16:07	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-1526-1

Client Sample ID: PT-12-07-11-FIL
Date Collected: 07/11/24 20:00
Date Received: 07/12/24 08:45

Lab Sample ID: 705-1526-7
Matrix: Water

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron, Dissolved	**1.6**		0.040	0.026	mg/L			07/12/24 12:13	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron, Dissolved	ND		0.040	0.018	mg/L			07/12/24 16:00	1
Molybdenum, Dissolved	**0.30**		0.0050	0.00069	mg/L			07/12/24 16:00	1

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-1526-1

Client Sample ID: PT-12-07-11-UNF
Date Collected: 07/11/24 20:00
Date Received: 07/12/24 08:45

Lab Sample ID: 705-1526-8
Matrix: Water

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1.5		0.040	0.026	mg/L		07/12/24 09:41	07/12/24 12:21	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.10		0.040	0.018	mg/L		07/12/24 09:45	07/12/24 16:09	1
Molybdenum	0.31		0.0050	0.00069	mg/L		07/12/24 09:45	07/12/24 16:09	1

Lab Chronicle

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-1526-1

Client Sample ID: PT-9-07-11-FIL
Lab Sample ID: 705-1526-1
Date Collected: 07/11/24 18:00
Matrix: Water
Date Received: 07/12/24 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Analysis	6010D		1	3200	DAB	EET ATL	07/12/24 12:00
Dissolved	Analysis	6020B		1	3279	AD	EET ATL	07/12/24 15:53

Client Sample ID: PT-9-07-11-UNF
Lab Sample ID: 705-1526-2
Date Collected: 07/11/24 18:00
Matrix: Water
Date Received: 07/12/24 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3010A			2944	SA	EET ATL	07/12/24 09:41
Total/NA	Analysis	6010D		1	3192	DS	EET ATL	07/12/24 12:06
Total Recoverable	Prep	3005A			3002	BL	EET ATL	07/12/24 09:45
Total Recoverable	Analysis	6020B		1	3279	AD	EET ATL	07/12/24 16:02

Client Sample ID: PT-10-07-11-FIL
Lab Sample ID: 705-1526-3
Date Collected: 07/11/24 18:00
Matrix: Water
Date Received: 07/12/24 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Analysis	6010D		1	3200	DAB	EET ATL	07/12/24 12:07
Dissolved	Analysis	6020B		1	3279	AD	EET ATL	07/12/24 15:55

Client Sample ID: PT-10-07-11-UNF
Lab Sample ID: 705-1526-4
Date Collected: 07/11/24 18:00
Matrix: Water
Date Received: 07/12/24 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3010A			2944	SA	EET ATL	07/12/24 09:41
Total/NA	Analysis	6010D		1	3192	DS	EET ATL	07/12/24 12:15
Total Recoverable	Prep	3005A			3002	BL	EET ATL	07/12/24 09:45
Total Recoverable	Analysis	6020B		1	3279	AD	EET ATL	07/12/24 16:05

Client Sample ID: PT-11-07-11-FIL
Lab Sample ID: 705-1526-5
Date Collected: 07/11/24 20:00
Matrix: Water
Date Received: 07/12/24 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Analysis	6010D		1	3200	DAB	EET ATL	07/12/24 12:10
Dissolved	Analysis	6020B		1	3279	AD	EET ATL	07/12/24 15:57

Client Sample ID: PT-11-07-11-UNF
Lab Sample ID: 705-1526-6
Date Collected: 07/11/24 20:00
Matrix: Water
Date Received: 07/12/24 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3010A			2944	SA	EET ATL	07/12/24 09:41
Total/NA	Analysis	6010D		1	3192	DS	EET ATL	07/12/24 12:18

Lab Chronicle

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-1526-1

Client Sample ID: PT-11-07-11-UNF

Lab Sample ID: 705-1526-6

Date Collected: 07/11/24 20:00
Matrix: Water
Date Received: 07/12/24 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			3002	BL	EET ATL	07/12/24 09:45
Total Recoverable	Analysis	6020B		1	3279	AD	EET ATL	07/12/24 16:07

Client Sample ID: PT-12-07-11-FIL

Lab Sample ID: 705-1526-7

Date Collected: 07/11/24 20:00
Matrix: Water
Date Received: 07/12/24 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Analysis	6010D		1	3200	DAB	EET ATL	07/12/24 12:13
Dissolved	Analysis	6020B		1	3279	AD	EET ATL	07/12/24 16:00

Client Sample ID: PT-12-07-11-UNF

Lab Sample ID: 705-1526-8

Date Collected: 07/11/24 20:00
Matrix: Water
Date Received: 07/12/24 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3010A			2944	SA	EET ATL	07/12/24 09:41
Total/NA	Analysis	6010D		1	3192	DS	EET ATL	07/12/24 12:21
Total Recoverable	Prep	3005A			3002	BL	EET ATL	07/12/24 09:45
Total Recoverable	Analysis	6020B		1	3279	AD	EET ATL	07/12/24 16:09

Laboratory References:

EET ATL = Eurofins Atlanta, 3080 Presidential Dr, Atlanta, GA 30340, TEL (770)457-8177

Accreditation/Certification Summary

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-1526-1

Laboratory: Eurofins Atlanta

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E87582	06-30-25

Method Summary

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-1526-1

Method	Method Description	Protocol	Laboratory
6010D	Metals (ICP)	SW846	EET ATL
6020B	Metals (ICP/MS)	SW846	EET ATL
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET ATL
3010A	Preparation, Total Metals	SW846	EET ATL

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET ATL = Eurofins Atlanta, 3080 Presidential Dr, Atlanta, GA 30340, TEL (770)457-8177

Sample Summary

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-1526-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
705-1526-1	PT-9-07-11-FIL	Water	07/11/24 18:00	07/12/24 08:45
705-1526-2	PT-9-07-11-UNF	Water	07/11/24 18:00	07/12/24 08:45
705-1526-3	PT-10-07-11-FIL	Water	07/11/24 18:00	07/12/24 08:45
705-1526-4	PT-10-07-11-UNF	Water	07/11/24 18:00	07/12/24 08:45
705-1526-5	PT-11-07-11-FIL	Water	07/11/24 20:00	07/12/24 08:45
705-1526-6	PT-11-07-11-UNF	Water	07/11/24 20:00	07/12/24 08:45
705-1526-7	PT-12-07-11-FIL	Water	07/11/24 20:00	07/12/24 08:45
705-1526-8	PT-12-07-11-UNF	Water	07/11/24 20:00	07/12/24 08:45

Login Sample Receipt Checklist

Client: Geosyntec Consultants Inc

Job Number: 705-1526-1

Login Number: 1526

List Number: 1

Creator: Pomuti, Carmen

List Source: Eurofins Atlanta

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

END OF REPORT

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ANALYTICAL REPORT

PREPARED FOR

Attn: Kip Gray
Geosyntec Consultants Inc
1255 Roberts Blvd. NW
Suite 200
Kennesaw, Georgia 30144

Generated 7/13/2024 3:21:28 PM

JOB DESCRIPTION

Plant Hammond - HAM

JOB NUMBER

705-1720-1

Eurofins Atlanta
3080 Presidential Dr
Atlanta GA 30340

See page two for job notes and contact information.

myEOL

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization

Generated
7/13/2024 3:21:28 PM

Authorized for release by
David Fuller, Project Manager
David.Fuller@et.eurofinsus.com
(770)344-8986

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Definitions/Glossary

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond - HAM

Job ID: 705-1720-1

Qualifiers

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Eurofins Atlanta
3080 Presidential Dr
Atlanta, GA 30340
Phone (770) 457-8177

Chain of Custody Record

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Client Information	Sampler: Tamara Mcnsom	Lab PM: David Fuller / Phone 770-344-8986	Carrier Tracking No(s):	COC No:
Client Contact: Kip Gray	Phone:	E-Mail: David.Fuller@et.eurofinsus.com	State of Origin: GA	Page: Page of
Company: Geosyntec Consultants Inc	PWSID:	Analysis Requested		Job #:
Address: 1255 Roberts Blvd, NW Suite 200	Due Date Requested:			Preservation Codes: D - HNO3
City: Kennesaw	TAT Requested (days): RUSH / 1 Day TAT			
State, Zip: GA, 30144	Compliance Project: Δ Yes Δ No			
Phone:	Lab Project #: 70500911 (DO NOT REMOVE)			
Email: Kip.Gray@Geosyntec.com	PO #:			Other:
Project Name: Plant Hammond	Project #:			
Task Code: Task Code#: HAM	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	6010D - Total Boron	6020B - Total Arsenic and Iron	6020B - Total Iron and Molybdenum	6010D - Dissolved Boron - Field Filtered (FF)	6020B - Dissolved Arsenic and Iron (FF)	6020B - Dissolved Iron and Molybdenum (FF)	Special Instructions/Note:
HAM PT 07-0712 UNF	7/12/24	1812	G	W	X	X					
HAM-PT-07-0712 FIL	7/12/24	1812	G	W				X	X		
HAM-PT-13-0712 UNF	7/12/24	1847	G	W	X	X					
HAM-PT-13-0712 FIL	7/12/24	1847	G	W				X	X		
HAM-PT-14-0712 UNF	7/12/24		G	W	X	X					
HAM-PT-14-0712-FIL	7/12/24		G	W				X	X		
											70 05 1720 COC

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Tamara Mcnsom	7/13/24 700			7-13-24 7:00	
2		7-13-24 8:38		Fuaad Muhamma 8:30	7/13 8:30	
3		Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks: 1.2 Courier

Job ID: 705-1720-1 Eurofins Atlanta

Job Narrative
705-1720-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Receipt
The samples were received on 7/1 /2024 8: 0 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.2°C.

Metals
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond - HAM

Job ID: 705-1720-1

Client Sample ID: HAM-PT-07-0712-UNF

Date Collected: 07/12/24 18:12
Date Received: 07/13/24 08:30

Lab Sample ID: 705-1720-1

Matrix: Water

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.52		0.040	0.026	mg/L		07/13/24 09:52	07/13/24 13:36	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.24		0.0050	0.0013	mg/L		07/13/24 09:27	07/13/24 13:45	1
Iron	17		0.040	0.018	mg/L		07/13/24 09:27	07/13/24 13:45	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond - HAM

Job ID: 705-1720-1

Client Sample ID: HAM-PT-07-0712-FIL

Date Collected: 07/12/24 18:12
Date Received: 07/13/24 08:30

Lab Sample ID: 705-1720-2

Matrix: Water

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron, Dissolved	0.53		0.040	0.026	mg/L			07/13/24 11:34	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic, Dissolved	0.16		0.0050	0.0013	mg/L			07/13/24 12:47	1
Iron, Dissolved	12		0.040	0.018	mg/L			07/13/24 12:47	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond - HAM

Job ID: 705-1720-1

Client Sample ID: HAM-PT-13-0712-UNF

Date Collected: 07/12/24 18:47
Date Received: 07/13/24 08:30

Lab Sample ID: 705-1720-3

Matrix: Water

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.58		0.040	0.026	mg/L		07/13/24 09:52	07/13/24 13:39	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.30		0.0050	0.0013	mg/L		07/13/24 09:27	07/13/24 13:23	1
Iron	24		0.040	0.018	mg/L		07/13/24 09:27	07/13/24 13:23	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond - HAM

Job ID: 705-1720-1

Client Sample ID: HAM-PT-13-0712-FIL

Date Collected: 07/12/24 18:47
Date Received: 07/13/24 08:30

Lab Sample ID: 705-1720-4

Matrix: Water

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron, Dissolved	0.59		0.040	0.026	mg/L			07/13/24 11:37	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic, Dissolved	0.23		0.0050	0.0013	mg/L			07/13/24 12:49	1
Iron, Dissolved	13		0.040	0.018	mg/L			07/13/24 12:49	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond - HAM

Job ID: 705-1720-1

Client Sample ID: HAM-PT-14-0712-UNF

Date Collected: 07/12/24 00:00
Date Received: 07/13/24 08:30

Lab Sample ID: 705-1720-5

Matrix: Water

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.46		0.040	0.026	mg/L		07/13/24 09:52	07/13/24 13:15	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.17		0.0050	0.0013	mg/L		07/13/24 09:27	07/13/24 13:48	1
Iron	53		0.20	0.089	mg/L		07/13/24 09:27	07/13/24 13:56	5

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond - HAM

Job ID: 705-1720-1

Client Sample ID: HAM-PT-14-0712-FIL

Date Collected: 07/12/24 00:00
Date Received: 07/13/24 08:30

Lab Sample ID: 705-1720-6

Matrix: Water

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron, Dissolved	0.44		0.040	0.026	mg/L			07/13/24 11:40	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic, Dissolved	0.079		0.0050	0.0013	mg/L			07/13/24 12:59	1
Iron, Dissolved	10		0.040	0.018	mg/L			07/13/24 12:59	1

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 705-3323/1-A
Matrix: Water
Analysis Batch: 3347

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 3323

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	ND		0.040	0.026	mg/L		07/13/24 09:52	07/13/24 13:10	1

Lab Sample ID: LCS 705-3323/2-A
Matrix: Water
Analysis Batch: 3347

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 3323

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1.00	0.968		mg/L		97	80 - 120

Lab Sample ID: 705-1720-5 MS
Matrix: Water
Analysis Batch: 3347

Client Sample ID: HAM-PT-14-0712-UNF
Prep Type: Total/NA
Prep Batch: 3323

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	0.46		1.00	1.38		mg/L		92	75 - 125

Lab Sample ID: 705-1720-5 MSD
Matrix: Water
Analysis Batch: 3347

Client Sample ID: HAM-PT-14-0712-UNF
Prep Type: Total/NA
Prep Batch: 3323

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron	0.46		1.00	1.38		mg/L		92	75 - 125	0	20

Lab Sample ID: MB 705-3325/1-A
Matrix: Water
Analysis Batch: 3331

Client Sample ID: Method Blank
Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron, Dissolved	ND		0.040	0.026	mg/L			07/13/24 11:19	1

Lab Sample ID: LCS 705-3325/2-A
Matrix: Water
Analysis Batch: 3331

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron, Dissolved	1.00	1.04		mg/L		104	80 - 120

Lab Sample ID: LCSD 705-3325/3-A
Matrix: Water
Analysis Batch: 3331

Client Sample ID: Lab Control Sample Dup
Prep Type: Dissolved

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron, Dissolved	1.00	1.04		mg/L		104	80 - 120	0	20

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 705-3321/1-A
Matrix: Water
Analysis Batch: 3350

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 3321

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0050	0.0013	mg/L		07/13/24 09:27	07/13/24 13:18	1
Iron	ND		0.040	0.018	mg/L		07/13/24 09:27	07/13/24 13:18	1

Lab Sample ID: LCS 705-3321/2-A
Matrix: Water
Analysis Batch: 3350

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 3321

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.100	0.0909		mg/L		91	80 - 120
Iron	1.00	0.812		mg/L		81	80 - 120

Lab Sample ID: 705-1720-3 MS
Matrix: Water
Analysis Batch: 3350

Client Sample ID: HAM-PT-13-0712-UNF
Prep Type: Total Recoverable
Prep Batch: 3321

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.30		0.100	0.393		mg/L		97	75 - 125
Iron	24		1.00	25.2	4	mg/L		96	75 - 125

Lab Sample ID: 705-1720-3 MSD
Matrix: Water
Analysis Batch: 3350

Client Sample ID: HAM-PT-13-0712-UNF
Prep Type: Total Recoverable
Prep Batch: 3321

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	0.30		0.100	0.386		mg/L		90	75 - 125	2	20
Iron	24		1.00	25.1	4	mg/L		88	75 - 125	0	20

Lab Sample ID: MB 705-3324/1-A
Matrix: Water
Analysis Batch: 3350

Client Sample ID: Method Blank
Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic, Dissolved	ND		0.0050	0.0013	mg/L			07/13/24 12:40	1
Iron, Dissolved	ND		0.040	0.018	mg/L			07/13/24 12:40	1

Lab Sample ID: LCS 705-3324/2-A
Matrix: Water
Analysis Batch: 3350

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic, Dissolved	0.100	0.0912		mg/L		91	80 - 120
Iron, Dissolved	1.00	0.829		mg/L		83	80 - 120

Lab Sample ID: LCSD 705-3324/3-A
Matrix: Water
Analysis Batch: 3350

Client Sample ID: Lab Control Sample Dup
Prep Type: Dissolved

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic, Dissolved	0.100	0.0876		mg/L		88	80 - 120	4	20
Iron, Dissolved	1.00	0.800		mg/L		80	80 - 120	4	20

Lab Chronicle

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond - HAM

Job ID: 705-1720-1

Client Sample ID: HAM-PT-07-0712-UNF
Lab Sample ID: 705-1720-1
Date Collected: 07/12/24 18:12
Matrix: Water
Date Received: 07/13/24 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3010A			3323	EF	EET ATL	07/13/24 09:52
Total/NA	Analysis	6010D		1	3347	KB	EET ATL	07/13/24 13:36
Total Recoverable	Prep	3005A			3321	EF	EET ATL	07/13/24 09:27
Total Recoverable	Analysis	6020B		1	3350	TA	EET ATL	07/13/24 13:45

Client Sample ID: HAM-PT-07-0712-FIL
Lab Sample ID: 705-1720-2
Date Collected: 07/12/24 18:12
Matrix: Water
Date Received: 07/13/24 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Analysis	6010D		1	3331	KB	EET ATL	07/13/24 11:34
Dissolved	Analysis	6020B		1	3350	TA	EET ATL	07/13/24 12:47

Client Sample ID: HAM-PT-13-0712-UNF
Lab Sample ID: 705-1720-3
Date Collected: 07/12/24 18:47
Matrix: Water
Date Received: 07/13/24 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3010A			3323	EF	EET ATL	07/13/24 09:52
Total/NA	Analysis	6010D		1	3347	KB	EET ATL	07/13/24 13:39
Total Recoverable	Prep	3005A			3321	EF	EET ATL	07/13/24 09:27
Total Recoverable	Analysis	6020B		1	3350	TA	EET ATL	07/13/24 13:23

Client Sample ID: HAM-PT-13-0712-FIL
Lab Sample ID: 705-1720-4
Date Collected: 07/12/24 18:47
Matrix: Water
Date Received: 07/13/24 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Analysis	6010D		1	3331	KB	EET ATL	07/13/24 11:37
Dissolved	Analysis	6020B		1	3350	TA	EET ATL	07/13/24 12:49

Client Sample ID: HAM-PT-14-0712-UNF
Lab Sample ID: 705-1720-5
Date Collected: 07/12/24 00:00
Matrix: Water
Date Received: 07/13/24 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3010A			3323	EF	EET ATL	07/13/24 09:52
Total/NA	Analysis	6010D		1	3347	KB	EET ATL	07/13/24 13:15
Total Recoverable	Prep	3005A			3321	EF	EET ATL	07/13/24 09:27
Total Recoverable	Analysis	6020B		1	3350	TA	EET ATL	07/13/24 13:48
Total Recoverable	Prep	3005A			3321	EF	EET ATL	07/13/24 09:27
Total Recoverable	Analysis	6020B		5	3350	TA	EET ATL	07/13/24 13:56

Lab Chronicle

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond - HAM

Job ID: 705-1720-1

Client Sample ID: HAM-PT-14-0712-FIL

Date Collected: 07/12/24 00:00
Date Received: 07/13/24 08:30

Lab Sample ID: 705-1720-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Analysis	6010D		1	3331	KB	EET ATL	07/13/24 11:40
Dissolved	Analysis	6020B		1	3350	TA	EET ATL	07/13/24 12:59

Laboratory References:

EET ATL = Eurofins Atlanta, 3080 Presidential Dr, Atlanta, GA 30340, TEL (770)457-8177

Accreditation/Certification Summary

Client: Geosyntec Consultants Inc
Job ID: 705-1720-1
Project/Site: Plant Hammond - HAM

Laboratory: Eurofins Atlanta

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E87582	06-30-25

Method Summary

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond - HAM

Job ID: 705-1720-1

Method	Method Description	Protocol	Laboratory
6010D	Metals (ICP)	SW846	EET ATL
6020B	Metals (ICP/MS)	SW846	EET ATL
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET ATL
3010A	Preparation, Total Metals	SW846	EET ATL

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET ATL = Eurofins Atlanta, 3080 Presidential Dr, Atlanta, GA 30340, TEL (770)457-8177

Sample Summary

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond - HAM

Job ID: 705-1720-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
705-1720-1	HAM-PT-07-0712-UNF	Water	07/12/24 18:12	07/13/24 08:30
705-1720-2	HAM-PT-07-0712-FIL	Water	07/12/24 18:12	07/13/24 08:30
705-1720-3	HAM-PT-13-0712-UNF	Water	07/12/24 18:47	07/13/24 08:30
705-1720-4	HAM-PT-13-0712-FIL	Water	07/12/24 18:47	07/13/24 08:30
705-1720-5	HAM-PT-14-0712-UNF	Water	07/12/24 00:00	07/13/24 08:30
705-1720-6	HAM-PT-14-0712-FIL	Water	07/12/24 00:00	07/13/24 08:30

Login Sample Receipt Checklist

Client: Geosyntec Consultants Inc

Job Number: 705-1720-1

Login Number: 1720
List Number: 1
Creator: Mohamud, Fardowsa

List Source: Eurofins Atlanta

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	Not present
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

END OF REPORT

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ANALYTICAL REPORT

PREPARED FOR

Attn: Kip Gray
Geosyntec Consultants Inc
1255 Roberts Blvd. NW
Suite 200
Kennesaw, Georgia 30144

Generated 7/14/2024 3:19:46 PM

JOB DESCRIPTION

Plant Hammond

JOB NUMBER

705-1754-1

Eurofins Atlanta
3080 Presidential Dr
Atlanta GA 30340

See page two for job notes and contact information.

myEOL

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization

Generated
7/14/2024 3:19:46 PM

Authorized for release by
David Fuller, Project Manager
David.Fuller@et.eurofinsus.com
(770)344-8986

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Definitions/Glossary

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-1754-1

Qualifiers

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Eurofins Atlanta
3080 Presidential Dr
Atlanta, GA 30340
Phone (770) 457-8177

Chain of Custody Record

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Client Information	Sampler:	Lab PM: David Fuller / Phone 770-344-8986	Carrier Tracking No(s):	COC No:
Client Contact: Kip Gray	Phone:	E-Mail: David.Fuller@et.eurofinsus.com	State of Origin: GA	Page: Page 1 of 2
Company: Geosyntec Consultants Inc	PWSID:			Job #:
Address: 1255 Roberts Blvd, NW Suite 200	Due Date Requested:			
City: Kennesaw	TAT Requested (days): RUSH / 1 Day TAT			
State, Zip: GA, 30144	Compliance Project: Δ Yes Δ No			
Phone:	Lab Project #: 70500911 (DO NOT REMOVE)			
Email: Kip.Gray@Geosyntec.com	PO #:			
Project Name: Plant Hammond	Project #:			
Task Code: Task Code#:	SSOW#:			

Analysis Requested

Preservation Codes: D - HNO3

705 1754 COC

Other

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	6010D - Total Boron	6020B - Total Arsenic and Iron	6020B - Total Iron and Molybdenum	6010D - Dissolved Boron - Field Filtered (FF)	6020B - Dissolved Arsenic and Iron (FF)	6020B - Dissolved Iron and Molybdenum (FF)	Special Instructions/Note:
HAM-PT-09-0713-FIL-AM	7/13/24	850	G	W	X			X		X	
HAM-PT-09-0713-UNF-AM	7/13/24	850	G	W		X	X				
HAM-PT-09-0713-FIL-PM	7/13/24	1640	G	W	X			X		X	
HAM-PT-09-0713-UNF-PM	7/13/24	1640	G	W		X	X				
HAM-PT-10-0713-FIL-AM	7/13/24	850	G	W	X			X		X	
HAM-PT-10-0713-UNF-AM	7/13/24	850	G	W		X	X				
HAM-PT-10-0713-FIL-PM	7/13/24	1640	G	W	X			X		X	
HAM-PT-10-0713-UNF-PM	7/13/24	1640	G	W		X	X				
HAM-PT-11-0713-FIL	7/13/24	1806	G	W	X			X		X	
HAM-PT-11-0713-UNF	7/13/24	1800	G	W		X	X				
HAM-PT-12-0713-FIL	7/13/24	1800	G	W	X			X		X	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		7/14/24 705			7.14.24 7:08	
2		7-14-24 8:45			7/14/24 8:46	
3				5.9°C #2dH		

Custody Seals Intact: Δ Yes Δ No | Custody Seal No

Cooler Temperature(s) °C and Other Remarks

Eurofins Atlanta
3080 Presidential Dr
Atlanta, GA 30340
Phone (770) 457-8177

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Jamie Newsome	Lab PM: David Fuller / Phone 770-344-8986	Carrier Tracking No(s):	COC No:
Client Contact: Kip Gray	Phone:	E-Mail: David.Fuller@et.eurofinsus.com	State of Origin: GA	Page: Page 2 of 2
Company: Geosyntec Consultants Inc	PWSID:	Analysis Requested		Job #:
Address: 1255 Roberts Blvd, NW Suite 200	Due Date Requested:			Preservation Codes: D - HNO3
City: Kennesaw	TAT Requested (days): RUSH / 1 Day TAT			
State, Zip: GA, 30144	Compliance Project: Δ Yes Δ No			
Phone:	Lab Project #: 70500911 (DO NOT REMOVE)			
Email: Kip.Gray@Geosyntec.com	PO #:			
Project Name: Plant Hammond	Project #:			
Task Code: Task Code#	SSOW#:			Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	6010D - Total Boron	6020B - Total Arsenic and Iron	6020B - Total Iron and Molybdenum	6010D - Dissolved Boron - Field Filtered (FF)	6020B - Dissolved Arsenic and Iron (FF)	6020B - Dissolved Iron and Molybdenum (FF)	Special Instructions/Note:
HAM-PT-12-0713-UNF	7/13/24		G	W	X		X				

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by:	Date	Time	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	[signature]	7/14/24 1015		[signature]	7-14-24 1015	
2	[signature]	7-14-24 8:45		[signature]	7/14/24 8:46	
3				[signature] 5.9°C #265		

Custody Seals Intact: Δ Yes Δ No | Custody Seal No: | Cooler Temperature(s) °C and Other Remarks:

Job ID: 705-1754-1 — Eurofins Atlanta

Job Narrative
705-1754-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Receipt
The samples were received on 7/14/2024 8:4 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.9°C.

Receipt Exceptions
The following sample was received at the laboratory without a sample collection time documented on the chain of custody: AM-PT-12-071 -UN (705-1754-12). Sample was logged in using the collection time on the bottle label.

Metals
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-1754-1

Client Sample ID: HAM-PT-09-0713-FIL-AM

Date Collected: 07/13/24 08:50
Date Received: 07/14/24 08:46

Lab Sample ID: 705-1754-1

Matrix: Water

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron, Dissolved	**1.5**		0.040	0.026	mg/L			07/14/24 11:10	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron, Dissolved	ND		0.040	0.018	mg/L			07/14/24 12:27	1
Molybdenum, Dissolved	**0.33**		0.0050	0.00069	mg/L			07/14/24 12:27	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-1754-1

Client Sample ID: HAM-PT-09-0713-UNF-AM

Date Collected: 07/13/24 08:50
Date Received: 07/14/24 08:46

Lab Sample ID: 705-1754-2

Matrix: Water

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1.4		0.040	0.026	mg/L		07/14/24 10:04	07/14/24 12:36	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.36		0.040	0.018	mg/L		07/14/24 10:25	07/14/24 14:02	1
Molybdenum	0.34		0.0050	0.00069	mg/L		07/14/24 10:25	07/14/24 14:02	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-1754-1

Client Sample ID: HAM-PT-09-0713-FIL-PM

Date Collected: 07/13/24 16:40
Date Received: 07/14/24 08:46

Lab Sample ID: 705-1754-3

Matrix: Water

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron, Dissolved	1.2		0.040	0.026	mg/L			07/14/24 11:13	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron, Dissolved	0.30		0.040	0.018	mg/L			07/14/24 12:29	1
Molybdenum, Dissolved	0.29		0.0050	0.00069	mg/L			07/14/24 12:29	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-1754-1

Client Sample ID: HAM-PT-09-0713-UNF-PM

Date Collected: 07/13/24 16:40
Date Received: 07/14/24 08:46

Lab Sample ID: 705-1754-4

Matrix: Water

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1.1		0.040	0.026	mg/L		07/14/24 10:04	07/14/24 12:39	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.66		0.040	0.018	mg/L		07/14/24 10:25	07/14/24 14:05	1
Molybdenum	0.29		0.0050	0.00069	mg/L		07/14/24 10:25	07/14/24 14:05	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-1754-1

Client Sample ID: HAM-PT-10-0713-FIL-AM

Date Collected: 07/13/24 08:50
Date Received: 07/14/24 08:46

Lab Sample ID: 705-1754-5

Matrix: Water

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron, Dissolved	**1.7**		0.040	0.026	mg/L			07/14/24 11:22	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron, Dissolved	ND		0.040	0.018	mg/L			07/14/24 12:31	1
Molybdenum, Dissolved	**0.17**		0.0050	0.00069	mg/L			07/14/24 12:31	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-1754-1

Client Sample ID: HAM-PT-10-0713-UNF-AM

Date Collected: 07/13/24 08:50
Date Received: 07/14/24 08:46

Lab Sample ID: 705-1754-6

Matrix: Water

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1.6		0.040	0.026	mg/L		07/14/24 10:04	07/14/24 12:42	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.19		0.040	0.018	mg/L		07/14/24 10:25	07/14/24 14:07	1
Molybdenum	0.16		0.0050	0.00069	mg/L		07/14/24 10:25	07/14/24 14:07	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-1754-1

Client Sample ID: HAM-PT-10-0713-FIL-PM

Date Collected: 07/13/24 16:40
Date Received: 07/14/24 08:46

Lab Sample ID: 705-1754-7

Matrix: Water

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron, Dissolved	**1.7**		0.040	0.026	mg/L			07/14/24 11:24	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron, Dissolved	ND		0.040	0.018	mg/L			07/14/24 12:34	1
Molybdenum, Dissolved	**0.16**		0.0050	0.00069	mg/L			07/14/24 12:34	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-1754-1

Client Sample ID: HAM-PT-10-0713-UNF-PM

Date Collected: 07/13/24 16:40
Date Received: 07/14/24 08:46

Lab Sample ID: 705-1754-8

Matrix: Water

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1.6		0.040	0.026	mg/L		07/14/24 10:04	07/14/24 12:44	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.12		0.040	0.018	mg/L		07/14/24 10:25	07/14/24 14:09	1
Molybdenum	0.18		0.0050	0.00069	mg/L		07/14/24 10:25	07/14/24 14:09	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-1754-1

Client Sample ID: HAM-PT-11-0713-FIL

Date Collected: 07/13/24 18:00
Date Received: 07/14/24 08:46

Lab Sample ID: 705-1754-9

Matrix: Water

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron, Dissolved	0.60		0.040	0.026	mg/L			07/14/24 11:27	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron, Dissolved	9.0		0.040	0.018	mg/L			07/14/24 12:36	1
Molybdenum, Dissolved	0.022		0.0050	0.00069	mg/L			07/14/24 12:36	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-1754-1

Client Sample ID: HAM-PT-11-0713-UNF

Date Collected: 07/13/24 18:00
Date Received: 07/14/24 08:46

Lab Sample ID: 705-1754-10

Matrix: Water

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.57		0.040	0.026	mg/L		07/14/24 10:04	07/14/24 12:47	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	11		0.040	0.018	mg/L		07/14/24 10:25	07/14/24 14:12	1
Molybdenum	0.024		0.0050	0.00069	mg/L		07/14/24 10:25	07/14/24 14:12	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-1754-1

Client Sample ID: HAM-PT-12-0713-FIL

Date Collected: 07/13/24 18:00
Date Received: 07/14/24 08:46

Lab Sample ID: 705-1754-11

Matrix: Water

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron, Dissolved	1.3		0.040	0.026	mg/L			07/14/24 11:30	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron, Dissolved	0.024	J	0.040	0.018	mg/L			07/14/24 12:39	1
Molybdenum, Dissolved	0.23		0.0050	0.00069	mg/L			07/14/24 12:39	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-1754-1

Client Sample ID: HAM-PT-12-0713-UNF

Lab Sample ID: 705-1754-12

Date Collected: 07/13/24 18:00

Matrix: Water

Date Received: 07/14/24 08:46

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1.2		0.040	0.026	mg/L		07/14/24 10:04	07/14/24 12:50	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.22		0.040	0.018	mg/L		07/14/24 10:25	07/14/24 13:39	1
Molybdenum	0.23		0.0050	0.00069	mg/L		07/14/24 10:25	07/14/24 13:39	1

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 705-3323/1-A
Matrix: Water
Analysis Batch: 3347

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 3323

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aoron	MD		0B020	0B3N.	m4/6		07/1g/N2 0L:5N	07/1g/N2 1g:10	1

Lab Sample ID: LCS 705-3323/2-A
Matrix: Water
Analysis Batch: 3347

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 3323

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aoron	1B00	0BL. 3		m4/6		L7	30 - 1N0

Lab Sample ID: 705-1720-A-5-C MS
Matrix: Water
Analysis Batch: 3347

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 3323

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aoron	0B2.		1B00	1Bg3		m4/6		LN	75 - 1N5

Lab Sample ID: 705-1720-A-5-D MSD
Matrix: Water
Analysis Batch: 3347

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 3323

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aoron	0B2.		1B00	1Bg3		m4/6		LN	75 - 1N5	0	N0

Lab Sample ID: MB 705-3325/1-A
Matrix: Water
Analysis Batch: 3331

Client Sample ID: Method Blank
Prep Type: DissolHed

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aoron9Dissol8ed	MD		0B020	0B3N.	m4/6			07/1g/N2 11:1L	1

Lab Sample ID: LCS 705-3325/2-A
Matrix: Water
Analysis Batch: 3331

Client Sample ID: Lab Control Sample
Prep Type: DissolHed

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aoron9Dissol8ed	1B00	1B02		m4/6		102	30 - 1N0

Lab Sample ID: LCSD 705-3325/3-A
Matrix: Water
Analysis Batch: 3331

Client Sample ID: Lab Control Sample Dup
Prep Type: DissolHed

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aoron9Dissol8ed	1B00	1B02		m4/6		102	30 - 1N0	0	N0

QC Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-1752-1

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 705-3357/1-A
Matrix: Water
Analysis Batch: 3374

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 3357

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	MD		0.020	0.013	mg/L		07/12/24 10:45	07/12/24 19:05	1
Molybdenum	MD		0.0050	0.0000	mg/L		07/12/24 10:45	07/12/24 19:05	1

Lab Sample ID: LCS 705-3357/2-A
Matrix: Water
Analysis Batch: 3374

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 3357

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	1.00	1.03		mg/L		103	80 - 120
Molybdenum	0.100	0.104		mg/L		104	80 - 120

Lab Sample ID: 705-1754-12 MS
Matrix: Water
Analysis Batch: 3374

Client Sample ID: v AM-PT-12-0713-UNF
Prep Type: Total Recoverable
Prep Batch: 3357

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	0.0NN		1.00	1.05		mg/L		102	75 - 125
Molybdenum	0.0Ng		0.100	0.0gN2		mg/L		LL	75 - 125

Lab Sample ID: 705-1754-12 MSD
Matrix: Water
Analysis Batch: 3374

Client Sample ID: v AM-PT-12-0713-UNF
Prep Type: Total Recoverable
Prep Batch: 3357

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Iron	0.0NN		1.00	1.07		mg/L		105	75 - 125	1	N0
Molybdenum	0.0Ng		0.100	0.0gg0		mg/L		102	75 - 125	N	N0

Lab Sample ID: MB 705-3324/1-A
Matrix: Water
Analysis Batch: 3350

Client Sample ID: Method Blank
Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron, Dissolved	MD		0.020	0.013	mg/L			07/1g/24 1N:20	1
Molybdenum, Dissolved	MD		0.0050	0.0000	mg/L			07/1g/24 1N:20	1

Lab Sample ID: LCS 705-3324/2-A
Matrix: Water
Analysis Batch: 3350

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron, Dissolved	1.00	0.93NL		mg/L		3g	80 - 120
Molybdenum, Dissolved	0.100	0.0LNg		mg/L		LN	80 - 120

Lab Sample ID: LCSD 705-3324/3-A
Matrix: Water
Analysis Batch: 3350

Client Sample ID: Lab Control Sample Dup
Prep Type: Dissolved

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Iron, Dissolved	1.00	0.300		mg/L		30	80 - 120	2	N0
Molybdenum, Dissolved	0.100	0.03L1		mg/L		3L	80 - 120	2	N0

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Lab Chronicle

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-1754-1

Client Sample ID: HAM-PT-09-0713-FIL-AM
Lab Sample ID: 705-1754-1
Date Collected: 07/13/24 08:50
Matrix: Water
Date Received: 07/14/24 08:46

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Analysis	6010D		1	3362	KB	EET ATL	07/14/24 11:10
Dissolved	Analysis	6020B		1	3373	TA	EET ATL	07/14/24 12:27

Client Sample ID: HAM-PT-09-0713-UNF-AM
Lab Sample ID: 705-1754-2
Date Collected: 07/13/24 08:50
Matrix: Water
Date Received: 07/14/24 08:46

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3010A			3323	EF	EET ATL	07/14/24 10:04
Total/NA	Analysis	6010D		1	3370	KB	EET ATL	07/14/24 12:36
Total Recoverable	Prep	3005A			3357	EF	EET ATL	07/14/24 10:25
Total Recoverable	Analysis	6020B		1	3374	TA	EET ATL	07/14/24 14:02

Client Sample ID: HAM-PT-09-0713-FIL-PM
Lab Sample ID: 705-1754-3
Date Collected: 07/13/24 16:40
Matrix: Water
Date Received: 07/14/24 08:46

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Analysis	6010D		1	3362	KB	EET ATL	07/14/24 11:13
Dissolved	Analysis	6020B		1	3373	TA	EET ATL	07/14/24 12:29

Client Sample ID: HAM-PT-09-0713-UNF-PM
Lab Sample ID: 705-1754-4
Date Collected: 07/13/24 16:40
Matrix: Water
Date Received: 07/14/24 08:46

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3010A			3323	EF	EET ATL	07/14/24 10:04
Total/NA	Analysis	6010D		1	3370	KB	EET ATL	07/14/24 12:39
Total Recoverable	Prep	3005A			3357	EF	EET ATL	07/14/24 10:25
Total Recoverable	Analysis	6020B		1	3374	TA	EET ATL	07/14/24 14:05

Client Sample ID: HAM-PT-10-0713-FIL-AM
Lab Sample ID: 705-1754-5
Date Collected: 07/13/24 08:50
Matrix: Water
Date Received: 07/14/24 08:46

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Analysis	6010D		1	3362	KB	EET ATL	07/14/24 11:22
Dissolved	Analysis	6020B		1	3373	TA	EET ATL	07/14/24 12:31

Client Sample ID: HAM-PT-10-0713-UNF-AM
Lab Sample ID: 705-1754-6
Date Collected: 07/13/24 08:50
Matrix: Water
Date Received: 07/14/24 08:46

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3010A			3323	EF	EET ATL	07/14/24 10:04
Total/NA	Analysis	6010D		1	3370	KB	EET ATL	07/14/24 12:42

Lab Chronicle

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-1754-1

Client Sample ID: HAM-PT-10-0713-UNF-AM
Lab Sample ID: 705-1754-6
Date Collected: 07/13/24 08:50
Matrix: Water
Date Received: 07/14/24 08:46

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			3357	EF	EET ATL	07/14/24 10:25
Total Recoverable	Analysis	6020B		1	3374	TA	EET ATL	07/14/24 14:07

Client Sample ID: HAM-PT-10-0713-FIL-PM
Lab Sample ID: 705-1754-7
Date Collected: 07/13/24 16:40
Matrix: Water
Date Received: 07/14/24 08:46

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Analysis	6010D		1	3362	KB	EET ATL	07/14/24 11:24
Dissolved	Analysis	6020B		1	3373	TA	EET ATL	07/14/24 12:34

Client Sample ID: HAM-PT-10-0713-UNF-PM
Lab Sample ID: 705-1754-8
Date Collected: 07/13/24 16:40
Matrix: Water
Date Received: 07/14/24 08:46

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3010A			3323	EF	EET ATL	07/14/24 10:04
Total/NA	Analysis	6010D		1	3370	KB	EET ATL	07/14/24 12:44
Total Recoverable	Prep	3005A			3357	EF	EET ATL	07/14/24 10:25
Total Recoverable	Analysis	6020B		1	3374	TA	EET ATL	07/14/24 14:09

Client Sample ID: HAM-PT-11-0713-FIL
Lab Sample ID: 705-1754-9
Date Collected: 07/13/24 18:00
Matrix: Water
Date Received: 07/14/24 08:46

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Analysis	6010D		1	3362	KB	EET ATL	07/14/24 11:27
Dissolved	Analysis	6020B		1	3373	TA	EET ATL	07/14/24 12:36

Client Sample ID: HAM-PT-11-0713-UNF
Lab Sample ID: 705-1754-10
Date Collected: 07/13/24 18:00
Matrix: Water
Date Received: 07/14/24 08:46

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3010A			3323	EF	EET ATL	07/14/24 10:04
Total/NA	Analysis	6010D		1	3370	KB	EET ATL	07/14/24 12:47
Total Recoverable	Prep	3005A			3357	EF	EET ATL	07/14/24 10:25
Total Recoverable	Analysis	6020B		1	3374	TA	EET ATL	07/14/24 14:12

Client Sample ID: HAM-PT-12-0713-FIL
Lab Sample ID: 705-1754-11
Date Collected: 07/13/24 18:00
Matrix: Water
Date Received: 07/14/24 08:46

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Analysis	6010D		1	3362	KB	EET ATL	07/14/24 11:30
Dissolved	Analysis	6020B		1	3373	TA	EET ATL	07/14/24 12:39

Lab Chronicle

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-1754-1

Client Sample ID: HAM-PT-12-0713-UNF

Date Collected: 07/13/24 18:00
Date Received: 07/14/24 08:46

Lab Sample ID: 705-1754-12

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3010A			3323	EF	EET ATL	07/14/24 10:04
Total/NA	Analysis	6010D		1	3370	KB	EET ATL	07/14/24 12:50
Total Recoverable	Prep	3005A			3357	EF	EET ATL	07/14/24 10:25
Total Recoverable	Analysis	6020B		1	3374	TA	EET ATL	07/14/24 13:39

Laboratory References:

EET ATL = Eurofins Atlanta, 3080 Presidential Dr, Atlanta, GA 30340, TEL (770)457-8177

Accreditation/Certification Summary

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-1754-1

Laboratory: Eurofins Atlanta

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E87582	06-30-25

Method Summary

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-1752-1

Method	Method Description	Protocol	Laboratory
W010D	8 etals 4ICP6	SA M2W	(( ) E) T
W0L0B	8 etals 4ICP/8 S6	SA M2W	(( ) E) T
3005E	Preparation,) otal Recoverable or Dissolved 8 etals	SA M2W	(( ) E) T
3010E	Preparation,) otal 8 etals	SA M2W	(( ) E) T

Protocol References:

SA M2W= ") est 8 ethods For (valuating Solid A aste, Physical/Chemical 8 ethods",) hird (dition, November 19MWEnd Its Updates.

Laboratory References:

(( ) E) T = (urofins Etlanta, 30M0 Presidential Dr, Etlanta, GE 30320,) (T 47706257-M177

Sample Summary

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-1754-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
705-1754-1	HAM-PT-09-0713-FIL-AM	Water	07/13/24 08:50	07/14/24 08:46
705-1754-2	HAM-PT-09-0713-UNF-AM	Water	07/13/24 08:50	07/14/24 08:46
705-1754-3	HAM-PT-09-0713-FIL-PM	Water	07/13/24 16:40	07/14/24 08:46
705-1754-4	HAM-PT-09-0713-UNF-PM	Water	07/13/24 16:40	07/14/24 08:46
705-1754-5	HAM-PT-10-0713-FIL-AM	Water	07/13/24 08:50	07/14/24 08:46
705-1754-6	HAM-PT-10-0713-UNF-AM	Water	07/13/24 08:50	07/14/24 08:46
705-1754-7	HAM-PT-10-0713-FIL-PM	Water	07/13/24 16:40	07/14/24 08:46
705-1754-8	HAM-PT-10-0713-UNF-PM	Water	07/13/24 16:40	07/14/24 08:46
705-1754-9	HAM-PT-11-0713-FIL	Water	07/13/24 18:00	07/14/24 08:46
705-1754-10	HAM-PT-11-0713-UNF	Water	07/13/24 18:00	07/14/24 08:46
705-1754-11	HAM-PT-12-0713-FIL	Water	07/13/24 18:00	07/14/24 08:46
705-1754-12	HAM-PT-12-0713-UNF	Water	07/13/24 18:00	07/14/24 08:46

Login Sample Receipt Checklist

Client: Geosyntec Consultants Inc

Job Number: 705-1754-1

Login Number: 1754
List Number: 1
Creator: Bellinger, Arabia

List Source: Eurofins Atlanta

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	False	No time on COC for PT-12 UNF, logged in per container labell
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

END OF REPORT

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Kip Gray
Geosyntec Consultants Inc
1255 Roberts Blvd. NW
Suite 200
Kennesaw, Georgia 30144

Generated 7/15/2024 6:58:03 PM

JOB DESCRIPTION

Plant Hammond

JOB NUMBER

705-1758-1

Eurofins Atlanta
3080 Presidential Dr
Atlanta GA 30340

See page two for job notes and contact information.

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Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization

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7/15/2024 6:58:03 PM

Authorized for release by
David Fuller, Project Manager
David.Fuller@et.eurofinsus.com
(770)344-8986

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Definitions/Glossary

Client: Geosyntec Consultants Inc
Job ID: 705-1758-1
Project/Site: Plant Hammond

Qualifiers

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Eurofins Atlanta
3080 Presidential Dr
Atlanta, GA 30340
Phone (770) 457-8177

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Jamie Newsome	Lab PM: David Fuller / Phone 770-344-8986	Carrier Tracking No(s):	COC No:
Client Contact: Kip Gray	Phone:	E-Mail: David.Fuller@et.eurofinsus.com	State of Origin: GA	Page: Page of
Company: Geosyntec Consultants Inc	PWSID:	Analysis Requested		Job #:
Address: 1255 Roberts Blvd, NW Suite 200	Due Date Requested:			Preservation Codes: D - HNO3
City: Kennesaw	TAT Requested (days): RUSH / 1 Day TAT			
State, Zip: GA, 30144	Compliance Project: Δ Yes Δ No			
Phone	Lab Project #: 70500911 (DO NOT REMOVE)			
Email: Kip.Gray@Geosyntec.com	PO #:			Other:
Project Name: Plant Hammond	Project #:			
Task Code: Task Code#.	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	6010D - Total Boron	6020B - Total Arsenic and Iron	6020B - Total Iron and Molybdenum		6010D - Dissolved Boron - Field Filtered (FF)	6020B - Dissolved Arsenic and Iron (FF)	6020B - Dissolved Iron and Molybdenum (FF)	Total Number of Containers	Special Instructions/Note:
			Preservation Code:			D	D	D		D	D	D		
HAM PT 13-0714- FIL AM	7/14/24	835	G	W	X					X	X			
HAM PT-13-0714 UNF-AM	7/14/24	835	G	W		X	X							
HAM-PT 13 0714- FIL PM	7/14/24	1700	G	W	X					X	X			
HAM PT-13 0714 UNF PM	7/14/24	1700	G	W		X	X							
HAM-PT 14-0714-FIL AM	7/14/24	815	G	W	X					X	X			
HAM PT 14-0714-UNF-AM	7/14/24	815	G	W		X	X							
HAM-PT-14-0714-FIL-PM	7/14/24	1715	G	W	X					X	X			
HAM-PT-14 0714-UNF- PM	7/14/24	1715	G	W		X	X							
HAM PT-15 -0714-FIL- PM	7/14/24	1730	G	W	X					X	X			
HAM PT 15 0714-UNF PM	7/14/24	1730	G	W		X	X							

7
05-1758 COC

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I, II, III, IV, Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment:

	Relinquished by:	Date/Time	Company	Received by	Date/Time	Company
1	Jamie Newsome	7/15/24 1700			7-15-24 1700	
2		7-15-24 2000			07.15 24 9:08	
3		Date/Time:	Company	Received by:	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks.
		#2665 3.5°C

Job ID: 705-1758-1 Eurofins Atlanta

Job Narrative
705-1758-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Receipt
The samples were received on 7/15/2024 9:08 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.5°C.

Metals
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-1758-1

Client Sample ID: HAM-PT-13-0714-FIL-AM

Lab Sample ID: 705-1758-1

Date Collected: 07/14/24 08:35
Matrix: Water
Date Received: 07/15/24 09:08

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron, Dissolved	0.57		0.040	0.026	mg/L			07/15/24 13:18	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic, Dissolved	0.29		0.0050	0.0013	mg/L			07/15/24 15:20	1
Iron, Dissolved	15		0.040	0.018	mg/L			07/15/24 15:20	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-1758-1

Client Sample ID: HAM-PT-13-0714-UNF-AM

Lab Sample ID: 705-1758-2

Date Collected: 07/14/24 08:35

Matrix: Water

Date Received: 07/15/24 09:08

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.61		0.040	0.026	mg/L		07/15/24 12:02	07/15/24 15:17	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.30		0.0050	0.0013	mg/L		07/15/24 11:20	07/15/24 17:08	1
Iron	27		0.040	0.018	mg/L		07/15/24 11:20	07/15/24 17:08	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-1758-1

Client Sample ID: HAM-PT-13-0714-FIL-PM

Lab Sample ID: 705-1758-3

Date Collected: 07/14/24 17:00

Matrix: Water

Date Received: 07/15/24 09:08

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron, Dissolved	0.43		0.040	0.026	mg/L			07/15/24 13:21	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic, Dissolved	0.23		0.0050	0.0013	mg/L			07/15/24 15:22	1
Iron, Dissolved	20		0.040	0.018	mg/L			07/15/24 15:22	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-1758-1

Client Sample ID: HAM-PT-13-0714-UNF-PM

Lab Sample ID: 705-1758-4

Date Collected: 07/14/24 17:00

Matrix: Water

Date Received: 07/15/24 09:08

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.45		0.040	0.026	mg/L		07/15/24 12:02	07/15/24 15:52	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.27		0.0050	0.0013	mg/L		07/15/24 11:20	07/15/24 16:56	1
Iron	28		0.040	0.018	mg/L		07/15/24 11:20	07/15/24 16:56	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-1758-1

Client Sample ID: HAM-PT-14-0714-FIL-AM

Lab Sample ID: 705-1758-5

Date Collected: 07/14/24 08:15

Matrix: Water

Date Received: 07/15/24 09:08

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron, Dissolved	0.66		0.040	0.026	mg/L			07/15/24 13:24	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic, Dissolved	0.18		0.0050	0.0013	mg/L			07/15/24 15:25	1
Iron, Dissolved	14		0.040	0.018	mg/L			07/15/24 15:25	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-1758-1

Client Sample ID: HAM-PT-14-0714-UNF-AM

Lab Sample ID: 705-1758-6

Date Collected: 07/14/24 08:15

Matrix: Water

Date Received: 07/15/24 09:08

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.68		0.040	0.026	mg/L		07/15/24 12:02	07/15/24 15:55	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.20		0.0050	0.0013	mg/L		07/15/24 11:20	07/15/24 17:10	1
Iron	48		0.040	0.018	mg/L		07/15/24 11:20	07/15/24 17:10	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-1758-1

Client Sample ID: HAM-PT-14-0714-FIL-PM

Lab Sample ID: 705-1758-7

Date Collected: 07/14/24 17:15
Matrix: Water
Date Received: 07/15/24 09:08

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron, Dissolved	0.28		0.040	0.026	mg/L			07/15/24 13:28	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic, Dissolved	0.035		0.0050	0.0013	mg/L			07/15/24 15:27	1
Iron, Dissolved	19		0.040	0.018	mg/L			07/15/24 15:27	1

Client: Geosyntec Consultants Inc
Job ID: 705-1758-1
Project/Site: Plant Hammond

Client Sample ID: HAM-PT-14-0714-UNF-PM
Lab Sample ID: 705-1758-8
Date Collected: 07/14/24 17:15
Matrix: Water
Date Received: 07/15/24 09:08

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.32		0.040	0.026	mg/L		07/15/24 12:02	07/15/24 15:58	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.14		0.0050	0.0013	mg/L		07/15/24 11:20	07/15/24 17:13	1
Iron	73		0.40	0.18	mg/L		07/15/24 11:20	07/15/24 17:29	10

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-1758-1

Client Sample ID: HAM-PT-15-0714-FIL-PM
Date Collected: 07/14/24 17:30
Date Received: 07/15/24 09:08

Lab Sample ID: 705-1758-9
Matrix: Water

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron, Dissolved	0.69		0.040	0.026	mg/L			07/15/24 13:31	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic, Dissolved	0.38		0.0050	0.0013	mg/L			07/15/24 15:30	1
Iron, Dissolved	8.2		0.040	0.018	mg/L			07/15/24 15:30	1

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-1758-1

Client Sample ID: HAM-PT-15-0714-UNF-PM

Lab Sample ID: 705-1758-10

Date Collected: 07/14/24 17:30

Matrix: Water

Date Received: 07/15/24 09:08

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.69		0.040	0.026	mg/L		07/15/24 12:02	07/15/24 16:01	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.42		0.0050	0.0013	mg/L		07/15/24 11:20	07/15/24 17:20	1
Iron	14		0.040	0.018	mg/L		07/15/24 11:20	07/15/24 17:20	1

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 705-3429/1-A
Matrix: Water
Analysis Batch: 3496

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 3429

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	ND		0.040	0.026	mg/L		07/15/24 12:02	07/15/24 15:11	1

Lab Sample ID: LCS 705-3429/2-A
Matrix: Water
Analysis Batch: 3496

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 3429

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1.00	1.04		mg/L		104	80 - 120

Lab Sample ID: 705-1758-2 MS
Matrix: Water
Analysis Batch: 3496

Client Sample ID: HAM-PT-13-0714-UNF-AM
Prep Type: Total/NA
Prep Batch: 3429

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	0.61		1.00	1.66		mg/L		105	75 - 125

Lab Sample ID: 705-1758-2 MSD
Matrix: Water
Analysis Batch: 3496

Client Sample ID: HAM-PT-13-0714-UNF-AM
Prep Type: Total/NA
Prep Batch: 3429

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron	0.61		1.00	1.66		mg/L		105	75 - 125	0	20

Lab Sample ID: MB 705-3434/1-A
Matrix: Water
Analysis Batch: 3463

Client Sample ID: Method Blank
Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron, Dissolved	ND		0.040	0.026	mg/L			07/15/24 13:03	1

Lab Sample ID: LCS 705-3434/2-A
Matrix: Water
Analysis Batch: 3463

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron, Dissolved	1.00	1.04		mg/L		104	80 - 120

Lab Sample ID: LCSD 705-3434/3-A
Matrix: Water
Analysis Batch: 3463

Client Sample ID: Lab Control Sample Dup
Prep Type: Dissolved

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron, Dissolved	1.00	0.973		mg/L		97	80 - 120	7	20

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 705-3424/1-A
Matrix: Water
Analysis Batch: 3516

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 3424

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0050	0.0013	mg/L		07/15/24 11:20	07/15/24 16:51	1
Iron	ND		0.040	0.018	mg/L		07/15/24 11:20	07/15/24 16:51	1

Lab Sample ID: LCS 705-3424/2-A
Matrix: Water
Analysis Batch: 3516

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 3424

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.100	0.0898		mg/L		90	80 - 120
Iron	1.00	0.905		mg/L		91	80 - 120

Lab Sample ID: 705-1758-4 MS
Matrix: Water
Analysis Batch: 3516

Client Sample ID: HAM-PT-13-0714-UNF-PM
Prep Type: Total Recoverable
Prep Batch: 3424

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.27		0.100	0.355		mg/L		86	75 - 125
Iron	28		1.00	27.0	4	mg/L		-95	75 - 125

Lab Sample ID: 705-1758-4 MSD
Matrix: Water
Analysis Batch: 3516

Client Sample ID: HAM-PT-13-0714-UNF-PM
Prep Type: Total Recoverable
Prep Batch: 3424

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	0.27		0.100	0.368		mg/L		99	75 - 125	4	20
Iron	28		1.00	27.8	4	mg/L		-16	75 - 125	3	20

Lab Sample ID: MB 705-3432/1-A
Matrix: Water
Analysis Batch: 3500

Client Sample ID: Method Blank
Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic, Dissolved	ND		0.0050	0.0013	mg/L			07/15/24 15:13	1
Iron, Dissolved	ND		0.040	0.018	mg/L			07/15/24 15:13	1

Lab Sample ID: LCS 705-3432/2-A
Matrix: Water
Analysis Batch: 3500

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic, Dissolved	0.100	0.0978		mg/L		98	80 - 120
Iron, Dissolved	1.00	0.924		mg/L		92	80 - 120

Lab Sample ID: LCSD 705-3432/3-A
Matrix: Water
Analysis Batch: 3500

Client Sample ID: Lab Control Sample Dup
Prep Type: Dissolved

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic, Dissolved	0.100	0.0956		mg/L		96	80 - 120	2	20
Iron, Dissolved	1.00	0.893		mg/L		89	80 - 120	3	20

Lab Chronicle

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-1758-1

Client Sample ID: HAM-PT-13-0714-FIL-AM
Lab Sample ID: 705-1758-1
Date Collected: 07/14/24 08:35
Matrix: Water
Date Received: 07/15/24 09:08

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Analysis	6010D		1	3463	DS	EET ATL	07/15/24 13:18
Dissolved	Analysis	6020B		1	3500	AD	EET ATL	07/15/24 15:20

Client Sample ID: HAM-PT-13-0714-UNF-AM
Lab Sample ID: 705-1758-2
Date Collected: 07/14/24 08:35
Matrix: Water
Date Received: 07/15/24 09:08

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3010A			3429	SA	EET ATL	07/15/24 12:02
Total/NA	Analysis	6010D		1	3496	DS	EET ATL	07/15/24 15:17
Total Recoverable	Prep	3005A			3424	BL	EET ATL	07/15/24 11:20
Total Recoverable	Analysis	6020B		1	3516	IF	EET ATL	07/15/24 17:08

Client Sample ID: HAM-PT-13-0714-FIL-PM
Lab Sample ID: 705-1758-3
Date Collected: 07/14/24 17:00
Matrix: Water
Date Received: 07/15/24 09:08

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Analysis	6010D		1	3463	DS	EET ATL	07/15/24 13:21
Dissolved	Analysis	6020B		1	3500	AD	EET ATL	07/15/24 15:22

Client Sample ID: HAM-PT-13-0714-UNF-PM
Lab Sample ID: 705-1758-4
Date Collected: 07/14/24 17:00
Matrix: Water
Date Received: 07/15/24 09:08

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3010A			3429	SA	EET ATL	07/15/24 12:02
Total/NA	Analysis	6010D		1	3496	DS	EET ATL	07/15/24 15:52
Total Recoverable	Prep	3005A			3424	BL	EET ATL	07/15/24 11:20
Total Recoverable	Analysis	6020B		1	3516	IF	EET ATL	07/15/24 16:56

Client Sample ID: HAM-PT-14-0714-FIL-AM
Lab Sample ID: 705-1758-5
Date Collected: 07/14/24 08:15
Matrix: Water
Date Received: 07/15/24 09:08

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Analysis	6010D		1	3463	DS	EET ATL	07/15/24 13:24
Dissolved	Analysis	6020B		1	3500	AD	EET ATL	07/15/24 15:25

Client Sample ID: HAM-PT-14-0714-UNF-AM
Lab Sample ID: 705-1758-6
Date Collected: 07/14/24 08:15
Matrix: Water
Date Received: 07/15/24 09:08

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3010A			3429	SA	EET ATL	07/15/24 12:02
Total/NA	Analysis	6010D		1	3496	DS	EET ATL	07/15/24 15:55

Lab Chronicle

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-1758-1

Client Sample ID: HAM-PT-14-0714-UNF-AM
Lab Sample ID: 705-1758-6

Date Collected: 07/14/24 08:15
Matrix: Water
Date Received: 07/15/24 09:08

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			3424	BL	EET ATL	07/15/24 11:20
Total Recoverable	Analysis	6020B		1	3516	IF	EET ATL	07/15/24 17:10

Client Sample ID: HAM-PT-14-0714-FIL-PM
Lab Sample ID: 705-1758-7

Date Collected: 07/14/24 17:15
Matrix: Water
Date Received: 07/15/24 09:08

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Analysis	6010D		1	3463	DS	EET ATL	07/15/24 13:28
Dissolved	Analysis	6020B		1	3500	AD	EET ATL	07/15/24 15:27

Client Sample ID: HAM-PT-14-0714-UNF-PM
Lab Sample ID: 705-1758-8

Date Collected: 07/14/24 17:15
Matrix: Water
Date Received: 07/15/24 09:08

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3010A			3429	SA	EET ATL	07/15/24 12:02
Total/NA	Analysis	6010D		1	3496	DS	EET ATL	07/15/24 15:58
Total Recoverable	Prep	3005A			3424	BL	EET ATL	07/15/24 11:20
Total Recoverable	Analysis	6020B		1	3516	IF	EET ATL	07/15/24 17:13
Total Recoverable	Prep	3005A			3424	BL	EET ATL	07/15/24 11:20
Total Recoverable	Analysis	6020B		10	3516	IF	EET ATL	07/15/24 17:29

Client Sample ID: HAM-PT-15-0714-FIL-PM
Lab Sample ID: 705-1758-9

Date Collected: 07/14/24 17:30
Matrix: Water
Date Received: 07/15/24 09:08

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Analysis	6010D		1	3463	DS	EET ATL	07/15/24 13:31
Dissolved	Analysis	6020B		1	3500	AD	EET ATL	07/15/24 15:30

Client Sample ID: HAM-PT-15-0714-UNF-PM
Lab Sample ID: 705-1758-10

Date Collected: 07/14/24 17:30
Matrix: Water
Date Received: 07/15/24 09:08

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3010A			3429	SA	EET ATL	07/15/24 12:02
Total/NA	Analysis	6010D		1	3496	DS	EET ATL	07/15/24 16:01
Total Recoverable	Prep	3005A			3424	BL	EET ATL	07/15/24 11:20
Total Recoverable	Analysis	6020B		1	3516	IF	EET ATL	07/15/24 17:20

Laboratory References:

EET ATL = Eurofins Atlanta, 3080 Presidential Dr, Atlanta, GA 30340, TEL (770)457-8177

Accreditation/Certification Summary

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-1758-1

Laboratory: Eurofins Atlanta

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E87582	06-30-25

Method Summary

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-1758-1

Method	Method Description	Protocol	Laboratory
6010D	Metals (ICP)	SW846	EET ATL
6020B	Metals (ICP/MS)	SW846	EET ATL
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET ATL
3010A	Preparation, Total Metals	SW846	EET ATL

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET ATL = Eurofins Atlanta, 3080 Presidential Dr, Atlanta, GA 30340, TEL (770)457-8177

Sample Summary

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-1758-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
705-1758-1	HAM-PT-13-0714-FIL-AM	Water	07/14/24 08:35	07/15/24 09:08
705-1758-2	HAM-PT-13-0714-UNF-AM	Water	07/14/24 08:35	07/15/24 09:08
705-1758-3	HAM-PT-13-0714-FIL-PM	Water	07/14/24 17:00	07/15/24 09:08
705-1758-4	HAM-PT-13-0714-UNF-PM	Water	07/14/24 17:00	07/15/24 09:08
705-1758-5	HAM-PT-14-0714-FIL-AM	Water	07/14/24 08:15	07/15/24 09:08
705-1758-6	HAM-PT-14-0714-UNF-AM	Water	07/14/24 08:15	07/15/24 09:08
705-1758-7	HAM-PT-14-0714-FIL-PM	Water	07/14/24 17:15	07/15/24 09:08
705-1758-8	HAM-PT-14-0714-UNF-PM	Water	07/14/24 17:15	07/15/24 09:08
705-1758-9	HAM-PT-15-0714-FIL-PM	Water	07/14/24 17:30	07/15/24 09:08
705-1758-10	HAM-PT-15-0714-UNF-PM	Water	07/14/24 17:30	07/15/24 09:08

Login Sample Receipt Checklist

Client: Geosyntec Consultants Inc

Job Number: 705-1758-1

Login Number: 1758

List Source: Eurofins Atlanta

List Number: 1

Creator: Pomuti, Carmen

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	False	Limited volume received.
Sample Preservation Verified.	True	Preservation labels on samples match COC
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

END OF REPORT

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Kip Gray
Geosyntec Consultants Inc
1255 Roberts Blvd. NW
Suite 200
Kennesaw, Georgia 30144

Generated 7/16/2024 7:07:45 PM

JOB DESCRIPTION

Plant Hammond

JOB NUMBER

705-1800-1

Eurofins Atlanta
3080 Presidential Dr
Atlanta GA 30340

See page two for job notes and contact information.

myEOL

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization

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Authorized for release by
David Fuller, Project Manager
David.Fuller@et.eurofinsus.com
(770)344-8986

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Definitions/Glossary

Client: Geosyntec Consultants Inc
Job ID: 705-1800-1
Project/Site: Plant Hammond

Qualifiers

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Eurofins Atlanta
3080 Presidential Dr
Atlanta, GA 30340
Phone (770) 457-8177

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Jamie Newsome	Lab PM: David Fuller / Phone 770-344-8986	Carrier Tracking No(s):	COC No:
Client Contact: Kip Gray	Phone:	E-Mail: David.Fuller@et.eurofinsus.com	State of Origin: GA	Page: Page 1 of 1
Company: Geosyntec Consultants Inc	PWSID:	Analysis Requested		Job #:
Address: 1255 Roberts Blvd, NW Suite 200	Due Date Requested:			Preservation Codes: D - HNO3
City: Kennesaw	TAT Requested (days): Same day ~~RUSH / 1 Day TAT~~ TAT			
State, Zip: GA, 30144	Compliance Project: Δ Yes Δ No			
Phone	Lab Project #: 70500911 (DO NOT REMOVE)			
Email: Kip.Gray@Geosyntec.com	PO #:			Other
Project Name: Plant Hammond	Project #:			
Task Code: Task Code#	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	6010D - Total Boron	6020B - Total Arsenic and Iron	6020B - Total Iron and Molybdenum		6010D - Dissolved Boron - Field Filtered (FF)	6020B - Dissolved Arsenic and Iron (FF)	6020B - Dissolved Iron and Molybdenum (FF)							Total Number of Containers	Special Instructions/Note:
			Preservation Code:			D	D	D		D	D	D								
HAM PT-09-0715-FIL AM	7/15/24	822	G	W	X					X		X								
HAM-PT-09-0715-FIL-PM	7/15/24	1615	G	W	X					X		X								
HAM-PT-09-0715-UNF-AM	7/15/24	822	G	W		X		X												
HAM-PT-09-0715-UNF-PM	7/15/24	1615	G	W		X		X												
HAM-PT-10-0715-UNF	7/15/24	1720	G	W		X		X												
HAM PT-11-0715-FIL AM	7/15/24	816	G	W	X					X		X								
HAM-PT-11-0715-FIL-PM	7/15/24	1615	G	W	X					X		X								
HAM-PT-11-0715-UNF-AM	7/15/24	816	G	W		X		X												
HAM-PT-11-0715-UNF-PM	7/15/24	1615	G	W		X		X												
HAM-PT-12-0715-UNF	7/15/24	1720	G	W		X		X												

05 1800 COC

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I, II, III, IV, Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment:

	Relinquished by:	Date/Time	Company	Received by:	Date/Time	Company
1	Jamie Newsome	7/16/24 700			7-16-24 7:00	
2		7/16/24 914			07/16/24 0914	Eurofins
3						

Custody Seals Intact: Δ Yes Δ No | Custody Seal No

Cooler Temperature(s) °C and Other Remarks: #2665 4.9°C

Job Narrative
705-1800-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 7/16/2024 9:14 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.9°C.

Metals
Method 6010D - Dissolved: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 705-3582 and analytical batch 705-3647.

Method 6020B - Dissolved: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 705-3681.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-1800-1

Client Sample ID: HAM-PT-09-0715-FIL-AM
Date Collected: 07/15/24 08:22
Date Received: 07/16/24 09:14

Lab Sample ID: 705-1800-1
Matrix: Water

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron, Dissolved	1.3		0.040	0.026	mg/L			07/16/24 13:11	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron, Dissolved	0.031	J	0.040	0.018	mg/L			07/16/24 15:05	1
Molybdenum, Dissolved	0.27		0.0050	0.00069	mg/L			07/16/24 15:05	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-1800-1

Client Sample ID: HAM-PT-09-0715-FIL-PM

Lab Sample ID: 705-1800-2

Date Collected: 07/15/24 16:15

Matrix: Water

Date Received: 07/16/24 09:14

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron, Dissolved	1.0		0.040	0.026	mg/L			07/16/24 13:20	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron, Dissolved	3.8		0.040	0.018	mg/L			07/16/24 15:07	1
Molybdenum, Dissolved	0.12		0.0050	0.00069	mg/L			07/16/24 15:07	1

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-1800-1

Client Sample ID: HAM-PT-09-0715-UNF-AM
Date Collected: 07/15/24 08:22
Date Received: 07/16/24 09:14

Lab Sample ID: 705-1800-3
Matrix: Water

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1.2		0.040	0.026	mg/L		07/16/24 10:03	07/16/24 14:02	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.38		0.040	0.018	mg/L		07/16/24 10:35	07/16/24 16:09	1
Molybdenum	0.30		0.0050	0.00069	mg/L		07/16/24 10:35	07/16/24 16:09	1

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-1800-1

Client Sample ID: HAM-PT-09-0715-UNF-PM
Date Collected: 07/15/24 16:15
Date Received: 07/16/24 09:14

Lab Sample ID: 705-1800-4
Matrix: Water

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1.0		0.040	0.026	mg/L		07/16/24 10:03	07/16/24 14:17	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Molybdenum	0.13		0.0050	0.00069	mg/L		07/16/24 10:35	07/16/24 15:58	1
Iron	6.3		0.040	0.018	mg/L		07/16/24 10:35	07/16/24 15:58	1

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-1800-1

Client Sample ID: HAM-PT-10-0715-UNF

Lab Sample ID: 705-1800-5

Date Collected: 07/15/24 17:20

Matrix: Water

Date Received: 07/16/24 09:14

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1.7		0.040	0.026	mg/L		07/16/24 10:03	07/16/24 14:25	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Molybdenum	0.16		0.0050	0.00069	mg/L		07/16/24 10:35	07/16/24 16:11	1
Iron	0.14		0.040	0.018	mg/L		07/16/24 10:35	07/16/24 16:11	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-1800-1

Client Sample ID: HAM-PT-11-0715-FIL-AM

Lab Sample ID: 705-1800-6

Date Collected: 07/15/24 08:46

Matrix: Water

Date Received: 07/16/24 09:14

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron, Dissolved	0.87		0.040	0.026	mg/L			07/16/24 13:23	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron, Dissolved	1.6		0.040	0.018	mg/L			07/16/24 15:09	1
Molybdenum, Dissolved	0.040		0.0050	0.00069	mg/L			07/16/24 15:09	1

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-1800-1

Client Sample ID: HAM-PT-11-0715-FIL-PM
Date Collected: 07/15/24 16:15
Date Received: 07/16/24 09:14

Lab Sample ID: 705-1800-7
Matrix: Water

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron, Dissolved	0.51		0.040	0.026	mg/L			07/16/24 13:26	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron, Dissolved	37		0.040	0.018	mg/L			07/16/24 15:12	1
Molybdenum, Dissolved	0.0069		0.0050	0.00069	mg/L			07/16/24 15:12	1

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-1800-1

Client Sample ID: HAM-PT-11-0715-UNF-AM

Lab Sample ID: 705-1800-8

Date Collected: 07/15/24 08:46

Matrix: Water

Date Received: 07/16/24 09:14

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.85		0.040	0.026	mg/L		07/16/24 10:03	07/16/24 14:28	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Molybdenum	0.043		0.0050	0.00069	mg/L		07/16/24 10:35	07/16/24 16:47	1
Iron	2.4		0.040	0.018	mg/L		07/16/24 10:35	07/16/24 16:47	1

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-1800-1

Client Sample ID: HAM-PT-11-0715-UNF-PM
Date Collected: 07/15/24 16:15
Date Received: 07/16/24 09:14

Lab Sample ID: 705-1800-9
Matrix: Water

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.49		0.040	0.026	mg/L		07/16/24 10:03	07/16/24 14:31	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Molybdenum	0.0086		0.0050	0.00069	mg/L		07/16/24 10:35	07/16/24 16:49	1
Iron	44		0.040	0.018	mg/L		07/16/24 10:35	07/16/24 16:49	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-1800-1

Client Sample ID: HAM-PT-12-0715-UNF

Lab Sample ID: 705-1800-10

Date Collected: 07/15/24 17:20

Matrix: Water

Date Received: 07/16/24 09:14

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1.2		0.040	0.026	mg/L		07/16/24 10:03	07/16/24 14:34	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Molybdenum	0.14		0.0050	0.00069	mg/L		07/16/24 10:35	07/16/24 16:52	1
Iron	0.49		0.040	0.018	mg/L		07/16/24 10:35	07/16/24 16:52	1

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 705-3576/1-A
Matrix: Water
Analysis Batch: 3668

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 3576

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	ND		0.040	0.026	mg/L		07/16/24 10:03	07/16/24 13:56	1

Lab Sample ID: LCS 705-3576/2-A
Matrix: Water
Analysis Batch: 3668

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 3576

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1.00	1.02		mg/L		102	80 - 120

Lab Sample ID: 705-1800-3 MS
Matrix: Water
Analysis Batch: 3668

Client Sample ID: HAM-PT-09-0715-UNF-AM
Prep Type: Total/NA
Prep Batch: 3576

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1.2		1.00	2.26		mg/L		101	75 - 125

Lab Sample ID: 705-1800-3 MSD
Matrix: Water
Analysis Batch: 3668

Client Sample ID: HAM-PT-09-0715-UNF-AM
Prep Type: Total/NA
Prep Batch: 3576

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron	1.2		1.00	2.29		mg/L		105	75 - 125	2	20

Lab Sample ID: MB 705-3582/1-A
Matrix: Water
Analysis Batch: 3647

Client Sample ID: Method Blank
Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron, Dissolved	ND		0.040	0.026	mg/L			07/16/24 12:55	1

Lab Sample ID: LCSD 705-3582/3-A
Matrix: Water
Analysis Batch: 3647

Client Sample ID: Lab Control Sample Dup
Prep Type: Dissolved

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron, Dissolved	1.00	1.01		mg/L		101	80 - 120	1	20

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 705-3577/1-A
Matrix: Water
Analysis Batch: 3701

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 3577

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.040	0.018	mg/L		07/16/24 10:35	07/16/24 15:53	1
Molybdenum	ND		0.0050	0.00069	mg/L		07/16/24 10:35	07/16/24 15:53	1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 705-3577/2-A
Matrix: Water
Analysis Batch: 3701

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 3577

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	1.00	0.955		mg/L		95	80 - 120
Molybdenum	0.100	0.0936		mg/L		94	80 - 120

Lab Sample ID: 705-1800-4 MS
Matrix: Water
Analysis Batch: 3701

Client Sample ID: HAM-PT-09-0715-UNF-PM
Prep Type: Total Recoverable
Prep Batch: 3577

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	6.3		1.00	7.00	4	mg/L		70	75 - 125
Molybdenum	0.13		0.100	0.225		mg/L		95	75 - 125

Lab Sample ID: 705-1800-4 MSD
Matrix: Water
Analysis Batch: 3701

Client Sample ID: HAM-PT-09-0715-UNF-PM
Prep Type: Total Recoverable
Prep Batch: 3577

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Iron	6.3		1.00	7.34	4	mg/L		105	75 - 125	5	20
Molybdenum	0.13		0.100	0.234		mg/L		104	75 - 125	4	20

Lab Sample ID: MB 705-3581/1-A
Matrix: Water
Analysis Batch: 3681

Client Sample ID: Method Blank
Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron, Dissolved	ND		0.040	0.018	mg/L			07/16/24 14:58	1
Molybdenum, Dissolved	ND		0.0050	0.00069	mg/L			07/16/24 14:58	1

Lab Sample ID: LCS 705-3581/2-A
Matrix: Water
Analysis Batch: 3681

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron, Dissolved	1.00	0.920		mg/L		92	80 - 120
Molybdenum, Dissolved	0.100	0.0923		mg/L		92	80 - 120

Lab Sample ID: LCSD 705-3581/3-A
Matrix: Water
Analysis Batch: 3681

Client Sample ID: Lab Control Sample Dup
Prep Type: Dissolved

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Iron, Dissolved	1.00	0.877		mg/L		88	80 - 120	5	20
Molybdenum, Dissolved	0.100	0.0897		mg/L		90	80 - 120	3	20

Lab Chronicle

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-1800-1

Client Sample ID: HAM-PT-09-0715-FIL-AM

Lab Sample ID: 705-1800-1

Date Collected: 07/15/24 08:22
Matrix: Water
Date Received: 07/16/24 09:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Analysis	6010D		1	3647	DS	EET ATL	07/16/24 13:11
Dissolved	Analysis	6020B		1	3681	AD	EET ATL	07/16/24 15:05

Client Sample ID: HAM-PT-09-0715-FIL-PM

Lab Sample ID: 705-1800-2

Date Collected: 07/15/24 16:15
Matrix: Water
Date Received: 07/16/24 09:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Analysis	6010D		1	3647	DS	EET ATL	07/16/24 13:20
Dissolved	Analysis	6020B		1	3681	AD	EET ATL	07/16/24 15:07

Client Sample ID: HAM-PT-09-0715-UNF-AM

Lab Sample ID: 705-1800-3

Date Collected: 07/15/24 08:22
Matrix: Water
Date Received: 07/16/24 09:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3010A			3576	SA	EET ATL	07/16/24 10:03
Total/NA	Analysis	6010D		1	3668	DAB	EET ATL	07/16/24 14:02
Total Recoverable	Prep	3005A			3577	SA	EET ATL	07/16/24 10:35
Total Recoverable	Analysis	6020B		1	3701	AD	EET ATL	07/16/24 16:09

Client Sample ID: HAM-PT-09-0715-UNF-PM

Lab Sample ID: 705-1800-4

Date Collected: 07/15/24 16:15
Matrix: Water
Date Received: 07/16/24 09:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3010A			3576	SA	EET ATL	07/16/24 10:03
Total/NA	Analysis	6010D		1	3668	DAB	EET ATL	07/16/24 14:17
Total Recoverable	Prep	3005A			3577	SA	EET ATL	07/16/24 10:35
Total Recoverable	Analysis	6020B		1	3701	AD	EET ATL	07/16/24 15:58

Client Sample ID: HAM-PT-10-0715-UNF

Lab Sample ID: 705-1800-5

Date Collected: 07/15/24 17:20
Matrix: Water
Date Received: 07/16/24 09:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3010A			3576	SA	EET ATL	07/16/24 10:03
Total/NA	Analysis	6010D		1	3668	DAB	EET ATL	07/16/24 14:25
Total Recoverable	Prep	3005A			3577	SA	EET ATL	07/16/24 10:35
Total Recoverable	Analysis	6020B		1	3701	AD	EET ATL	07/16/24 16:11

Lab Chronicle

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-1800-1

Client Sample ID: HAM-PT-11-0715-FIL-AM

Lab Sample ID: 705-1800-6

Date Collected: 07/15/24 08:46
Matrix: Water
Date Received: 07/16/24 09:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Analysis	6010D		1	3647	DS	EET ATL	07/16/24 13:23
Dissolved	Analysis	6020B		1	3681	AD	EET ATL	07/16/24 15:09

Client Sample ID: HAM-PT-11-0715-FIL-PM

Lab Sample ID: 705-1800-7

Date Collected: 07/15/24 16:15
Matrix: Water
Date Received: 07/16/24 09:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Analysis	6010D		1	3647	DS	EET ATL	07/16/24 13:26
Dissolved	Analysis	6020B		1	3681	AD	EET ATL	07/16/24 15:12

Client Sample ID: HAM-PT-11-0715-UNF-AM

Lab Sample ID: 705-1800-8

Date Collected: 07/15/24 08:46
Matrix: Water
Date Received: 07/16/24 09:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3010A			3576	SA	EET ATL	07/16/24 10:03
Total/NA	Analysis	6010D		1	3668	DAB	EET ATL	07/16/24 14:28
Total Recoverable	Prep	3005A			3577	SA	EET ATL	07/16/24 10:35
Total Recoverable	Analysis	6020B		1	3701	AD	EET ATL	07/16/24 16:47

Client Sample ID: HAM-PT-11-0715-UNF-PM

Lab Sample ID: 705-1800-9

Date Collected: 07/15/24 16:15
Matrix: Water
Date Received: 07/16/24 09:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3010A			3576	SA	EET ATL	07/16/24 10:03
Total/NA	Analysis	6010D		1	3668	DAB	EET ATL	07/16/24 14:31
Total Recoverable	Prep	3005A			3577	SA	EET ATL	07/16/24 10:35
Total Recoverable	Analysis	6020B		1	3701	AD	EET ATL	07/16/24 16:49

Client Sample ID: HAM-PT-12-0715-UNF

Lab Sample ID: 705-1800-10

Date Collected: 07/15/24 17:20
Matrix: Water
Date Received: 07/16/24 09:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3010A			3576	SA	EET ATL	07/16/24 10:03
Total/NA	Analysis	6010D		1	3668	DAB	EET ATL	07/16/24 14:34
Total Recoverable	Prep	3005A			3577	SA	EET ATL	07/16/24 10:35
Total Recoverable	Analysis	6020B		1	3701	AD	EET ATL	07/16/24 16:52

Laboratory References:

EET ATL = Eurofins Atlanta, 3080 Presidential Dr, Atlanta, GA 30340, TEL (770)457-8177

Accreditation/Certification Summary

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-1800-1

Laboratory: Eurofins Atlanta

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E87582	06-30-25

Method Summary

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-1800-1

Method	Method Description	Protocol	Laboratory
6010D	Metals (ICP)	SW846	EET ATL
6020B	Metals (ICP/MS)	SW846	EET ATL
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET ATL
3010A	Preparation, Total Metals	SW846	EET ATL

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET ATL = Eurofins Atlanta, 3080 Presidential Dr, Atlanta, GA 30340, TEL (770)457-8177

Sample Summary

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-1800-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
705-1800-1	HAM-PT-09-0715-FIL-AM	Water	07/15/24 08:22	07/16/24 09:14
705-1800-2	HAM-PT-09-0715-FIL-PM	Water	07/15/24 16:15	07/16/24 09:14
705-1800-3	HAM-PT-09-0715-UNF-AM	Water	07/15/24 08:22	07/16/24 09:14
705-1800-4	HAM-PT-09-0715-UNF-PM	Water	07/15/24 16:15	07/16/24 09:14
705-1800-5	HAM-PT-10-0715-UNF	Water	07/15/24 17:20	07/16/24 09:14
705-1800-6	HAM-PT-11-0715-FIL-AM	Water	07/15/24 08:46	07/16/24 09:14
705-1800-7	HAM-PT-11-0715-FIL-PM	Water	07/15/24 16:15	07/16/24 09:14
705-1800-8	HAM-PT-11-0715-UNF-AM	Water	07/15/24 08:46	07/16/24 09:14
705-1800-9	HAM-PT-11-0715-UNF-PM	Water	07/15/24 16:15	07/16/24 09:14
705-1800-10	HAM-PT-12-0715-UNF	Water	07/15/24 17:20	07/16/24 09:14

Login Sample Receipt Checklist

Client: Geosyntec Consultants Inc

Job Number: 705-1800-1

Login Number: 1800

List Number: 1

Creator: Pomuti, Carmen

List Source: Eurofins Atlanta

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

END OF REPORT

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ANALYTICAL REPORT

PREPARED FOR

Attn: Kip Gray
Geosyntec Consultants Inc
1255 Roberts Blvd. NW
Suite 200
Kennesaw, Georgia 30144

Generated 7/24/2024 4:33:36 PM Revision 1

JOB DESCRIPTION

Plant Hammond

JOB NUMBER

705-1889-1

Eurofins Atlanta
3080 Presidential Dr
Atlanta GA 30340

See page two for job notes and contact information.

my EOL

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization

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Revision 1

Authorized for release by
David Fuller, Project Manager
David.Fuller@et.eurofinsus.com
(770)344-8986

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Definitions/Glossary

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-1889-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Eurofins Atlanta
3080 Presidential Dr
Atlanta, GA 30340
Phone (770) 457-8177

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Ali Akbari Zorin Web	Lab PM: David Fuller / Phone 770-344-8986	Carrier Tracking No(s):	COC No:
Client Contact: Kip Gray	Phone:	E-Mail: David Fuller@et.eurofinsus com	State of Origin: GA	Page: Page 1 of 1
Company: Geosyntec Consultants Inc	PWSID:			Job #:
Address: 1255 Roberts Blvd, NW Suite 200	Due Date Requested			
City: Kennesaw	TAT Requested (days): Same Day RUSH / ~~1 Day TAT~~			
State, Zip: GA, 30144	Compliance Project Δ Yes Δ No			
Phone	Lab Project #: 70500911 (DO NOT REMOVE)			
Email: Kip Gray@Geosyntec.com	PO #:			
Project Name: Plant Hammond	Project #:			
Task Code: Task Code#:	SSOW#:			

Analysis Requested

Preservation Codes: D - HNO3

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010D - Total Boron	6020B - Total Arsenic and Iron	6020B - Total Iron and Molybdenum		6010D - Dissolved Boron - Field Filtered (FF)	6020B - Dissolved Arsenic and Iron (FF)	6020B - Dissolved Iron and Molybdenum (FF)						Total Number of Containers	Special Instructions/Note:
			Preservation Code:		X	X	D	D	D		D	D	D						X	
HAM-PT-08-0716-UNF-AM	7/16/24	755	G	W			X	X												
HAM-PT-08-0716-FIL-AM	7/16/24	755	G	W	X						X	X								
HAM-PT-14-0716-UNF-AM	7/16/24	745	G	W			X	X												
HAM-PT-14-0716-FIL-AM	7/16/24	745	G	W	X						X	X								
HAM-PT-08-0716-UNF-PM	7/16/24	1845	G	W			X	X												
HAM-PT-08-0716-FIL-PM	7/16/24	1845	G	W	X						X	X								
HAM-PT-14-0716-UNF-PM	7/16/24	1845	G	W			X	X												
HAM-PT-14-0716-FIL-PM	7/16/24	1845	G	W	X						X	X								

05 1889 COC

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I, II, III, IV, Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment: Courier

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	[signature]	7/17/24		[signature]	7-17-24 7:10	
2	[signature]	7-17-24 9:10		Anna Neal	7-17-24 910	EUROFINS
3						

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks: 4.2C

Job Narrative
705-1889-1

Revision
The report being provided is a revision of the original report sent on 7/17/2024. The report (revision 1) is being revised in order to correct a sample-switch issue in the metals prep lab.

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Receipt
The samples were received on 7/17/2024 9:10 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.2°C.

Metals
Method 6020B - Total Recoverable: Samples HAM-PT-08-0716-UNF-AM (705-1889-1) and HAM-PT-14-0716-UNF-PM (705-1889-7) were switched during the method preparation step. The samples were analyzed directly from the bottle and results confirmed that the these two samples were switched. The samples were reprocessed to report correctly.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-1889-1

Client Sample ID: HAM-PT-08-0716-UNF-AM

Date Collected: 07/16/24 07:55
Date Received: 07/17/24 09:10

Lab Sample ID: 705-1889-1

Matrix: Water

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.80		0.040	0.026	mg/L		07/17/24 09:54	07/17/24 16:52	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.25		0.0050	0.0013	mg/L		07/17/24 10:15	07/17/24 15:34	1
Iron	7.3		0.040	0.018	mg/L		07/17/24 10:15	07/17/24 15:34	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-1889-1

Client Sample ID: HAM-PT-08-0716-FIL-AM

Date Collected: 07/16/24 07:55
Date Received: 07/17/24 09:10

Lab Sample ID: 705-1889-2

Matrix: Water

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron, Dissolved	0.76		0.040	0.026	mg/L			07/17/24 13:42	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic, Dissolved	0.28		0.0050	0.0013	mg/L			07/17/24 16:46	1
Iron, Dissolved	7.4		0.040	0.018	mg/L			07/17/24 16:46	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-1889-1

Client Sample ID: HAM-PT-14-0716-UNF-AM

Date Collected: 07/16/24 07:45
Date Received: 07/17/24 09:10

Lab Sample ID: 705-1889-3

Matrix: Water

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.62		0.040	0.026	mg/L		07/17/24 09:54	07/17/24 14:13	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.24		0.0050	0.0013	mg/L		07/17/24 10:15	07/17/24 15:27	1
Iron	63		4.0	1.8	mg/L		07/17/24 10:15	07/17/24 16:18	100

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-1889-1

Client Sample ID: HAM-PT-14-0716-FIL-AM

Date Collected: 07/16/24 07:45
Date Received: 07/17/24 09:10

Lab Sample ID: 705-1889-4

Matrix: Water

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron, Dissolved	0.64		0.040	0.026	mg/L			07/17/24 13:45	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic, Dissolved	0.15		0.0050	0.0013	mg/L			07/17/24 16:50	1
Iron, Dissolved	13		0.040	0.018	mg/L			07/17/24 16:50	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-1889-1

Client Sample ID: HAM-PT-08-0716-UNF-PM

Date Collected: 07/16/24 18:45
Date Received: 07/17/24 09:10

Lab Sample ID: 705-1889-5

Matrix: Water

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.76		0.040	0.026	mg/L		07/17/24 09:54	07/17/24 14:16	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.34		0.0050	0.0013	mg/L		07/17/24 10:15	07/17/24 15:30	1
Iron	22		0.040	0.018	mg/L		07/17/24 10:15	07/17/24 15:30	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-1889-1

Client Sample ID: HAM-PT-08-0716-FIL-PM

Date Collected: 07/16/24 18:45
Date Received: 07/17/24 09:10

Lab Sample ID: 705-1889-6

Matrix: Water

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron, Dissolved	0.65		0.040	0.026	mg/L			07/17/24 13:49	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic, Dissolved	0.30		0.0050	0.0013	mg/L			07/17/24 16:14	1
Iron, Dissolved	9.9		0.040	0.018	mg/L			07/17/24 16:14	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-1889-1

Client Sample ID: HAM-PT-14-0716-UNF-PM

Date Collected: 07/16/24 18:45
Date Received: 07/17/24 09:10

Lab Sample ID: 705-1889-7

Matrix: Water

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.62		0.040	0.026	mg/L		07/17/24 09:54	07/17/24 14:19	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.080		0.0050	0.0013	mg/L		07/17/24 10:15	07/17/24 15:23	1
Iron	34		0.040	0.018	mg/L		07/17/24 10:15	07/17/24 15:23	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-1889-1

Client Sample ID: HAM-PT-14-0716-FIL-PM

Date Collected: 07/16/24 18:45
Date Received: 07/17/24 09:10

Lab Sample ID: 705-1889-8

Matrix: Water

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron, Dissolved	0.40		0.040	0.026	mg/L			07/17/24 13:52	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic, Dissolved	0.024		0.0050	0.0013	mg/L			07/17/24 16:54	1
Iron, Dissolved	20		0.040	0.018	mg/L			07/17/24 16:54	1

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 705-3776/1-A
Matrix: Water
Analysis Batch: 3915

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 3776

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	ND		0.040	0.026	mg/L		07/17/24 09:54	07/17/24 13:55	1

Lab Sample ID: LCS 705-3776/2-A
Matrix: Water
Analysis Batch: 3915

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 3776

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1.00	1.03		mg/L		103	80 - 120

Lab Sample ID: LCSD 705-3776/3-A
Matrix: Water
Analysis Batch: 3915

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 3776

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron	1.00	1.03		mg/L		103	80 - 120	0	20

Lab Sample ID: MB 705-3817/1-A
Matrix: Water
Analysis Batch: 3915

Client Sample ID: Method Blank
Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron, Dissolved	ND		0.040	0.026	mg/L			07/17/24 13:33	1

Lab Sample ID: LCS 705-3817/2-A
Matrix: Water
Analysis Batch: 3915

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron, Dissolved	1.00	1.03		mg/L		103	80 - 120

Lab Sample ID: LCSD 705-3817/3-A
Matrix: Water
Analysis Batch: 3915

Client Sample ID: Lab Control Sample Dup
Prep Type: Dissolved

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron, Dissolved	1.00	1.01		mg/L		101	80 - 120	2	20

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 705-3771/1-A
Matrix: Water
Analysis Batch: 3925

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 3771

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0050	0.0013	mg/L		07/17/24 10:15	07/17/24 15:11	1
Iron	ND		0.040	0.018	mg/L		07/17/24 10:15	07/17/24 15:11	1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 705-3771/2-A
Matrix: Water
Analysis Batch: 3925

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 3771

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.100	0.105		mg/L		105	80 - 120
Iron	1.00	1.10		mg/L		110	80 - 120

Lab Sample ID: LCSD 705-3771/3-A
Matrix: Water
Analysis Batch: 3925

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 3771

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	0.100	0.0977		mg/L		98	80 - 120	7	20
Iron	1.00	1.02		mg/L		102	80 - 120	7	20

Lab Sample ID: MB 705-3811/1-A
Matrix: Water
Analysis Batch: 3951

Client Sample ID: Method Blank
Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic, Dissolved	ND		0.0050	0.0013	mg/L			07/17/24 16:02	1
Iron, Dissolved	ND		0.040	0.018	mg/L			07/17/24 16:02	1

Lab Sample ID: LCS 705-3811/2-A
Matrix: Water
Analysis Batch: 3951

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic, Dissolved	0.100	0.0951		mg/L		95	80 - 120
Iron, Dissolved	1.00	1.00		mg/L		100	80 - 120

Lab Chronicle

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-1889-1

Client Sample ID: HAM-PT-08-0716-UNF-AM
Date Collected: 07/16/24 07:55
Date Received: 07/17/24 09:10

Lab Sample ID: 705-1889-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3010A			3776	BR	EET ATL	07/17/24 09:54
Total/NA	Analysis	6010D		1	3915	DS	EET ATL	07/17/24 16:52
Total Recoverable	Prep	3005A			3771	BR	EET ATL	07/17/24 10:15
Total Recoverable	Analysis	6020B		1	3925	IF	EET ATL	07/17/24 15:34

Client Sample ID: HAM-PT-08-0716-FIL-AM
Date Collected: 07/16/24 07:55
Date Received: 07/17/24 09:10

Lab Sample ID: 705-1889-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Analysis	6010D		1	3915	DS	EET ATL	07/17/24 13:42
Dissolved	Analysis	6020B		1	3951	IF	EET ATL	07/17/24 16:46

Client Sample ID: HAM-PT-14-0716-UNF-AM
Date Collected: 07/16/24 07:45
Date Received: 07/17/24 09:10

Lab Sample ID: 705-1889-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3010A			3776	BR	EET ATL	07/17/24 09:54
Total/NA	Analysis	6010D		1	3915	DS	EET ATL	07/17/24 14:13
Total Recoverable	Prep	3005A			3771	BR	EET ATL	07/17/24 10:15
Total Recoverable	Analysis	6020B		1	3925	IF	EET ATL	07/17/24 15:27
Total Recoverable	Prep	3005A			3771	BR	EET ATL	07/17/24 10:15
Total Recoverable	Analysis	6020B		100	3925	IF	EET ATL	07/17/24 16:18

Client Sample ID: HAM-PT-14-0716-FIL-AM
Date Collected: 07/16/24 07:45
Date Received: 07/17/24 09:10

Lab Sample ID: 705-1889-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Analysis	6010D		1	3915	DS	EET ATL	07/17/24 13:45
Dissolved	Analysis	6020B		1	3951	IF	EET ATL	07/17/24 16:50

Client Sample ID: HAM-PT-08-0716-UNF-PM
Date Collected: 07/16/24 18:45
Date Received: 07/17/24 09:10

Lab Sample ID: 705-1889-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3010A			3776	BR	EET ATL	07/17/24 09:54
Total/NA	Analysis	6010D		1	3915	DS	EET ATL	07/17/24 14:16
Total Recoverable	Prep	3005A			3771	BR	EET ATL	07/17/24 10:15
Total Recoverable	Analysis	6020B		1	3925	IF	EET ATL	07/17/24 15:30

Lab Chronicle

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-1889-1

Client Sample ID: HAM-PT-08-0716-FIL-PM
Date Collected: 07/16/24 18:45
Date Received: 07/17/24 09:10

Lab Sample ID: 705-1889-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Analysis	6010D		1	3915	DS	EET ATL	07/17/24 13:49
Dissolved	Analysis	6020B		1	3951	IF	EET ATL	07/17/24 16:14

Client Sample ID: HAM-PT-14-0716-UNF-PM
Date Collected: 07/16/24 18:45
Date Received: 07/17/24 09:10

Lab Sample ID: 705-1889-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3010A			3776	BR	EET ATL	07/17/24 09:54
Total/NA	Analysis	6010D		1	3915	DS	EET ATL	07/17/24 14:19
Total Recoverable	Prep	3005A			3771	BR	EET ATL	07/17/24 10:15
Total Recoverable	Analysis	6020B		1	3925	IF	EET ATL	07/17/24 15:23

Client Sample ID: HAM-PT-14-0716-FIL-PM
Date Collected: 07/16/24 18:45
Date Received: 07/17/24 09:10

Lab Sample ID: 705-1889-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Analysis	6010D		1	3915	DS	EET ATL	07/17/24 13:52
Dissolved	Analysis	6020B		1	3951	IF	EET ATL	07/17/24 16:54

Laboratory References:
EET ATL = Eurofins Atlanta, 3080 Presidential Dr, Atlanta, GA 30340, TEL (770)457-8177

Accreditation/Certification Summary

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-1889-1

Laboratory: Eurofins Atlanta

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E87582	06-30-25

Method Summary

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-1889-1

Method	Method Description	Protocol	Laboratory
6010D	Metals (ICP)	SW846	EET ATL
6020B	Metals (ICP/MS)	SW846	EET ATL
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET ATL
3010A	Preparation, Total Metals	SW846	EET ATL

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET ATL = Eurofins Atlanta, 3080 Presidential Dr, Atlanta, GA 30340, TEL (770)457-8177

Sample Summary

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-1889-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
705-1889-1	HAM-PT-08-0716-UNF-AM	Water	07/16/24 07:55	07/17/24 09:10
705-1889-2	HAM-PT-08-0716-FIL-AM	Water	07/16/24 07:55	07/17/24 09:10
705-1889-3	HAM-PT-14-0716-UNF-AM	Water	07/16/24 07:45	07/17/24 09:10
705-1889-4	HAM-PT-14-0716-FIL-AM	Water	07/16/24 07:45	07/17/24 09:10
705-1889-5	HAM-PT-08-0716-UNF-PM	Water	07/16/24 18:45	07/17/24 09:10
705-1889-6	HAM-PT-08-0716-FIL-PM	Water	07/16/24 18:45	07/17/24 09:10
705-1889-7	HAM-PT-14-0716-UNF-PM	Water	07/16/24 18:45	07/17/24 09:10
705-1889-8	HAM-PT-14-0716-FIL-PM	Water	07/16/24 18:45	07/17/24 09:10

Login Sample Receipt Checklist

Client: Geosyntec Consultants Inc

Job Number: 705-1889-1

Login Number: 1889
List Number: 1
Creator: Wallace, Ryan

List Source: Eurofins Atlanta

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

END OF REPORT

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ANALYTICAL REPORT

PREPARED FOR

Attn: Kip Gray
Geosyntec Consultants Inc
1255 Roberts Blvd. NW
Suite 200
Kennesaw, Georgia 30144

Generated 7/18/2024 6:33:25 PM

JOB DESCRIPTION

Plant Hammond

JOB NUMBER

705-2068-1

Eurofins Atlanta
3080 Presidential Dr
Atlanta GA 30340

See page two for job notes and contact information.

my EOL

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization

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Authorized for release by
David Fuller, Project Manager
David.Fuller@et.eurofinsus.com
(770)344-8986

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Definitions/Glossary

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-2068-1

Qualifiers

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Eurofins Atlanta
3080 Presidential Dr
Atlanta, GA 30340
Phone (770) 457-8177

Chain of Custody Record

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Client Information	Sampler: Zain Webb/Alvi A	Lab PM: David Fuller / Phone 770-344-8986	Carrier Tracking No(s):	COC No:
Client Contact: Kip Gray	Phone:	E-Mail: David Fuller@et.eurofinsus com	State of Origin: GA	Page: Page 1 of 1
Company: Geosyntec Consultants Inc	PWSID:			Job #:
Address: 1255 Roberts Blvd, NW Suite 200	Due Date Requested:			
City: Kennesaw	TAT Requested (days): RUSH / ~~1 Day TAT~~ Same day			
State, Zip: GA, 30144	Compliance Project: Δ Yes Δ No			
Phone:	Lab Project #: 70500911 (DO NOT REMOVE)			
Email: Kip Gray@Geosyntec.com	PO #:			
Project Name: Plant Hammond	Project #:			
Task Code: Task Code#	SSOW#:			

Analysis Requested

Preservation Codes: D - HNO3

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	6010D - Total Boron	6020B - Total Arsenic and Iron	6020B - Total Iron and Molybdenum		6010D - Dissolved Boron - Field Filtered (FF)	6020B - Dissolved Arsenic and Iron (FF)	6020B - Dissolved Iron and Molybdenum (FF)	Total Number of containers	Special Instructions/Note:
			Preservation Code:			D	D	D		D	D	D		
HAM-PT-11-0717-UNF	07/17/24	1000	G	W		X		X						
HAM-PT-11-0717-FIL	07/17/24	1000	G	W	X					X		X		
HAM-PT-12-07-17-UNF	07/17/24	1200	G	W		X		X						
HAM-PT-12-07-17-FIL	07/17/24	1200	G	W	X					X		X		
HAM-PT-9-07-17-UNF	07/17/24	1400	G	W		X		X						
HAM-PT-9-07-17-FIL	07/17/24	1400	G	W	X					X		X		
HAM-PT-10-07-17-UNF	07/17/24	1400	G	W		X		X						

705

705-2068 COC

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I, II, III, IV, Other (specify)

Special Instructions/QC Requirements.

Empty Kit Relinquished by	Date	Time	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		7/18/24			7-18-24 8:30	
2		7/18/24 9:37			07.18.24 09.39	
3		Date/Time:	Company	Received by	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks: #2665 0.2°C

Job Narrative
705-2068-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Receipt
The samples were received on 7/18/2024 9:39 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.2°C.

Metals
Method 6020B - Total Recoverable: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for the following sample associated with preparation batch 705-4043 and analytical batch 705-4209 were outside control limits: HAM-PT-11-0717-UNF (705-2068-1), HAM-PT-12-07-17-UNF (705-2068-3), HAM-PT-9-07-17-UNF (705-2068-5) and HAM-PT-10-07-17-UNF (705-2068-7). The associated laboratory control sample (LCS) recovery met acceptance criteria.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-2068-1

Client Sample ID: HAM-PT-11-0717-UNF

Date Collected: 07/17/24 10:00
Date Received: 07/18/24 09:39

Lab Sample ID: 705-2068-1

Matrix: Water

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.80		0.040	0.026	mg/L		07/18/24 10:42	07/18/24 14:55	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	13		0.040	0.018	mg/L		07/18/24 10:50	07/18/24 17:40	1
Molybdenum	0.0087		0.0050	0.00069	mg/L		07/18/24 10:50	07/18/24 17:40	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-2068-1

Client Sample ID: HAM-PT-11-0717-FIL

Date Collected: 07/17/24 10:00
Date Received: 07/18/24 09:39

Lab Sample ID: 705-2068-2

Matrix: Water

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron, Dissolved	0.82		0.040	0.026	mg/L			07/18/24 15:19	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron, Dissolved	12		0.040	0.018	mg/L			07/18/24 15:48	1
Molybdenum, Dissolved	0.0081		0.0050	0.00069	mg/L			07/18/24 15:48	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-2068-1

Client Sample ID: HAM-PT-12-07-17-UNF

Date Collected: 07/17/24 12:00
Date Received: 07/18/24 09:39

Lab Sample ID: 705-2068-3

Matrix: Water

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1.2		0.040	0.026	mg/L		07/18/24 10:42	07/18/24 14:39	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Molybdenum	0.23		0.0050	0.00069	mg/L		07/18/24 10:50	07/18/24 17:52	1
Iron	0.60		0.040	0.018	mg/L		07/18/24 10:50	07/18/24 17:52	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-2068-1

Client Sample ID: HAM-PT-12-07-17-FIL

Date Collected: 07/17/24 12:00
Date Received: 07/18/24 09:39

Lab Sample ID: 705-2068-4

Matrix: Water

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron, Dissolved	**1.3**		0.040	0.026	mg/L			07/18/24 15:22	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Molybdenum, Dissolved	**0.23**		0.0050	0.00069	mg/L			07/18/24 15:52	1
Iron, Dissolved	ND		0.040	0.018	mg/L			07/18/24 15:52	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-2068-1

Client Sample ID: HAM-PT-9-07-17-UNF

Date Collected: 07/17/24 14:00
Date Received: 07/18/24 09:39

Lab Sample ID: 705-2068-5

Matrix: Water

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1.0		0.040	0.026	mg/L		07/18/24 10:42	07/18/24 14:58	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Molybdenum	0.25		0.0050	0.00069	mg/L		07/18/24 10:50	07/18/24 17:56	1
Iron	0.78		0.040	0.018	mg/L		07/18/24 10:50	07/18/24 17:56	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-2068-1

Client Sample ID: HAM-PT-9-07-17-FIL

Date Collected: 07/17/24 14:00
Date Received: 07/18/24 09:39

Lab Sample ID: 705-2068-6

Matrix: Water

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron, Dissolved	1.0		0.040	0.026	mg/L			07/18/24 15:25	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Molybdenum, Dissolved	0.24		0.0050	0.00069	mg/L			07/18/24 15:56	1
Iron, Dissolved	0.46		0.040	0.018	mg/L			07/18/24 15:56	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-2068-1

Client Sample ID: HAM-PT-10-07-17-UNF

Date Collected: 07/17/24 14:00
Date Received: 07/18/24 09:39

Lab Sample ID: 705-2068-7

Matrix: Water

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1.7		0.040	0.026	mg/L		07/18/24 10:42	07/18/24 15:01	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Molybdenum	0.17		0.0050	0.00069	mg/L		07/18/24 10:50	07/18/24 18:00	1
Iron	0.10		0.040	0.018	mg/L		07/18/24 10:50	07/18/24 18:00	1

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 705-4045/1-A
Matrix: Water
Analysis Batch: 4166

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 4045

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	ND		0.040	0.026	mg/L		07/18/24 10:42	07/18/24 14:33	1

Lab Sample ID: LCS 705-4045/2-A
Matrix: Water
Analysis Batch: 4166

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 4045

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1.00	1.03		mg/L		103	80 - 120

Lab Sample ID: 705-2068-3 MS
Matrix: Water
Analysis Batch: 4166

Client Sample ID: HAM-PT-12-07-17-UNF
Prep Type: Total/NA
Prep Batch: 4045

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1.2		1.00	2.20		mg/L		100	75 - 125

Lab Sample ID: 705-2068-3 MSD
Matrix: Water
Analysis Batch: 4166

Client Sample ID: HAM-PT-12-07-17-UNF
Prep Type: Total/NA
Prep Batch: 4045

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron	1.2		1.00	2.25		mg/L		105	75 - 125	2	20

Lab Sample ID: MB 705-4056/1-A
Matrix: Water
Analysis Batch: 4166

Client Sample ID: Method Blank
Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron, Dissolved	ND		0.040	0.026	mg/L			07/18/24 15:10	1

Lab Sample ID: LCS 705-4056/2-A
Matrix: Water
Analysis Batch: 4166

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron, Dissolved	1.00	1.04		mg/L		104	80 - 120

Lab Sample ID: LCSD 705-4056/3-A
Matrix: Water
Analysis Batch: 4166

Client Sample ID: Lab Control Sample Dup
Prep Type: Dissolved

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron, Dissolved	1.00	1.04		mg/L		104	80 - 120	1	20

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 705-4043/1-A
Matrix: Water
Analysis Batch: 4209

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 4043

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.040	0.018	mg/L		07/18/24 10:50	07/18/24 17:32	1
Molybdenum	ND		0.0050	0.00069	mg/L		07/18/24 10:50	07/18/24 17:32	1

Lab Sample ID: LCS 705-4043/2-A
Matrix: Water
Analysis Batch: 4209

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 4043

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	1.00	1.07		mg/L		107	80 - 120
Molybdenum	0.100	0.106		mg/L		106	80 - 120

Lab Sample ID: 705-2068-1 MS
Matrix: Water
Analysis Batch: 4209

Client Sample ID: HAM-PT-11-0717-UNF
Prep Type: Total Recoverable
Prep Batch: 4043

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	13		1.00	14.6	4	mg/L		141	75 - 125
Molybdenum	0.0087		0.100	0.112		mg/L		104	75 - 125

Lab Sample ID: 705-2068-1 MSD
Matrix: Water
Analysis Batch: 4209

Client Sample ID: HAM-PT-11-0717-UNF
Prep Type: Total Recoverable
Prep Batch: 4043

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Iron	13		1.00	14.5	4	mg/L		132	75 - 125	1	20
Molybdenum	0.0087		0.100	0.111		mg/L		102	75 - 125	1	20

Lab Sample ID: MB 705-4051/1-A
Matrix: Water
Analysis Batch: 4197

Client Sample ID: Method Blank
Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron, Dissolved	ND		0.040	0.018	mg/L			07/18/24 15:36	1
Molybdenum, Dissolved	ND		0.0050	0.00069	mg/L			07/18/24 15:36	1

Lab Sample ID: LCS 705-4051/2-A
Matrix: Water
Analysis Batch: 4197

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron, Dissolved	1.00	0.966		mg/L		97	80 - 120
Molybdenum, Dissolved	0.100	0.0991		mg/L		99	80 - 120

Lab Sample ID: LCSD 705-4051/3-A
Matrix: Water
Analysis Batch: 4197

Client Sample ID: Lab Control Sample Dup
Prep Type: Dissolved

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Iron, Dissolved	1.00	0.972		mg/L		97	80 - 120	1	20
Molybdenum, Dissolved	0.100	0.101		mg/L		101	80 - 120	1	20

Lab Chronicle

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-2068-1

Client Sample ID: HAM-PT-11-0717-UNF
Lab Sample ID: 705-2068-1
Date Collected: 07/17/24 10:00
Matrix: Water
Date Received: 07/18/24 09:39

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3010A			4045	SA	EET ATL	07/18/24 10:42
Total/NA	Analysis	6010D		1	4166	DS	EET ATL	07/18/24 14:55
Total Recoverable	Prep	3005A			4043	SA	EET ATL	07/18/24 10:50
Total Recoverable	Analysis	6020B		1	4209	IF	EET ATL	07/18/24 17:40

Client Sample ID: HAM-PT-11-0717-FIL
Lab Sample ID: 705-2068-2
Date Collected: 07/17/24 10:00
Matrix: Water
Date Received: 07/18/24 09:39

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Analysis	6010D		1	4166	DS	EET ATL	07/18/24 15:19
Dissolved	Analysis	6020B		1	4197	IF	EET ATL	07/18/24 15:48

Client Sample ID: HAM-PT-12-07-17-UNF
Lab Sample ID: 705-2068-3
Date Collected: 07/17/24 12:00
Matrix: Water
Date Received: 07/18/24 09:39

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3010A			4045	SA	EET ATL	07/18/24 10:42
Total/NA	Analysis	6010D		1	4166	DS	EET ATL	07/18/24 14:39
Total Recoverable	Prep	3005A			4043	SA	EET ATL	07/18/24 10:50
Total Recoverable	Analysis	6020B		1	4209	IF	EET ATL	07/18/24 17:52

Client Sample ID: HAM-PT-12-07-17-FIL
Lab Sample ID: 705-2068-4
Date Collected: 07/17/24 12:00
Matrix: Water
Date Received: 07/18/24 09:39

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Analysis	6010D		1	4166	DS	EET ATL	07/18/24 15:22
Dissolved	Analysis	6020B		1	4197	IF	EET ATL	07/18/24 15:52

Client Sample ID: HAM-PT-9-07-17-UNF
Lab Sample ID: 705-2068-5
Date Collected: 07/17/24 14:00
Matrix: Water
Date Received: 07/18/24 09:39

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3010A			4045	SA	EET ATL	07/18/24 10:42
Total/NA	Analysis	6010D		1	4166	DS	EET ATL	07/18/24 14:58
Total Recoverable	Prep	3005A			4043	SA	EET ATL	07/18/24 10:50
Total Recoverable	Analysis	6020B		1	4209	IF	EET ATL	07/18/24 17:56

Lab Chronicle

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-2068-1

Client Sample ID: HAM-PT-9-07-17-FIL

Lab Sample ID: 705-2068-6

Date Collected: 07/17/24 14:00
Matrix: Water
Date Received: 07/18/24 09:39

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Analysis	6010D		1	4166	DS	EET ATL	07/18/24 15:25
Dissolved	Analysis	6020B		1	4197	IF	EET ATL	07/18/24 15:56

Client Sample ID: HAM-PT-10-07-17-UNF

Lab Sample ID: 705-2068-7

Date Collected: 07/17/24 14:00
Matrix: Water
Date Received: 07/18/24 09:39

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3010A			4045	SA	EET ATL	07/18/24 10:42
Total/NA	Analysis	6010D		1	4166	DS	EET ATL	07/18/24 15:01
Total Recoverable	Prep	3005A			4043	SA	EET ATL	07/18/24 10:50
Total Recoverable	Analysis	6020B		1	4209	IF	EET ATL	07/18/24 18:00

Laboratory References:

EET ATL = Eurofins Atlanta, 3080 Presidential Dr, Atlanta, GA 30340, TEL (770)457-8177

Accreditation/Certification Summary

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-2068-1

Laboratory: Eurofins Atlanta

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E87582	06-30-25

Method Summary

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-2068-1

Method	Method Description	Protocol	Laboratory
6010D	Metals (ICP)	SW846	EET ATL
6020B	Metals (ICP/MS)	SW846	EET ATL
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET ATL
3010A	Preparation, Total Metals	SW846	EET ATL

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET ATL = Eurofins Atlanta, 3080 Presidential Dr, Atlanta, GA 30340, TEL (770)457-8177

Sample Summary

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-2068-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
705-2068-1	HAM-PT-11-0717-UNF	Water	07/17/24 10:00	07/18/24 09:39
705-2068-2	HAM-PT-11-0717-FIL	Water	07/17/24 10:00	07/18/24 09:39
705-2068-3	HAM-PT-12-07-17-UNF	Water	07/17/24 12:00	07/18/24 09:39
705-2068-4	HAM-PT-12-07-17-FIL	Water	07/17/24 12:00	07/18/24 09:39
705-2068-5	HAM-PT-9-07-17-UNF	Water	07/17/24 14:00	07/18/24 09:39
705-2068-6	HAM-PT-9-07-17-FIL	Water	07/17/24 14:00	07/18/24 09:39
705-2068-7	HAM-PT-10-07-17-UNF	Water	07/17/24 14:00	07/18/24 09:39

Login Sample Receipt Checklist

Client: Geosyntec Consultants Inc

Job Number: 705-2068-1

Login Number: 2068
List Number: 1
Creator: Pomuti, Carmen

List Source: Eurofins Atlanta

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

END OF REPORT

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ANALYTICAL REPORT

PREPARED FOR

Attn: Kip Gray
Geosyntec Consultants Inc
1255 Roberts Blvd. NW
Suite 200
Kennesaw, Georgia 30144

Generated 7/22/2024 8:12:46 PM

JOB DESCRIPTION

Plant Hammond

JOB NUMBER

705-2266-1

Eurofins Atlanta
3080 Presidential Dr
Atlanta GA 30340

See page two for job notes and contact information.

myEOL

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization

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Authorized for release by
David Fuller, Project Manager
David.Fuller@et.eurofinsus.com
(770)344-8986

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Definitions/Glossary

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-2266-1

Qualifiers

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Eurofins Atlanta
3080 Presidential Dr
Atlanta, GA 30340
Phone (770) 457-8177

Chain of Custody Record

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Client Information	Sampler: Zain Webb	Lab PM: David Fuller / Phone 770-344-8986	Carrier Tracking No(s):	COC No:
Client Contact: Kip Gray	Phone: 404-434-2074	E-Mail: David.Fuller@et.eurofinsus.com	State of Origin: GA	Page: Page 1 of 1
Company: Geosyntec Consultants Inc	PWSID:			Job #:
Address: 1255 Roberts Blvd, NW Suite 200	Due Date Requested: 6 1 Day Rush (By Monday)			
City: Kennesaw	TAT Requested (days): RUSH / 1 Day TAT			
State, Zip: GA, 30144	Compliance Project: Δ Yes Δ No			
Phone	Lab Project #: 70500911 (DO NOT REMOVE)			
Email: Kip.Gray@Geosyntec.com	PO #:			
Project Name: Plant Hammond	Project #:			
Task Code: Task Code#	SSOW#:			

Analysis Requested

Preservation Codes: D - HNO3

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)		6010D - Total Boron	6020B - Total Arsenic and Iron	6020B - Total Iron and Molybdenum		6010D - Dissolved Boron - Field Filtered (FF)	6020B - Dissolved Arsenic and Iron (FF)	6020B - Dissolved Iron and Molybdenum (FF)	Total Number of Containers	Special Instructions/Note:
			Preservation Code:				D	D	D		D	D	D		
HAM-PT-07-0718 UNF	7/18/24	1405	G	W	N	N	X	X	X		-			1	
HAM-PT-07-0718-FIL	7/18/24	1405	G	W	N	N			-		X	X	X	1	
HAM-PT-08-0718-UNF	7/18/24	2052	G	W	N	N	X	X	X					1	
HAM-PT-08-0718-FIL	7/18/24	2052	G	W	N	N	-	-	-		X	X	X	1	
HAM-PT-13-0718-UNF	7/18/24	1152	G	W	N	N	X	X	X		-	-	-	1	
HAM-PT-13-0718-FIL	7/18/24	1152	G	W	N	N	-	-	-		X	X	X	1	
HAM-PT-14-0718-UNF	7/18/24	1637	G	W	N	N	X	X	X					1	
HAM-PT-14-0718-FIL	7/18/24	1637	G	W	N	N	-	-	-		X	X	X	1	
HAM-PT-15-0718-UNF	7/18/24	1818	G	W	N	N	X	X	X		-	-	-	1	
HAM-PT-15-0718-FIL	7/18/24	1818	G	W	N	N	-	-	-		X	X	X	1	
TB-01	—	—	—	—	N	N	-	-	-		-	-	-	1	

705-2266 COC

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Zain Webb	7/19/24 1154	Geosyntec	Selena Wang	7/19/24 1154	Geosyntec
2	Selena Wang	7/19/24 13:15	Geosyntec		7-19-24 1315	Eurofins
3		7-19-24 2:24		Jacquia Bates	07/19/24 1414	Eurofins

Custody Seals Intact: Δ Yes Δ No | Custody Seal No

Cooler Temperature(s) °C and Other Remarks: 2.1 2665

Job Narrative
705-2266-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Receipt
The samples were received on 7/19/2024 2:14 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.1°C.

Receipt Exceptions
Limited sample volume was received for the following samples: HAM-PT-07-0718-FIL (705-2266-2), HAM-PT-08-0718-FIL (705-2266-4), HAM-PT-13-0718-FIL (705-2266-6), HAM-PT-14-0718-FIL (705-2266-8) and HAM-PT-15-0718-FIL (705-2266-10).

Metals
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-2266-1

Client Sample ID: HAM-PT-07-0718-UNF

Date Collected: 07/18/24 14:05
Date Received: 07/19/24 14:14

Lab Sample ID: 705-2266-1

Matrix: Water

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.58		0.040	0.026	mg/L		07/22/24 07:02	07/22/24 13:18	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.28		0.0050	0.0013	mg/L		07/22/24 06:55	07/22/24 16:47	1
Iron	21		0.040	0.018	mg/L		07/22/24 06:55	07/22/24 16:47	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-2266-1

Client Sample ID: HAM-PT-07-0718-FIL

Date Collected: 07/18/24 14:05
Date Received: 07/19/24 14:14

Lab Sample ID: 705-2266-2

Matrix: Water

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron, Dissolved	0.59		0.040	0.026	mg/L			07/22/24 12:07	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic, Dissolved	0.26		0.0050	0.0013	mg/L			07/22/24 19:05	1
Iron, Dissolved	16		0.040	0.018	mg/L			07/22/24 14:05	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-2266-1

Client Sample ID: HAM-PT-08-0718-UNF

Date Collected: 07/18/24 20:52
Date Received: 07/19/24 14:14

Lab Sample ID: 705-2266-3

Matrix: Water

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.72		0.040	0.026	mg/L		07/22/24 07:02	07/22/24 13:33	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.29		0.0050	0.0013	mg/L		07/22/24 06:55	07/22/24 16:27	1
Iron	8.8		0.040	0.018	mg/L		07/22/24 06:55	07/22/24 16:27	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-2266-1

Client Sample ID: HAM-PT-08-0718-FIL

Date Collected: 07/18/24 20:52
Date Received: 07/19/24 14:14

Lab Sample ID: 705-2266-4

Matrix: Water

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron, Dissolved	0.75		0.040	0.026	mg/L			07/22/24 12:10	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic, Dissolved	0.26		0.0050	0.0013	mg/L			07/22/24 19:09	1
Iron, Dissolved	7.5		0.040	0.018	mg/L			07/22/24 14:09	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-2266-1

Client Sample ID: HAM-PT-13-0718-UNF

Date Collected: 07/18/24 11:52
Date Received: 07/19/24 14:14

Lab Sample ID: 705-2266-5

Matrix: Water

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.53		0.040	0.026	mg/L		07/22/24 07:02	07/22/24 13:36	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.29		0.0050	0.0013	mg/L		07/22/24 06:55	07/22/24 16:51	1
Iron	18		0.040	0.018	mg/L		07/22/24 06:55	07/22/24 16:51	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-2266-1

Client Sample ID: HAM-PT-13-0718-FIL

Date Collected: 07/18/24 11:52
Date Received: 07/19/24 14:14

Lab Sample ID: 705-2266-6

Matrix: Water

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron, Dissolved	0.56		0.040	0.026	mg/L			07/22/24 12:13	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic, Dissolved	0.27		0.0050	0.0013	mg/L			07/22/24 19:13	1
Iron, Dissolved	15		0.040	0.018	mg/L			07/22/24 14:12	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-2266-1

Client Sample ID: HAM-PT-14-0718-UNF

Date Collected: 07/18/24 16:37
Date Received: 07/19/24 14:14

Lab Sample ID: 705-2266-7

Matrix: Water

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.64		0.040	0.026	mg/L		07/22/24 07:02	07/22/24 13:39	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.21		0.0050	0.0013	mg/L		07/22/24 06:55	07/22/24 17:11	1
Iron	18		0.040	0.018	mg/L		07/22/24 06:55	07/22/24 17:11	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-2266-1

Client Sample ID: HAM-PT-14-0718-FIL

Date Collected: 07/18/24 16:37
Date Received: 07/19/24 14:14

Lab Sample ID: 705-2266-8

Matrix: Water

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron, Dissolved	0.66		0.040	0.026	mg/L			07/22/24 12:15	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic, Dissolved	0.20		0.0050	0.0013	mg/L			07/22/24 19:17	1
Iron, Dissolved	14		0.040	0.018	mg/L			07/22/24 14:14	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-2266-1

Client Sample ID: HAM-PT-15-0718-UNF

Date Collected: 07/18/24 18:18
Date Received: 07/19/24 14:14

Lab Sample ID: 705-2266-9

Matrix: Water

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.70		0.040	0.026	mg/L		07/22/24 07:02	07/22/24 13:42	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.42		0.0050	0.0013	mg/L		07/22/24 06:55	07/22/24 17:15	1
Iron	9.4		0.040	0.018	mg/L		07/22/24 06:55	07/22/24 17:15	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-2266-1

Client Sample ID: HAM-PT-15-0718-FIL

Date Collected: 07/18/24 18:18
Date Received: 07/19/24 14:14

Lab Sample ID: 705-2266-10

Matrix: Water

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron, Dissolved	0.72		0.040	0.026	mg/L			07/22/24 12:18	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic, Dissolved	0.41		0.0050	0.0013	mg/L			07/22/24 19:21	1
Iron, Dissolved	7.7		0.040	0.018	mg/L			07/22/24 14:16	1

Method: 6010D - Metals (ICP)

Lab Sample ID: 705-2266-1 MSD
Matrix: Water
Analysis Batch: 4541

Client Sample ID: HAM-PT-07-0718-UNF
Prep Type: Total/NA
Prep Batch: 4417

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron	0.58		1.00	1.53		mg/L					

Lab Sample ID: MB 705-4419/1-A
Matrix: Water
Analysis Batch: 4514

Client Sample ID: Method Blank
Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron, Dissolved	ND		0.040	0.026	mg/L			07/22/24 11:52	1

Lab Sample ID: LCS 705-4419/2-A
Matrix: Water
Analysis Batch: 4514

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron, Dissolved	1.00	1.02		mg/L		102	80 - 120

Lab Sample ID: LCSD 705-4419/3-A
Matrix: Water
Analysis Batch: 4514

Client Sample ID: Lab Control Sample Dup
Prep Type: Dissolved

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron, Dissolved	1.00	1.04		mg/L		104	80 - 120	2	20

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 705-4416/1-A
Matrix: Water
Analysis Batch: 4580

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 4416

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0050	0.0013	mg/L		07/22/24 06:55	07/22/24 16:19	1
Iron	ND		0.040	0.018	mg/L		07/22/24 06:55	07/22/24 16:19	1

Lab Sample ID: LCS 705-4416/2-A
Matrix: Water
Analysis Batch: 4580

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 4416

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.100	0.0943		mg/L		94	80 - 120
Iron	1.00	1.01		mg/L		101	80 - 120

Lab Sample ID: 705-2266-3 MS
Matrix: Water
Analysis Batch: 4580

Client Sample ID: HAM-PT-08-0718-UNF
Prep Type: Total Recoverable
Prep Batch: 4416

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.29		0.100	0.388		mg/L		100	75 - 125
Iron	8.8		1.00	9.96	4	mg/L		117	75 - 125

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 705-2266-3 MSD
Matrix: Water
Analysis Batch: 4580

Client Sample ID: HAM-PT-08-0718-UNF
Prep Type: Total Recoverable
Prep Batch: 4416

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	0.29		0.100	0.399		mg/L		111	75 - 125	3	20
Iron	8.8		1.00	9.67	4	mg/L		89	75 - 125	3	20

Lab Sample ID: MB 705-4418/1-B
Matrix: Water
Analysis Batch: 4564

Client Sample ID: Method Blank
Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic, Dissolved	ND		0.0050	0.0013	mg/L			07/22/24 13:58	1
Iron, Dissolved	ND		0.040	0.018	mg/L			07/22/24 13:58	1

Lab Sample ID: LCS 705-4418/2-B
Matrix: Water
Analysis Batch: 4564

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic, Dissolved	0.100	0.103		mg/L		103	80 - 120
Iron, Dissolved	1.00	0.825		mg/L		83	80 - 120

Lab Sample ID: LCSD 705-4418/3-B
Matrix: Water
Analysis Batch: 4564

Client Sample ID: Lab Control Sample Dup
Prep Type: Dissolved

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic, Dissolved	0.100	0.117		mg/L		117	80 - 120	13	20
Iron, Dissolved	1.00	0.833		mg/L		83	80 - 120	1	20

Lab Chronicle

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-2266-1

Client Sample ID: HAM-PT-07-0718-UNF
Lab Sample ID: 705-2266-1
Date Collected: 07/18/24 14:05
Matrix: Water
Date Received: 07/19/24 14:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3010A			4417	BR	EET ATL	07/22/24 07:02
Total/NA	Analysis	6010D		1	4541	DAB	EET ATL	07/22/24 13:18
Total Recoverable	Prep	3005A			4416	BR	EET ATL	07/22/24 06:55
Total Recoverable	Analysis	6020B		1	4580	IF	EET ATL	07/22/24 16:47

Client Sample ID: HAM-PT-07-0718-FIL
Lab Sample ID: 705-2266-2
Date Collected: 07/18/24 14:05
Matrix: Water
Date Received: 07/19/24 14:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Analysis	6010D		1	4514	DAB	EET ATL	07/22/24 12:07
Dissolved	Analysis	6020B		1	4564	AD	EET ATL	07/22/24 14:05
Dissolved	Analysis	6020B		1	4600	IF	EET ATL	07/22/24 19:05

Client Sample ID: HAM-PT-08-0718-UNF
Lab Sample ID: 705-2266-3
Date Collected: 07/18/24 20:52
Matrix: Water
Date Received: 07/19/24 14:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3010A			4417	BR	EET ATL	07/22/24 07:02
Total/NA	Analysis	6010D		1	4541	DAB	EET ATL	07/22/24 13:33
Total Recoverable	Prep	3005A			4416	BR	EET ATL	07/22/24 06:55
Total Recoverable	Analysis	6020B		1	4580	IF	EET ATL	07/22/24 16:27

Client Sample ID: HAM-PT-08-0718-FIL
Lab Sample ID: 705-2266-4
Date Collected: 07/18/24 20:52
Matrix: Water
Date Received: 07/19/24 14:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Analysis	6010D		1	4514	DAB	EET ATL	07/22/24 12:10
Dissolved	Analysis	6020B		1	4564	AD	EET ATL	07/22/24 14:09
Dissolved	Analysis	6020B		1	4600	IF	EET ATL	07/22/24 19:09

Client Sample ID: HAM-PT-13-0718-UNF
Lab Sample ID: 705-2266-5
Date Collected: 07/18/24 11:52
Matrix: Water
Date Received: 07/19/24 14:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3010A			4417	BR	EET ATL	07/22/24 07:02
Total/NA	Analysis	6010D		1	4541	DAB	EET ATL	07/22/24 13:36
Total Recoverable	Prep	3005A			4416	BR	EET ATL	07/22/24 06:55
Total Recoverable	Analysis	6020B		1	4580	IF	EET ATL	07/22/24 16:51

Lab Chronicle

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-2266-1

Client Sample ID: HAM-PT-13-0718-FIL
Lab Sample ID: 705-2266-6
Date Collected: 07/18/24 11:52
Matrix: Water
Date Received: 07/19/24 14:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Analysis	6010D		1	4514	DAB	EET ATL	07/22/24 12:13
Dissolved	Analysis	6020B		1	4564	AD	EET ATL	07/22/24 14:12
Dissolved	Analysis	6020B		1	4600	IF	EET ATL	07/22/24 19:13

Client Sample ID: HAM-PT-14-0718-UNF
Lab Sample ID: 705-2266-7
Date Collected: 07/18/24 16:37
Matrix: Water
Date Received: 07/19/24 14:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3010A			4417	BR	EET ATL	07/22/24 07:02
Total/NA	Analysis	6010D		1	4541	DAB	EET ATL	07/22/24 13:39
Total Recoverable	Prep	3005A			4416	BR	EET ATL	07/22/24 06:55
Total Recoverable	Analysis	6020B		1	4580	IF	EET ATL	07/22/24 17:11

Client Sample ID: HAM-PT-14-0718-FIL
Lab Sample ID: 705-2266-8
Date Collected: 07/18/24 16:37
Matrix: Water
Date Received: 07/19/24 14:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Analysis	6010D		1	4514	DAB	EET ATL	07/22/24 12:15
Dissolved	Analysis	6020B		1	4564	AD	EET ATL	07/22/24 14:14
Dissolved	Analysis	6020B		1	4600	IF	EET ATL	07/22/24 19:17

Client Sample ID: HAM-PT-15-0718-UNF
Lab Sample ID: 705-2266-9
Date Collected: 07/18/24 18:18
Matrix: Water
Date Received: 07/19/24 14:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3010A			4417	BR	EET ATL	07/22/24 07:02
Total/NA	Analysis	6010D		1	4541	DAB	EET ATL	07/22/24 13:42
Total Recoverable	Prep	3005A			4416	BR	EET ATL	07/22/24 06:55
Total Recoverable	Analysis	6020B		1	4580	IF	EET ATL	07/22/24 17:15

Client Sample ID: HAM-PT-15-0718-FIL
Lab Sample ID: 705-2266-10
Date Collected: 07/18/24 18:18
Matrix: Water
Date Received: 07/19/24 14:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Analysis	6010D		1	4514	DAB	EET ATL	07/22/24 12:18
Dissolved	Analysis	6020B		1	4564	AD	EET ATL	07/22/24 14:16
Dissolved	Analysis	6020B		1	4600	IF	EET ATL	07/22/24 19:21

Laboratory References:
EET ATL = Eurofins Atlanta, 3080 Presidential Dr, Atlanta, GA 30340, TEL (770)457-8177

Accreditation/Certification Summary

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-2266-1

Laboratory: Eurofins Atlanta

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E87582	06-30-25

Method Summary

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-2266-1

Method	Method Description	Protocol	Laboratory
6010D	Metals (ICP)	SW846	EET ATL
6020B	Metals (ICP/MS)	SW846	EET ATL
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET ATL
3010A	Preparation, Total Metals	SW846	EET ATL

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET ATL = Eurofins Atlanta, 3080 Presidential Dr, Atlanta, GA 30340, TEL (770)457-8177

Sample Summary

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-2266-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
705-2266-1	HAM-PT-07-0718-UNF	Water	07/18/24 14:05	07/19/24 14:14
705-2266-2	HAM-PT-07-0718-FIL	Water	07/18/24 14:05	07/19/24 14:14
705-2266-3	HAM-PT-08-0718-UNF	Water	07/18/24 20:52	07/19/24 14:14
705-2266-4	HAM-PT-08-0718-FIL	Water	07/18/24 20:52	07/19/24 14:14
705-2266-5	HAM-PT-13-0718-UNF	Water	07/18/24 11:52	07/19/24 14:14
705-2266-6	HAM-PT-13-0718-FIL	Water	07/18/24 11:52	07/19/24 14:14
705-2266-7	HAM-PT-14-0718-UNF	Water	07/18/24 16:37	07/19/24 14:14
705-2266-8	HAM-PT-14-0718-FIL	Water	07/18/24 16:37	07/19/24 14:14
705-2266-9	HAM-PT-15-0718-UNF	Water	07/18/24 18:18	07/19/24 14:14
705-2266-10	HAM-PT-15-0718-FIL	Water	07/18/24 18:18	07/19/24 14:14

Login Sample Receipt Checklist

Client: Geosyntec Consultants Inc

Job Number: 705-2266-1

Login Number: 2266
List Number: 1
Creator: Stephens, Andrena

List Source: Eurofins Atlanta

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	False	Limited volume received.
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

END OF REPORT

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ANALYTICAL REPORT

PREPARED FOR

Attn: Kip Gray
Geosyntec Consultants Inc
1255 Roberts Blvd. NW
Suite 200
Kennesaw, Georgia 30144

Generated 7/25/2024 6:03:35 PM

JOB DESCRIPTION

Plant Hammond

JOB NUMBER

705-2571-1

Eurofins Atlanta
3080 Presidential Dr
Atlanta GA 30340

See page two for job notes and contact information.

myEOL

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization

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Authorized for release by
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Designee for
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Table of Contents

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Definitions/Glossary

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-2571-1

Qualifiers

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Eurofins Atlanta
3080 Presidential Dr
Atlanta, GA 30340
Phone (770) 457-8177

Chain of Custody Record

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Client Information	Sampler: Zari Webb	Lab PM: David Fuller / Phone: 770-344-8986	Carrier Tracking No(s):	COC No:
Client Contact: Kip Gray	Phone: 404-434-2074	E-Mail: David.Fuller@et.eurofinsus.com	State of Origin: GA	Page: Page 1 of 1
Company: Geosyntec Consultants Inc	PWSID:	Analysis Requested		Job #:
Address: 1255 Roberts Blvd, NW Suite 200	Due Date Requested:			Preservation Codes: D - HNO3
City: Kennesaw	TAT Requested (days): RUSH / ~~1 Day TAT~~ Same day			
State, Zip: GA, 30144	Compliance Project: Δ Yes Δ No			
Phone:	Lab Project #: 70500911 (DO NOT REMOVE)			705.2571 COC
Email: Kip.Gray@Geosyntec.com	PO #:			Other
Project Name: Plant Hammond	Project #:			
Task Code: Task Code#	SSOW#			

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (w=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Preservation Code:	6010D - Total Boron	6020B - Total Arsenic and Iron	6020B - Total Iron and Molybdenum	6010D - Dissolved Boron - Field Filtered (FF)	6020B - Dissolved Arsenic and Iron (FF)	6020B - Dissolved Iron and Molybdenum (FF)	Special Instructions/Note:
HAM-PT-08-7-24-UNF-AM	7/24/24	900	G	W		X	X					
HAM-PT-08-7-24-FIL-AM	7/24/24	900	G	W					X	X		
HAM-PT-14-7-24-UNF-AM	7/24/24	900	G	W		X	X					
HAM-PT-14-7-24-FIL-AM	7/24/24	900	G	W					X	X		
HAM-PT-11-7-24-UNF-AM	7/24/24	1000	G	W		X		X				
HAM-PT-11-7-24-FIL-AM	7/24/24	1000	G	W					X		X	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment: Courier

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Zari Webb	7/24/2024 1116	Geosyntec		7/24 11:16AM	
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
	7/24 1:05PM			7/24/24 13:06	
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
			0.6°C #2665		

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks

Eurofins Atlanta
3960 Presidential Dr
Atlanta, GA 30340
Phone (770) 457-8177

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Zari Webb	Lab PM: David Fuller / Phone 770-344-8986	Carrier Tracking No(s):	COC No:
Client Contact: Kip Gray	Phone: 404-434-2074	E-Mail: David.Fuller@et.eurofinsus.com	State of Origin: GA	Page: Page 1 of 1
Company: Geosynlec Consultants Inc	PWSID:	Analysis Requested		Job #:
Address: 1255 Roberts Blvd, NW Suite 200	Due Date Requested:			Preservation Codes: D - HNO3
City: Kennesaw	TAT Requested (days): RUSH / ~~1 Day TAT~~ Same day			
State, Zip: GA, 30144	Compliance Project: Δ Yes Δ No			
Phone:	Lab Project #: 70500911 (DO NOT REMOVE)			705-2571 COC
Email: Kip.Gray@Geosynlec.com	PO #:			
Project Name: Plant Hammond	Project #:			Other:
Task Code: Task Code#:	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010D - Total Boron	6020B - Total Arsenic and Iron	6020B - Total Iron and Molybdenum	6010D - Dissolved Boron - Field Filtered (FF)	6020B - Dissolved Arsenic and Iron (FF)	6020B - Dissolved Iron and Molybdenum (FF)	Special Instructions/Note:
			Preservation Code:		X	X	B	D	D	D	D	D	
HAM-PT-08-7-24-UNF-AM	7/24/24	900	G	W			X	X					
HAM-PT-08-7-24-FIL-AM	7/24/24	900	G	W						X	X		
HAM-PT-14-7-24-UNF-AM	7/24/24	900	G	W			X	X					
HAM-PT-14-7-24-FIL-AM	7/24/24	900	G	W						X	X		
HAM-PT-11-7-24-UNF-AM	7/24/24	1000	G	W			X		X				
HAM-PT-11-7-24-FIL-AM	7/24/24	1000	G	W						X		X	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For ____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by	Date	Time	Method of Shipment: Courier

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Zari Webb	7/24/2024 1116	Geosynlec		7/24 11:16AM	
Relinquished by	Date/Time: 7/24 1:05PM	Company	Received by: [illegible]	Date/Time: 7/24/24 13:06	Company
Relinquished by	Date/Time:	Company	Received by: 0.6°C #2665	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No:	Cooler Temperature(s) °C and Other Remarks:

Job Narrative
705-2571-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Receipt
The samples were received on 7/24/2024 1:06 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.6°C.

Metals
Method 6010D - Dissolved: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 705-4898 and analytical batch 705-5015.

Method 6020B - Total Recoverable: The method blank for preparation batch 705-4891 and analytical batch 705-5104 contained Molybdenum above the method detection limit (MDL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-2571-1

Client Sample ID: HAM-PT-08-7-24-UNF-AM

Date Collected: 07/24/24 09:00
Date Received: 07/24/24 13:06

Lab Sample ID: 705-2571-1

Matrix: Water

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.70		0.050	0.026	mg/L		07/24/24 14:40	07/25/24 11:27	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.30		0.0050	0.0013	mg/L		07/24/24 13:49	07/25/24 12:04	1
Iron	21		0.10	0.018	mg/L		07/24/24 13:49	07/25/24 12:04	1

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-2571-1

Client Sample ID: HAM-PT-08-7-24-FIL-AM

Lab Sample ID: 705-2571-2

Date Collected: 07/24/24 09:00

Matrix: Water

Date Received: 07/24/24 13:06

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron, Dissolved	0.71		0.050	0.026	mg/L			07/24/24 19:30	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic, Dissolved	0.26		0.0050	0.0013	mg/L			07/25/24 11:33	1
Iron, Dissolved	11		0.10	0.018	mg/L			07/25/24 11:33	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-2571-1

Client Sample ID: HAM-PT-14-7-24-UNF-AM

Date Collected: 07/24/24 09:00
Date Received: 07/24/24 13:06

Lab Sample ID: 705-2571-3

Matrix: Water

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.68		0.050	0.026	mg/L		07/24/24 14:40	07/25/24 11:49	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.21		0.0050	0.0013	mg/L		07/24/24 13:49	07/25/24 12:06	1
Iron	87		1.0	0.18	mg/L		07/24/24 13:49	07/25/24 12:24	10

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-2571-1

Client Sample ID: HAM-PT-14-7-24-FIL-AM

Date Collected: 07/24/24 09:00
Date Received: 07/24/24 13:06

Lab Sample ID: 705-2571-4

Matrix: Water

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron, Dissolved	0.61		0.050	0.026	mg/L			07/24/24 19:33	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic, Dissolved	0.051		0.0050	0.0013	mg/L			07/25/24 11:35	1
Iron, Dissolved	24		0.10	0.018	mg/L			07/25/24 11:35	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-2571-1

Client Sample ID: HAM-PT-11-7-24-UNF-AM

Date Collected: 07/24/24 10:00
Date Received: 07/24/24 13:06

Lab Sample ID: 705-2571-5

Matrix: Water

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	1.2		0.050	0.026	mg/L		07/24/24 14:40	07/25/24 11:52	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	4.9		0.040	0.018	mg/L		07/24/24 13:49	07/25/24 11:52	1
Molybdenum	0.045	B	0.0050	0.00069	mg/L		07/24/24 13:49	07/25/24 11:52	1

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-2571-1

Client Sample ID: HAM-PT-11-7-24-FIL-AM

Date Collected: 07/24/24 10:00
Date Received: 07/24/24 13:06

Lab Sample ID: 705-2571-6

Matrix: Water

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron, Dissolved	1.2		0.050	0.026	mg/L			07/24/24 19:36	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron, Dissolved	3.6		0.040	0.018	mg/L			07/25/24 11:38	1
Molybdenum, Dissolved	0.037		0.0050	0.00069	mg/L			07/25/24 11:38	1

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 705-4894/1-A
Matrix: Water
Analysis Batch: 5076

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 4894

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	ND		0.050	0.026	mg/L		07/24/24 14:40	07/25/24 11:21	1

Lab Sample ID: LCS 705-4894/2-A
Matrix: Water
Analysis Batch: 5076

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 4894

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1.00	1.03		mg/L		103	80 - 120

Lab Sample ID: 705-2571-1 MS
Matrix: Water
Analysis Batch: 5076

Client Sample ID: HAM-PT-08-7-24-UNF-AM
Prep Type: Total/NA
Prep Batch: 4894

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	0.70		1.00	1.69		mg/L		99	75 - 125

Lab Sample ID: 705-2571-1 MSD
Matrix: Water
Analysis Batch: 5076

Client Sample ID: HAM-PT-08-7-24-UNF-AM
Prep Type: Total/NA
Prep Batch: 4894

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron	0.70		1.00	1.71		mg/L		101	75 - 125	1	20

Lab Sample ID: MB 705-4898/1-A
Matrix: Water
Analysis Batch: 5015

Client Sample ID: Method Blank
Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron, Dissolved	ND		0.050	0.026	mg/L			07/24/24 19:14	1

Lab Sample ID: LCS 705-4898/2-A
Matrix: Water
Analysis Batch: 5015

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron, Dissolved	1.00	1.04		mg/L		104	80 - 120

Lab Sample ID: LCSD 705-4898/3-A
Matrix: Water
Analysis Batch: 5015

Client Sample ID: Lab Control Sample Dup
Prep Type: Dissolved

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron, Dissolved	1.00	1.03		mg/L		103	80 - 120	1	20

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 705-4891/1-A
Matrix: Water
Analysis Batch: 5104

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 4891

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Molybdenum	0.000965	J	0.0050	0.00069	mg/L		07/24/24 13:49	07/25/24 11:48	1
Arsenic	ND		0.0050	0.0013	mg/L		07/24/24 13:49	07/25/24 11:48	1
Iron	ND		0.040	0.018	mg/L		07/24/24 13:49	07/25/24 11:48	1

Lab Sample ID: LCS 705-4891/2-A
Matrix: Water
Analysis Batch: 5104

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 4891

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Molybdenum	0.100	0.119		mg/L		119	80 - 120
Arsenic	0.100	0.101		mg/L		101	80 - 120

Lab Sample ID: LCS 705-4891/2-A
Matrix: Water
Analysis Batch: 5104

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 4891

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	1.00	1.18		mg/L		118	80 - 120

Lab Sample ID: 705-2571-5 MS
Matrix: Water
Analysis Batch: 5104

Client Sample ID: HAM-PT-11-7-24-UNF-AM
Prep Type: Total Recoverable
Prep Batch: 4891

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Molybdenum	0.045	B	0.100	0.153		mg/L		107	75 - 125
Arsenic	ND		0.100	0.0925		mg/L		92	75 - 125
Iron	4.9		1.00	5.86		mg/L		96	75 - 125

Lab Sample ID: 705-2571-5 MSD
Matrix: Water
Analysis Batch: 5104

Client Sample ID: HAM-PT-11-7-24-UNF-AM
Prep Type: Total Recoverable
Prep Batch: 4891

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Molybdenum	0.045	B	0.100	0.156		mg/L		110	75 - 125	2	20
Arsenic	ND		0.100	0.0919		mg/L		92	75 - 125	1	20
Iron	4.9		1.00	6.00		mg/L		110	75 - 125	2	20

Lab Sample ID: MB 705-4896/1-A
Matrix: Water
Analysis Batch: 5107

Client Sample ID: Method Blank
Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Molybdenum, Dissolved	ND		0.0050	0.00069	mg/L			07/25/24 11:26	1
Arsenic, Dissolved	ND		0.0050	0.0013	mg/L			07/25/24 11:26	1
Iron, Dissolved	ND		0.10	0.018	mg/L			07/25/24 11:26	1

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-2571-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 705-4896/2-A
Matrix: Water
Analysis Batch: 5107

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Molybdenum, Dissolved			0.100	0.0976		mg/L		98	80 - 120		
Arsenic, Dissolved			0.100	0.0896		mg/L		90	80 - 120		
Iron, Dissolved			1.00	1.05		mg/L		105	80 - 120		

Lab Sample ID: LCSD 705-4896/3-A
Matrix: Water
Analysis Batch: 5107

Client Sample ID: Lab Control Sample Dup
Prep Type: Dissolved

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Molybdenum, Dissolved			0.100	0.0989		mg/L		99	80 - 120	1	20
Arsenic, Dissolved			0.100	0.0912		mg/L		91	80 - 120	2	20
Iron, Dissolved			1.00	1.08		mg/L		108	80 - 120	2	20

Lab Chronicle

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-2571-1

Client Sample ID: HAM-PT-08-7-24-UNF-AM
Lab Sample ID: 705-2571-1
Date Collected: 07/24/24 09:00
Matrix: Water
Date Received: 07/24/24 13:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3010A			4894	BR	EET ATL	07/24/24 14:40
Total/NA	Analysis	6010D		1	5076	DS	EET ATL	07/25/24 11:27
Total Recoverable	Prep	3005A			4891	BR	EET ATL	07/24/24 13:49
Total Recoverable	Analysis	6020B		1	5104	AD	EET ATL	07/25/24 12:04

Client Sample ID: HAM-PT-08-7-24-FIL-AM
Lab Sample ID: 705-2571-2
Date Collected: 07/24/24 09:00
Matrix: Water
Date Received: 07/24/24 13:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Analysis	6010D		1	5015	DS	EET ATL	07/24/24 19:30
Dissolved	Analysis	6020B		1	5107	AD	EET ATL	07/25/24 11:33

Client Sample ID: HAM-PT-14-7-24-UNF-AM
Lab Sample ID: 705-2571-3
Date Collected: 07/24/24 09:00
Matrix: Water
Date Received: 07/24/24 13:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3010A			4894	BR	EET ATL	07/24/24 14:40
Total/NA	Analysis	6010D		1	5076	DS	EET ATL	07/25/24 11:49
Total Recoverable	Prep	3005A			4891	BR	EET ATL	07/24/24 13:49
Total Recoverable	Analysis	6020B		1	5104	AD	EET ATL	07/25/24 12:06
Total Recoverable	Prep	3005A			4891	BR	EET ATL	07/24/24 13:49
Total Recoverable	Analysis	6020B		10	5104	AD	EET ATL	07/25/24 12:24

Client Sample ID: HAM-PT-14-7-24-FIL-AM
Lab Sample ID: 705-2571-4
Date Collected: 07/24/24 09:00
Matrix: Water
Date Received: 07/24/24 13:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Analysis	6010D		1	5015	DS	EET ATL	07/24/24 19:33
Dissolved	Analysis	6020B		1	5107	AD	EET ATL	07/25/24 11:35

Client Sample ID: HAM-PT-11-7-24-UNF-AM
Lab Sample ID: 705-2571-5
Date Collected: 07/24/24 10:00
Matrix: Water
Date Received: 07/24/24 13:06

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3010A			4894	BR	EET ATL	07/24/24 14:40
Total/NA	Analysis	6010D		1	5076	DS	EET ATL	07/25/24 11:52
Total Recoverable	Prep	3005A			4891	BR	EET ATL	07/24/24 13:49
Total Recoverable	Analysis	6020B		1	5104	AD	EET ATL	07/25/24 11:52

Lab Chronicle

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-2571-1

Client Sample ID: HAM-PT-11-7-24-FIL-AM

Date Collected: 07/24/24 10:00
Date Received: 07/24/24 13:06

Lab Sample ID: 705-2571-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Analysis	6010D		1	5015	DS	EET ATL	07/24/24 19:36
Dissolved	Analysis	6020B		1	5107	AD	EET ATL	07/25/24 11:38

Laboratory References:

EET ATL = Eurofins Atlanta, 3080 Presidential Dr, Atlanta, GA 30340, TEL (770)457-8177

Accreditation/Certification Summary

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-2571-1

Laboratory: Eurofins Atlanta

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E87582	06-30-25

Method Summary

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-2571-1

Method	Method Description	Protocol	Laboratory
6010D	Metals (ICP)	SW846	EET ATL
6020B	Metals (ICP/MS)	SW846	EET ATL
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET ATL
3010A	Preparation, Total Metals	SW846	EET ATL

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET ATL = Eurofins Atlanta, 3080 Presidential Dr, Atlanta, GA 30340, TEL (770)457-8177

Sample Summary

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-2571-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
705-2571-1	HAM-PT-08-7-24-UNF-AM	Water	07/24/24 09:00	07/24/24 13:06
705-2571-2	HAM-PT-08-7-24-FIL-AM	Water	07/24/24 09:00	07/24/24 13:06
705-2571-3	HAM-PT-14-7-24-UNF-AM	Water	07/24/24 09:00	07/24/24 13:06
705-2571-4	HAM-PT-14-7-24-FIL-AM	Water	07/24/24 09:00	07/24/24 13:06
705-2571-5	HAM-PT-11-7-24-UNF-AM	Water	07/24/24 10:00	07/24/24 13:06
705-2571-6	HAM-PT-11-7-24-FIL-AM	Water	07/24/24 10:00	07/24/24 13:06

Login Sample Receipt Checklist

Client: Geosyntec Consultants Inc

Job Number: 705-2571-1

Login Number: 2571
List Number: 1
Creator: Bellinger, Arabia

List Source: Eurofins Atlanta

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	N/A	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

END OF REPORT

ANALYTICAL REPORT

PREPARED FOR

Attn: Kip Gray
Geosyntec Consultants Inc
1255 Roberts Blvd. NW
Suite 200
Kennesaw, Georgia 30144

Generated 7/26/2024 3:32:49 PM

JOB DESCRIPTION

Plant Hammond

JOB NUMBER

705-2662-1

Eurofins Atlanta
3080 Presidential Dr
Atlanta GA 30340

See page two for job notes and contact information.

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization

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Definitions/Glossary

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-2662-1

Qualifiers

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
V	Serial Dilution exceeds the control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Eurofins Atlanta
3080 Presidential Dr
Atlanta, GA 30340
Phone (770) 457-8177

Chain of Custody Record

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Client Information	Sampler: Zain Webb	Lab PM: David Fuller / Phone: 770-344-8986	Carrier Tracking No(s):	COC No:
Client Contact: Kip Gray	Phone: 404-434-2074	E-Mail: David.Fuller@et.eurofinsus.com	State of Origin: GA	Page: Page 1 of 1
Company: Geosyntec Consultants Inc	PWSID:	Analysis Requested		Job #:
Address: 1255 Roberts Blvd, NW Suite 200	Due Date Requested:			Preservation Codes: B - HNO3
City: Kennesaw	TAT Requested (days): RUSH / ~~1 Day TAT~~			
State, Zip: GA, 30144	Compliance Project: Δ Yes Δ No			
Phone:	Lab Project #: 70500911 (DO NOT REMOVE)			
Email: Kip.Gray@Geosyntec.com	PO #:			
Project Name: Plant Hammond	Project #:			
Task Code: Task Code#	SSOW#:			Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Solid, Wastewater, BT=Tissue, A=Air)	Preservation Code:	6010D - Total Boron	6020B - Total Arsenic and Iron	6020B - Total Iron and Molybdenum	6010D - Dissolved Boron - Field Filtered (FF)	6020B - Dissolved Arsenic and Iron (FF)	6020B - Dissolved Iron and Molybdenum (FF)	Special Instructions/Note:
						B	D	D	D	D	D	
HAM-PT-14-07-24-UNF-PM	7-24-2024	2000			N No	X	X	-	-	-	-	
HAM-PT-14-07-24-FIL-PM	7-24-2024	2000			Y Yes	-	-	-	-	X	X	-
HAM-PT-08-07-24-UNF-PM	7-24-2024	2000			N	X	X	-	-	-	-	
HAM-PT-08-07-24-FIL-PM	7-24-2024	2000			Y	-	-	-	-	X	X	-
HAM-PT-13-07-24-~~FIL~~ UNF-PM	7-24-2024	2000			N	X	X	-	-	-	-	
HAM-PT-13-07-24-FIL-PM	7-24-2024	2000			Y	-	-	-	-	X	X	-
HAM-PT-15-07-24-UNF-PM	7-24-2024	2000			N	X	X	-	-	-	-	
HAM-PT-15-07-24-FIL-PM	7-24-2024	2000			Y	-	-	-	-	X	X	-

705

705, 2862 COC

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For ____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
	7/25/24			7-25-24 730	
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
	7-25-24 9205			07 25 24 0905	Eurofins
Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks:	#2665 1.9°C

Job Narrative
705-2662-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Receipt
The samples were received on 7/25/2024 9:05 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.9°C.

Metals
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-2662-1

Client Sample ID: HAM-PT-14-07-24-UNF-PM

Date Collected: 07/24/24 20:00
Date Received: 07/25/24 09:05

Lab Sample ID: 705-2662-1

Matrix: Water

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.53		0.040	0.026	mg/L		07/25/24 10:28	07/25/24 15:22	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.21		0.0050	0.0013	mg/L		07/25/24 10:33	07/25/24 17:17	1
Iron	250		0.40	0.18	mg/L		07/25/24 10:33	07/25/24 17:05	10

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-2662-1

Client Sample ID: HAM-PT-14-07-24-FIL-PM

Lab Sample ID: 705-2662-2

Date Collected: 07/24/24 20:00

Matrix: Water

Date Received: 07/25/24 09:05

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron, Dissolved	0.37		0.040	0.026	mg/L			07/25/24 12:26	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic, Dissolved	0.0043	J	0.0050	0.0013	mg/L			07/25/24 14:38	1
Iron, Dissolved	71		0.40	0.18	mg/L			07/25/24 16:10	10

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-2662-1

Client Sample ID: HAM-PT-08-07-24-UNF-PM

Date Collected: 07/24/24 20:00
Date Received: 07/25/24 09:05

Lab Sample ID: 705-2662-3

Matrix: Water

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.63		0.040	0.026	mg/L		07/25/24 10:28	07/25/24 15:26	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.31		0.0050	0.0013	mg/L		07/25/24 10:33	07/25/24 17:07	1
Iron	23		0.040	0.018	mg/L		07/25/24 10:33	07/25/24 17:07	1

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-2662-1

Client Sample ID: HAM-PT-08-07-24-FIL-PM

Lab Sample ID: 705-2662-4

Date Collected: 07/24/24 20:00

Matrix: Water

Date Received: 07/25/24 09:05

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron, Dissolved	0.63		0.040	0.026	mg/L			07/25/24 12:29	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic, Dissolved	0.25		0.0050	0.0013	mg/L			07/25/24 14:40	1
Iron, Dissolved	9.3		0.040	0.018	mg/L			07/25/24 14:40	1

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-2662-1

Client Sample ID: HAM-PT-13-07-24-UNF-PM

Lab Sample ID: 705-2662-5

Date Collected: 07/24/24 20:00

Matrix: Water

Date Received: 07/25/24 09:05

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.39		0.040	0.026	mg/L		07/25/24 10:28	07/25/24 15:29	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.20		0.0050	0.0013	mg/L		07/25/24 10:33	07/25/24 17:09	1
Iron	66		0.40	0.18	mg/L		07/25/24 10:33	07/25/24 17:29	10

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-2662-1

Client Sample ID: HAM-PT-13-07-24-FIL-PM

Lab Sample ID: 705-2662-6

Date Collected: 07/24/24 20:00

Matrix: Water

Date Received: 07/25/24 09:05

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron, Dissolved	0.39		0.040	0.026	mg/L			07/25/24 12:32	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic, Dissolved	0.15		0.0050	0.0013	mg/L			07/25/24 14:42	1
Iron, Dissolved	51		0.40	0.18	mg/L			07/25/24 17:31	10

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-2662-1

Client Sample ID: HAM-PT-15-07-24-UNF-PM

Lab Sample ID: 705-2662-7

Date Collected: 07/24/24 20:00

Matrix: Water

Date Received: 07/25/24 09:05

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.65		0.040	0.026	mg/L		07/25/24 10:28	07/25/24 15:32	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.33		0.025	0.0066	mg/L		07/25/24 10:33	07/25/24 17:15	5
Iron	13		0.20	0.089	mg/L		07/25/24 10:33	07/25/24 17:15	5

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-2662-1

Client Sample ID: HAM-PT-15-07-24-FIL-PM

Lab Sample ID: 705-2662-8

Date Collected: 07/24/24 20:00

Matrix: Water

Date Received: 07/25/24 09:05

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron, Dissolved	0.64		0.040	0.026	mg/L			07/25/24 12:35	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic, Dissolved	0.36		0.025	0.0066	mg/L			07/25/24 16:28	5
Iron, Dissolved	12		0.20	0.089	mg/L			07/25/24 16:28	5

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 705-4894/1-A
Matrix: Water
Analysis Batch: 5076

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 4894

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	ND		0.040	0.026	mg/L		07/24/24 14:40	07/25/24 11:21	1

Lab Sample ID: LCS 705-4894/2-A
Matrix: Water
Analysis Batch: 5076

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 4894

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1.00	1.03		mg/L		103	80 - 120

Lab Sample ID: 705-2571-A-1-C MS
Matrix: Water
Analysis Batch: 5076

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 4894

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	0.70		1.00	1.69		mg/L		99	75 - 125

Lab Sample ID: 705-2571-A-1-D MSD
Matrix: Water
Analysis Batch: 5076

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 4894

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron	0.70		1.00	1.71		mg/L		101	75 - 125	1	20

Lab Sample ID: MB 705-4898/1-A
Matrix: Water
Analysis Batch: 5015

Client Sample ID: Method Blank
Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron, Dissolved	ND		0.040	0.026	mg/L			07/24/24 19:14	1

Lab Sample ID: LCS 705-4898/2-A
Matrix: Water
Analysis Batch: 5015

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron, Dissolved	1.00	1.04		mg/L		104	80 - 120

Lab Sample ID: LCSD 705-4898/3-A
Matrix: Water
Analysis Batch: 5015

Client Sample ID: Lab Control Sample Dup
Prep Type: Dissolved

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron, Dissolved	1.00	1.03		mg/L		103	80 - 120	1	20

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 705-4891/1-A
Matrix: Water
Analysis Batch: 5104

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 4891

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0050	0.0013	mg/L		07/24/24 13:49	07/25/24 11:48	1
Iron	ND		0.040	0.018	mg/L		07/24/24 13:49	07/25/24 11:48	1

Lab Sample ID: LCS 705-4891/2-A
Matrix: Water
Analysis Batch: 5104

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 4891

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.100	0.101		mg/L		101	80 - 120

Lab Sample ID: LCS 705-4891/2-A
Matrix: Water
Analysis Batch: 5104

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 4891

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	1.00	1.18		mg/L		118	80 - 120

Lab Sample ID: 705-2571-A-5-B MS
Matrix: Water
Analysis Batch: 5104

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 4891

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	ND		0.100	0.0925		mg/L		92	75 - 125
Iron	4.9		1.00	5.86	4	mg/L		96	75 - 125

Lab Sample ID: 705-2571-A-5-C MSD
Matrix: Water
Analysis Batch: 5104

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 4891

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	ND		0.100	0.0919		mg/L		92	75 - 125	1	20
Iron	4.9		1.00	6.00	4	mg/L		110	75 - 125	2	20

Lab Sample ID: MB 705-4896/1-A
Matrix: Water
Analysis Batch: 5107

Client Sample ID: Method Blank
Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic, Dissolved	ND		0.0050	0.0013	mg/L			07/25/24 11:26	1
Iron, Dissolved	ND		0.040	0.018	mg/L			07/25/24 11:26	1

Lab Sample ID: LCS 705-4896/2-A
Matrix: Water
Analysis Batch: 5107

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic, Dissolved	0.100	0.0896		mg/L		90	80 - 120
Iron, Dissolved	1.00	1.05		mg/L		105	80 - 120

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-2662-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCSD 705-4896/3-A
Matrix: Water
Analysis Batch: 5107

Client Sample ID: Lab Control Sample Dup
Prep Type: Dissolved

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic, Dissolved			0.100	0.0912		mg/L		91	80 - 120	2	20
Iron, Dissolved			1.00	1.08		mg/L		108	80 - 120	2	20

Lab Chronicle

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-2662-1

Client Sample ID: HAM-PT-14-07-24-UNF-PM
Lab Sample ID: 705-2662-1
Date Collected: 07/24/24 20:00
Matrix: Water
Date Received: 07/25/24 09:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3010A			4894	BR	EET ATL	07/25/24 10:28
Total/NA	Analysis	6010D		1	5139	DS	EET ATL	07/25/24 15:22
Total Recoverable	Prep	3005A			4891	BR	EET ATL	07/25/24 10:33
Total Recoverable	Analysis	6020B		10	5174	AD	EET ATL	07/25/24 17:05
Total Recoverable	Prep	3005A			4891	BR	EET ATL	07/25/24 10:33
Total Recoverable	Analysis	6020B		1	5174	AD	EET ATL	07/25/24 17:17

Client Sample ID: HAM-PT-14-07-24-FIL-PM
Lab Sample ID: 705-2662-2
Date Collected: 07/24/24 20:00
Matrix: Water
Date Received: 07/25/24 09:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Analysis	6010D		1	5094	DS	EET ATL	07/25/24 12:26
Dissolved	Analysis	6020B		1	5173	AD	EET ATL	07/25/24 14:38
Dissolved	Analysis	6020B		10	5173	AD	EET ATL	07/25/24 16:10

Client Sample ID: HAM-PT-08-07-24-UNF-PM
Lab Sample ID: 705-2662-3
Date Collected: 07/24/24 20:00
Matrix: Water
Date Received: 07/25/24 09:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3010A			4894	BR	EET ATL	07/25/24 10:28
Total/NA	Analysis	6010D		1	5139	DS	EET ATL	07/25/24 15:26
Total Recoverable	Prep	3005A			4891	BR	EET ATL	07/25/24 10:33
Total Recoverable	Analysis	6020B		1	5174	AD	EET ATL	07/25/24 17:07

Client Sample ID: HAM-PT-08-07-24-FIL-PM
Lab Sample ID: 705-2662-4
Date Collected: 07/24/24 20:00
Matrix: Water
Date Received: 07/25/24 09:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Analysis	6010D		1	5094	DS	EET ATL	07/25/24 12:29
Dissolved	Analysis	6020B		1	5173	AD	EET ATL	07/25/24 14:40

Client Sample ID: HAM-PT-13-07-24-UNF-PM
Lab Sample ID: 705-2662-5
Date Collected: 07/24/24 20:00
Matrix: Water
Date Received: 07/25/24 09:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3010A			4894	BR	EET ATL	07/25/24 10:28
Total/NA	Analysis	6010D		1	5139	DS	EET ATL	07/25/24 15:29
Total Recoverable	Prep	3005A			4891	BR	EET ATL	07/25/24 10:33
Total Recoverable	Analysis	6020B		1	5174	AD	EET ATL	07/25/24 17:09
Total Recoverable	Prep	3005A			4891	BR	EET ATL	07/25/24 10:33
Total Recoverable	Analysis	6020B		10	5174	AD	EET ATL	07/25/24 17:29

Lab Chronicle

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-2662-1

Client Sample ID: HAM-PT-13-07-24-FIL-PM

Lab Sample ID: 705-2662-6

Date Collected: 07/24/24 20:00
Matrix: Water
Date Received: 07/25/24 09:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Analysis	6010D		1	5094	DS	EET ATL	07/25/24 12:32
Dissolved	Analysis	6020B		1	5173	AD	EET ATL	07/25/24 14:42
Dissolved	Analysis	6020B		10	5173	AD	EET ATL	07/25/24 17:31

Client Sample ID: HAM-PT-15-07-24-UNF-PM

Lab Sample ID: 705-2662-7

Date Collected: 07/24/24 20:00
Matrix: Water
Date Received: 07/25/24 09:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3010A			4894	BR	EET ATL	07/25/24 10:28
Total/NA	Analysis	6010D		1	5139	DS	EET ATL	07/25/24 15:32
Total Recoverable	Prep	3005A			4891	BR	EET ATL	07/25/24 10:33
Total Recoverable	Analysis	6020B		5	5174	AD	EET ATL	07/25/24 17:15

Client Sample ID: HAM-PT-15-07-24-FIL-PM

Lab Sample ID: 705-2662-8

Date Collected: 07/24/24 20:00
Matrix: Water
Date Received: 07/25/24 09:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Analysis	6010D		1	5094	DS	EET ATL	07/25/24 12:35
Dissolved	Analysis	6020B		5	5173	AD	EET ATL	07/25/24 16:28

Laboratory References:

EET ATL = Eurofins Atlanta, 3080 Presidential Dr, Atlanta, GA 30340, TEL (770)457-8177

Accreditation/Certification Summary

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-2662-1

Laboratory: Eurofins Atlanta

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E87582	06-30-25

Method Summary

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-2662-1

Method	Method Description	Protocol	Laboratory
6010D	Metals (ICP)	SW846	EET ATL
6020B	Metals (ICP/MS)	SW846	EET ATL
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET ATL
3010A	Preparation, Total Metals	SW846	EET ATL

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET ATL = Eurofins Atlanta, 3080 Presidential Dr, Atlanta, GA 30340, TEL (770)457-8177

Sample Summary

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-2662-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
705-2662-1	HAM-PT-14-07-24-UNF-PM	Water	07/24/24 20:00	07/25/24 09:05
705-2662-2	HAM-PT-14-07-24-FIL-PM	Water	07/24/24 20:00	07/25/24 09:05
705-2662-3	HAM-PT-08-07-24-UNF-PM	Water	07/24/24 20:00	07/25/24 09:05
705-2662-4	HAM-PT-08-07-24-FIL-PM	Water	07/24/24 20:00	07/25/24 09:05
705-2662-5	HAM-PT-13-07-24-UNF-PM	Water	07/24/24 20:00	07/25/24 09:05
705-2662-6	HAM-PT-13-07-24-FIL-PM	Water	07/24/24 20:00	07/25/24 09:05
705-2662-7	HAM-PT-15-07-24-UNF-PM	Water	07/24/24 20:00	07/25/24 09:05
705-2662-8	HAM-PT-15-07-24-FIL-PM	Water	07/24/24 20:00	07/25/24 09:05

Login Sample Receipt Checklist

Client: Geosyntec Consultants Inc

Job Number: 705-2662-1

Login Number: 2662
List Number: 1
Creator: Pomuti, Carmen

List Source: Eurofins Atlanta

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	Not present
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	N/A	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

END OF REPORT

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ANALYTICAL REPORT

PREPARED FOR

Attn: Kip Gray
Geosyntec Consultants Inc
1255 Roberts Blvd. NW
Suite 200
Kennesaw, Georgia 30144

Generated 7/30/2024 12:51:25 PM

JOB DESCRIPTION

Plant Hammond

JOB NUMBER

705-2786-1

Eurofins Atlanta
3080 Presidential Dr
Atlanta GA 30340

See page two for job notes and contact information.

my EOL

Eurofins Atlanta

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization

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Authorized for release by
David Fuller, Project Manager
David.Fuller@et.eurofinsus.com
(770)344-8986

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Definitions/Glossary

Client: Geosyntec Consultants Inc
Job ID: 705-2786-1
Project/Site: Plant Hammond

Qualifiers

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Eurofins Atlanta
3080 Presidential Dr
Atlanta, GA 30340
Phone (770) 457-8177

Chain of Custody Record

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Client Information	Sampler: Zain Webb	Lab PM: David Fuller / Phone 770-344-8986	Carrier Tracking No(s):	COC No:
Client Contact: Kip Gray	Phone: 404-434-2074	E-Mail: David.Fuller@et.eurofinsus.com	State of Origin: GA	Page: Page 1 of 1
Company: Geosyntec Consultants Inc	PWSID:	Analysis Requested		Job #:
Address: 1255 Roberts Blvd, NW Suite 200	Due Date Requested:			Preservation Codes: D - HNO3
City: Kennesaw	TAT Requested (days): RUSH / 1 Day TAT			
State, Zip: GA, 30144	Compliance Project: Δ Yes Δ No			
Phone:	Lab Project #: 70500911 (DO NOT REMOVE)			
Email: Kip.Gray@Geosyntec.com	PO #:			Other:
Project Name: Plant Hammond	Project #:			
Task Code: Task Code#	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010D - Total Boron	6020B - Total Arsenic and Iron	6020B - Total Iron and Molybdenum		6010D - Dissolved Boron - Field Filtered (FF)	6020B - Dissolved Arsenic and Iron (FF)	6020B - Dissolved Iron and Molybdenum (FF)						Total Number of Containers	Special Instructions/Note:
			Preservation Code:				D	D	D		D	D	D							
HAM-PT-14-07-25-UNF	7-25-2024	1440	G	W			X	X	-		-	-	-							
HAM-PT-14-07-25-FIL	7-25-2024	1440	G	W			-	-	-		X	X	-							
HAM-PT-13-07-25-UNF	7-25-2024	1520	G	W			X	X	-		-	-	-							
HAM-PT-15-07-25-UNF	7-25-2024	1640	G	W			X	X	-		-	-	-							
HAM-PT-08-07-25-UNF	7-25-2024	1650	G	W			X	X	-		-	-	-							
	24	7-25-24																		

705 2786 COC

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I, II, III, IV, Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by:	Date	Time	Method of Shipment: Courier			
Relinquished by:	Date/Time: 7-26-24 700	Company	Received by:	Date/Time: 7-26-24 7:00	Company
Relinquished by:	Date/Time: 7-26-24 850	Company	Received by: Anna Neal	Date/Time: 7-26-24 850	Company: Eurofins
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks: # 2665 29°C

Job Narrative
705-2786-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Receipt
The samples were received on 7/26/2024 8:50 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.9°C.

Metals
Method 6020B - Total Recoverable: The matrix spike / matrix spike duplicate (MS/MSD) Iron recoveries for the following sample associated with preparation batch 705-5244 and analytical batch 705-5561 were outside control limits: HAM-PT-14-07-25-UNF (705-2786-1), HAM-PT-13-07-25-UNF (705-2786-3), HAM-PT-15-07-25-UNF (705-2786-4) and HAM-PT-08-07-25-UNF (705-2786-5). The associated laboratory control sample (LCS) recovery met acceptance criteria.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-2786-1

Client Sample ID: HAM-PT-14-07-25-UNF

Lab Sample ID: 705-2786-1

Date Collected: 07/25/24 14:40

Matrix: Water

Date Received: 07/26/24 08:50

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.60		0.040	0.026	mg/L		07/26/24 11:22	07/26/24 15:38	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.20		0.050	0.013	mg/L		07/26/24 11:15	07/29/24 14:17	10
Iron	130		0.40	0.18	mg/L		07/26/24 11:15	07/29/24 14:17	10

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-2786-1

Client Sample ID: HAM-PT-14-07-25-FIL

Lab Sample ID: 705-2786-2

Date Collected: 07/25/24 14:40

Matrix: Water

Date Received: 07/26/24 08:50

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron, Dissolved	0.58		0.040	0.026	mg/L			07/26/24 15:01	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic, Dissolved	0.056		0.025	0.0066	mg/L			07/26/24 18:35	5
Iron, Dissolved	28		0.40	0.18	mg/L			07/29/24 14:29	10

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-2786-1

Client Sample ID: HAM-PT-13-07-25-UNF

Lab Sample ID: 705-2786-3

Date Collected: 07/25/24 15:20

Matrix: Water

Date Received: 07/26/24 08:50

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.55		0.040	0.026	mg/L		07/26/24 11:22	07/26/24 15:20	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.30		0.0050	0.0013	mg/L		07/26/24 11:15	07/29/24 14:21	1
Iron	38		0.040	0.018	mg/L		07/26/24 11:15	07/29/24 14:21	1

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-2786-1

Client Sample ID: HAM-PT-15-07-25-UNF

Lab Sample ID: 705-2786-4

Date Collected: 07/25/24 16:40

Matrix: Water

Date Received: 07/26/24 08:50

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.69		0.040	0.026	mg/L		07/26/24 11:22	07/26/24 15:41	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.48		0.0050	0.0013	mg/L		07/26/24 11:15	07/29/24 14:25	1
Iron	18		0.040	0.018	mg/L		07/26/24 11:15	07/29/24 14:25	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-2786-1

Client Sample ID: HAM-PT-08-07-25-UNF

Lab Sample ID: 705-2786-5

Date Collected: 07/25/24 16:50

Matrix: Water

Date Received: 07/26/24 08:50

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.67		0.040	0.026	mg/L		07/26/24 11:22	07/26/24 15:44	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.35		0.0050	0.0013	mg/L		07/26/24 11:15	07/29/24 14:05	1
Iron	17		0.040	0.018	mg/L		07/26/24 11:15	07/29/24 14:05	1

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 705-5247/1-A
Matrix: Water
Analysis Batch: 5326

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 5247

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	ND		0.040	0.026	mg/L		07/26/24 11:22	07/26/24 15:08	1

Lab Sample ID: LCS 705-5247/2-A
Matrix: Water
Analysis Batch: 5326

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 5247

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1.00	1.03		mg/L		103	80 - 120

Lab Sample ID: 705-2786-3 MS
Matrix: Water
Analysis Batch: 5326

Client Sample ID: HAM-PT-13-07-25-UNF
Prep Type: Total/NA
Prep Batch: 5247

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	0.55		1.00	1.62		mg/L		107	75 - 125

Lab Sample ID: 705-2786-3 MSD
Matrix: Water
Analysis Batch: 5326

Client Sample ID: HAM-PT-13-07-25-UNF
Prep Type: Total/NA
Prep Batch: 5247

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron	0.55		1.00	1.64		mg/L		109	75 - 125	1	20

Lab Sample ID: MB 705-5287/1-A
Matrix: Water
Analysis Batch: 5319

Client Sample ID: Method Blank
Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron, Dissolved	ND		0.040	0.026	mg/L			07/26/24 14:52	1

Lab Sample ID: LCS 705-5287/2-A
Matrix: Water
Analysis Batch: 5319

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron, Dissolved	1.00	1.04		mg/L		104	80 - 120

Lab Sample ID: LCSD 705-5287/3-A
Matrix: Water
Analysis Batch: 5319

Client Sample ID: Lab Control Sample Dup
Prep Type: Dissolved

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron, Dissolved	1.00	1.02		mg/L		102	80 - 120	2	20

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 705-5244/1-A
Matrix: Water
Analysis Batch: 5561

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 5244

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0050	0.0013	mg/L		07/26/24 11:15	07/29/24 13:57	1
Iron	ND		0.040	0.018	mg/L		07/26/24 11:15	07/29/24 13:57	1

Lab Sample ID: LCS 705-5244/2-A
Matrix: Water
Analysis Batch: 5561

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 5244

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.100	0.102		mg/L		102	80 - 120
Iron	1.00	1.06		mg/L		106	80 - 120

Lab Sample ID: 705-2786-5 MS
Matrix: Water
Analysis Batch: 5561

Client Sample ID: HAM-PT-08-07-25-UNF
Prep Type: Total Recoverable
Prep Batch: 5244

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.35		0.100	0.438		mg/L		88	75 - 125
Iron	17		1.00	16.9	4	mg/L		-13	75 - 125

Lab Sample ID: 705-2786-5 MSD
Matrix: Water
Analysis Batch: 5561

Client Sample ID: HAM-PT-08-07-25-UNF
Prep Type: Total Recoverable
Prep Batch: 5244

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	0.35		0.100	0.430		mg/L		80	75 - 125	2	20
Iron	17		1.00	16.9	4	mg/L		-8	75 - 125	0	20

Lab Sample ID: MB 705-5294/1-A
Matrix: Water
Analysis Batch: 5452

Client Sample ID: Method Blank
Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic, Dissolved	ND		0.0050	0.0013	mg/L			07/26/24 18:19	1
Iron, Dissolved	ND		0.040	0.018	mg/L			07/26/24 18:19	1

Lab Sample ID: LCS 705-5294/2-A
Matrix: Water
Analysis Batch: 5452

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic, Dissolved	0.100	0.0893		mg/L		89	80 - 120
Iron, Dissolved	1.00	0.862		mg/L		86	80 - 120

Lab Sample ID: LCSD 705-5294/3-A
Matrix: Water
Analysis Batch: 5452

Client Sample ID: Lab Control Sample Dup
Prep Type: Dissolved

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic, Dissolved	0.100	0.0817		mg/L		82	80 - 120	9	20
Iron, Dissolved	1.00	0.858		mg/L		86	80 - 120	1	20

Lab Chronicle

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-2786-1

Client Sample ID: HAM-PT-14-07-25-UNF
Lab Sample ID: 705-2786-1
Date Collected: 07/25/24 14:40
Matrix: Water
Date Received: 07/26/24 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3010A			5247	EF	EET ATL	07/26/24 11:22
Total/NA	Analysis	6010D		1	5326	DAB	EET ATL	07/26/24 15:38
Total Recoverable	Prep	3005A			5244	BL	EET ATL	07/26/24 11:15
Total Recoverable	Analysis	6020B		10	5561	IF	EET ATL	07/29/24 14:17

Client Sample ID: HAM-PT-14-07-25-FIL
Lab Sample ID: 705-2786-2
Date Collected: 07/25/24 14:40
Matrix: Water
Date Received: 07/26/24 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Analysis	6010D		1	5319	DS	EET ATL	07/26/24 15:01
Dissolved	Analysis	6020B		5	5452	IF	EET ATL	07/26/24 18:35
Dissolved	Analysis	6020B		10	5561	IF	EET ATL	07/29/24 14:29

Client Sample ID: HAM-PT-13-07-25-UNF
Lab Sample ID: 705-2786-3
Date Collected: 07/25/24 15:20
Matrix: Water
Date Received: 07/26/24 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3010A			5247	EF	EET ATL	07/26/24 11:22
Total/NA	Analysis	6010D		1	5326	DAB	EET ATL	07/26/24 15:20
Total Recoverable	Prep	3005A			5244	BL	EET ATL	07/26/24 11:15
Total Recoverable	Analysis	6020B		1	5561	IF	EET ATL	07/29/24 14:21

Client Sample ID: HAM-PT-15-07-25-UNF
Lab Sample ID: 705-2786-4
Date Collected: 07/25/24 16:40
Matrix: Water
Date Received: 07/26/24 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3010A			5247	EF	EET ATL	07/26/24 11:22
Total/NA	Analysis	6010D		1	5326	DAB	EET ATL	07/26/24 15:41
Total Recoverable	Prep	3005A			5244	BL	EET ATL	07/26/24 11:15
Total Recoverable	Analysis	6020B		1	5561	IF	EET ATL	07/29/24 14:25

Client Sample ID: HAM-PT-08-07-25-UNF
Lab Sample ID: 705-2786-5
Date Collected: 07/25/24 16:50
Matrix: Water
Date Received: 07/26/24 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3010A			5247	EF	EET ATL	07/26/24 11:22
Total/NA	Analysis	6010D		1	5326	DAB	EET ATL	07/26/24 15:44
Total Recoverable	Prep	3005A			5244	BL	EET ATL	07/26/24 11:15
Total Recoverable	Analysis	6020B		1	5561	IF	EET ATL	07/29/24 14:05

Laboratory References:

EET ATL = Eurofins Atlanta, 3080 Presidential Dr, Atlanta, GA 30340, TEL (770)457-8177

Accreditation/Certification Summary

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-2786-1

Laboratory: Eurofins Atlanta

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E87582	06-30-25

Method Summary

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-2786-1

Method	Method Description	Protocol	Laboratory
6010D	Metals (ICP)	SW846	EET ATL
6020B	Metals (ICP/MS)	SW846	EET ATL
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET ATL
3010A	Preparation, Total Metals	SW846	EET ATL

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET ATL = Eurofins Atlanta, 3080 Presidential Dr, Atlanta, GA 30340, TEL (770)457-8177

Sample Summary

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-2786-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
705-2786-1	HAM-PT-14-07-25-UNF	Water	07/25/24 14:40	07/26/24 08:50
705-2786-2	HAM-PT-14-07-25-FIL	Water	07/25/24 14:40	07/26/24 08:50
705-2786-3	HAM-PT-13-07-25-UNF	Water	07/25/24 15:20	07/26/24 08:50
705-2786-4	HAM-PT-15-07-25-UNF	Water	07/25/24 16:40	07/26/24 08:50
705-2786-5	HAM-PT-08-07-25-UNF	Water	07/25/24 16:50	07/26/24 08:50

Login Sample Receipt Checklist

Client: Geosyntec Consultants Inc

Job Number: 705-2786-1

Login Number: 2786

List Source: Eurofins Atlanta

List Number: 1

Creator: Pomuti, Carmen

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	N/A	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

END OF REPORT

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ANALYTICAL REPORT

PREPARED FOR

Attn: Kip Gray
Geosyntec Consultants Inc
1255 Roberts Blvd. NW
Suite 200
Kennesaw, Georgia 30144

Generated 7/30/2024 5:57:49 PM

JOB DESCRIPTION

Plant Hammond

JOB NUMBER

705-2894-1

Eurofins Atlanta
3080 Presidential Dr
Atlanta GA 30340

See page two for job notes and contact information.

myEOL

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization

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Authorized for release by
David Fuller, Project Manager
David.Fuller@et.eurofinsus.com
(770)344-8986

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Definitions/Glossary

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-2894-1

Qualifiers

Metals

Qualifier	Qualifier Description
^3-	Reporting Limit Check Standard is outside acceptance limits, low biased.
^5+	Linear Range Check (LRC) is outside acceptance limits, high biased.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Eurofins Atlanta
3080 Presidential Dr
Atlanta, GA 30340
Phone (770) 457-8177

Chain of Custody Record

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Client Information	Sampler: Zain Webb	Lab PM: David Fuller / Phone 770-344-8986	Carrier Tracking No(s):	COC No:
Client Contact: Kip Gray	Phone: 404-434-2074	E-Mail: David Fuller@et eurofinsus com	State of Origin: GA	Page: Page 1 of 1
Company: Geosyntec Consultants Inc	PWSID			Job #:
Address: 1255 Roberts Blvd, NW Suite 200	Due Date Requested			
City: Kennesaw	TAT Requested (days): RUSH / 1 Day TAT			
State, Zip: GA, 30144	Compliance Project: Δ Yes Δ No			
Phone:	Lab Project #: 70500911 (DO NOT REMOVE)			
Email: Kip.Gray@Geosyntec.com	PO #: 100061163			
Project Name: Plant Hammond	Project #: GW6581G			
Task Code: Task Code#:	SSOW#:			

Analysis Requested

Preservation Codes: D - HNO3

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010D - Total Boron	6020B - Total Arsenic and Iron	6020B - Total Iron and Molybdenum		6010D - Dissolved Boron - Field Filtered (FF)	6020B - Dissolved Arsenic and Iron (FF)	6020B - Dissolved Iron and Molybdenum (FF)							Total Number of containers	Special Instructions/Note:
			Preservation Code:				D	D	D		D	D	D								
HAM-PT-14-07-26-UNF-AM	7/26/24	1010	G	W	N	N	X	X	-		-	-	-								
HAM-PT-14-07-26-FIL-AM	7/26/24	1010	G	W	N	N	-	-	-		X	X	-								
HAM-PT-14-07-26-UNF-PM	7/26/24	2000	G	W	N	N	X	X	-		-	-	-								
HAM-PT-14-07-26-FIL-PM	7/26/24	2000	G	W	N	N	-	-	-		X	X	-								
HAM-PT-07-07-26-UNF-PM	7/26/24	2010	G	W	N	N	X	X	-		-	-	-								
HAM-PT-07-07-26-FIL-PM	7/26/24	2010	G	W	N	N	-	-	-		X	X	-								
HAM-PT-13-07-26-UNF-PM	7/26/24	2020	G	W	N	N	X	X	-		-	-	-								
HAM-PT-13-07-26-FIL-PM	7/26/24	2020	G	W	N	N	-	-	-		X	X	-								
ZW 7/26/24																					

705 2894 COC

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological	☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested I, II, III, IV, Other (specify)	Special Instructions/QC Requirements

Empty Kit Relinquished by:	Date	Time	Method of Shipment:

Relinquished by:	Date/Time	Company	Received by:	Date/Time	Company
				7-27-24 1008	
Relinquished by:	Date/Time 7-27-24 815	Company	Received by:	Date/Time 7/27/24 915	Company
Relinquished by:	Date/Time	Company	Received by: 4.2°C #2664	Date/Time	Company

Custody Seals Intact Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks.

7/30/2024

Job Narrative
705-2894-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Receipt
The samples were received on 7/27/2024 9:15 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.2°C.

Metals
Method 6020B - Total Recoverable: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for Prep Batch 5412 were outside control limits for Arsenic See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-2894-1

Client Sample ID: HAM-PT-14-07-26-UNF-AM
Date Collected: 07/26/24 10:10
Date Received: 07/27/24 09:15

Lab Sample ID: 705-2894-1
Matrix: Water

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.63		0.040	0.026	mg/L		07/29/24 07:49	07/29/24 13:00	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.16	F1	0.0050	0.0013	mg/L		07/29/24 07:26	07/29/24 15:59	1
Iron	40		0.040	0.018	mg/L		07/29/24 07:26	07/29/24 15:59	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-2894-1

Client Sample ID: HAM-PT-14-07-26-FIL-AM

Lab Sample ID: 705-2894-2

Date Collected: 07/26/24 10:10

Matrix: Water

Date Received: 07/27/24 09:15

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron, Dissolved	0.57		0.040	0.026	mg/L			07/29/24 16:26	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic, Dissolved	0.14		0.0050	0.0013	mg/L			07/30/24 14:30	1
Iron, Dissolved	18		0.040	0.018	mg/L			07/30/24 14:30	1

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-2894-1

Client Sample ID: HAM-PT-14-07-26-UNF-PM

Lab Sample ID: 705-2894-3

Date Collected: 07/26/24 20:00

Matrix: Water

Date Received: 07/27/24 09:15

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.62		0.040	0.026	mg/L		07/29/24 07:49	07/29/24 12:38	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.16		0.0050	0.0013	mg/L		07/29/24 07:26	07/29/24 16:15	1
Iron	38		0.040	0.018	mg/L		07/29/24 07:26	07/29/24 16:15	1

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-2894-1

Client Sample ID: HAM-PT-14-07-26-FIL-PM
Lab Sample ID: 705-2894-4
Date Collected: 07/26/24 20:00
Matrix: Water
Date Received: 07/27/24 09:15

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron, Dissolved	0.57		0.040	0.026	mg/L			07/29/24 16:29	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic, Dissolved	0.15		0.0050	0.0013	mg/L			07/30/24 14:34	1
Iron, Dissolved	18		0.040	0.018	mg/L			07/30/24 14:34	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-2894-1

Client Sample ID: HAM-PT-07-07-26-UNF-PM

Lab Sample ID: 705-2894-5

Date Collected: 07/26/24 20:10

Matrix: Water

Date Received: 07/27/24 09:15

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.70		0.040	0.026	mg/L		07/29/24 07:49	07/29/24 13:03	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.64		0.050	0.013	mg/L		07/29/24 07:26	07/30/24 15:14	10
Iron	140		0.40	0.18	mg/L		07/29/24 07:26	07/30/24 15:14	10

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-2894-1

Client Sample ID: HAM-PT-07-07-26-FIL-PM

Lab Sample ID: 705-2894-6

Date Collected: 07/26/24 20:10

Matrix: Water

Date Received: 07/27/24 09:15

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron, Dissolved	0.58		0.040	0.026	mg/L			07/29/24 16:32	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic, Dissolved	0.052		0.050	0.013	mg/L			07/30/24 14:46	10
Iron, Dissolved	0.19		0.040	0.018	mg/L			07/30/24 14:38	1

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-2894-1

Client Sample ID: HAM-PT-13-07-26-UNF-PM
Date Collected: 07/26/24 20:20
Date Received: 07/27/24 09:15

Lab Sample ID: 705-2894-7
Matrix: Water

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.54		0.040	0.026	mg/L		07/29/24 07:49	07/29/24 13:06	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.26		0.0050	0.0013	mg/L		07/29/24 07:26	07/30/24 15:18	1
Iron	42		0.040	0.018	mg/L		07/29/24 07:26	07/29/24 16:28	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-2894-1

Client Sample ID: HAM-PT-13-07-26-FIL-PM

Lab Sample ID: 705-2894-8

Date Collected: 07/26/24 20:20

Matrix: Water

Date Received: 07/27/24 09:15

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron, Dissolved	0.50		0.040	0.026	mg/L			07/29/24 16:41	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic, Dissolved	0.18		0.0050	0.0013	mg/L			07/30/24 14:50	1
Iron, Dissolved	16		0.040	0.018	mg/L			07/30/24 14:50	1

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-2894-1

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 705-5413/1-A
Matrix: Water
Analysis Batch: 5542

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 5413

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	ND		0.040	0.026	mg/L		07/29/24 07:49	07/29/24 12:32	1

Lab Sample ID: LCS 705-5413/2-A
Matrix: Water
Analysis Batch: 5542

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 5413

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1.00	1.03		mg/L		103	80 - 120

Lab Sample ID: 705-2894-3 MS
Matrix: Water
Analysis Batch: 5542

Client Sample ID: HAM-PT-14-07-26-UNF-PM
Prep Type: Total/NA
Prep Batch: 5413

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	0.62		1.00	1.62		mg/L		100	75 - 125

Lab Sample ID: 705-2894-3 MSD
Matrix: Water
Analysis Batch: 5542

Client Sample ID: HAM-PT-14-07-26-UNF-PM
Prep Type: Total/NA
Prep Batch: 5413

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron	0.62		1.00	1.63		mg/L		101	75 - 125	1	20

Lab Sample ID: MB 705-5500/1-A
Matrix: Water
Analysis Batch: 5594

Client Sample ID: Method Blank
Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron, Dissolved	ND		0.040	0.026	mg/L			07/29/24 15:49	1

Lab Sample ID: LCS 705-5500/2-A
Matrix: Water
Analysis Batch: 5594

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron, Dissolved	1.00	0.961		mg/L		96	80 - 120

Lab Sample ID: LCSD 705-5500/3-A
Matrix: Water
Analysis Batch: 5594

Client Sample ID: Lab Control Sample Dup
Prep Type: Dissolved

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron, Dissolved	1.00	0.958		mg/L		96	80 - 120	0	20

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 705-5412/1-A
Matrix: Water
Analysis Batch: 5610

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 5412

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND	^3- ^5+	0.0050	0.0013	mg/L		07/29/24 07:26	07/29/24 15:51	1
Iron	ND		0.040	0.018	mg/L		07/29/24 07:26	07/29/24 15:51	1

Lab Sample ID: LCS 705-5412/2-A
Matrix: Water
Analysis Batch: 5610

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 5412

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.100	0.0902	^3- ^5+	mg/L		90	80 - 120
Iron	1.00	1.05		mg/L		105	80 - 120

Lab Sample ID: 705-2894-1 MS
Matrix: Water
Analysis Batch: 5610

Client Sample ID: HAM-PT-14-07-26-UNF-AM
Prep Type: Total Recoverable
Prep Batch: 5412

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.16	F1	0.100	0.208	F1	mg/L		52	75 - 125
Iron	40		1.00	40.4	4	mg/L		26	75 - 125

Lab Sample ID: 705-2894-1 MSD
Matrix: Water
Analysis Batch: 5610

Client Sample ID: HAM-PT-14-07-26-UNF-AM
Prep Type: Total Recoverable
Prep Batch: 5412

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	0.16	F1	0.100	0.239		mg/L		83	75 - 125	14	20
Iron	40		1.00	40.7	4	mg/L		57	75 - 125	1	20

Lab Sample ID: MB 705-5495/1-A
Matrix: Water
Analysis Batch: 5745

Client Sample ID: Method Blank
Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic, Dissolved	ND		0.0050	0.0013	mg/L			07/30/24 13:33	1
Iron, Dissolved	ND		0.040	0.018	mg/L			07/30/24 13:33	1

Lab Sample ID: LCS 705-5495/2-A
Matrix: Water
Analysis Batch: 5745

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic, Dissolved	0.100	0.0988		mg/L		99	80 - 120
Iron, Dissolved	1.00	0.877		mg/L		88	80 - 120

Lab Sample ID: LCSD 705-5495/3-A
Matrix: Water
Analysis Batch: 5745

Client Sample ID: Lab Control Sample Dup
Prep Type: Dissolved

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic, Dissolved	0.100	0.0984		mg/L		98	80 - 120	0	20
Iron, Dissolved	1.00	0.942		mg/L		94	80 - 120	7	20

Lab Chronicle

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-2894-1

Client Sample ID: HAM-PT-14-07-26-UNF-AM

Lab Sample ID: 705-2894-1

Date Collected: 07/26/24 10:10
Matrix: Water
Date Received: 07/27/24 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3010A			5413	SA	EET ATL	07/29/24 07:49
Total/NA	Analysis	6010D		1	5542	DS	EET ATL	07/29/24 13:00
Total Recoverable	Prep	3005A			5412	SA	EET ATL	07/29/24 07:26
Total Recoverable	Analysis	6020B		1	5610	IF	EET ATL	07/29/24 15:59

Client Sample ID: HAM-PT-14-07-26-FIL-AM

Lab Sample ID: 705-2894-2

Date Collected: 07/26/24 10:10
Matrix: Water
Date Received: 07/27/24 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Analysis	6010D		1	5594	DS	EET ATL	07/29/24 16:26
Dissolved	Analysis	6020B		1	5745	IF	EET ATL	07/30/24 14:30

Client Sample ID: HAM-PT-14-07-26-UNF-PM

Lab Sample ID: 705-2894-3

Date Collected: 07/26/24 20:00
Matrix: Water
Date Received: 07/27/24 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3010A			5413	SA	EET ATL	07/29/24 07:49
Total/NA	Analysis	6010D		1	5542	DS	EET ATL	07/29/24 12:38
Total Recoverable	Prep	3005A			5412	SA	EET ATL	07/29/24 07:26
Total Recoverable	Analysis	6020B		1	5610	IF	EET ATL	07/29/24 16:15

Client Sample ID: HAM-PT-14-07-26-FIL-PM

Lab Sample ID: 705-2894-4

Date Collected: 07/26/24 20:00
Matrix: Water
Date Received: 07/27/24 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Analysis	6010D		1	5594	DS	EET ATL	07/29/24 16:29
Dissolved	Analysis	6020B		1	5745	IF	EET ATL	07/30/24 14:34

Client Sample ID: HAM-PT-07-07-26-UNF-PM

Lab Sample ID: 705-2894-5

Date Collected: 07/26/24 20:10
Matrix: Water
Date Received: 07/27/24 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3010A			5413	SA	EET ATL	07/29/24 07:49
Total/NA	Analysis	6010D		1	5542	DS	EET ATL	07/29/24 13:03
Total Recoverable	Prep	3005A			5412	SA	EET ATL	07/29/24 07:26
Total Recoverable	Analysis	6020B		10	5771	IF	EET ATL	07/30/24 15:14

Lab Chronicle

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-2894-1

Client Sample ID: HAM-PT-07-07-26-FIL-PM

Lab Sample ID: 705-2894-6

Date Collected: 07/26/24 20:10
Matrix: Water
Date Received: 07/27/24 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Analysis	6010D		1	5594	DS	EET ATL	07/29/24 16:32
Dissolved	Analysis	6020B		1	5745	IF	EET ATL	07/30/24 14:38
Dissolved	Analysis	6020B		10	5745	IF	EET ATL	07/30/24 14:46

Client Sample ID: HAM-PT-13-07-26-UNF-PM

Lab Sample ID: 705-2894-7

Date Collected: 07/26/24 20:20
Matrix: Water
Date Received: 07/27/24 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3010A			5413	SA	EET ATL	07/29/24 07:49
Total/NA	Analysis	6010D		1	5542	DS	EET ATL	07/29/24 13:06
Total Recoverable	Prep	3005A			5412	SA	EET ATL	07/29/24 07:26
Total Recoverable	Analysis	6020B		1	5610	IF	EET ATL	07/29/24 16:28
Total Recoverable	Prep	3005A			5412	SA	EET ATL	07/29/24 07:26
Total Recoverable	Analysis	6020B		1	5771	IF	EET ATL	07/30/24 15:18

Client Sample ID: HAM-PT-13-07-26-FIL-PM

Lab Sample ID: 705-2894-8

Date Collected: 07/26/24 20:20
Matrix: Water
Date Received: 07/27/24 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Analysis	6010D		1	5594	DS	EET ATL	07/29/24 16:41
Dissolved	Analysis	6020B		1	5745	IF	EET ATL	07/30/24 14:50

Laboratory References:

EET ATL = Eurofins Atlanta, 3080 Presidential Dr, Atlanta, GA 30340, TEL (770)457-8177

Accreditation/Certification Summary

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-2894-1

Laboratory: Eurofins Atlanta

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E87582	06-30-25

Method Summary

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-2894-1

Method	Method Description	Protocol	Laboratory
6010D	Metals (ICP)	SW846	EET ATL
6020B	Metals (ICP/MS)	SW846	EET ATL
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET ATL
3010A	Preparation, Total Metals	SW846	EET ATL

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET ATL = Eurofins Atlanta, 3080 Presidential Dr, Atlanta, GA 30340, TEL (770)457-8177

Sample Summary

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-2894-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
705-2894-1	HAM-PT-14-07-26-UNF-AM	Water	07/26/24 10:10	07/27/24 09:15
705-2894-2	HAM-PT-14-07-26-FIL-AM	Water	07/26/24 10:10	07/27/24 09:15
705-2894-3	HAM-PT-14-07-26-UNF-PM	Water	07/26/24 20:00	07/27/24 09:15
705-2894-4	HAM-PT-14-07-26-FIL-PM	Water	07/26/24 20:00	07/27/24 09:15
705-2894-5	HAM-PT-07-07-26-UNF-PM	Water	07/26/24 20:10	07/27/24 09:15
705-2894-6	HAM-PT-07-07-26-FIL-PM	Water	07/26/24 20:10	07/27/24 09:15
705-2894-7	HAM-PT-13-07-26-UNF-PM	Water	07/26/24 20:20	07/27/24 09:15
705-2894-8	HAM-PT-13-07-26-FIL-PM	Water	07/26/24 20:20	07/27/24 09:15

Login Sample Receipt Checklist

Client: Geosyntec Consultants Inc

Job Number: 705-2894-1

Login Number: 2894

List Source: Eurofins Atlanta

List Number: 1

Creator: Bellinger, Arabia

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

END OF REPORT

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ANALYTICAL REPORT

PREPARED FOR

Attn: Kip Gray
Geosyntec Consultants Inc
1255 Roberts Blvd. NW
Suite 200
Kennesaw, Georgia 30144

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JOB DESCRIPTION

Plant Hammond

JOB NUMBER

705-2915-1

Eurofins Atlanta
3080 Presidential Dr
Atlanta GA 30340

See page two for job notes and contact information.

my EOL

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization

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Authorized for release by
David Fuller, Project Manager
David.Fuller@et.eurofinsus.com
(770)344-8986

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Definitions/Glossary

Client: Geosyntec Consultants Inc
Job ID: 705-2915-1
Project/Site: Plant Hammond

Qualifiers

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Eurofins Atlanta
3080 Presidential Dr
Atlanta, GA 30340
Phone 770-457-8177 Fax 770-457-8188

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Zein W	Lab PM: Fuller, David	Carrier Tracking No(s):	COC No: 705-2300-756 1
Client Contact: Kip Gray	Phone:	E-Mail: David Fuller@et.eurofinsus com	State of Origin:	Page: Page 1 of 3
Company: Geosyntec Consultants Inc	PWSID			Job #:
Address: 1255 Roberts Blvd NW Suite 200	Due Date Requested			
City: Kennesaw	TAT Requested (days): Same Day			
State, Zip: GA, 30144	Compliance Project: Δ Yes Δ No			
Phone	PO #: 100061163			
Email: Kip Gray@Geosyntec com	WO #: Project# GW6581G			
Project Name: Plant Hammond	Project #: 70500911			
Site	SSOW#:			

Analysis Requested

Preservation Codes: D - HNO3; N - None

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6020B - Total Arsenic & Iron (D)	6020B - Dissolved Arsenic & Iron (N)	Total Boron	Dissolved Boron	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
HAM-PT-14-7-27-UNF	7/27/24	1300	C	W		-	X		X			
HAM-PT-14-7-27-FIL	7/27/24	1700	C	W	X	-		X		X		
HAM-PT-07-7-27-UNF	7/27/24	1700	C	W		-	X		X			
HAM-PT-07-7-27-FIL	7/27/24	1700	C	W	X	-		X		X		
HAM-PT-13-7-27-UNF	7/27/24	1700	C	W		-	X		X			
HAM-PT-13-7-27-FIL	7/27/24	1700	C	W	X	-		X		X		

705 2915 COC

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I, II, III, IV, Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		7/28/24 650			7-28-24 650	
2		7/28/24 8:36			07.29.24 0730	Eurofins
3		Date/Time:	Company	Received by: 0730 07 29.	Date/Time 24	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No

Cooler Temperature(s) °C and Other Remarks: # 1.9°C

Job Narrative
705-2915-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Receipt
The samples were received on 7/28/2024 8:36 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.9°C.

Metals
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-2915-1

Client Sample ID: HAM-PT-14-7-27-UNF

Lab Sample ID: 705-2915-1

Date Collected: 07/27/24 17:00

Matrix: Water

Date Received: 07/28/24 08:36

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.67		0.040	0.026	mg/L		07/29/24 11:49	07/30/24 14:02	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.26		0.0050	0.0013	mg/L		07/29/24 12:40	07/30/24 17:39	1
Iron	62		0.40	0.18	mg/L		07/29/24 12:40	07/31/24 17:38	10

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-2915-1

Client Sample ID: HAM-PT-14-7-27-FIL

Lab Sample ID: 705-2915-2

Date Collected: 07/27/24 17:00

Matrix: Water

Date Received: 07/28/24 08:36

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron, Dissolved	0.57		0.050	0.026	mg/L			07/29/24 15:58	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic, Dissolved	0.019		0.0050	0.0013	mg/L			07/30/24 13:45	1
Iron, Dissolved	2.3		0.040	0.018	mg/L			07/30/24 13:45	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-2915-1

Client Sample ID: HAM-PT-07-7-27-UNF

Lab Sample ID: 705-2915-3

Date Collected: 07/27/24 17:00

Matrix: Water

Date Received: 07/28/24 08:36

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.71		0.040	0.026	mg/L		07/29/24 11:49	07/30/24 14:05	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.29		0.0050	0.0013	mg/L		07/29/24 12:40	07/30/24 17:43	1
Iron	190		0.40	0.18	mg/L		07/29/24 12:40	07/31/24 16:26	10

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-2915-1

Client Sample ID: HAM-PT-07-7-27-FIL

Lab Sample ID: 705-2915-4

Date Collected: 07/27/24 17:00

Matrix: Water

Date Received: 07/28/24 08:36

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron, Dissolved	0.56		0.050	0.026	mg/L			07/29/24 16:01	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic, Dissolved	0.025		0.0050	0.0013	mg/L			07/30/24 13:49	1
Iron, Dissolved	0.60		0.040	0.018	mg/L			07/30/24 13:49	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-2915-1

Client Sample ID: HAM-PT-13-7-27-UNF

Lab Sample ID: 705-2915-5

Date Collected: 07/27/24 17:00

Matrix: Water

Date Received: 07/28/24 08:36

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.60		0.040	0.026	mg/L		07/29/24 11:49	07/30/24 14:08	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.26		0.0050	0.0013	mg/L		07/29/24 12:40	07/30/24 17:51	1
Iron	30		0.040	0.018	mg/L		07/29/24 12:40	07/31/24 16:30	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-2915-1

Client Sample ID: HAM-PT-13-7-27-FIL

Lab Sample ID: 705-2915-6

Date Collected: 07/27/24 17:00

Matrix: Water

Date Received: 07/28/24 08:36

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron, Dissolved	0.50		0.050	0.026	mg/L			07/29/24 16:04	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic, Dissolved	0.083		0.0050	0.0013	mg/L			07/30/24 13:53	1
Iron, Dissolved	12		0.040	0.018	mg/L			07/30/24 13:53	1

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 705-5490/1-A
Matrix: Water
Analysis Batch: 5742

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 5490

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	ND		0.040	0.026	mg/L		07/29/24 11:49	07/30/24 13:34	1

Lab Sample ID: LCS 705-5490/2-A
Matrix: Water
Analysis Batch: 5742

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 5490

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1.00	1.04		mg/L		104	80 - 120

Lab Sample ID: 705-2922-A-5-B MS
Matrix: Water
Analysis Batch: 5742

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 5490

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	0.59		1.00	1.61		mg/L		101	75 - 125

Lab Sample ID: 705-2922-A-5-C MSD
Matrix: Water
Analysis Batch: 5742

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 5490

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron	0.59		1.00	1.63		mg/L		103	75 - 125	1	20

Lab Sample ID: MB 705-5500/1-A
Matrix: Water
Analysis Batch: 5594

Client Sample ID: Method Blank
Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron, Dissolved	ND		0.050	0.026	mg/L			07/29/24 15:49	1

Lab Sample ID: LCS 705-5500/2-A
Matrix: Water
Analysis Batch: 5594

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron, Dissolved	1.00	0.961		mg/L		96	80 - 120

Lab Sample ID: LCSD 705-5500/3-A
Matrix: Water
Analysis Batch: 5594

Client Sample ID: Lab Control Sample Dup
Prep Type: Dissolved

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron, Dissolved	1.00	0.958		mg/L		96	80 - 120	0	20

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 705-5484/1-A
Matrix: Water
Analysis Batch: 5872

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 5484

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0050	0.0013	mg/L		07/29/24 12:40	07/30/24 17:15	1
Iron	ND		0.040	0.018	mg/L		07/29/24 12:40	07/30/24 17:15	1

Lab Sample ID: LCS 705-5484/2-A
Matrix: Water
Analysis Batch: 5872

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 5484

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.100	0.0983		mg/L		98	80 - 120
Iron	1.00	0.935		mg/L		94	80 - 120

Lab Sample ID: 705-2922-A-1-B MS
Matrix: Water
Analysis Batch: 5872

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 5484

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.13		0.100	0.226		mg/L		97	75 - 125

Lab Sample ID: 705-2922-A-1-B MS
Matrix: Water
Analysis Batch: 5997

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 5484

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	22		1.00	21.4	4	mg/L		-62	75 - 125

Lab Sample ID: 705-2922-A-1-C MSD
Matrix: Water
Analysis Batch: 5872

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 5484

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	0.13		0.100	0.227		mg/L		99	75 - 125	1	20

Lab Sample ID: 705-2922-A-1-C MSD
Matrix: Water
Analysis Batch: 5997

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 5484

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Iron	22		1.00	21.8	4	mg/L		-22	75 - 125	2	20

Lab Sample ID: MB 705-5495/1-A
Matrix: Water
Analysis Batch: 5745

Client Sample ID: Method Blank
Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic, Dissolved	ND		0.0050	0.0013	mg/L			07/30/24 13:33	1
Iron, Dissolved	ND		0.040	0.018	mg/L			07/30/24 13:33	1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 705-5495/2-A
Matrix: Water
Analysis Batch: 5745

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic, Dissolved	0.100	0.0988		mg/L		99	80 - 120
Iron, Dissolved	1.00	0.877		mg/L		88	80 - 120

Lab Sample ID: LCSD 705-5495/3-A
Matrix: Water
Analysis Batch: 5745

Client Sample ID: Lab Control Sample Dup
Prep Type: Dissolved

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic, Dissolved	0.100	0.0984		mg/L		98	80 - 120	0	20
Iron, Dissolved	1.00	0.942		mg/L		94	80 - 120	7	20

Lab Chronicle

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-2915-1

Client Sample ID: HAM-PT-14-7-27-UNF

Lab Sample ID: 705-2915-1

Date Collected: 07/27/24 17:00
Matrix: Water
Date Received: 07/28/24 08:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3010A			5490	BR	EET ATL	07/29/24 11:49
Total/NA	Analysis	6010D		1	5742	DS	EET ATL	07/30/24 14:02
Total Recoverable	Prep	3005A			5484	BR	EET ATL	07/29/24 12:40
Total Recoverable	Analysis	6020B		1	5872	IF	EET ATL	07/30/24 17:39
Total Recoverable	Prep	3005A			5484	BR	EET ATL	07/29/24 12:40
Total Recoverable	Analysis	6020B		10	5997	IF	EET ATL	07/31/24 17:38

Client Sample ID: HAM-PT-14-7-27-FIL

Lab Sample ID: 705-2915-2

Date Collected: 07/27/24 17:00
Matrix: Water
Date Received: 07/28/24 08:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Analysis	6010D		1	5594	DS	EET ATL	07/29/24 15:58
Dissolved	Analysis	6020B		1	5745	IF	EET ATL	07/30/24 13:45

Client Sample ID: HAM-PT-07-7-27-UNF

Lab Sample ID: 705-2915-3

Date Collected: 07/27/24 17:00
Matrix: Water
Date Received: 07/28/24 08:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3010A			5490	BR	EET ATL	07/29/24 11:49
Total/NA	Analysis	6010D		1	5742	DS	EET ATL	07/30/24 14:05
Total Recoverable	Prep	3005A			5484	BR	EET ATL	07/29/24 12:40
Total Recoverable	Analysis	6020B		1	5872	IF	EET ATL	07/30/24 17:43
Total Recoverable	Prep	3005A			5484	BR	EET ATL	07/29/24 12:40
Total Recoverable	Analysis	6020B		10	5997	IF	EET ATL	07/31/24 16:26

Client Sample ID: HAM-PT-07-7-27-FIL

Lab Sample ID: 705-2915-4

Date Collected: 07/27/24 17:00
Matrix: Water
Date Received: 07/28/24 08:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Analysis	6010D		1	5594	DS	EET ATL	07/29/24 16:01
Dissolved	Analysis	6020B		1	5745	IF	EET ATL	07/30/24 13:49

Client Sample ID: HAM-PT-13-7-27-UNF

Lab Sample ID: 705-2915-5

Date Collected: 07/27/24 17:00
Matrix: Water
Date Received: 07/28/24 08:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3010A			5490	BR	EET ATL	07/29/24 11:49
Total/NA	Analysis	6010D		1	5742	DS	EET ATL	07/30/24 14:08
Total Recoverable	Prep	3005A			5484	BR	EET ATL	07/29/24 12:40
Total Recoverable	Analysis	6020B		1	5872	IF	EET ATL	07/30/24 17:51

Lab Chronicle

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-2915-1

Client Sample ID: HAM-PT-13-7-27-UNF

Lab Sample ID: 705-2915-5

Date Collected: 07/27/24 17:00

Matrix: Water

Date Received: 07/28/24 08:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			5484	BR	EET ATL	07/29/24 12:40
Total Recoverable	Analysis	6020B		1	5997	IF	EET ATL	07/31/24 16:30

Client Sample ID: HAM-PT-13-7-27-FIL

Lab Sample ID: 705-2915-6

Date Collected: 07/27/24 17:00

Matrix: Water

Date Received: 07/28/24 08:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Analysis	6010D		1	5594	DS	EET ATL	07/29/24 16:04
Dissolved	Analysis	6020B		1	5745	IF	EET ATL	07/30/24 13:53

Laboratory References:

EET ATL = Eurofins Atlanta, 3080 Presidential Dr, Atlanta, GA 30340, TEL (770)457-8177

Accreditation/Certification Summary

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-2915-1

Laboratory: Eurofins Atlanta

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E87582	06-30-25

Method Summary

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-2915-1

Method	Method Description	Protocol	Laboratory
6010D	Metals (ICP)	SW846	EET ATL
6020B	Metals (ICP/MS)	SW846	EET ATL
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET ATL
3010A	Preparation, Total Metals	SW846	EET ATL

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET ATL = Eurofins Atlanta, 3080 Presidential Dr, Atlanta, GA 30340, TEL (770)457-8177

Sample Summary

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-2915-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
705-2915-1	HAM-PT-14-7-27-UNF	Water	07/27/24 17:00	07/28/24 08:36
705-2915-2	HAM-PT-14-7-27-FIL	Water	07/27/24 17:00	07/28/24 08:36
705-2915-3	HAM-PT-07-7-27-UNF	Water	07/27/24 17:00	07/28/24 08:36
705-2915-4	HAM-PT-07-7-27-FIL	Water	07/27/24 17:00	07/28/24 08:36
705-2915-5	HAM-PT-13-7-27-UNF	Water	07/27/24 17:00	07/28/24 08:36
705-2915-6	HAM-PT-13-7-27-FIL	Water	07/27/24 17:00	07/28/24 08:36

Login Sample Receipt Checklist

Client: Geosyntec Consultants Inc

Job Number: 705-2915-1

Login Number: 2915

List Source: Eurofins Atlanta

List Number: 1

Creator: Pomuti, Carmen

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	Not present
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	False	Limited volume received.
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	False	Insufficient volume received for requested analysis.
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

END OF REPORT

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Kip Gray
Geosyntec Consultants Inc
1255 Roberts Blvd. NW
Suite 200
Kennesaw, Georgia 30144

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JOB DESCRIPTION

Plant Hammond

JOB NUMBER

705-2922-1

Eurofins Atlanta
3080 Presidential Dr
Atlanta GA 30340

See page two for job notes and contact information.

myEOL

Eurofins Atlanta

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization

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Authorized for release by
David Fuller, Project Manager
David.Fuller@et.eurofinsus.com
(770)344-8986

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Definitions/Glossary

Client: Geosyntec Consultants Inc
Job ID: 705-2922-1
Project/Site: Plant Hammond

Qualifiers

Metals

Qualifier	Qualifier Description
^-	Continuing Calibration Verification (CCV) is outside acceptance limits, low biased.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Eurofins Atlanta
3080 Presidential Dr
Atlanta, GA 30340
Phone 770-457-8177 Fax 770-457-8188

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Zain W.	Lab PM: Fuller, David	Carrier Tracking No(s).	COC No: ~~705-2300-758.2~~ 2W
Client Contact: Kip Gray	Phone: 404-434-2074	E-Mail: David.Fuller@et.eurofinsus.com	State of Origin: GA	Page: Page 1 of 1
Company: Geosyntec Consultants Inc	PWSID			Job #:
Address: 1255 Roberts Blvd NW Suite 200	Due Date Requested:			
City: Kennesaw	TAT Requested (days): Rush / same day			
State, Zip: GA, 30144	Compliance Project: Δ Yes Δ No			
Phone	PO #: 100061163			
Email: Kip.Gray@Geosyntec.com	WO #: Project# GW6581G			
Project Name: Plant Hammond	Project #: 70500911			
Site:	SSOW#:			

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6020B - Total Arsenic & Iron	6020B - Dissolved Arsenic & Iron (FF)	6010D - Total Boron	6010D - Dissolved Boron - Field filtered (FF)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				D	D	D	D		
HAM-PT-14-07-28-UNF	7/28/24		G	W	No	No	X	-	X	-	1	
HAM-PT-14-07-28-FIL	7/28/24		G	W	Yes	2	-	X	-	X	1	
HAM-PT-08-07-28-UNF	7/28/24		G	W	No	2	X	-	X	-	1	
HAM-PT-08-07-28-FIL	7/28/24		G	W	Yes	2	-	X	-	X	1	
HAM-PT-13-07-28-UNF	7/28/24		G	W	No	2	X	-	X	-	1	
HAM-PT-13-07-28-FIL	7/28/24		G	W	Yes	2	-	X	-	X	1	
HAM-PT-07-07-28-UNF	7/28/24		G	W	No	2	X	-	X	-	1	
HAM-PT-07-07-28-FIL	7/28/24		G	W	Yes	2	-	X	-	X	1	705 2922 COC
	Zain Wolfe 7/28/24											

Preservation Codes
D - HNO3
N None
Other

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I, II, III, IV, Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		7/29/24 720			7-29-24 722	
2		7-29-24 9:10			07.29.24 0910	Eurofins
3						

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks:
		# 2665 38°C

Job Narrative
705-2922-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Receipt
The samples were received on 7/29/2024 9:10 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.8°C.

Receipt Exceptions
All samples were received at the laboratory without a sample collection time documented on the chain of custody or on the bottles.

Metals
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-2922-1

Client Sample ID: HAM-PT-14-07-28-UNF

Lab Sample ID: 705-2922-1

Date Collected: 07/28/24 00:00

Matrix: Water

Date Received: 07/29/24 09:10

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.65		0.040	0.026	mg/L		07/29/24 11:49	07/30/24 14:11	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.13		0.0050	0.0013	mg/L		07/29/24 12:40	07/30/24 17:23	1
Iron	22		0.40	0.18	mg/L		07/29/24 12:40	07/31/24 16:10	10

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-2922-1

Client Sample ID: HAM-PT-14-07-28-FIL

Lab Sample ID: 705-2922-2

Date Collected: 07/28/24 00:00

Matrix: Water

Date Received: 07/29/24 09:10

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron, Dissolved	0.59		0.050	0.026	mg/L			07/29/24 16:07	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic, Dissolved	0.12		0.0050	0.0013	mg/L			07/30/24 13:57	1
Iron, Dissolved	15		0.040	0.018	mg/L			07/30/24 13:57	1

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-2922-1

Client Sample ID: HAM-PT-08-07-28-UNF
Date Collected: 07/28/24 00:00
Date Received: 07/29/24 09:10

Lab Sample ID: 705-2922-3
Matrix: Water

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.75		0.040	0.026	mg/L		07/29/24 11:49	07/30/24 14:14	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.42		0.0050	0.0013	mg/L		07/29/24 12:40	07/30/24 18:23	1
Iron	26		0.040	0.018	mg/L		07/29/24 12:40	07/31/24 16:34	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-2922-1

Client Sample ID: HAM-PT-08-07-28-FIL

Lab Sample ID: 705-2922-4

Date Collected: 07/28/24 00:00

Matrix: Water

Date Received: 07/29/24 09:10

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron, Dissolved	0.66		0.050	0.026	mg/L			07/29/24 16:10	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic, Dissolved	0.17		0.0050	0.0013	mg/L			07/30/24 14:01	1
Iron, Dissolved	7.7		0.040	0.018	mg/L			07/30/24 14:01	1

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-2922-1

Client Sample ID: HAM-PT-13-07-28-UNF
Date Collected: 07/28/24 00:00
Date Received: 07/29/24 09:10

Lab Sample ID: 705-2922-5
Matrix: Water

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.59		0.040	0.026	mg/L		07/29/24 11:49	07/30/24 13:40	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.19		0.0050	0.0013	mg/L		07/29/24 12:40	07/30/24 18:27	1
Iron	23		0.040	0.018	mg/L		07/29/24 12:40	07/31/24 16:38	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-2922-1

Client Sample ID: HAM-PT-13-07-28-FIL

Lab Sample ID: 705-2922-6

Date Collected: 07/28/24 00:00

Matrix: Water

Date Received: 07/29/24 09:10

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron, Dissolved	0.51		0.050	0.026	mg/L			07/29/24 16:13	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic, Dissolved	0.11		0.0050	0.0013	mg/L			07/30/24 14:05	1
Iron, Dissolved	13		0.040	0.018	mg/L			07/30/24 14:05	1

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-2922-1

Client Sample ID: HAM-PT-07-07-28-UNF
Date Collected: 07/28/24 00:00
Date Received: 07/29/24 09:10

Lab Sample ID: 705-2922-7
Matrix: Water

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.63		0.040	0.026	mg/L		07/29/24 11:49	07/30/24 14:18	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.097		0.0050	0.0013	mg/L		07/29/24 12:40	07/30/24 18:31	1
Iron	31		0.040	0.018	mg/L		07/29/24 12:40	07/31/24 16:42	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-2922-1

Client Sample ID: HAM-PT-07-07-28-FIL

Lab Sample ID: 705-2922-8

Date Collected: 07/28/24 00:00

Matrix: Water

Date Received: 07/29/24 09:10

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron, Dissolved	0.56		0.050	0.026	mg/L			07/29/24 16:16	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic, Dissolved	0.026		0.0050	0.0013	mg/L			07/30/24 14:26	1
Iron, Dissolved	0.46		0.040	0.018	mg/L			07/30/24 14:26	1

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 705-5490/1-A
Matrix: Water
Analysis Batch: 5742

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 5490

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	ND		0.040	0.026	mg/L		07/29/24 11:49	07/30/24 13:34	1

Lab Sample ID: LCS 705-5490/2-A
Matrix: Water
Analysis Batch: 5742

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 5490

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1.00	1.04		mg/L		104	80 - 120

Lab Sample ID: 705-2922-5 MS
Matrix: Water
Analysis Batch: 5742

Client Sample ID: HAM-PT-13-07-28-UNF
Prep Type: Total/NA
Prep Batch: 5490

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	0.59		1.00	1.61		mg/L		101	75 - 125

Lab Sample ID: 705-2922-5 MSD
Matrix: Water
Analysis Batch: 5742

Client Sample ID: HAM-PT-13-07-28-UNF
Prep Type: Total/NA
Prep Batch: 5490

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron	0.59		1.00	1.63		mg/L		103	75 - 125	1	20

Lab Sample ID: MB 705-5500/1-A
Matrix: Water
Analysis Batch: 5594

Client Sample ID: Method Blank
Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron, Dissolved	ND		0.050	0.026	mg/L			07/29/24 15:49	1

Lab Sample ID: LCS 705-5500/2-A
Matrix: Water
Analysis Batch: 5594

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron, Dissolved	1.00	0.961		mg/L		96	80 - 120

Lab Sample ID: LCSD 705-5500/3-A
Matrix: Water
Analysis Batch: 5594

Client Sample ID: Lab Control Sample Dup
Prep Type: Dissolved

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron, Dissolved	1.00	0.958		mg/L		96	80 - 120	0	20

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 705-5484/1-A
Matrix: Water
Analysis Batch: 5872

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 5484

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0050	0.0013	mg/L		07/29/24 12:40	07/30/24 17:15	1
Iron	ND	^-	0.040	0.018	mg/L		07/29/24 12:40	07/30/24 17:15	1

Lab Sample ID: LCS 705-5484/2-A
Matrix: Water
Analysis Batch: 5872

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 5484

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.100	0.0983		mg/L		98	80 - 120
Iron	1.00	0.935	^-	mg/L		94	80 - 120

Lab Sample ID: 705-2922-1 MS
Matrix: Water
Analysis Batch: 5872

Client Sample ID: HAM-PT-14-07-28-UNF
Prep Type: Total Recoverable
Prep Batch: 5484

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.13		0.100	0.226		mg/L		97	75 - 125

Lab Sample ID: 705-2922-1 MS
Matrix: Water
Analysis Batch: 5997

Client Sample ID: HAM-PT-14-07-28-UNF
Prep Type: Total Recoverable
Prep Batch: 5484

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	22		1.00	21.4	4	mg/L		-62	75 - 125

Lab Sample ID: 705-2922-1 MSD
Matrix: Water
Analysis Batch: 5872

Client Sample ID: HAM-PT-14-07-28-UNF
Prep Type: Total Recoverable
Prep Batch: 5484

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	0.13		0.100	0.227		mg/L		99	75 - 125	1	20

Lab Sample ID: 705-2922-1 MSD
Matrix: Water
Analysis Batch: 5997

Client Sample ID: HAM-PT-14-07-28-UNF
Prep Type: Total Recoverable
Prep Batch: 5484

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Iron	22		1.00	21.8	4	mg/L		-22	75 - 125	2	20

Lab Sample ID: MB 705-5495/1-A
Matrix: Water
Analysis Batch: 5745

Client Sample ID: Method Blank
Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic, Dissolved	ND		0.0050	0.0013	mg/L			07/30/24 13:33	1
Iron, Dissolved	ND		0.040	0.018	mg/L			07/30/24 13:33	1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 705-5495/2-A
Matrix: Water
Analysis Batch: 5745

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic, Dissolved	0.100	0.0988		mg/L		99	80 - 120
Iron, Dissolved	1.00	0.877		mg/L		88	80 - 120

Lab Sample ID: LCSD 705-5495/3-A
Matrix: Water
Analysis Batch: 5745

Client Sample ID: Lab Control Sample Dup
Prep Type: Dissolved

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic, Dissolved	0.100	0.0984		mg/L		98	80 - 120	0	20
Iron, Dissolved	1.00	0.942		mg/L		94	80 - 120	7	20

Lab Chronicle

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-2922-1

Client Sample ID: HAM-PT-14-07-28-UNF

Lab Sample ID: 705-2922-1

Date Collected: 07/28/24 00:00
Matrix: Water
Date Received: 07/29/24 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3010A			5490	BR	EET ATL	07/29/24 11:49
Total/NA	Analysis	6010D		1	5742	DS	EET ATL	07/30/24 14:11
Total Recoverable	Prep	3005A			5484	BR	EET ATL	07/29/24 12:40
Total Recoverable	Analysis	6020B		1	5872	IF	EET ATL	07/30/24 17:23
Total Recoverable	Prep	3005A			5484	BR	EET ATL	07/29/24 12:40
Total Recoverable	Analysis	6020B		10	5997	IF	EET ATL	07/31/24 16:10

Client Sample ID: HAM-PT-14-07-28-FIL

Lab Sample ID: 705-2922-2

Date Collected: 07/28/24 00:00
Matrix: Water
Date Received: 07/29/24 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Analysis	6010D		1	5594	DS	EET ATL	07/29/24 16:07
Dissolved	Analysis	6020B		1	5745	IF	EET ATL	07/30/24 13:57

Client Sample ID: HAM-PT-08-07-28-UNF

Lab Sample ID: 705-2922-3

Date Collected: 07/28/24 00:00
Matrix: Water
Date Received: 07/29/24 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3010A			5490	BR	EET ATL	07/29/24 11:49
Total/NA	Analysis	6010D		1	5742	DS	EET ATL	07/30/24 14:14
Total Recoverable	Prep	3005A			5484	BR	EET ATL	07/29/24 12:40
Total Recoverable	Analysis	6020B		1	5872	IF	EET ATL	07/30/24 18:23
Total Recoverable	Prep	3005A			5484	BR	EET ATL	07/29/24 12:40
Total Recoverable	Analysis	6020B		1	5997	IF	EET ATL	07/31/24 16:34

Client Sample ID: HAM-PT-08-07-28-FIL

Lab Sample ID: 705-2922-4

Date Collected: 07/28/24 00:00
Matrix: Water
Date Received: 07/29/24 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Analysis	6010D		1	5594	DS	EET ATL	07/29/24 16:10
Dissolved	Analysis	6020B		1	5745	IF	EET ATL	07/30/24 14:01

Client Sample ID: HAM-PT-13-07-28-UNF

Lab Sample ID: 705-2922-5

Date Collected: 07/28/24 00:00
Matrix: Water
Date Received: 07/29/24 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3010A			5490	BR	EET ATL	07/29/24 11:49
Total/NA	Analysis	6010D		1	5742	DS	EET ATL	07/30/24 13:40
Total Recoverable	Prep	3005A			5484	BR	EET ATL	07/29/24 12:40
Total Recoverable	Analysis	6020B		1	5872	IF	EET ATL	07/30/24 18:27

Lab Chronicle

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-2922-1

Client Sample ID: HAM-PT-13-07-28-UNF

Lab Sample ID: 705-2922-5

Date Collected: 07/28/24 00:00
Matrix: Water
Date Received: 07/29/24 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			5484	BR	EET ATL	07/29/24 12:40
Total Recoverable	Analysis	6020B		1	5997	IF	EET ATL	07/31/24 16:38

Client Sample ID: HAM-PT-13-07-28-FIL

Lab Sample ID: 705-2922-6

Date Collected: 07/28/24 00:00
Matrix: Water
Date Received: 07/29/24 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Analysis	6010D		1	5594	DS	EET ATL	07/29/24 16:13
Dissolved	Analysis	6020B		1	5745	IF	EET ATL	07/30/24 14:05

Client Sample ID: HAM-PT-07-07-28-UNF

Lab Sample ID: 705-2922-7

Date Collected: 07/28/24 00:00
Matrix: Water
Date Received: 07/29/24 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3010A			5490	BR	EET ATL	07/29/24 11:49
Total/NA	Analysis	6010D		1	5742	DS	EET ATL	07/30/24 14:18
Total Recoverable	Prep	3005A			5484	BR	EET ATL	07/29/24 12:40
Total Recoverable	Analysis	6020B		1	5872	IF	EET ATL	07/30/24 18:31
Total Recoverable	Prep	3005A			5484	BR	EET ATL	07/29/24 12:40
Total Recoverable	Analysis	6020B		1	5997	IF	EET ATL	07/31/24 16:42

Client Sample ID: HAM-PT-07-07-28-FIL

Lab Sample ID: 705-2922-8

Date Collected: 07/28/24 00:00
Matrix: Water
Date Received: 07/29/24 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Analysis	6010D		1	5594	DS	EET ATL	07/29/24 16:16
Dissolved	Analysis	6020B		1	5745	IF	EET ATL	07/30/24 14:26

Laboratory References:

EET ATL = Eurofins Atlanta, 3080 Presidential Dr, Atlanta, GA 30340, TEL (770)457-8177

Accreditation/Certification Summary

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-2922-1

Laboratory: Eurofins Atlanta

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E87582	06-30-25

Method Summary

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-2922-1

Method	Method Description	Protocol	Laboratory
6010D	Metals (ICP)	SW846	EET ATL
6020B	Metals (ICP/MS)	SW846	EET ATL
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET ATL
3010A	Preparation, Total Metals	SW846	EET ATL

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET ATL = Eurofins Atlanta, 3080 Presidential Dr, Atlanta, GA 30340, TEL (770)457-8177

Sample Summary

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-2922-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
705-2922-1	HAM-PT-14-07-28-UNF	Water	07/28/24 00:00	07/29/24 09:10
705-2922-2	HAM-PT-14-07-28-FIL	Water	07/28/24 00:00	07/29/24 09:10
705-2922-3	HAM-PT-08-07-28-UNF	Water	07/28/24 00:00	07/29/24 09:10
705-2922-4	HAM-PT-08-07-28-FIL	Water	07/28/24 00:00	07/29/24 09:10
705-2922-5	HAM-PT-13-07-28-UNF	Water	07/28/24 00:00	07/29/24 09:10
705-2922-6	HAM-PT-13-07-28-FIL	Water	07/28/24 00:00	07/29/24 09:10
705-2922-7	HAM-PT-07-07-28-UNF	Water	07/28/24 00:00	07/29/24 09:10
705-2922-8	HAM-PT-07-07-28-FIL	Water	07/28/24 00:00	07/29/24 09:10

Login Sample Receipt Checklist

Client: Geosyntec Consultants Inc

Job Number: 705-2922-1

Login Number: 2922

List Source: Eurofins Atlanta

List Number: 1

Creator: Pomuti, Carmen

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	Not present
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	False	No date or time on COC or sample containers
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	False	Limited volume received.
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	False	Insufficient volume received for requested analysis.
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

END OF REPORT

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ANALYTICAL REPORT

PREPARED FOR

Attn: Kip Gray
Geosyntec Consultants Inc
1255 Roberts Blvd. NW
Suite 200
Kennesaw, Georgia 30144

Generated 7/31/2024 3:22:12 PM

JOB DESCRIPTION

Plant Hammond

JOB NUMBER

705-2983-1

Eurofins Atlanta
3080 Presidential Dr
Atlanta GA 30340

See page two for job notes and contact information.

my EOL

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization

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Authorized for release by
David Fuller, Project Manager
David.Fuller@et.eurofinsus.com
(770)344-8986

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Definitions/Glossary

Client: Geosyntec Consultants Inc
Job ID: 705-2983-1
Project/Site: Plant Hammond

Qualifiers

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Eurofins Atlanta
3080 Presidential Dr
Atlanta, GA 30340
Phone (770) 457-8177

Chain of Custody Record

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Client Information	Sampler: Zain Webb	Lab PM: David Fuller / Phone 770-344-8986	Carrier Tracking No(s):	COC No:
Client Contact: Kip Gray	Phone: 404-434-2074	E-Mail: David.Fuller@et.eurofinsus.com	State of Origin: GA	Page: Page 1 of 2
Company: Geosyntec Consultants Inc	PWSID	Analysis Requested		Job #:
Address: 1255 Roberts Blvd, NW Suite 200	Due Date Requested			Preservation Codes: D - HNO3
City: Kennesaw	TAT Requested (days): RUSH / 1 Day TAT			
State, Zip: GA, 30144	Compliance Project: Δ Yes Δ No			
Phone:	Lab Project #: 70500911 (DO NOT REMOVE)			
Email: Kip.Gray@Geosyntec.com	PO #: 100061163			
Project Name: Plant Hammond	Project #: GW6581G			
Task Code: Task Code#	SSOW#:			Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010D - Total Boron	6020B - Total Arsenic and Iron	6020B - Total Iron and Molybdenum		6010D - Dissolved Boron - Field Filtered (FF)	6020B - Dissolved Arsenic and Iron (FF)	6020B - Dissolved Iron and Molybdenum (FF)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				D	D	D		D	D	D		
HAM-PT-07-07-29-FIL-AM	7/29/24	0905	G	W	Yes	No	-	-	-		X	X	-		
HAM-PT-07-07-29-UNF-AM	7/29/24	0905	G	W	No	No	X	X	-		-	-	-		
HAM-PT-14-07-29-FIL-AM	7/29/24	0905	G	W	Yes	No	-	-	-		X	X	-		
HAM-PT-14-07-29-UNF-AM	7/29/24	0905	G	W	No	No	X	X	-		-	-	-		
HAM-PT-07-07-29-FIL-PM	7/29/24	1843	G	W	Yes	No	-	-	-		X	X	-		
HAM-PT-07-07-29-UNF-PM	7/29/24	1843	G	W	No	No	X	X	-		-	-	-		
HAM-PT-14-07-29-FIL-PM	7/29/24	1833	G	W	Yes	No	-	-	-		X	X	-		
HAM-PT-14-07-29-UNF-PM	7/29/24	1833	G	W	No	No	X	X	-		-	-	-		10
															705 2983 COC
	ZW														
		7/29/24													

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I, II, III, IV, Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment.

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
[signature]	7/30/24 700		[signature]	7-30-24 7:00	
[signature]	7/30/24 9:00		[signature]	07 30 24 0900	Eurofins

Custody Seals Intact. Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks.	
		#2665	1.8°C

7/31/2024

Eurofins Atlanta
3080 Presidential Dr
Atlanta, GA 30340
Phone (770) 457-8177

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Zain Webb	Lab PM: David Fuller / Phone 770-344-8986	Carrier Tracking No(s):	COC No:
Client Contact: Kip Gray	Phone: 404-434-2074	E-Mail: David Fuller@et eurofinsus com	State of Origin: GA	Page: Page 2 of 2
Company: Geosyntec Consultants Inc	PWSID:			Job #:
Address: 1255 Roberts Blvd, NW Suite 200	Due Date Requested:			
City: Kennesaw	TAT Requested (days): RUSH / 1 Day TAT			
State, Zip: GA, 30144	Compliance Project: Δ Yes Δ No			
Phone:	Lab Project #: 70500911 (DO NOT REMOVE)			
Email: Kip Gray@Geosyntec.com	PO #: 100061163			
Project Name: Plant Hammond	Project #: GW6581G			
Task Code: Task Code#:	SSOW#:			

Analysis Requested

Preservation Codes: D - HNO3

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010D - Total Boron	6020B - Total Arsenic and Iron	6020B - Total Iron and Molybdenum		6010D - Dissolved Boron - Field Filtered (FF)	6020B - Dissolved Arsenic and Iron (FF)	6020B - Dissolved Iron and Molybdenum (FF)						Total Number of containers	Special Instructions/Note:
Preservation Code:							D	D	D		D	D	D							
HAM-PT-14-07-29-FIL-12	7/29/24	1200	G	W	Yes	No	—	—	—		X	X	—							
HAM-PT-14-07-29-UNF-12	7/29/24	1200	G	W	No	2	X	X	—		—	—	—							
HAM-PT-14-07-29-FIL-13	7/29/24	1300	G	W	Y	2	—	—	—		X	X	—							
HAM-PT-14-07-29-UNF-13	7/29/24	1300	G	W	2	2	X	X	—		—	—	—							
HAM-PT-14-07-29-FIL-15	7/29/24	1500	G	W	Y	2	—	—	—		X	X	—							
HAM-PT-14-07-29-UNF-15	7/29/24	1500	G	W	2	2	X	X	—		—	—	—							
		2W	9/29/24																	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I, II, III, IV, Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by:	Date	Time	Method of Shipment

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1					7/30/24 7:40	
2		7-30-24 9:00				
3						

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks.

Job Narrative
705-2983-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Receipt
The samples were received on 7/30/2024 9:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.8°C.

Metals
Method 6020B - Total Recoverable: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 705-5665 and analytical batch 705-5844 was outside control limits. Sample matrix interference is suspected.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-2983-1

Client Sample ID: HAM-PT-07-07-29-FIL-AM
Date Collected: 07/29/24 09:05
Date Received: 07/30/24 09:00

Lab Sample ID: 705-2983-1
Matrix: Water

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron, Dissolved	0.54		0.040	0.026	mg/L			07/30/24 13:17	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic, Dissolved	0.055		0.0050	0.0013	mg/L			07/30/24 16:46	1
Iron, Dissolved	6.4		0.040	0.018	mg/L			07/30/24 16:46	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-2983-1

Client Sample ID: HAM-PT-07-07-29-UNF-AM

Lab Sample ID: 705-2983-2

Date Collected: 07/29/24 09:05

Matrix: Water

Date Received: 07/30/24 09:00

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.60		0.040	0.026	mg/L		07/30/24 11:19	07/30/24 16:15	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.13		0.0050	0.0013	mg/L		07/30/24 11:11	07/30/24 17:44	1
Iron	26		0.040	0.018	mg/L		07/30/24 11:11	07/30/24 17:44	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-2983-1

Client Sample ID: HAM-PT-14-07-29-FIL-AM

Lab Sample ID: 705-2983-3

Date Collected: 07/29/24 09:05

Matrix: Water

Date Received: 07/30/24 09:00

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron, Dissolved	0.57		0.040	0.026	mg/L			07/30/24 13:20	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic, Dissolved	0.13		0.0050	0.0013	mg/L			07/30/24 16:49	1
Iron, Dissolved	16		0.40	0.18	mg/L			07/30/24 18:23	10

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-2983-1

Client Sample ID: HAM-PT-14-07-29-UNF-AM

Lab Sample ID: 705-2983-4

Date Collected: 07/29/24 09:05

Matrix: Water

Date Received: 07/30/24 09:00

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.62		0.040	0.026	mg/L		07/30/24 11:19	07/30/24 16:24	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.20		0.0050	0.0013	mg/L		07/30/24 11:11	07/30/24 17:46	1
Iron	52		0.40	0.18	mg/L		07/30/24 11:11	07/30/24 18:26	10

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-2983-1

Client Sample ID: HAM-PT-07-07-29-FIL-PM
Date Collected: 07/29/24 18:43
Date Received: 07/30/24 09:00

Lab Sample ID: 705-2983-5
Matrix: Water

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron, Dissolved	0.54		0.040	0.026	mg/L			07/30/24 13:23	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic, Dissolved	0.088		0.0050	0.0013	mg/L			07/30/24 16:51	1
Iron, Dissolved	12		0.040	0.018	mg/L			07/30/24 16:51	1

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-2983-1

Client Sample ID: HAM-PT-07-07-29-UNF-PM
Date Collected: 07/29/24 18:43
Date Received: 07/30/24 09:00

Lab Sample ID: 705-2983-6
Matrix: Water

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.56		0.040	0.026	mg/L		07/30/24 11:19	07/30/24 16:01	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.13		0.0050	0.0013	mg/L		07/30/24 11:11	07/30/24 17:49	1
Iron	23		0.040	0.018	mg/L		07/30/24 11:11	07/30/24 17:49	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-2983-1

Client Sample ID: HAM-PT-14-07-29-FIL-PM
Date Collected: 07/29/24 18:33
Date Received: 07/30/24 09:00

Lab Sample ID: 705-2983-7
Matrix: Water

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron, Dissolved	0.38		0.040	0.026	mg/L			07/30/24 13:26	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic, Dissolved	0.012		0.0050	0.0013	mg/L			07/30/24 16:53	1
Iron, Dissolved	70		0.40	0.18	mg/L			07/30/24 17:20	10

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-2983-1

Client Sample ID: HAM-PT-14-07-29-UNF-PM
Date Collected: 07/29/24 18:33
Date Received: 07/30/24 09:00

Lab Sample ID: 705-2983-8
Matrix: Water

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.43		0.040	0.026	mg/L		07/30/24 11:19	07/30/24 16:27	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.095		0.0050	0.0013	mg/L		07/30/24 11:11	07/30/24 17:56	1
Iron	110		0.40	0.18	mg/L		07/30/24 11:11	07/30/24 18:03	10

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-2983-1

Client Sample ID: HAM-PT-14-07-29-FIL-12
Date Collected: 07/29/24 12:00
Date Received: 07/30/24 09:00

Lab Sample ID: 705-2983-9
Matrix: Water

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron, Dissolved	0.50		0.040	0.026	mg/L			07/30/24 13:29	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic, Dissolved	0.019		0.0050	0.0013	mg/L			07/30/24 16:56	1
Iron, Dissolved	22		0.40	0.18	mg/L			07/30/24 18:21	10

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-2983-1

Client Sample ID: HAM-PT-14-07-29-UNF-12

Lab Sample ID: 705-2983-10

Date Collected: 07/29/24 12:00

Matrix: Water

Date Received: 07/30/24 09:00

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.46		0.040	0.026	mg/L		07/30/24 11:19	07/30/24 16:30	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.040		0.0050	0.0013	mg/L		07/30/24 11:11	07/30/24 17:37	1
Iron	64		0.40	0.18	mg/L		07/30/24 11:11	07/30/24 18:14	10

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-2983-1

Client Sample ID: HAM-PT-14-07-29-FIL-13
Date Collected: 07/29/24 13:00
Date Received: 07/30/24 09:00

Lab Sample ID: 705-2983-11
Matrix: Water

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron, Dissolved	0.36		0.040	0.026	mg/L			07/30/24 13:42	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic, Dissolved	0.022		0.0050	0.0013	mg/L			07/30/24 16:58	1
Iron, Dissolved	53		0.40	0.18	mg/L			07/30/24 17:22	10

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-2983-1

Client Sample ID: HAM-PT-14-07-29-UNF-13

Lab Sample ID: 705-2983-12

Date Collected: 07/29/24 13:00

Matrix: Water

Date Received: 07/30/24 09:00

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.46		0.040	0.026	mg/L		07/30/24 11:19	07/30/24 16:33	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.093		0.0050	0.0013	mg/L		07/30/24 11:11	07/30/24 17:58	1
Iron	120		0.40	0.18	mg/L		07/30/24 11:11	07/30/24 18:05	10

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-2983-1

Client Sample ID: HAM-PT-14-07-29-FIL-15
Date Collected: 07/29/24 15:00
Date Received: 07/30/24 09:00

Lab Sample ID: 705-2983-13
Matrix: Water

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron, Dissolved	0.31		0.040	0.026	mg/L			07/30/24 13:45	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic, Dissolved	0.020		0.0050	0.0013	mg/L			07/30/24 17:00	1
Iron, Dissolved	75		0.40	0.18	mg/L			07/30/24 17:25	10

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-2983-1

Client Sample ID: HAM-PT-14-07-29-UNF-15

Lab Sample ID: 705-2983-14

Date Collected: 07/29/24 15:00

Matrix: Water

Date Received: 07/30/24 09:00

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.36		0.040	0.026	mg/L		07/30/24 11:19	07/30/24 16:36	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.098		0.0050	0.0013	mg/L		07/30/24 11:11	07/30/24 18:00	1
Iron	160		0.40	0.18	mg/L		07/30/24 11:11	07/30/24 18:07	10

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 705-5670/1-A
Matrix: Water
Analysis Batch: 5777

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 5670

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	ND		0.040	0.026	mg/L		07/30/24 11:19	07/30/24 15:55	1

Lab Sample ID: LCS 705-5670/2-A
Matrix: Water
Analysis Batch: 5777

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 5670

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1.00	0.962		mg/L		96	80 - 120

Lab Sample ID: 705-2983-6 MS
Matrix: Water
Analysis Batch: 5777

Client Sample ID: HAM-PT-07-07-29-UNF-PM
Prep Type: Total/NA
Prep Batch: 5670

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	0.56		1.00	1.53		mg/L		97	75 - 125

Lab Sample ID: 705-2983-6 MSD
Matrix: Water
Analysis Batch: 5777

Client Sample ID: HAM-PT-07-07-29-UNF-PM
Prep Type: Total/NA
Prep Batch: 5670

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron	0.56		1.00	1.55		mg/L		99	75 - 125	1	20

Lab Sample ID: MB 705-5676/1-A
Matrix: Water
Analysis Batch: 5763

Client Sample ID: Method Blank
Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron, Dissolved	ND		0.040	0.026	mg/L			07/30/24 13:09	1

Lab Sample ID: LCS 705-5676/2-A
Matrix: Water
Analysis Batch: 5763

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron, Dissolved	1.00	1.01		mg/L		101	80 - 120

Lab Sample ID: LCSD 705-5676/3-A
Matrix: Water
Analysis Batch: 5763

Client Sample ID: Lab Control Sample Dup
Prep Type: Dissolved

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron, Dissolved	1.00	0.989		mg/L		99	80 - 120	2	20

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 705-5665/1-A
Matrix: Water
Analysis Batch: 5844

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 5665

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0050	0.0013	mg/L		07/30/24 11:11	07/30/24 17:33	1
Iron	ND		0.040	0.018	mg/L		07/30/24 11:11	07/30/24 17:33	1

Lab Sample ID: LCS 705-5665/2-A
Matrix: Water
Analysis Batch: 5844

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 5665

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.100	0.0875		mg/L		87	80 - 120
Iron	1.00	1.03		mg/L		103	80 - 120

Lab Sample ID: 705-2983-10 MS
Matrix: Water
Analysis Batch: 5844

Client Sample ID: HAM-PT-14-07-29-UNF-12
Prep Type: Total Recoverable
Prep Batch: 5665

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.047	J	0.100	0.125		mg/L		78	75 - 125

Lab Sample ID: 705-2983-10 MS
Matrix: Water
Analysis Batch: 5844

Client Sample ID: HAM-PT-14-07-29-UNF-12
Prep Type: Total Recoverable
Prep Batch: 5665

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	64		1.00	64.1	4	mg/L		1	75 - 125

Lab Sample ID: 705-2983-10 MSD
Matrix: Water
Analysis Batch: 5844

Client Sample ID: HAM-PT-14-07-29-UNF-12
Prep Type: Total Recoverable
Prep Batch: 5665

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	0.047	J	0.100	0.121	F1	mg/L		74	75 - 125	3	20

Lab Sample ID: 705-2983-10 MSD
Matrix: Water
Analysis Batch: 5844

Client Sample ID: HAM-PT-14-07-29-UNF-12
Prep Type: Total Recoverable
Prep Batch: 5665

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Iron	64		1.00	66.5	4	mg/L		236	75 - 125	4	20

Lab Sample ID: MB 705-5674/1-A
Matrix: Water
Analysis Batch: 5845

Client Sample ID: Method Blank
Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic, Dissolved	ND		0.0050	0.0013	mg/L			07/30/24 16:40	1
Iron, Dissolved	ND		0.040	0.018	mg/L			07/30/24 16:40	1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 705-5674/2-A
Matrix: Water
Analysis Batch: 5845

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Arsenic, Dissolved			0.100	0.0921		mg/L		92	80 - 120		
Iron, Dissolved			1.00	1.00		mg/L		100	80 - 120		

Lab Sample ID: LCSD 705-5674/3-A
Matrix: Water
Analysis Batch: 5845

Client Sample ID: Lab Control Sample Dup
Prep Type: Dissolved

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic, Dissolved			0.100	0.0934		mg/L		93	80 - 120	1	20
Iron, Dissolved			1.00	0.928		mg/L		93	80 - 120	8	20

Lab Chronicle

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-2983-1

Client Sample ID: HAM-PT-07-07-29-FIL-AM

Lab Sample ID: 705-2983-1

Date Collected: 07/29/24 09:05
Matrix: Water
Date Received: 07/30/24 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Analysis	6010D		1	5763	DAB	EET ATL	07/30/24 13:17
Dissolved	Analysis	6020B		1	5845	AD	EET ATL	07/30/24 16:46

Client Sample ID: HAM-PT-07-07-29-UNF-AM

Lab Sample ID: 705-2983-2

Date Collected: 07/29/24 09:05
Matrix: Water
Date Received: 07/30/24 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3010A			5670	BL	EET ATL	07/30/24 11:19
Total/NA	Analysis	6010D		1	5777	DAB	EET ATL	07/30/24 16:15
Total Recoverable	Prep	3005A			5665	BL	EET ATL	07/30/24 11:11
Total Recoverable	Analysis	6020B		1	5844	AD	EET ATL	07/30/24 17:44

Client Sample ID: HAM-PT-14-07-29-FIL-AM

Lab Sample ID: 705-2983-3

Date Collected: 07/29/24 09:05
Matrix: Water
Date Received: 07/30/24 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Analysis	6010D		1	5763	DAB	EET ATL	07/30/24 13:20
Dissolved	Analysis	6020B		1	5845	AD	EET ATL	07/30/24 16:49
Dissolved	Analysis	6020B		10	5845	AD	EET ATL	07/30/24 18:23

Client Sample ID: HAM-PT-14-07-29-UNF-AM

Lab Sample ID: 705-2983-4

Date Collected: 07/29/24 09:05
Matrix: Water
Date Received: 07/30/24 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3010A			5670	BL	EET ATL	07/30/24 11:19
Total/NA	Analysis	6010D		1	5777	DAB	EET ATL	07/30/24 16:24
Total Recoverable	Prep	3005A			5665	BL	EET ATL	07/30/24 11:11
Total Recoverable	Analysis	6020B		1	5844	AD	EET ATL	07/30/24 17:46
Total Recoverable	Prep	3005A			5665	BL	EET ATL	07/30/24 11:11
Total Recoverable	Analysis	6020B		10	5844	AD	EET ATL	07/30/24 18:26

Client Sample ID: HAM-PT-07-07-29-FIL-PM

Lab Sample ID: 705-2983-5

Date Collected: 07/29/24 18:43
Matrix: Water
Date Received: 07/30/24 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Analysis	6010D		1	5763	DAB	EET ATL	07/30/24 13:23
Dissolved	Analysis	6020B		1	5845	AD	EET ATL	07/30/24 16:51

Lab Chronicle

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-2983-1

Client Sample ID: HAM-PT-07-07-29-UNF-PM

Lab Sample ID: 705-2983-6

Date Collected: 07/29/24 18:43
Matrix: Water
Date Received: 07/30/24 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3010A			5670	BL	EET ATL	07/30/24 11:19
Total/NA	Analysis	6010D		1	5777	DAB	EET ATL	07/30/24 16:01
Total Recoverable	Prep	3005A			5665	BL	EET ATL	07/30/24 11:11
Total Recoverable	Analysis	6020B		1	5844	AD	EET ATL	07/30/24 17:49

Client Sample ID: HAM-PT-14-07-29-FIL-PM

Lab Sample ID: 705-2983-7

Date Collected: 07/29/24 18:33
Matrix: Water
Date Received: 07/30/24 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Analysis	6010D		1	5763	DAB	EET ATL	07/30/24 13:26
Dissolved	Analysis	6020B		1	5845	AD	EET ATL	07/30/24 16:53
Dissolved	Analysis	6020B		10	5845	AD	EET ATL	07/30/24 17:20

Client Sample ID: HAM-PT-14-07-29-UNF-PM

Lab Sample ID: 705-2983-8

Date Collected: 07/29/24 18:33
Matrix: Water
Date Received: 07/30/24 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3010A			5670	BL	EET ATL	07/30/24 11:19
Total/NA	Analysis	6010D		1	5777	DAB	EET ATL	07/30/24 16:27
Total Recoverable	Prep	3005A			5665	BL	EET ATL	07/30/24 11:11
Total Recoverable	Analysis	6020B		1	5844	AD	EET ATL	07/30/24 17:56
Total Recoverable	Prep	3005A			5665	BL	EET ATL	07/30/24 11:11
Total Recoverable	Analysis	6020B		10	5844	AD	EET ATL	07/30/24 18:03

Client Sample ID: HAM-PT-14-07-29-FIL-12

Lab Sample ID: 705-2983-9

Date Collected: 07/29/24 12:00
Matrix: Water
Date Received: 07/30/24 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Analysis	6010D		1	5763	DAB	EET ATL	07/30/24 13:29
Dissolved	Analysis	6020B		1	5845	AD	EET ATL	07/30/24 16:56
Dissolved	Analysis	6020B		10	5845	AD	EET ATL	07/30/24 18:21

Client Sample ID: HAM-PT-14-07-29-UNF-12

Lab Sample ID: 705-2983-10

Date Collected: 07/29/24 12:00
Matrix: Water
Date Received: 07/30/24 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3010A			5670	BL	EET ATL	07/30/24 11:19
Total/NA	Analysis	6010D		1	5777	DAB	EET ATL	07/30/24 16:30
Total Recoverable	Prep	3005A			5665	BL	EET ATL	07/30/24 11:11
Total Recoverable	Analysis	6020B		1	5844	AD	EET ATL	07/30/24 17:37

Lab Chronicle

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-2983-1

Client Sample ID: HAM-PT-14-07-29-UNF-12

Lab Sample ID: 705-2983-10

Date Collected: 07/29/24 12:00

Matrix: Water

Date Received: 07/30/24 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			5665	BL	EET ATL	07/30/24 11:11
Total Recoverable	Analysis	6020B		10	5844	AD	EET ATL	07/30/24 18:14

Client Sample ID: HAM-PT-14-07-29-FIL-13

Lab Sample ID: 705-2983-11

Date Collected: 07/29/24 13:00

Matrix: Water

Date Received: 07/30/24 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Analysis	6010D		1	5763	DAB	EET ATL	07/30/24 13:42
Dissolved	Analysis	6020B		1	5845	AD	EET ATL	07/30/24 16:58
Dissolved	Analysis	6020B		10	5845	AD	EET ATL	07/30/24 17:22

Client Sample ID: HAM-PT-14-07-29-UNF-13

Lab Sample ID: 705-2983-12

Date Collected: 07/29/24 13:00

Matrix: Water

Date Received: 07/30/24 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3010A			5670	BL	EET ATL	07/30/24 11:19
Total/NA	Analysis	6010D		1	5777	DAB	EET ATL	07/30/24 16:33
Total Recoverable	Prep	3005A			5665	BL	EET ATL	07/30/24 11:11
Total Recoverable	Analysis	6020B		1	5844	AD	EET ATL	07/30/24 17:58
Total Recoverable	Prep	3005A			5665	BL	EET ATL	07/30/24 11:11
Total Recoverable	Analysis	6020B		10	5844	AD	EET ATL	07/30/24 18:05

Client Sample ID: HAM-PT-14-07-29-FIL-15

Lab Sample ID: 705-2983-13

Date Collected: 07/29/24 15:00

Matrix: Water

Date Received: 07/30/24 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Analysis	6010D		1	5763	DAB	EET ATL	07/30/24 13:45
Dissolved	Analysis	6020B		1	5845	AD	EET ATL	07/30/24 17:00
Dissolved	Analysis	6020B		10	5845	AD	EET ATL	07/30/24 17:25

Client Sample ID: HAM-PT-14-07-29-UNF-15

Lab Sample ID: 705-2983-14

Date Collected: 07/29/24 15:00

Matrix: Water

Date Received: 07/30/24 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3010A			5670	BL	EET ATL	07/30/24 11:19
Total/NA	Analysis	6010D		1	5777	DAB	EET ATL	07/30/24 16:36
Total Recoverable	Prep	3005A			5665	BL	EET ATL	07/30/24 11:11
Total Recoverable	Analysis	6020B		1	5844	AD	EET ATL	07/30/24 18:00
Total Recoverable	Prep	3005A			5665	BL	EET ATL	07/30/24 11:11
Total Recoverable	Analysis	6020B		10	5844	AD	EET ATL	07/30/24 18:07

Client: Geosyntec Consultants Inc
Job ID: 705-2983-1
Project/Site: Plant Hammond

Laboratory References:

EET ATL = Eurofins Atlanta, 3080 Presidential Dr, Atlanta, GA 30340, TEL (770)457-8177

Accreditation/Certification Summary

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-2983-1

Laboratory: Eurofins Atlanta

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E87582	06-30-25

Method Summary

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-2983-1

Method	Method Description	Protocol	Laboratory
6010D	Metals (ICP)	SW846	EET ATL
6020B	Metals (ICP/MS)	SW846	EET ATL
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET ATL
3010A	Preparation, Total Metals	SW846	EET ATL

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET ATL = Eurofins Atlanta, 3080 Presidential Dr, Atlanta, GA 30340, TEL (770)457-8177

Sample Summary

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-2983-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
705-2983-1	HAM-PT-07-07-29-FIL-AM	Water	07/29/24 09:05	07/30/24 09:00
705-2983-2	HAM-PT-07-07-29-UNF-AM	Water	07/29/24 09:05	07/30/24 09:00
705-2983-3	HAM-PT-14-07-29-FIL-AM	Water	07/29/24 09:05	07/30/24 09:00
705-2983-4	HAM-PT-14-07-29-UNF-AM	Water	07/29/24 09:05	07/30/24 09:00
705-2983-5	HAM-PT-07-07-29-FIL-PM	Water	07/29/24 18:43	07/30/24 09:00
705-2983-6	HAM-PT-07-07-29-UNF-PM	Water	07/29/24 18:43	07/30/24 09:00
705-2983-7	HAM-PT-14-07-29-FIL-PM	Water	07/29/24 18:33	07/30/24 09:00
705-2983-8	HAM-PT-14-07-29-UNF-PM	Water	07/29/24 18:33	07/30/24 09:00
705-2983-9	HAM-PT-14-07-29-FIL-12	Water	07/29/24 12:00	07/30/24 09:00
705-2983-10	HAM-PT-14-07-29-UNF-12	Water	07/29/24 12:00	07/30/24 09:00
705-2983-11	HAM-PT-14-07-29-FIL-13	Water	07/29/24 13:00	07/30/24 09:00
705-2983-12	HAM-PT-14-07-29-UNF-13	Water	07/29/24 13:00	07/30/24 09:00
705-2983-13	HAM-PT-14-07-29-FIL-15	Water	07/29/24 15:00	07/30/24 09:00
705-2983-14	HAM-PT-14-07-29-UNF-15	Water	07/29/24 15:00	07/30/24 09:00

Login Sample Receipt Checklist

Client: Geosyntec Consultants Inc

Job Number: 705-2983-1

Login Number: 2983

List Source: Eurofins Atlanta

List Number: 1

Creator: Pomuti, Carmen

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	Not present
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	N/A	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

END OF REPORT

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ANALYTICAL REPORT

PREPARED FOR

Attn: Kip Gray
Geosyntec Consultants Inc
1255 Roberts Blvd. NW
Suite 200
Kennesaw, Georgia 30144

Generated 7/31/2024 8:41:36 PM

JOB DESCRIPTION

Plant Hammond

JOB NUMBER

705-3073-1

Eurofins Atlanta
3080 Presidential Dr
Atlanta GA 30340

See page two for job notes and contact information.

my EOL

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization

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7/31/2024 8:41:36 PM

Authorized for release by
David Fuller, Project Manager
David.Fuller@et.eurofinsus.com
(770)344-8986

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Definitions/Glossary

Client: Geosyntec Consultants Inc
Job ID: 705-3073-1
Project/Site: Plant Hammond

Qualifiers

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Eurofins Atlanta
3080 Presidential Dr
Atlanta, GA 30340
Phone (770) 457-8177

Chain of Custody Record

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Client Information	Sampler: Tevin W	Lab PM: David Fuller / Phone 770-344-8986	Carrier Tracking No(s):	COC No:
Client Contact: Kip Gray	Phone: 404-434-2074	E-Mail: David Fuller@et eurofinsus com	State of Origin: GA	Page: Page 1 of 1
Company: Geosyntec Consultants Inc	PWSID:			Job #:
Address: 1255 Roberts Blvd, NW Suite 200	Due Date Requested:			
City: Kennesaw	TAT Requested (days): RUSH / 1 Day TAT			
State, Zip: GA, 30144	Compliance Project: Δ Yes Δ No			
Phone:	Lab Project #: 70500911 (DO NOT REMOVE)			
Email: Kip Gray@Geosyntec.com	PO #: 100061163			
Project Name: Plant Hammond	Project #: GW6581G			
Task Code: Task Code#	SSOW#:			

Analysis Requested

Preservation Codes: D - HNO3

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010D - Total Boron	6020B - Total Arsenic and Iron	6020B - Total Iron and Molybdenum		6010D - Dissolved Boron - Field Filtered (FF)	6020B - Dissolved Arsenic and Iron (FF)	6020B - Dissolved Iron and Molybdenum (FF)						Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	D	D	D		D	D	D						X	
HAM-PT-07-07-30-UNF-AM	7/30/24	0855	G	W	No	No	X	X	—		—	—	—							
HAM-PT-07-07-30-FIL-AM	7/30/24	0855	G	W	Yes	No	—	—	—		X	X	—							
HAM-PT-14-07-30-UNF-AM	7/30/24	0905	G	W	No	No	X	X	—		—	—	—							
HAM-PT-14-07-30-FIL-AM	7/30/24	0905	G	W	Yes	No	—	—	—		X	X	—							
	24 7/30/24																			

705-3073 COC

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological	☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested I, II, III, IV, Other (specify)	Special Instructions/QC Requirements

Empty Kit Relinquished by:	Date	Time	Method of Shipment: Courier

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Sam Webb	7-30-24 1204			7-30 1204	eurofins
Relinquished by:	Date/Time: 7-30 1408	Company: eurofins	Received by: Anna Neal	Date/Time: 7-30-24 1600	Company: eurofins
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks: 0.8°C 2927

Job Narrative
705-3073-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Receipt
The samples were received on 7/30/2024 4:00 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.8°C.

Metals
Method 6020B - Total Recoverable: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 705-5829 and analytical batch 705-5986 was outside control limits. Sample matrix interference is suspected. The post digestion spike passed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-3073-1

Client Sample ID: HAM-PT-07-07-30-UNF-AM

Lab Sample ID: 705-3073-1

Date Collected: 07/30/24 08:55
Matrix: Water
Date Received: 07/30/24 16:00

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.62		0.040	0.026	mg/L		07/31/24 09:43	07/31/24 14:18	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.18		0.0050	0.0013	mg/L		07/31/24 09:43	07/31/24 15:43	1
Iron	31		0.040	0.018	mg/L		07/31/24 09:43	07/31/24 15:43	1

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-3073-1

Client Sample ID: HAM-PT-07-07-30-FIL-AM
Date Collected: 07/30/24 08:55
Date Received: 07/30/24 16:00

Lab Sample ID: 705-3073-2
Matrix: Water

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron, Dissolved	0.57		0.040	0.026	mg/L			07/31/24 15:26	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic, Dissolved	0.091		0.0050	0.0013	mg/L			07/31/24 14:25	1
Iron, Dissolved	12		0.040	0.018	mg/L			07/31/24 14:25	1

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-3073-1

Client Sample ID: HAM-PT-14-07-30-UNF-AM
Date Collected: 07/30/24 09:05
Date Received: 07/30/24 16:00

Lab Sample ID: 705-3073-3
Matrix: Water

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.63		0.040	0.026	mg/L		07/31/24 09:43	07/31/24 14:34	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.053		0.0050	0.0013	mg/L		07/31/24 09:43	07/31/24 15:32	1
Iron	25		0.040	0.018	mg/L		07/31/24 09:43	07/31/24 15:32	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-3073-1

Client Sample ID: HAM-PT-14-07-30-FIL-AM

Lab Sample ID: 705-3073-4

Date Collected: 07/30/24 09:05
Matrix: Water
Date Received: 07/30/24 16:00

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron, Dissolved	0.58		0.040	0.026	mg/L			07/31/24 15:29	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic, Dissolved	0.034		0.0050	0.0013	mg/L			07/31/24 14:27	1
Iron, Dissolved	19		0.040	0.018	mg/L			07/31/24 14:27	1

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 705-5830/1-A
Matrix: Water
Analysis Batch: 5965

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 5830

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	ND		0.040	0.026	mg/L		07/31/24 09:43	07/31/24 14:12	1

Lab Sample ID: LCS 705-5830/2-A
Matrix: Water
Analysis Batch: 5965

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 5830

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1.00	1.06		mg/L		106	80 - 120

Lab Sample ID: 705-3073-1 MS
Matrix: Water
Analysis Batch: 5965

Client Sample ID: HAM-PT-07-07-30-UNF-AM
Prep Type: Total/NA
Prep Batch: 5830

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	0.62		1.00	1.69		mg/L		107	75 - 125

Lab Sample ID: 705-3073-1 MSD
Matrix: Water
Analysis Batch: 5965

Client Sample ID: HAM-PT-07-07-30-UNF-AM
Prep Type: Total/NA
Prep Batch: 5830

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron	0.62		1.00	1.68		mg/L		106	75 - 125	1	20

Lab Sample ID: MB 705-5893/1-A
Matrix: Water
Analysis Batch: 5965

Client Sample ID: Method Blank
Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron, Dissolved	ND		0.040	0.026	mg/L			07/31/24 15:11	1

Lab Sample ID: LCS 705-5893/2-A
Matrix: Water
Analysis Batch: 5965

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron, Dissolved	1.00	1.03		mg/L		103	80 - 120

Lab Sample ID: LCSD 705-5893/3-A
Matrix: Water
Analysis Batch: 5965

Client Sample ID: Lab Control Sample Dup
Prep Type: Dissolved

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron, Dissolved	1.00	1.02		mg/L		102	80 - 120	1	20

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 705-5829/1-A
Matrix: Water
Analysis Batch: 5986

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 5829

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0050	0.0013	mg/L		07/31/24 09:43	07/31/24 15:27	1
Iron	ND		0.040	0.018	mg/L		07/31/24 09:43	07/31/24 15:27	1

Lab Sample ID: LCS 705-5829/2-A
Matrix: Water
Analysis Batch: 5986

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 5829

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.100	0.0891		mg/L		89	80 - 120
Iron	1.00	0.937		mg/L		94	80 - 120

Lab Sample ID: 705-3073-3 MS
Matrix: Water
Analysis Batch: 5986

Client Sample ID: HAM-PT-14-07-30-UNF-AM
Prep Type: Total Recoverable
Prep Batch: 5829

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.053		0.100	0.139		mg/L		85	75 - 125
Iron	25		1.00	25.4	4	mg/L		62	75 - 125

Lab Sample ID: 705-3073-3 MSD
Matrix: Water
Analysis Batch: 5986

Client Sample ID: HAM-PT-14-07-30-UNF-AM
Prep Type: Total Recoverable
Prep Batch: 5829

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	0.053		0.100	0.135		mg/L		82	75 - 125	2	20
Iron	25		1.00	25.2	4	mg/L		37	75 - 125	1	20

Lab Sample ID: MB 705-5859/1-A
Matrix: Water
Analysis Batch: 5987

Client Sample ID: Method Blank
Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic, Dissolved	ND		0.0050	0.0013	mg/L			07/31/24 14:18	1
Iron, Dissolved	ND		0.040	0.018	mg/L			07/31/24 14:18	1

Lab Sample ID: LCS 705-5859/2-A
Matrix: Water
Analysis Batch: 5987

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic, Dissolved	0.100	0.0902		mg/L		90	80 - 120
Iron, Dissolved	1.00	0.944		mg/L		94	80 - 120

Lab Sample ID: LCSD 705-5859/3-A
Matrix: Water
Analysis Batch: 5987

Client Sample ID: Lab Control Sample Dup
Prep Type: Dissolved

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic, Dissolved	0.100	0.0891		mg/L		89	80 - 120	1	20
Iron, Dissolved	1.00	0.932		mg/L		93	80 - 120	1	20

Lab Chronicle

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-3073-1

Client Sample ID: HAM-PT-07-07-30-UNF-AM

Lab Sample ID: 705-3073-1

Date Collected: 07/30/24 08:55
Matrix: Water
Date Received: 07/30/24 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3010A			5830	SA	EET ATL	07/31/24 09:43
Total/NA	Analysis	6010D		1	5965	DS	EET ATL	07/31/24 14:18
Total Recoverable	Prep	3005A			5829	SA	EET ATL	07/31/24 09:43
Total Recoverable	Analysis	6020B		1	5986	AD	EET ATL	07/31/24 15:43

Client Sample ID: HAM-PT-07-07-30-FIL-AM

Lab Sample ID: 705-3073-2

Date Collected: 07/30/24 08:55
Matrix: Water
Date Received: 07/30/24 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Analysis	6010D		1	5965	DS	EET ATL	07/31/24 15:26
Dissolved	Analysis	6020B		1	5987	AD	EET ATL	07/31/24 14:25

Client Sample ID: HAM-PT-14-07-30-UNF-AM

Lab Sample ID: 705-3073-3

Date Collected: 07/30/24 09:05
Matrix: Water
Date Received: 07/30/24 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3010A			5830	SA	EET ATL	07/31/24 09:43
Total/NA	Analysis	6010D		1	5965	DS	EET ATL	07/31/24 14:34
Total Recoverable	Prep	3005A			5829	SA	EET ATL	07/31/24 09:43
Total Recoverable	Analysis	6020B		1	5986	AD	EET ATL	07/31/24 15:32

Client Sample ID: HAM-PT-14-07-30-FIL-AM

Lab Sample ID: 705-3073-4

Date Collected: 07/30/24 09:05
Matrix: Water
Date Received: 07/30/24 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Analysis	6010D		1	5965	DS	EET ATL	07/31/24 15:29
Dissolved	Analysis	6020B		1	5987	AD	EET ATL	07/31/24 14:27

Laboratory References:

EET ATL = Eurofins Atlanta, 3080 Presidential Dr, Atlanta, GA 30340, TEL (770)457-8177

Accreditation/Certification Summary

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-3073-1

Laboratory: Eurofins Atlanta

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E87582	06-30-25

Method Summary

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-3073-1

Method	Method Description	Protocol	Laboratory
6010D	Metals (ICP)	SW846	EET ATL
6020B	Metals (ICP/MS)	SW846	EET ATL
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET ATL
3010A	Preparation, Total Metals	SW846	EET ATL

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET ATL = Eurofins Atlanta, 3080 Presidential Dr, Atlanta, GA 30340, TEL (770)457-8177

Sample Summary

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-3073-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
705-3073-1	HAM-PT-07-07-30-UNF-AM	Water	07/30/24 08:55	07/30/24 16:00
705-3073-2	HAM-PT-07-07-30-FIL-AM	Water	07/30/24 08:55	07/30/24 16:00
705-3073-3	HAM-PT-14-07-30-UNF-AM	Water	07/30/24 09:05	07/30/24 16:00
705-3073-4	HAM-PT-14-07-30-FIL-AM	Water	07/30/24 09:05	07/30/24 16:00

Login Sample Receipt Checklist

Client: Geosyntec Consultants Inc

Job Number: 705-3073-1

Login Number: 3073

List Source: Eurofins Atlanta

List Number: 1

Creator: Woods, Autumn

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	False	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

END OF REPORT

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ANALYTICAL REPORT

PREPARED FOR

Attn: Kip Gray
Geosyntec Consultants Inc
1255 Roberts Blvd. NW
Suite 200
Kennesaw, Georgia 30144

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JOB DESCRIPTION

Plant Hammond

JOB NUMBER

705-3104-1

Eurofins Atlanta
3080 Presidential Dr
Atlanta GA 30340

See page two for job notes and contact information.

my EOL

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization

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7/31/2024 8:23:17 PM

Authorized for release by
David Fuller, Project Manager
David.Fuller@et.eurofinsus.com
(770)344-8986

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Definitions/Glossary

Client: Geosyntec Consultants Inc
Job ID: 705-3104-1
Project/Site: Plant Hammond

Qualifiers

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

3080 Presidential Dr
Atlanta, GA 30340
Phone (770) 457-8177

Chain of Custody Record

eurofins | Environment Testing

7/31/2024

Client Information	Sampler: Zain W.	Lab PM: David Fuller / Phone. 770-344-8986	Carrier Tracking No(s):	COC No:
Client Contact: Kip Gray	Phone: 404-434-2074	E-Mail: David Fuller@et.eurofinsus.com	State of Origin: GA	Page: Page 1 of 1
Company: Geosyntec Consultants Inc	PWSID:			Job #:
Address: 1255 Roberts Blvd, NW Suite 200	Due Date Requested:			
City: Kennesaw	TAT Requested (days): RUSH / 1 Day TAT			
State, Zip: GA, 30144	Compliance Project: Δ Yes Δ No			
Phone:	Lab Project #: 70500911 (DO NOT REMOVE)			
Email: Kip Gray@Geosyntec.com	PO #: 100061163			
Project Name: Plant Hammond	Project #: GW6581G			
Task Code: Task Code#:	SSOW#:			

Analysis Requested

Preservation Codes: D - HNO3

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010D - Total Boron	6020B - Total Arsenic and Iron	6020B - Total Iron and Molybdenum	6010D - Dissolved Boron - Field Filtered (FF)	6020B - Dissolved Arsenic and Iron (FF)	6020B - Dissolved Iron and Molybdenum (FF)	Total Number of containers	Special Instructions/Note:
Preservation Code:							D	D	D	D	D	D		
HAM-PT-14-07-30_UNF-PM	7-30-24	1740	G	W	No	No	X	X	—	—	—	—		
HAM-PT-14-07-30-FIL-PM	7-30-24	1740	G	W	Yes	No	—	—	—	X	X	—		
HAM-PT-08-07-30-UNF-PM	7-30-24	1750	G	W	No	No	X	X	—	—	—	—		
HAM-PT-08-07-30-FIL-PM	7-30-24	1750	G	W	Yes	No	—	—	—	X	X	—		
HAM-PT-07-07-30-UNF-PM	7-30-24	1800	G	W	No	No	X	X	—	—	—	—		
HAM-PT-07-07-30-FIL-PM	7-30-24	1800	G	W	Yes	No	—	—	—	X	X	—		
HAM-PT-13-07-30-UNF-PM	7-30-24	1810	G	W	No	No	X	X	—	—	—	—		
HAM-PT-13-07-30-FIL-PM	7-30-24	1810	G	W	Yes	No	—	—	—	X	X	—		

ZW 7/30/24

705-3104 COC

Page 5 of 25

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested. I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date.	Time	Method of Shipment: Client

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Zain	7/31/24 705			7-31-24 705	
2		7-31-24 947		Anna Neal	7-31-24 947	Eurofins
3		Date/Time:	Company	Received by	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No

Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: #2665 4.3°C

Eurofins Atlanta
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Atlanta, GA 30340
Phone (770) 457-8177

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Zain W.	Lab PM: David Fuller / Phone: 770-344-8986	Carrier Tracking No(s):	COC No:
Client Contact: Kip Gray	Phone: 404-434-2074	E-Mail: David.Fuller@et.eurofinsus.com	State of Origin: GA	Page: Page 1 of 1
Company: Geosyntec Consultants Inc	PWSID:			Job #:
Address: 1255 Roberts Blvd, NW Suite 200	Due Date Requested:			
City: Kennesaw	TAT Requested (days): RUSH / 1 Day TAT			
State, Zip: GA, 30144	Compliance Project: Δ Yes Δ No			
Phone:	Lab Project #: 70500911 (DO NOT REMOVE)			
Email: Kip.Gray@Geosyntec.com	PO #: 100061163			
Project Name: Plant Hammond	Project #: GW6581G			
Task Code: Task Code#:	SSOW#:			

Analysis Requested

Preservation Codes: D - HNO3

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010D - Total Boron	6020B - Total Arsenic and Iron	6020B - Total Iron and Molybdenum		6010D - Dissolved Boron - Field Filtered (FF)	6020B - Dissolved Arsenic and Iron (FF)	6020B - Dissolved Iron and Molybdenum (FF)						Total Number of containers	Special Instructions/Note:
Preservation Code:							D	D	D		D	D	D							
HAM-PT-14-07-30_UNF-PM	7-30-24	1740	G	W	No	No	X	X	-		-	-	-							
HAM-PT-14-07-30-FIL-PM	7-30-24	1740	G	W	Yes	No	-	-	-		X	X	-							
HAM-PT-08-07-30-UNF-PM	7-30-24	1750	G	W	No	No	X	X	-		-	-	-							
HAM-PT-08-07-30-FIL-PM	7-30-24	1750	G	W	Yes	No	-	-	-		X	X	-							
HAM-PT-07-07-30-UNF-PM	7-30-24	1800	G	W	No	No	X	X	-		-	-	-							
HAM-PT-07-07-30-FIL-PM	7-30-24	1800	G	W	Yes	No	-	-	-		X	X	-							
HAM-PT-13-07-30-UNF-PM	7-30-24	1810	G	W	No	No	X	X	-		-	-	-							
HAM-PT-13-07-30-FIL-PM	7-30-24	1810	G	W	Yes	No	-	-	-		X	X	-							

ZW 7/30/24

705-3104 COC

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment: Client

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	7/31/24 705		[signature]	7-31-24 7:05	
Relinquished by: [signature]	Date/Time: 7-31-24 9:47	Company	Received by: Anna Neal	Date/Time: 7-31-24 947	Company EUROFINS
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: #2665 4.3°C

3080 Presidential Dr
Atlanta, GA 30340
Phone (770) 457-8177

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Zain W	Lab PM: David Fuller / Phone 770-344-8986	Carrier Tracking No(s):	COC No:
Client Contact: Kip Gray	Phone: 404-434-2074	E-Mail: David Fuller@et.eurofinsus com	State of Origin: GA	Page: Page 1 of 1
Company: Geosyntec Consultants Inc	PWSID			Job #:
Address: 1255 Roberts Blvd, NW Suite 200	Due Date Requested			
City: Kennesaw	TAT Requested (days): RUSH / 1 Day TAT			
State, Zip: GA, 30144	Compliance Project: Δ Yes Δ No			
Phone:	Lab Project #: 70500911 (DO NOT REMOVE)			
Email: Kip Gray@Geosyntec com	PO #: 100061163			
Project Name: Plant Hammond	Project #: GW6581G			
Task Code: Task Code#	SSOW#:			

Analysis Requested

Preservation Codes: D - HNO3

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010D - Total Boron	6020B - Total Arsenic and Iron	6020B - Total Iron and Molybdenum		6010D - Dissolved Boron - Field Filtered (FF)	6020B - Dissolved Arsenic and Iron (FF)	6020B - Dissolved Iron and Molybdenum (FF)							Total Number of containers	Special Instructions/Note:
			Preservation Code:				D	D	D		D	D	D								
HAM-PT-14-07-30_UNF-PM	7-30-24	1740	G	W	No	No	X	X	—		—	—	—								
HAM-PT-14-07-30-FIL-PM	7-30-24	1740	G	W	Yes	No	—	—	—		X	X	—								
HAM-PT-08-07-30-UNF-PM	7-30-24	1750	G	W	No	No	X	X	—		—	—	—								
HAM-PT-08-07-30-FIL-PM	7-30-24	1750	G	W	Yes	No	—	—	—		X	X	—								
HAM-PT-07-07-30-UNF-PM	7-30-24	1800	G	W	No	No	X	X	—		—	—	—								
HAM-PT-07-07-30-FIL-PM	7-30-24	1800	G	W	Yes	No	—	—	—		X	X	—								
HAM-PT-13-07-30-UNF-PM	7-30-24	1810	G	W	No	No	X	X	—		—	—	—								
HAM-PT-13-07-30-FIL-PM	7-30-24	1810	G	W	Yes	No	—	—	—		X	X	—								705 3104 COC
	ZW 7/30/24																				

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by:	Date	Time	Method of Shipment: Client

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
[signature]	7/31/24 705		[signature]	7-31-24 705	
[signature]	7-31-24 947		Anna Neal	7-31-24 947	ENVIRONS

Custody Seals Intact. Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks.
		#2665 4.3°C

7/31/2024

Job Narrative
705-3104-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Receipt
The samples were received on 7/31/2024 9:47 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.3°C.

Receipt Exceptions
The reference method requires samples to be preserved to a pH of <2. The following samples were received at a pH of 2, 3, and 2, respectively: HAM-PT-08-07-30-UNF-PM (705-3104-3), HAM-PT-07-07-30-UNF-PM (705-3104-5) and HAM-PT-13-07-30-UNF-PM (705-3104-7). HAM-PT-08-07-30-UNF-PM (705-3104-3), HAM-PT-07-07-30-UNF-PM (705-3104-5) and HAM-PT-13-07-30-UNF-PM (705-3104-7). The samples were preserved to the appropriate pH in the laboratory.

Metals
Method 6020B - Total Recoverable: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 705-5829 and analytical batch 705-5986 was outside control limits. Sample matrix interference is suspected. The post digestion spike passed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-3104-1

Client Sample ID: HAM-PT-14-07-30-UNF-PM
Date Collected: 07/30/24 17:40
Date Received: 07/31/24 09:47

Lab Sample ID: 705-3104-1
Matrix: Water

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.63		0.040	0.026	mg/L		07/31/24 12:18	07/31/24 15:44	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.11		0.0050	0.0013	mg/L		07/31/24 12:18	07/31/24 16:18	1
Iron	32		0.040	0.018	mg/L		07/31/24 12:18	07/31/24 16:18	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-3104-1

Client Sample ID: HAM-PT-14-07-30-FIL-PM

Lab Sample ID: 705-3104-2

Date Collected: 07/30/24 17:40

Matrix: Water

Date Received: 07/31/24 09:47

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron, Dissolved	0.59		0.040	0.026	mg/L			07/31/24 15:32	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic, Dissolved	0.054		0.0050	0.0013	mg/L			07/31/24 14:29	1
Iron, Dissolved	17		0.040	0.018	mg/L			07/31/24 14:29	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-3104-1

Client Sample ID: HAM-PT-08-07-30-UNF-PM

Lab Sample ID: 705-3104-3

Date Collected: 07/30/24 17:50

Matrix: Water

Date Received: 07/31/24 09:47

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.78		0.040	0.026	mg/L		07/31/24 12:18	07/31/24 15:47	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.34		0.0050	0.0013	mg/L		07/31/24 12:18	07/31/24 16:20	1
Iron	25		0.040	0.018	mg/L		07/31/24 12:18	07/31/24 16:20	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-3104-1

Client Sample ID: HAM-PT-08-07-30-FIL-PM

Lab Sample ID: 705-3104-4

Date Collected: 07/30/24 17:50
Matrix: Water
Date Received: 07/31/24 09:47

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron, Dissolved	0.70		0.040	0.026	mg/L			07/31/24 15:35	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic, Dissolved	0.12		0.0050	0.0013	mg/L			07/31/24 14:31	1
Iron, Dissolved	7.7		0.040	0.018	mg/L			07/31/24 14:31	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-3104-1

Client Sample ID: HAM-PT-07-07-30-UNF-PM

Lab Sample ID: 705-3104-5

Date Collected: 07/30/24 18:00

Matrix: Water

Date Received: 07/31/24 09:47

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.76		0.040	0.026	mg/L		07/31/24 12:18	07/31/24 15:51	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.39		0.0050	0.0013	mg/L		07/31/24 12:18	07/31/24 16:23	1
Iron	160		0.40	0.18	mg/L		07/31/24 12:18	07/31/24 16:46	10

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-3104-1

Client Sample ID: HAM-PT-07-07-30-FIL-PM
Lab Sample ID: 705-3104-6
Date Collected: 07/30/24 18:00
Matrix: Water
Date Received: 07/31/24 09:47

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron, Dissolved	0.59		0.040	0.026	mg/L			07/31/24 15:38	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic, Dissolved	0.045		0.0050	0.0013	mg/L			07/31/24 14:34	1
Iron, Dissolved	1.4		0.40	0.18	mg/L			07/31/24 16:44	10

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-3104-1

Client Sample ID: HAM-PT-13-07-30-UNF-PM

Lab Sample ID: 705-3104-7

Date Collected: 07/30/24 18:10
Matrix: Water
Date Received: 07/31/24 09:47

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.57		0.040	0.026	mg/L		07/31/24 12:18	07/31/24 16:00	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.17		0.0050	0.0013	mg/L		07/31/24 12:18	07/31/24 16:25	1
Iron	24		0.040	0.018	mg/L		07/31/24 12:18	07/31/24 16:25	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-3104-1

Client Sample ID: HAM-PT-13-07-30-FIL-PM

Lab Sample ID: 705-3104-8

Date Collected: 07/30/24 18:10

Matrix: Water

Date Received: 07/31/24 09:47

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron, Dissolved	0.56		0.040	0.026	mg/L			07/31/24 15:41	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic, Dissolved	0.076		0.0050	0.0013	mg/L			07/31/24 14:36	1
Iron, Dissolved	13		0.040	0.018	mg/L			07/31/24 14:36	1

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 705-5830/1-A
Matrix: Water
Analysis Batch: 5965

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 5830

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	ND		0.040	0.026	mg/L		07/31/24 09:43	07/31/24 14:12	1

Lab Sample ID: LCS 705-5830/2-A
Matrix: Water
Analysis Batch: 5965

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 5830

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Boron			1.00	1.06		mg/L		106	80 - 120		

Lab Sample ID: 705-3073-A-1-C MS
Matrix: Water
Analysis Batch: 5965

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 5830

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Boron	0.62		1.00	1.69		mg/L		107	75 - 125		

Lab Sample ID: 705-3073-A-1-D MSD
Matrix: Water
Analysis Batch: 5965

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 5830

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron	0.62		1.00	1.68		mg/L		106	75 - 125	1	20

Lab Sample ID: MB 705-5893/1-A
Matrix: Water
Analysis Batch: 5965

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	ND		0.040	0.026	mg/L			07/31/24 15:11	1
Boron, Dissolved	ND		0.040	0.026	mg/L			07/31/24 15:11	1

Lab Sample ID: LCS 705-5893/2-A
Matrix: Water
Analysis Batch: 5965

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Boron			1.00	1.03		mg/L		103	80 - 120		
Boron, Dissolved			1.00	1.03		mg/L		103	80 - 120		

Lab Sample ID: LCSD 705-5893/3-A
Matrix: Water
Analysis Batch: 5965

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron			1.00	1.02		mg/L		102	80 - 120	1	20
Boron, Dissolved			1.00	1.02		mg/L		102	80 - 120	1	20

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 705-5829/1-A
Matrix: Water
Analysis Batch: 5986

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 5829

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0050	0.0013	mg/L		07/31/24 09:43	07/31/24 15:27	1
Iron	ND		0.040	0.018	mg/L		07/31/24 09:43	07/31/24 15:27	1

Lab Sample ID: LCS 705-5829/2-A
Matrix: Water
Analysis Batch: 5986

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 5829

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.100	0.0891		mg/L		89	80 - 120
Iron	1.00	0.937		mg/L		94	80 - 120

Lab Sample ID: 705-3073-A-3-B MS
Matrix: Water
Analysis Batch: 5986

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 5829

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.053		0.100	0.139		mg/L		85	75 - 125
Iron	25		1.00	25.4	4	mg/L		62	75 - 125

Lab Sample ID: 705-3073-A-3-C MSD
Matrix: Water
Analysis Batch: 5986

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 5829

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	0.053		0.100	0.135		mg/L		82	75 - 125	2	20
Iron	25		1.00	25.2	4	mg/L		37	75 - 125	1	20

Lab Sample ID: MB 705-5859/1-A
Matrix: Water
Analysis Batch: 5987

Client Sample ID: Method Blank
Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic, Dissolved	ND		0.0050	0.0013	mg/L			07/31/24 14:18	1
Iron, Dissolved	ND		0.040	0.018	mg/L			07/31/24 14:18	1

Lab Sample ID: LCS 705-5859/2-A
Matrix: Water
Analysis Batch: 5987

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic, Dissolved	0.100	0.0902		mg/L		90	80 - 120
Iron, Dissolved	1.00	0.944		mg/L		94	80 - 120

Lab Sample ID: LCSD 705-5859/3-A
Matrix: Water
Analysis Batch: 5987

Client Sample ID: Lab Control Sample Dup
Prep Type: Dissolved

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic, Dissolved	0.100	0.0891		mg/L		89	80 - 120	1	20
Iron, Dissolved	1.00	0.932		mg/L		93	80 - 120	1	20

Lab Chronicle

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-3104-1

Client Sample ID: HAM-PT-14-07-30-UNF-PM
Lab Sample ID: 705-3104-1
Date Collected: 07/30/24 17:40
Matrix: Water
Date Received: 07/31/24 09:47

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3010A			5830	SA	EET ATL	07/31/24 12:18
Total/NA	Analysis	6010D		1	5965	DS	EET ATL	07/31/24 15:44
Total Recoverable	Prep	3005A			5829	SA	EET ATL	07/31/24 12:18
Total Recoverable	Analysis	6020B		1	5986	AD	EET ATL	07/31/24 16:18

Client Sample ID: HAM-PT-14-07-30-FIL-PM
Lab Sample ID: 705-3104-2
Date Collected: 07/30/24 17:40
Matrix: Water
Date Received: 07/31/24 09:47

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Analysis	6010D		1	5965	DS	EET ATL	07/31/24 15:32
Dissolved	Analysis	6020B		1	5987	AD	EET ATL	07/31/24 14:29

Client Sample ID: HAM-PT-08-07-30-UNF-PM
Lab Sample ID: 705-3104-3
Date Collected: 07/30/24 17:50
Matrix: Water
Date Received: 07/31/24 09:47

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3010A			5830	SA	EET ATL	07/31/24 12:18
Total/NA	Analysis	6010D		1	5965	DS	EET ATL	07/31/24 15:47
Total Recoverable	Prep	3005A			5829	SA	EET ATL	07/31/24 12:18
Total Recoverable	Analysis	6020B		1	5986	AD	EET ATL	07/31/24 16:20

Client Sample ID: HAM-PT-08-07-30-FIL-PM
Lab Sample ID: 705-3104-4
Date Collected: 07/30/24 17:50
Matrix: Water
Date Received: 07/31/24 09:47

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Analysis	6010D		1	5965	DS	EET ATL	07/31/24 15:35
Dissolved	Analysis	6020B		1	5987	AD	EET ATL	07/31/24 14:31

Client Sample ID: HAM-PT-07-07-30-UNF-PM
Lab Sample ID: 705-3104-5
Date Collected: 07/30/24 18:00
Matrix: Water
Date Received: 07/31/24 09:47

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3010A			5830	SA	EET ATL	07/31/24 12:18
Total/NA	Analysis	6010D		1	5965	DS	EET ATL	07/31/24 15:51
Total Recoverable	Prep	3005A			5829	SA	EET ATL	07/31/24 12:18
Total Recoverable	Analysis	6020B		1	5986	AD	EET ATL	07/31/24 16:23
Total Recoverable	Prep	3005A			5829	SA	EET ATL	07/31/24 12:18
Total Recoverable	Analysis	6020B		10	5986	AD	EET ATL	07/31/24 16:46

Lab Chronicle

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-3104-1

Client Sample ID: HAM-PT-07-07-30-FIL-PM

Lab Sample ID: 705-3104-6

Date Collected: 07/30/24 18:00
Matrix: Water
Date Received: 07/31/24 09:47

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Analysis	6010D		1	5965	DS	EET ATL	07/31/24 15:38
Dissolved	Analysis	6020B		1	5987	AD	EET ATL	07/31/24 14:34
Dissolved	Analysis	6020B		10	5987	AD	EET ATL	07/31/24 16:44

Client Sample ID: HAM-PT-13-07-30-UNF-PM

Lab Sample ID: 705-3104-7

Date Collected: 07/30/24 18:10
Matrix: Water
Date Received: 07/31/24 09:47

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3010A			5830	SA	EET ATL	07/31/24 12:18
Total/NA	Analysis	6010D		1	5965	DS	EET ATL	07/31/24 16:00
Total Recoverable	Prep	3005A			5829	SA	EET ATL	07/31/24 12:18
Total Recoverable	Analysis	6020B		1	5986	AD	EET ATL	07/31/24 16:25

Client Sample ID: HAM-PT-13-07-30-FIL-PM

Lab Sample ID: 705-3104-8

Date Collected: 07/30/24 18:10
Matrix: Water
Date Received: 07/31/24 09:47

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Analysis	6010D		1	5965	DS	EET ATL	07/31/24 15:41
Dissolved	Analysis	6020B		1	5987	AD	EET ATL	07/31/24 14:36

Laboratory References:

EET ATL = Eurofins Atlanta, 3080 Presidential Dr, Atlanta, GA 30340, TEL (770)457-8177

Accreditation/Certification Summary

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-3104-1

Laboratory: Eurofins Atlanta

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E87582	06-30-25

Method Summary

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-3104-1

Method	Method Description	Protocol	Laboratory
6010D	Metals (ICP)	SW846	EET ATL
6020B	Metals (ICP/MS)	SW846	EET ATL
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET ATL
3010A	Preparation, Total Metals	SW846	EET ATL

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET ATL = Eurofins Atlanta, 3080 Presidential Dr, Atlanta, GA 30340, TEL (770)457-8177

Sample Summary

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-3104-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
705-3104-1	HAM-PT-14-07-30-UNF-PM	Water	07/30/24 17:40	07/31/24 09:47
705-3104-2	HAM-PT-14-07-30-FIL-PM	Water	07/30/24 17:40	07/31/24 09:47
705-3104-3	HAM-PT-08-07-30-UNF-PM	Water	07/30/24 17:50	07/31/24 09:47
705-3104-4	HAM-PT-08-07-30-FIL-PM	Water	07/30/24 17:50	07/31/24 09:47
705-3104-5	HAM-PT-07-07-30-UNF-PM	Water	07/30/24 18:00	07/31/24 09:47
705-3104-6	HAM-PT-07-07-30-FIL-PM	Water	07/30/24 18:00	07/31/24 09:47
705-3104-7	HAM-PT-13-07-30-UNF-PM	Water	07/30/24 18:10	07/31/24 09:47
705-3104-8	HAM-PT-13-07-30-FIL-PM	Water	07/30/24 18:10	07/31/24 09:47

Login Sample Receipt Checklist

Client: Geosyntec Consultants Inc

Job Number: 705-3104-1

Login Number: 3104

List Source: Eurofins Atlanta

List Number: 1

Creator: Pomuti, Carmen

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	False	Limited volume received.
Sample Preservation Verified.	True	Refer to Job Narrative for details.
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

END OF REPORT

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Kip Gray
Geosyntec Consultants Inc
1255 Roberts Blvd. NW
Suite 200
Kennesaw, Georgia 30144

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JOB DESCRIPTION

Plant Hammond

JOB NUMBER

705-3342-1

Eurofins Atlanta
3080 Presidential Dr
Atlanta GA 30340

See page two for job notes and contact information.

myEOL

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization

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Authorized for release by
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(770)344-8986

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Definitions/Glossary

Client: Geosyntec Consultants Inc
Job ID: 705-3342-1
Project/Site: Plant Hammond

Qualifiers

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Eurofins Atlanta
3080 Presidential Dr
Atlanta, GA 30340
Phone (770) 457-8177

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Zain Webb	Lab PM: David Fuller / Phone: 770-344-8986	Carrier Tracking No(s):	COC No:
Client Contact: Kip Gray	Phone: 404-434-2074	E-Mail: David.Fuller@et.eurofinsus.com	State of Origin: GA	Page: Page 1 of 1
Company: Geosyntec Consultants Inc	PWSID:			Job #:
Address: 1255 Roberts Blvd, NW Suite 200	Due Date Requested:			
City: Kennesaw	TAT Requested (days): RUSH / 1 Day TAT			
State, Zip: GA, 30144	Compliance Project: Δ Yes Δ No			
Phone:	Lab Project #: 70500911 (DO NOT REMOVE)			
Email: Kip.Gray@Geosyntec.com	PO #: 100061163			
Project Name: Plant Hammond	Project #: GW6581G			
Task Code: Task Code#:	SSOW#:			

Analysis Requested

Preservation Codes: D - HNO3

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010D - Total Boron	6020B - Total Arsenic and Iron	6020B - Total Iron and Molybdenum		6010D - Dissolved Boron - Field Filtered (FF)	6020B - Dissolved Arsenic and Iron (FF)	6020B - Dissolved Iron and Molybdenum (FF)						Total Number of containers	Special Instructions/Note:
			Preservation Code:				D	D	D		D	D	D							
HAM-PT-14-07-31-UNF-AM	7-31-24	0910	G	W	No	No	X	X	–		–	–	–						1	
HAM-PT-14-07-31-FIL-AM	7-31-24	0910	G	W	Yes	No	–	–	–		X	X	–						1	
HAM-PT-07-07-31-UNF-AM	7-31-24	0940	G	W	No	No	X	X	–		–	–	–						1	
HAM-PT-07-07-31-FIL-AM	7-31-24	0940	G	W	Yes	No	–	–	–		X	X	–						1	
HAM-PT-08-07-31-UNF-AM	7-31-24	1000	G	W	No	No	X	X	–		–	–	–						1	
HAM-PT-08-07-31-FIL-AM	7-31-24	1000	G	W	Yes	No	–	–	–		X	X	–						1	
HAM-PT-13-07-31-UNF-AM	7-31-24	0950	G	W	No	No	X	X	–		–	–	–						1	
HAM-PT-13-07-31-FIL-AM	7-31-24	0950	G	W	Yes	No	–	–	–		X	X	–						1	
HAM-PT-14-07-31-UNF-PM	7-31-24	1540	G	W	No	No	X	X	–		–	–	–						1	
HAM-PT-14-07-31-FIL-PM	7-31-24	1540	G	W	Yes	No	–	–	–		X	X	–						1	
	ZW 7/31/24																			

705-3342 COC

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For ____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment: Client

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	Zain Webb	8-1-24 1511	Geosyntec	[signature]	8-1-24 1511	
2	[signature]	8-1-24 1555		[signature]	8-1-24 1551	
3	[signature]	8-1-24 1730		Anna Neal	8-1-24 1630	Eurofins

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 0.3°C IR2927

Ver: 04/02/2024

8/2/2024

Job ID: 705-3342-1 — Eurofins Atlanta

Job Narrative
705-3342-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Receipt
The samples were received on 8/1/2024 4:30 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.3°C.

Receipt Exceptions
The reference method requires samples to be preserved to a pH of less than 2. The following samples were received with a pH of 2, 2, 3, 2, and 2, respectively: HAM-PT-14-07-31-UNF-AM (705-3342-1), HAM-PT-07-07-31-UNF-AM (705-3342-3), HAM-PT-08-07-31-UNF-AM (705-3342-5), HAM-PT-13-07-31-UNF-AM (705-3342-7) and HAM-PT-14-07-31-UNF-PM (705-3342-9). The samples were preserved to the appropriate pH in the laboratory.

Metals
Method 6020B - Total Recoverable: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 705-6210 and analytical batch 705-6352 was outside control limits. Sample matrix interference is suspected.The post digestion spike passed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-3342-1

Client Sample ID: HAM-PT-14-07-31-UNF-AM

Lab Sample ID: 705-3342-1

Date Collected: 07/31/24 09:10

Matrix: Water

Date Received: 08/01/24 16:30

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.61		0.040	0.026	mg/L		08/02/24 07:56	08/02/24 13:18	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.18		0.0050	0.0013	mg/L		08/02/24 08:03	08/02/24 15:41	1
Iron	34		0.040	0.018	mg/L		08/02/24 08:03	08/02/24 15:41	1

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-3342-1

Client Sample ID: HAM-PT-14-07-31-FIL-AM
Date Collected: 07/31/24 09:10
Date Received: 08/01/24 16:30

Lab Sample ID: 705-3342-2
Matrix: Water

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron, Dissolved	0.56		0.040	0.026	mg/L			08/02/24 13:59	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic, Dissolved	0.11		0.0050	0.0013	mg/L			08/02/24 14:37	1
Iron, Dissolved	18		0.040	0.018	mg/L			08/02/24 14:37	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-3342-1

Client Sample ID: HAM-PT-07-07-31-UNF-AM

Lab Sample ID: 705-3342-3

Date Collected: 07/31/24 09:40

Matrix: Water

Date Received: 08/01/24 16:30

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.61		0.040	0.026	mg/L		08/02/24 07:56	08/02/24 13:38	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.44		0.0050	0.0013	mg/L		08/02/24 08:03	08/02/24 15:44	1
Iron	110		0.40	0.18	mg/L		08/02/24 08:03	08/02/24 16:16	10

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-3342-1

Client Sample ID: HAM-PT-07-07-31-FIL-AM

Lab Sample ID: 705-3342-4

Date Collected: 07/31/24 09:40
Matrix: Water
Date Received: 08/01/24 16:30

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron, Dissolved	0.51		0.040	0.026	mg/L			08/02/24 14:07	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic, Dissolved	0.030		0.0050	0.0013	mg/L			08/02/24 14:39	1
Iron, Dissolved	2.8		0.40	0.18	mg/L			08/02/24 16:19	10

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-3342-1

Client Sample ID: HAM-PT-08-07-31-UNF-AM

Lab Sample ID: 705-3342-5

Date Collected: 07/31/24 10:00
Matrix: Water
Date Received: 08/01/24 16:30

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.65		0.040	0.026	mg/L		08/02/24 07:56	08/02/24 13:41	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.43		0.0050	0.0013	mg/L		08/02/24 08:03	08/02/24 15:46	1
Iron	34		0.040	0.018	mg/L		08/02/24 08:03	08/02/24 15:46	1

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-3342-1

Client Sample ID: HAM-PT-08-07-31-FIL-AM
Date Collected: 07/31/24 10:00
Date Received: 08/01/24 16:30

Lab Sample ID: 705-3342-6
Matrix: Water

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron, Dissolved	0.61		0.040	0.026	mg/L			08/02/24 14:10	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic, Dissolved	0.16		0.0050	0.0013	mg/L			08/02/24 14:41	1
Iron, Dissolved	13		0.040	0.018	mg/L			08/02/24 14:41	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-3342-1

Client Sample ID: HAM-PT-13-07-31-UNF-AM

Lab Sample ID: 705-3342-7

Date Collected: 07/31/24 09:50
Matrix: Water
Date Received: 08/01/24 16:30

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.56		0.040	0.026	mg/L		08/02/24 07:56	08/02/24 13:44	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.22		0.0050	0.0013	mg/L		08/02/24 08:03	08/02/24 16:11	1
Iron	36		0.040	0.018	mg/L		08/02/24 08:03	08/02/24 16:11	1

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-3342-1

Client Sample ID: HAM-PT-13-07-31-FIL-AM
Date Collected: 07/31/24 09:50
Date Received: 08/01/24 16:30

Lab Sample ID: 705-3342-8
Matrix: Water

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron, Dissolved	0.54		0.040	0.026	mg/L			08/02/24 14:13	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic, Dissolved	0.13		0.0050	0.0013	mg/L			08/02/24 14:44	1
Iron, Dissolved	23		0.040	0.018	mg/L			08/02/24 14:44	1

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-3342-1

Client Sample ID: HAM-PT-14-07-31-UNF-PM
Date Collected: 07/31/24 15:40
Date Received: 08/01/24 16:30

Lab Sample ID: 705-3342-9
Matrix: Water

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.31		0.040	0.026	mg/L		08/02/24 07:56	08/02/24 13:47	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.051		0.0050	0.0013	mg/L		08/02/24 08:03	08/02/24 15:30	1
Iron	17		0.040	0.018	mg/L		08/02/24 08:03	08/02/24 15:30	1

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-3342-1

Client Sample ID: HAM-PT-14-07-31-FIL-PM
Date Collected: 07/31/24 15:40
Date Received: 08/01/24 16:30

Lab Sample ID: 705-3342-10
Matrix: Water

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron, Dissolved	0.32		0.040	0.026	mg/L			08/02/24 14:16	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic, Dissolved	0.014		0.0050	0.0013	mg/L			08/02/24 14:46	1
Iron, Dissolved	4.3		0.040	0.018	mg/L			08/02/24 14:46	1

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 705-6208/1-A
Matrix: Water
Analysis Batch: 6317

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 6208

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	ND		0.040	0.026	mg/L		08/02/24 07:56	08/02/24 13:12	1

Lab Sample ID: LCS 705-6208/2-A
Matrix: Water
Analysis Batch: 6317

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 6208

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1.00	0.989		mg/L		99	80 - 120

Lab Sample ID: 705-3342-1 MS
Matrix: Water
Analysis Batch: 6317

Client Sample ID: HAM-PT-14-07-31-UNF-AM
Prep Type: Total/NA
Prep Batch: 6208

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	0.61		1.00	1.59		mg/L		98	75 - 125

Lab Sample ID: 705-3342-1 MSD
Matrix: Water
Analysis Batch: 6317

Client Sample ID: HAM-PT-14-07-31-UNF-AM
Prep Type: Total/NA
Prep Batch: 6208

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron	0.61		1.00	1.60		mg/L		99	75 - 125	1	20

Lab Sample ID: MB 705-6286/1-A
Matrix: Water
Analysis Batch: 6317

Client Sample ID: Method Blank
Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron, Dissolved	ND		0.040	0.026	mg/L			08/02/24 13:50	1

Lab Sample ID: LCS 705-6286/2-A
Matrix: Water
Analysis Batch: 6317

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron, Dissolved	1.00	0.986		mg/L		99	80 - 120

Lab Sample ID: LCSD 705-6286/3-A
Matrix: Water
Analysis Batch: 6317

Client Sample ID: Lab Control Sample Dup
Prep Type: Dissolved

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron, Dissolved	1.00	0.978		mg/L		98	80 - 120	1	20

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 705-6210/1-A
Matrix: Water
Analysis Batch: 6352

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 6210

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0050	0.0013	mg/L		08/02/24 08:03	08/02/24 15:25	1
Iron	ND		0.040	0.018	mg/L		08/02/24 08:03	08/02/24 15:25	1

Lab Sample ID: LCS 705-6210/2-A
Matrix: Water
Analysis Batch: 6352

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 6210

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.100	0.0973		mg/L		97	80 - 120
Iron	1.00	0.953		mg/L		95	80 - 120

Lab Sample ID: 705-3342-9 MS
Matrix: Water
Analysis Batch: 6352

Client Sample ID: HAM-PT-14-07-31-UNF-PM
Prep Type: Total Recoverable
Prep Batch: 6210

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.051		0.100	0.152		mg/L		101	75 - 125
Iron	17		1.00	18.9	4	mg/L		161	75 - 125

Lab Sample ID: 705-3342-9 MSD
Matrix: Water
Analysis Batch: 6352

Client Sample ID: HAM-PT-14-07-31-UNF-PM
Prep Type: Total Recoverable
Prep Batch: 6210

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	0.051		0.100	0.148		mg/L		97	75 - 125	3	20
Iron	17		1.00	18.9	4	mg/L		163	75 - 125	0	20

Lab Sample ID: MB 705-6285/1-A
Matrix: Water
Analysis Batch: 6351

Client Sample ID: Method Blank
Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic, Dissolved	ND		0.0050	0.0013	mg/L			08/02/24 14:23	1
Iron, Dissolved	ND		0.040	0.018	mg/L			08/02/24 14:23	1

Lab Sample ID: LCS 705-6285/2-A
Matrix: Water
Analysis Batch: 6351

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic, Dissolved	0.100	0.0842		mg/L		84	80 - 120
Iron, Dissolved	1.00	1.04		mg/L		104	80 - 120

Lab Sample ID: LCSD 705-6285/3-A
Matrix: Water
Analysis Batch: 6351

Client Sample ID: Lab Control Sample Dup
Prep Type: Dissolved

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic, Dissolved	0.100	0.0863		mg/L		86	80 - 120	3	20
Iron, Dissolved	1.00	1.06		mg/L		106	80 - 120	3	20

Lab Chronicle

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-3342-1

Client Sample ID: HAM-PT-14-07-31-UNF-AM
Lab Sample ID: 705-3342-1
Date Collected: 07/31/24 09:10
Matrix: Water
Date Received: 08/01/24 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3010A			6208	BL	EET ATL	08/02/24 07:56
Total/NA	Analysis	6010D		1	6317	DAB	EET ATL	08/02/24 13:18
Total Recoverable	Prep	3005A			6210	BL	EET ATL	08/02/24 08:03
Total Recoverable	Analysis	6020B		1	6352	AD	EET ATL	08/02/24 15:41

Client Sample ID: HAM-PT-14-07-31-FIL-AM
Lab Sample ID: 705-3342-2
Date Collected: 07/31/24 09:10
Matrix: Water
Date Received: 08/01/24 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Analysis	6010D		1	6317	DAB	EET ATL	08/02/24 13:59
Dissolved	Analysis	6020B		1	6351	AD	EET ATL	08/02/24 14:37

Client Sample ID: HAM-PT-07-07-31-UNF-AM
Lab Sample ID: 705-3342-3
Date Collected: 07/31/24 09:40
Matrix: Water
Date Received: 08/01/24 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3010A			6208	BL	EET ATL	08/02/24 07:56
Total/NA	Analysis	6010D		1	6317	DAB	EET ATL	08/02/24 13:38
Total Recoverable	Prep	3005A			6210	BL	EET ATL	08/02/24 08:03
Total Recoverable	Analysis	6020B		1	6352	AD	EET ATL	08/02/24 15:44
Total Recoverable	Prep	3005A			6210	BL	EET ATL	08/02/24 08:03
Total Recoverable	Analysis	6020B		10	6352	AD	EET ATL	08/02/24 16:16

Client Sample ID: HAM-PT-07-07-31-FIL-AM
Lab Sample ID: 705-3342-4
Date Collected: 07/31/24 09:40
Matrix: Water
Date Received: 08/01/24 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Analysis	6010D		1	6317	DAB	EET ATL	08/02/24 14:07
Dissolved	Analysis	6020B		1	6351	AD	EET ATL	08/02/24 14:39
Dissolved	Analysis	6020B		10	6351	AD	EET ATL	08/02/24 16:19

Client Sample ID: HAM-PT-08-07-31-UNF-AM
Lab Sample ID: 705-3342-5
Date Collected: 07/31/24 10:00
Matrix: Water
Date Received: 08/01/24 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3010A			6208	BL	EET ATL	08/02/24 07:56
Total/NA	Analysis	6010D		1	6317	DAB	EET ATL	08/02/24 13:41
Total Recoverable	Prep	3005A			6210	BL	EET ATL	08/02/24 08:03
Total Recoverable	Analysis	6020B		1	6352	AD	EET ATL	08/02/24 15:46

Lab Chronicle

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-3342-1

Client Sample ID: HAM-PT-08-07-31-FIL-AM

Lab Sample ID: 705-3342-6

Date Collected: 07/31/24 10:00
Matrix: Water
Date Received: 08/01/24 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Analysis	6010D		1	6317	DAB	EET ATL	08/02/24 14:10
Dissolved	Analysis	6020B		1	6351	AD	EET ATL	08/02/24 14:41

Client Sample ID: HAM-PT-13-07-31-UNF-AM

Lab Sample ID: 705-3342-7

Date Collected: 07/31/24 09:50
Matrix: Water
Date Received: 08/01/24 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3010A			6208	BL	EET ATL	08/02/24 07:56
Total/NA	Analysis	6010D		1	6317	DAB	EET ATL	08/02/24 13:44
Total Recoverable	Prep	3005A			6210	BL	EET ATL	08/02/24 08:03
Total Recoverable	Analysis	6020B		1	6352	AD	EET ATL	08/02/24 16:11

Client Sample ID: HAM-PT-13-07-31-FIL-AM

Lab Sample ID: 705-3342-8

Date Collected: 07/31/24 09:50
Matrix: Water
Date Received: 08/01/24 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Analysis	6010D		1	6317	DAB	EET ATL	08/02/24 14:13
Dissolved	Analysis	6020B		1	6351	AD	EET ATL	08/02/24 14:44

Client Sample ID: HAM-PT-14-07-31-UNF-PM

Lab Sample ID: 705-3342-9

Date Collected: 07/31/24 15:40
Matrix: Water
Date Received: 08/01/24 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3010A			6208	BL	EET ATL	08/02/24 07:56
Total/NA	Analysis	6010D		1	6317	DAB	EET ATL	08/02/24 13:47
Total Recoverable	Prep	3005A			6210	BL	EET ATL	08/02/24 08:03
Total Recoverable	Analysis	6020B		1	6352	AD	EET ATL	08/02/24 15:30

Client Sample ID: HAM-PT-14-07-31-FIL-PM

Lab Sample ID: 705-3342-10

Date Collected: 07/31/24 15:40
Matrix: Water
Date Received: 08/01/24 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Analysis	6010D		1	6317	DAB	EET ATL	08/02/24 14:16
Dissolved	Analysis	6020B		1	6351	AD	EET ATL	08/02/24 14:46

Laboratory References:

EET ATL = Eurofins Atlanta, 3080 Presidential Dr, Atlanta, GA 30340, TEL (770)457-8177

Accreditation/Certification Summary

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-3342-1

Laboratory: Eurofins Atlanta

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E87582	06-30-25

Method Summary

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-3342-1

Method	Method Description	Protocol	Laboratory
6010D	Metals (ICP)	SW846	EET ATL
6020B	Metals (ICP/MS)	SW846	EET ATL
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET ATL
3010A	Preparation, Total Metals	SW846	EET ATL

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET ATL = Eurofins Atlanta, 3080 Presidential Dr, Atlanta, GA 30340, TEL (770)457-8177

Sample Summary

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-3342-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
705-3342-1	HAM-PT-14-07-31-UNF-AM	Water	07/31/24 09:10	08/01/24 16:30
705-3342-2	HAM-PT-14-07-31-FIL-AM	Water	07/31/24 09:10	08/01/24 16:30
705-3342-3	HAM-PT-07-07-31-UNF-AM	Water	07/31/24 09:40	08/01/24 16:30
705-3342-4	HAM-PT-07-07-31-FIL-AM	Water	07/31/24 09:40	08/01/24 16:30
705-3342-5	HAM-PT-08-07-31-UNF-AM	Water	07/31/24 10:00	08/01/24 16:30
705-3342-6	HAM-PT-08-07-31-FIL-AM	Water	07/31/24 10:00	08/01/24 16:30
705-3342-7	HAM-PT-13-07-31-UNF-AM	Water	07/31/24 09:50	08/01/24 16:30
705-3342-8	HAM-PT-13-07-31-FIL-AM	Water	07/31/24 09:50	08/01/24 16:30
705-3342-9	HAM-PT-14-07-31-UNF-PM	Water	07/31/24 15:40	08/01/24 16:30
705-3342-10	HAM-PT-14-07-31-FIL-PM	Water	07/31/24 15:40	08/01/24 16:30

Login Sample Receipt Checklist

Client: Geosyntec Consultants Inc

Job Number: 705-3342-1

Login Number: 3342

List Source: Eurofins Atlanta

List Number: 1

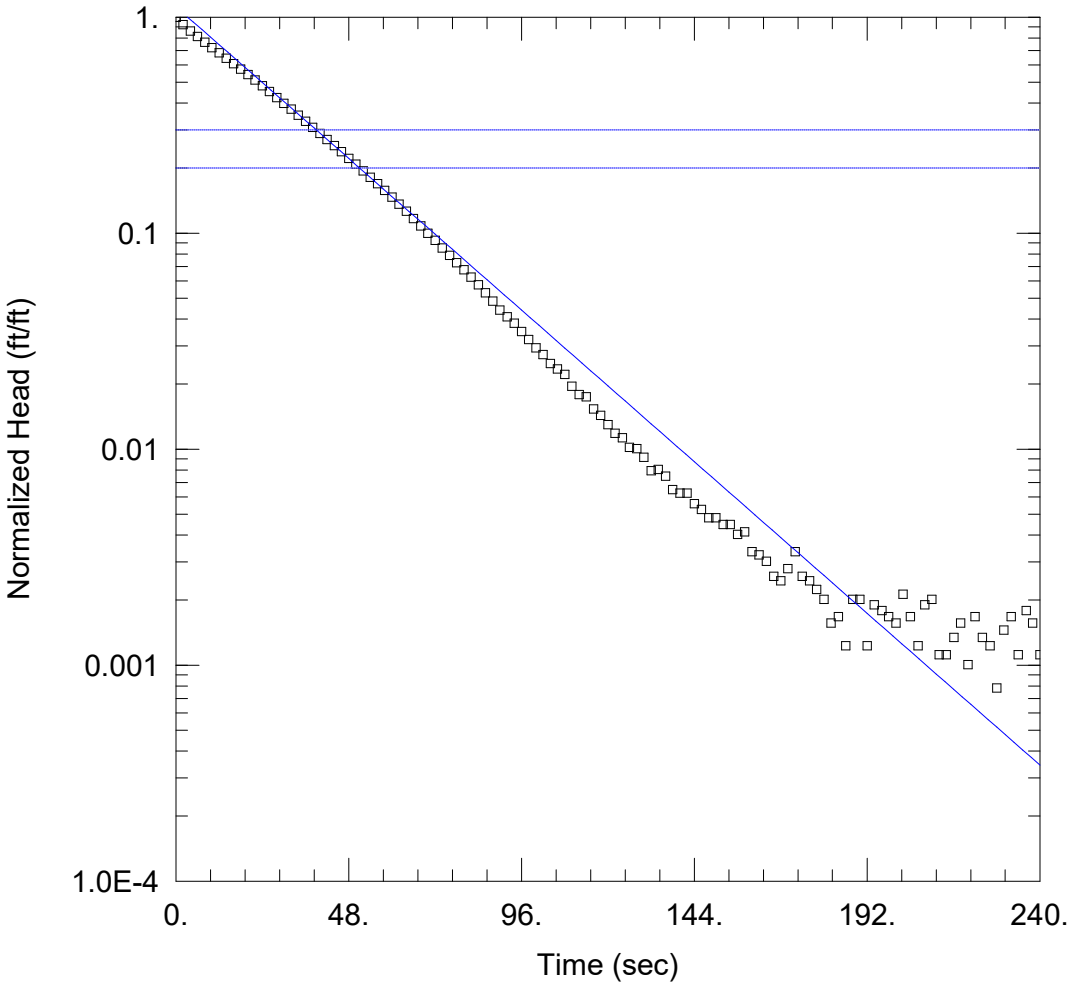
Creator: Maguire, Parris

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	Limited volume received.
Sample Preservation Verified.	True	UNF samples slightly above 2. adjusted in lab
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

END OF REPORT

APPENDIX B

Slug Test Graphical Solutions and Model Parameters



INW-03 TEST 1

Data Set: N:\...\INW-03_Test 1_BR.aqt
Date: 05/31/24 Time: 15:09:55

PROJECT INFORMATION

Company: Geosyntec
Client: Georgia Power
Project: GW6581G
Location: Plant Hammond
Test Well: INW-03
Test Date: 5/15/2024

AQUIFER DATA

Saturated Thickness: 15.1 ft Anisotropy Ratio (Kz/Kr): 0.1

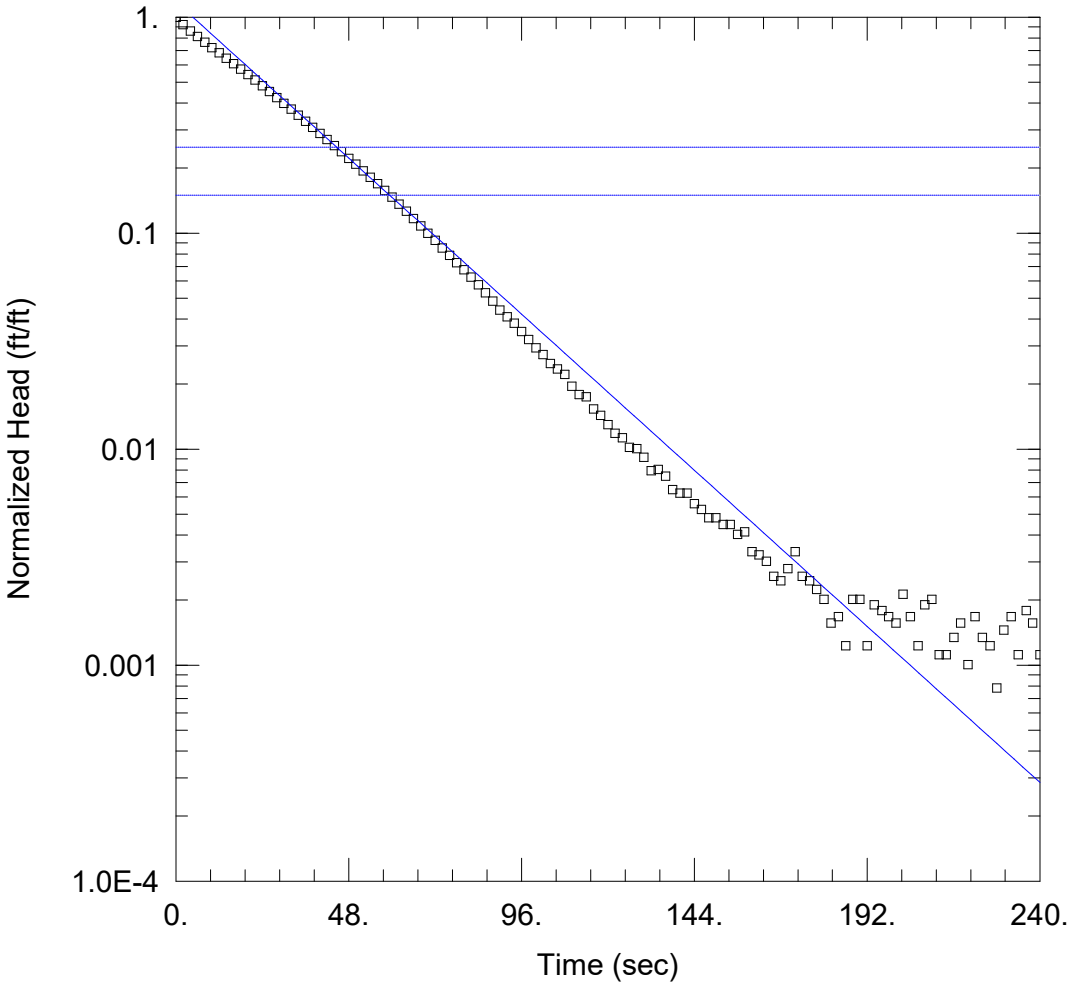
WELL DATA (INW-03)

Initial Displacement: 8.94 ft Static Water Column Height: 15.1 ft
Total Well Penetration Depth: 14.85 ft Screen Length: 10. ft
Casing Radius: 0.083 ft Well Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 3.39 ft/day y0 = 9.984 ft



INW-03 TEST 1

Data Set: N:\...\INW-03_Test 1_HV.aqt
Date: 05/31/24 Time: 15:08:57

PROJECT INFORMATION

Company: Geosyntec
Client: Georgia Power
Project: GW6581G
Location: Plant Hammond
Test Well: INW-03
Test Date: 5/15/2024

AQUIFER DATA

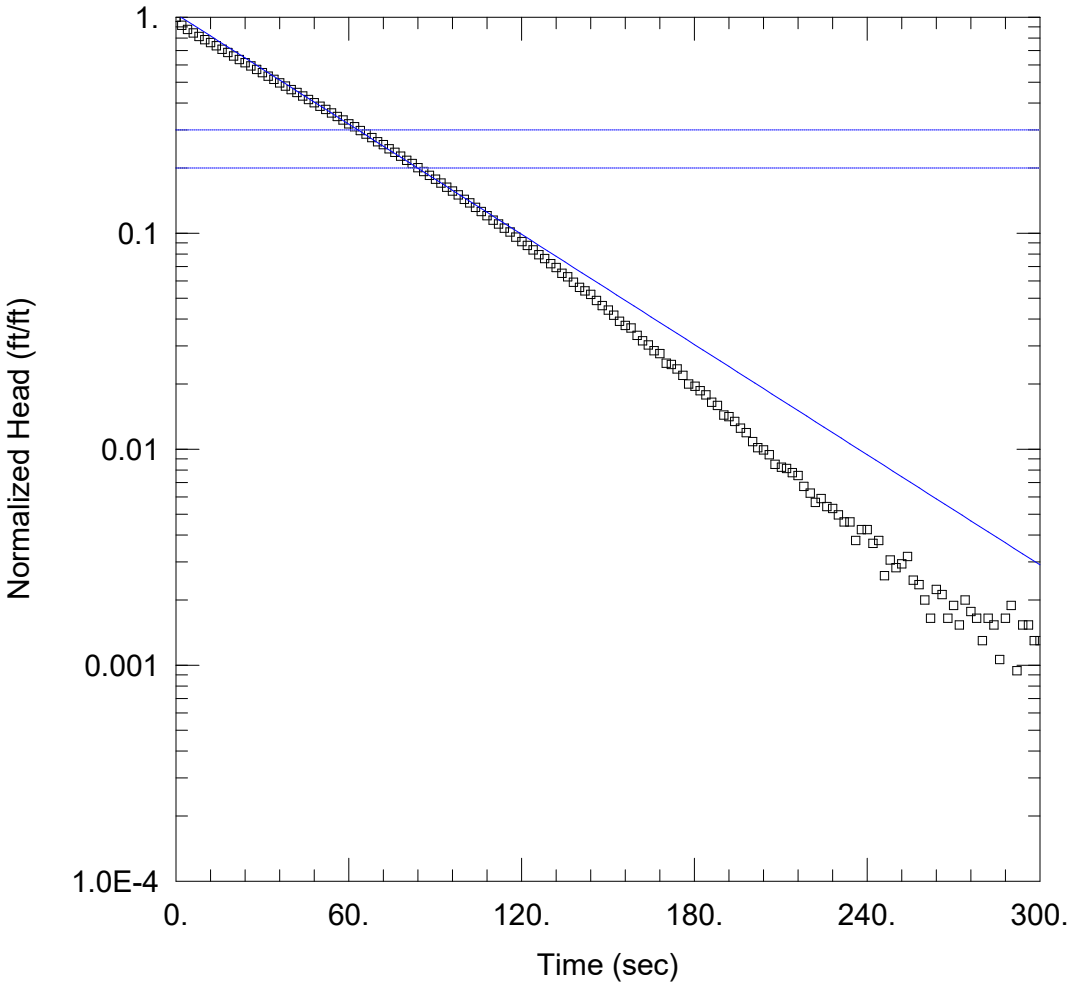
Saturated Thickness: 15.1 ft Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (INW-03)

Initial Displacement: 8.94 ft Static Water Column Height: 15.1 ft
Total Well Penetration Depth: 14.85 ft Screen Length: 10. ft
Casing Radius: 0.083 ft Well Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Hvorslev
K = 4.342 ft/day y0 = 10.5 ft



INW-03 TEST 2

Data Set: N:\...\INW-03_Test 2_BR.aqt
Date: 05/31/24 Time: 15:08:13

PROJECT INFORMATION

Company: Geosyntec
Client: Georgia Power
Project: GW6581G
Location: Plant Hammond
Test Well: INW-03
Test Date: 5/15/2024

AQUIFER DATA

Saturated Thickness: 15.1 ft Anisotropy Ratio (Kz/Kr): 0.1

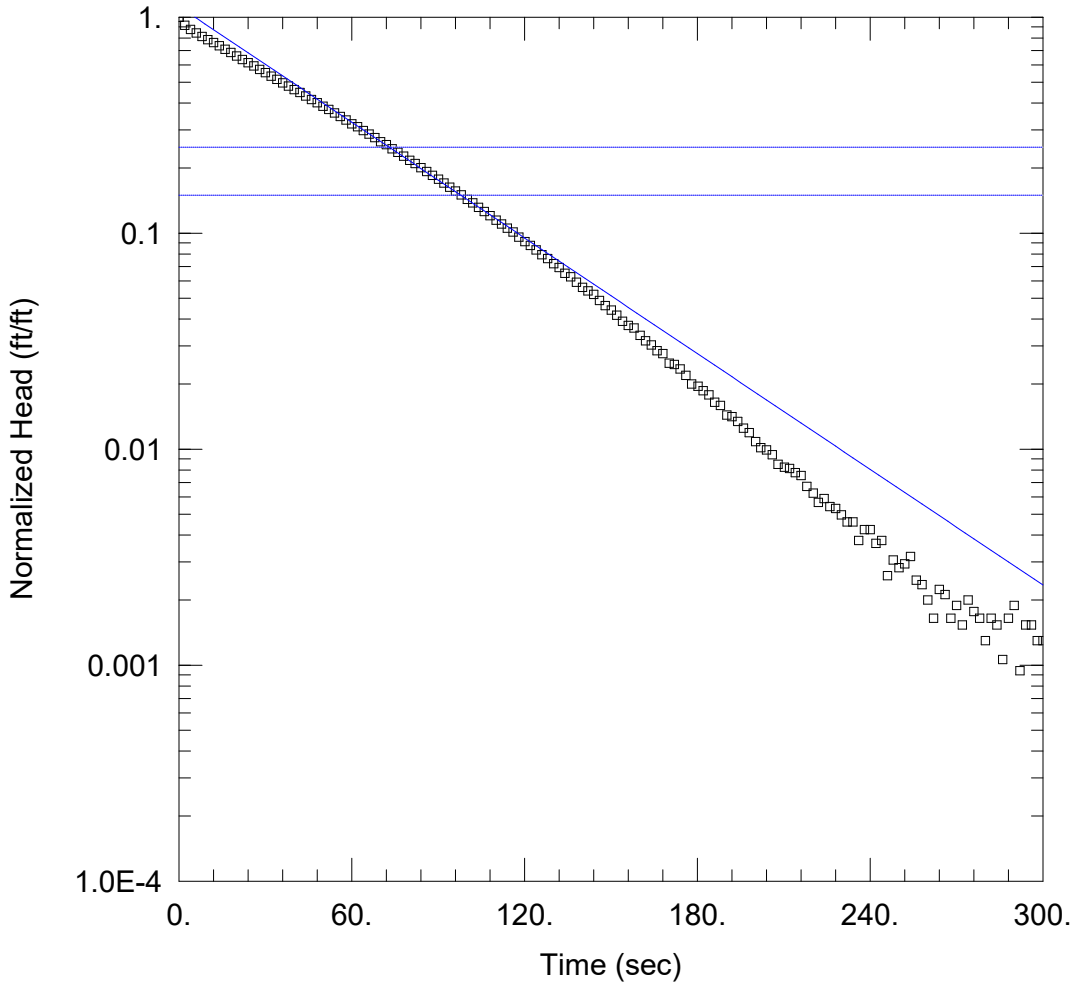
WELL DATA (INW-03)

Initial Displacement: 8.48 ft
Total Well Penetration Depth: 14.85 ft
Casing Radius: 0.083 ft
Static Water Column Height: 15.1 ft
Screen Length: 10. ft
Well Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 1.971 ft/day
y0 = 8.774 ft



INW-03 TEST 2

Data Set: N:\...\INW-03_Test 2_HV.aqt
Date: 05/31/24 Time: 15:07:21

PROJECT INFORMATION

Company: Geosyntec
Client: Georgia Power
Project: GW6581G
Location: Plant Hammond
Test Well: INW-03
Test Date: 5/15/2024

AQUIFER DATA

Saturated Thickness: 15.1 ft Anisotropy Ratio (Kz/Kr): 0.1

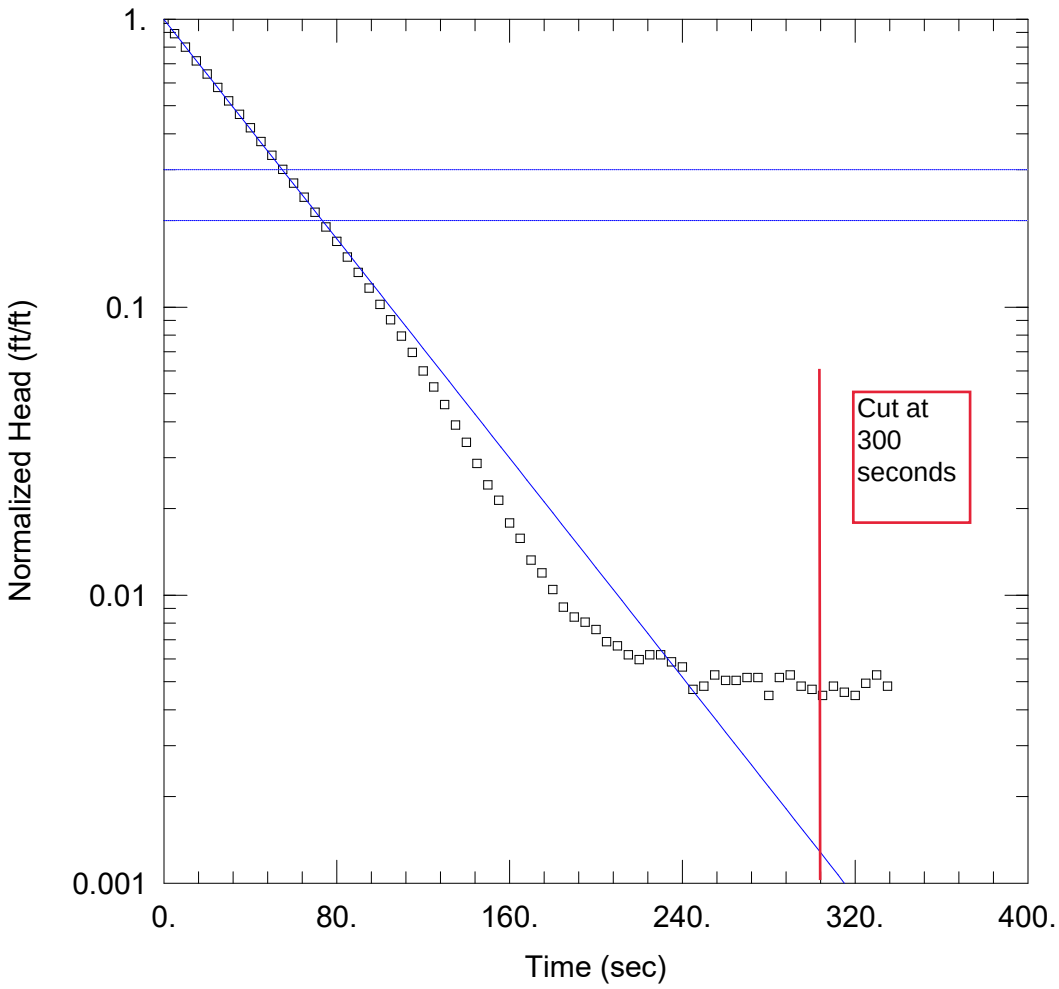
WELL DATA (INW-03)

Initial Displacement: 8.48 ft
Total Well Penetration Depth: 14.85 ft
Casing Radius: 0.083 ft
Static Water Column Height: 15.1 ft
Screen Length: 10. ft
Well Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Hvorslev

K = 2.575 ft/day y0 = 9.496 ft



INW-04 TEST 2

Data Set: N:\...\INW-04_Test 1_BR.aqt
Date: 05/31/24 Time: 14:07:34

PROJECT INFORMATION

Company: Geosyntec
Client: Georgia Power
Project: GW6581G
Location: Plant Hammond
Test Well: INW-04
Test Date: 5/14/2024

AQUIFER DATA

Saturated Thickness: 20.4 ft Anisotropy Ratio (Kz/Kr): 0.1

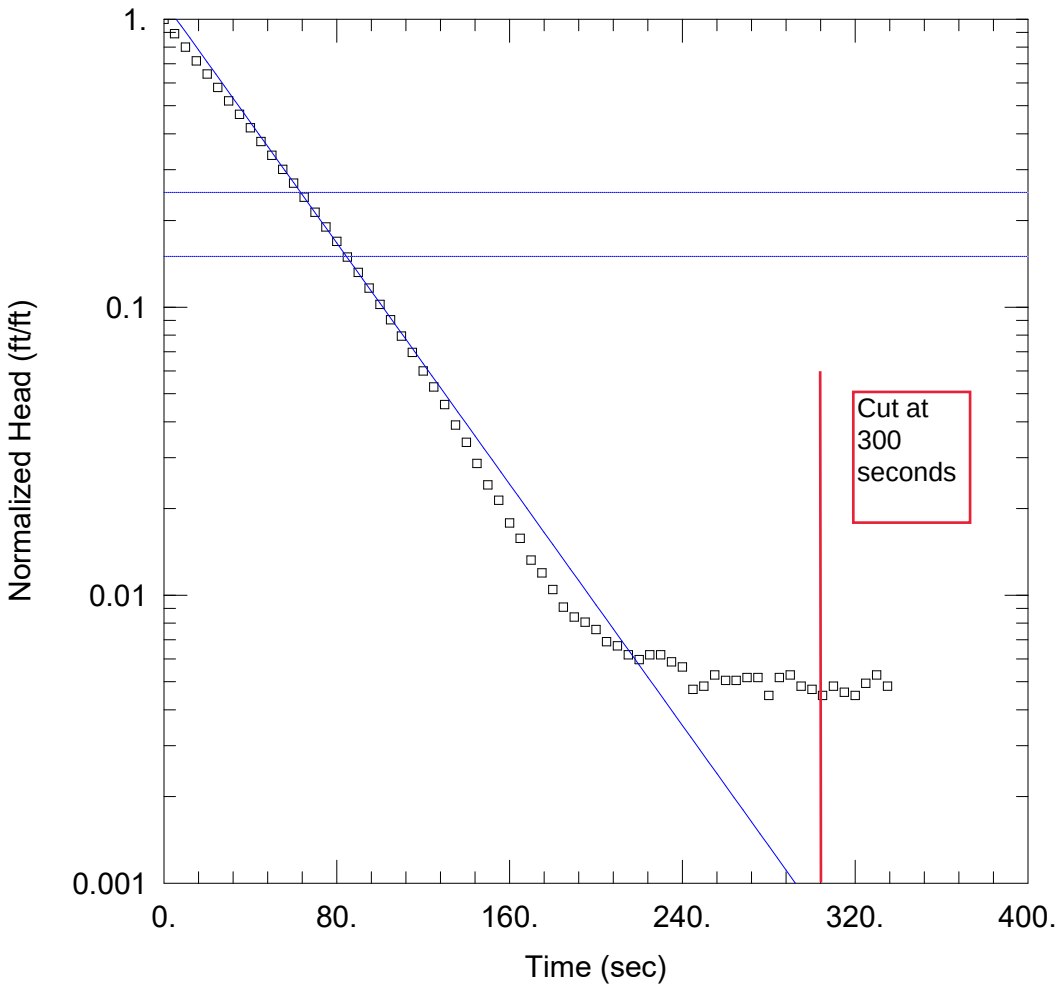
WELL DATA (INW-04)

Initial Displacement: 8.7 ft
Total Well Penetration Depth: 20.15 ft
Casing Radius: 0.083 ft
Static Water Column Height: 20.4 ft
Screen Length: 10. ft
Well Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 2.309 ft/day
y0 = 8.668 ft



INW-04 TEST 2

Data Set: N:\...\INW-04_Test 1_HV.aqt
Date: 05/31/24 Time: 14:08:24

PROJECT INFORMATION

Company: Geosyntec
Client: Georgia Power
Project: GW6581G
Location: Plant Hammond
Test Well: INW-04
Test Date: 5/14/2024

AQUIFER DATA

Saturated Thickness: 20.4 ft Anisotropy Ratio (Kz/Kr): 0.1

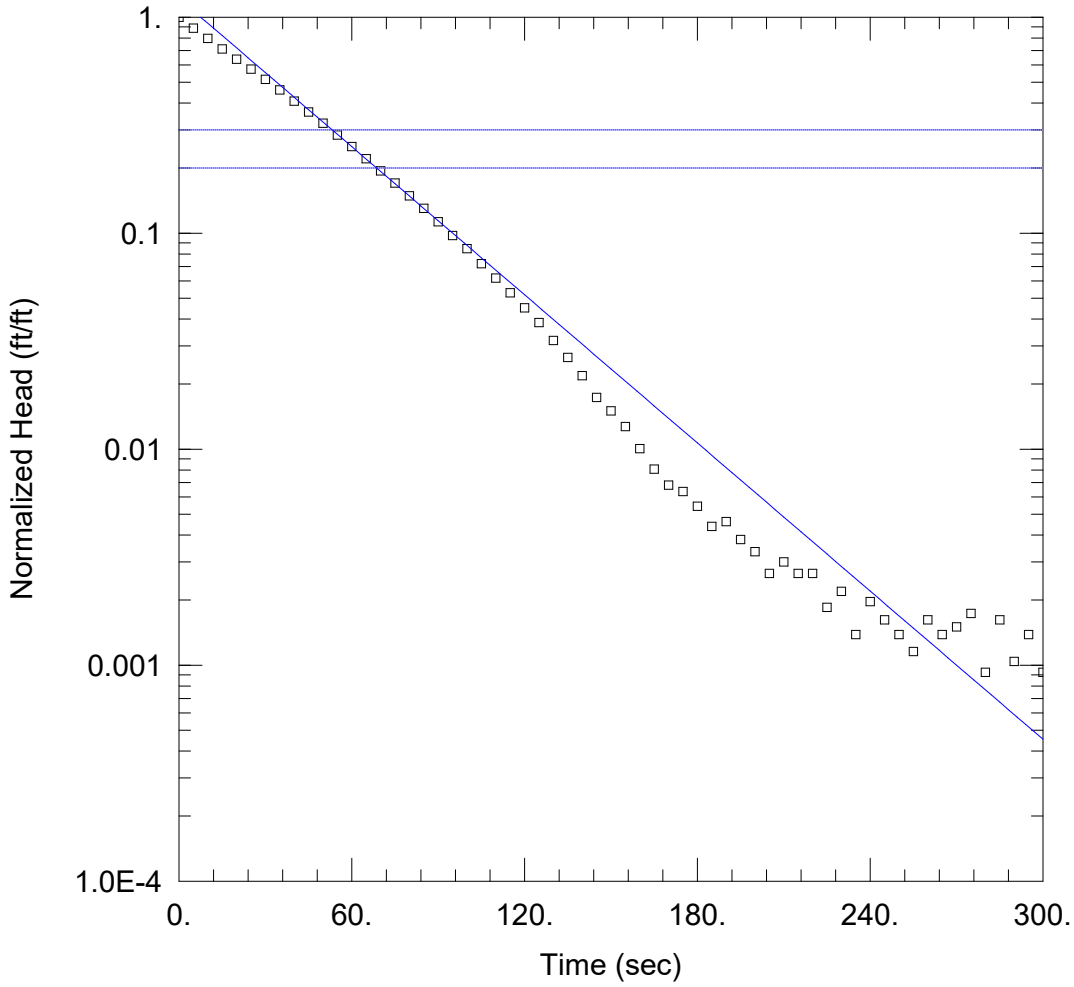
WELL DATA (INW-04)

Initial Displacement: 8.7 ft
Total Well Penetration Depth: 20.15 ft
Casing Radius: 0.083 ft
Static Water Column Height: 20.4 ft
Screen Length: 10. ft
Well Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Hvorslev

K = 3.019 ft/day y0 = 10. ft



INW-04 TEST 3

Data Set: N:\...\INW-04_Test 3_BR.aqt
Date: 05/31/24 Time: 14:28:49

PROJECT INFORMATION

Company: Geosyntec
Client: Georgia Power
Project: GW6581G
Location: Plant Hammond
Test Well: INW-04
Test Date: 5/14/2024

AQUIFER DATA

Saturated Thickness: 20.4 ft Anisotropy Ratio (Kz/Kr): 0.1

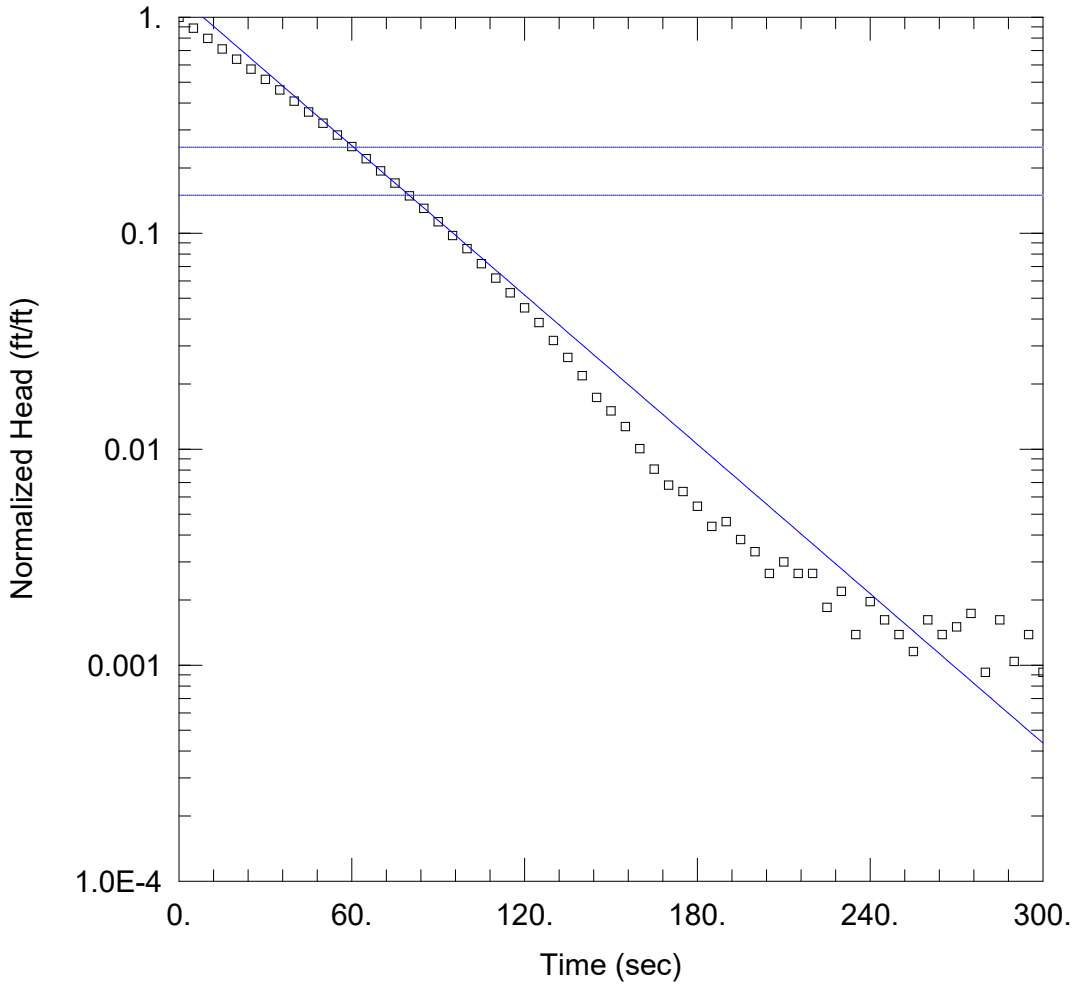
WELL DATA (INW-04)

Initial Displacement: 8.65 ft
Total Well Penetration Depth: 20.15 ft
Casing Radius: 0.083 ft
Static Water Column Height: 20.4 ft
Screen Length: 10. ft
Well Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 2.774 ft/day
y0 = 10.54 ft



INW-04 TEST 3

Data Set: N:\...\INW-04_Test 3_HV.aqt
Date: 05/31/24 Time: 14:28:01

PROJECT INFORMATION

Company: Geosyntec
Client: Georgia Power
Project: GW6581G
Location: Plant Hammond
Test Well: INW-04
Test Date: 5/14/2024

AQUIFER DATA

Saturated Thickness: 20.4 ft Anisotropy Ratio (Kz/Kr): 0.1

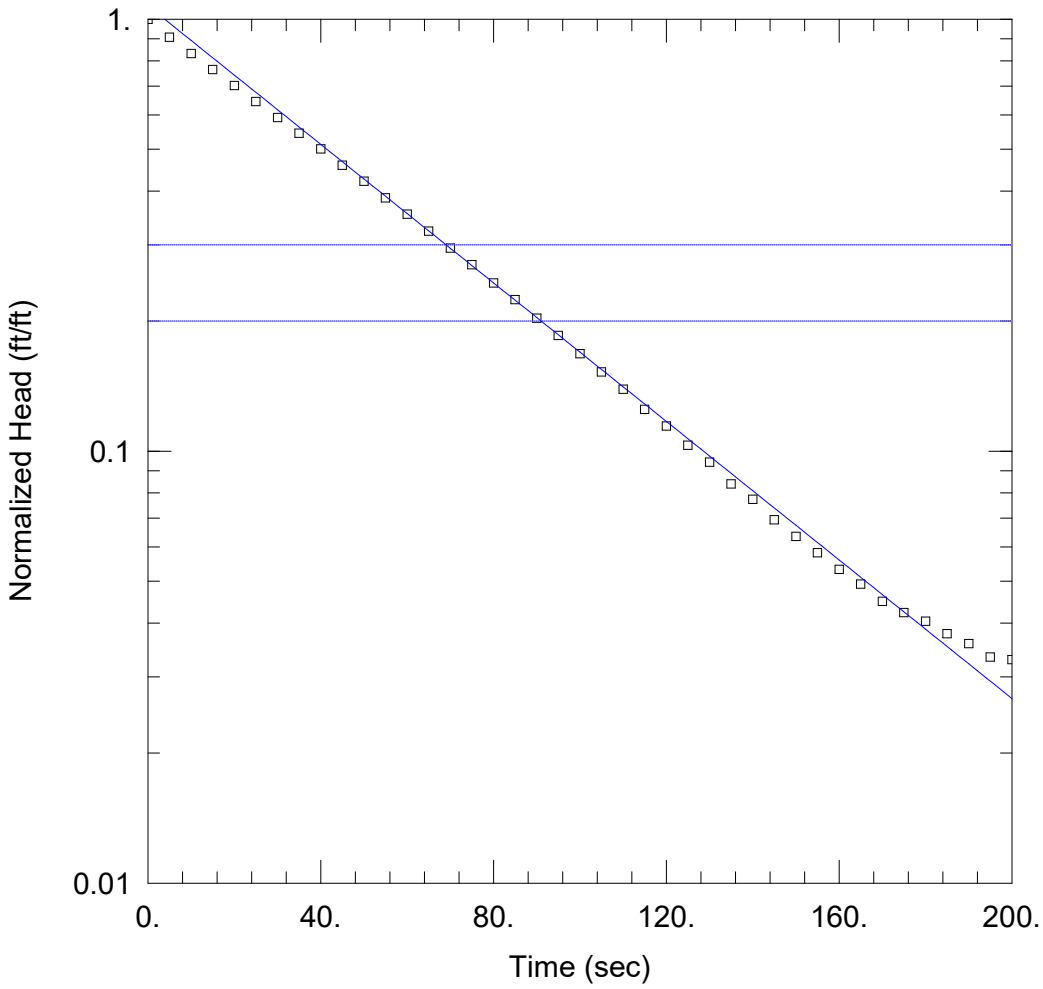
WELL DATA (INW-04)

Initial Displacement: 8.65 ft
Total Well Penetration Depth: 20.15 ft
Casing Radius: 0.083 ft
Static Water Column Height: 20.4 ft
Screen Length: 10. ft
Well Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Hvorslev

K = 3.323 ft/day y0 = 10.79 ft



INW-05 TEST 1

Data Set: N:\...\INW-05_Test 1_BR.aqt
Date: 05/31/24 Time: 14:39:36

PROJECT INFORMATION

Company: Geosyntec
Client: Georgia Power
Project: GW6581G
Location: Plant Hammond
Test Well: INW-05
Test Date: 5/14/2024

AQUIFER DATA

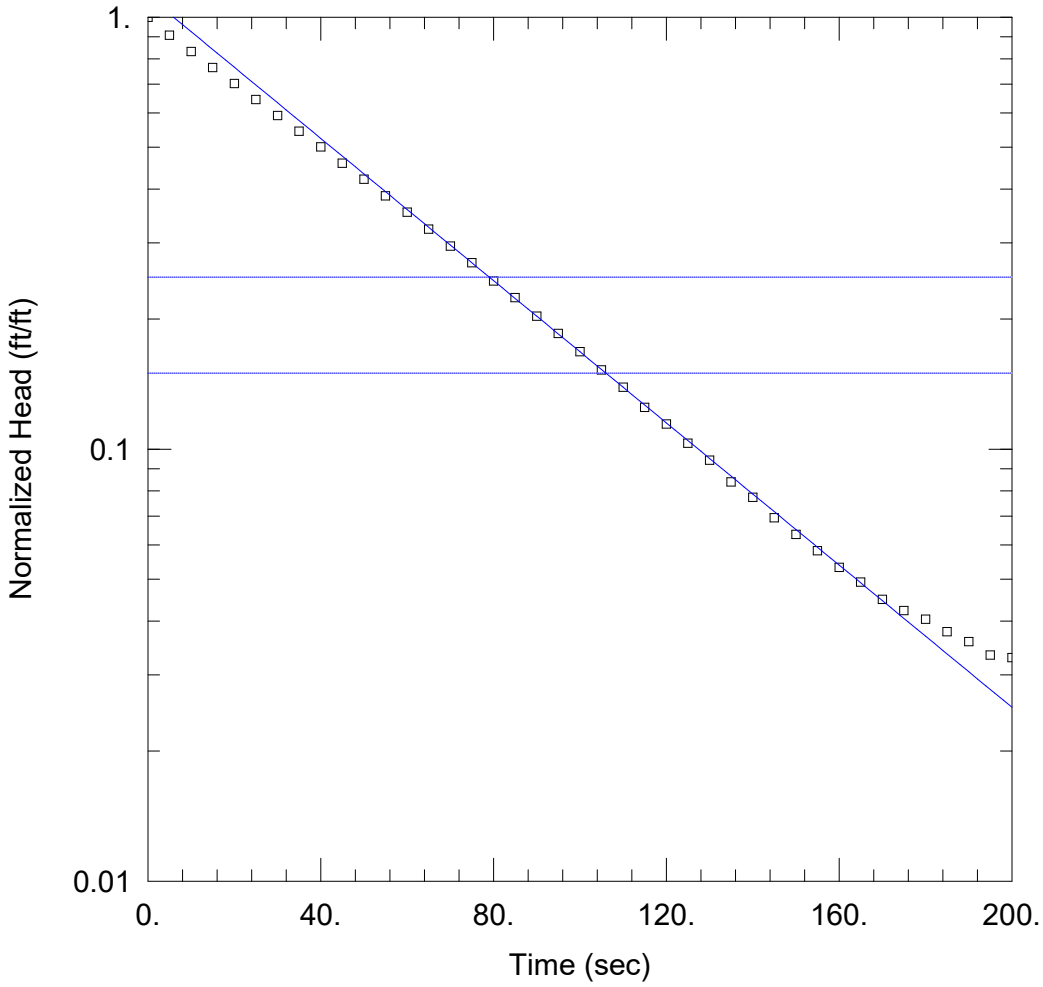
Saturated Thickness: 20.54 ft Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (INW-05)

Initial Displacement: 8.84 ft Static Water Column Height: 20.54 ft
Total Well Penetration Depth: 20.29 ft Screen Length: 10. ft
Casing Radius: 0.083 ft Well Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice
K = 1.947 ft/day y0 = 9.487 ft



INW-05 TEST 1

Data Set: N:\...\INW-05_Test 1_HV.aqt
Date: 05/31/24 Time: 14:40:29

PROJECT INFORMATION

Company: Geosyntec
Client: Georgia Power
Project: GW6581G
Location: Plant Hammond
Test Well: INW-05
Test Date: 5/14/2024

AQUIFER DATA

Saturated Thickness: 20.54 ft Anisotropy Ratio (Kz/Kr): 0.1

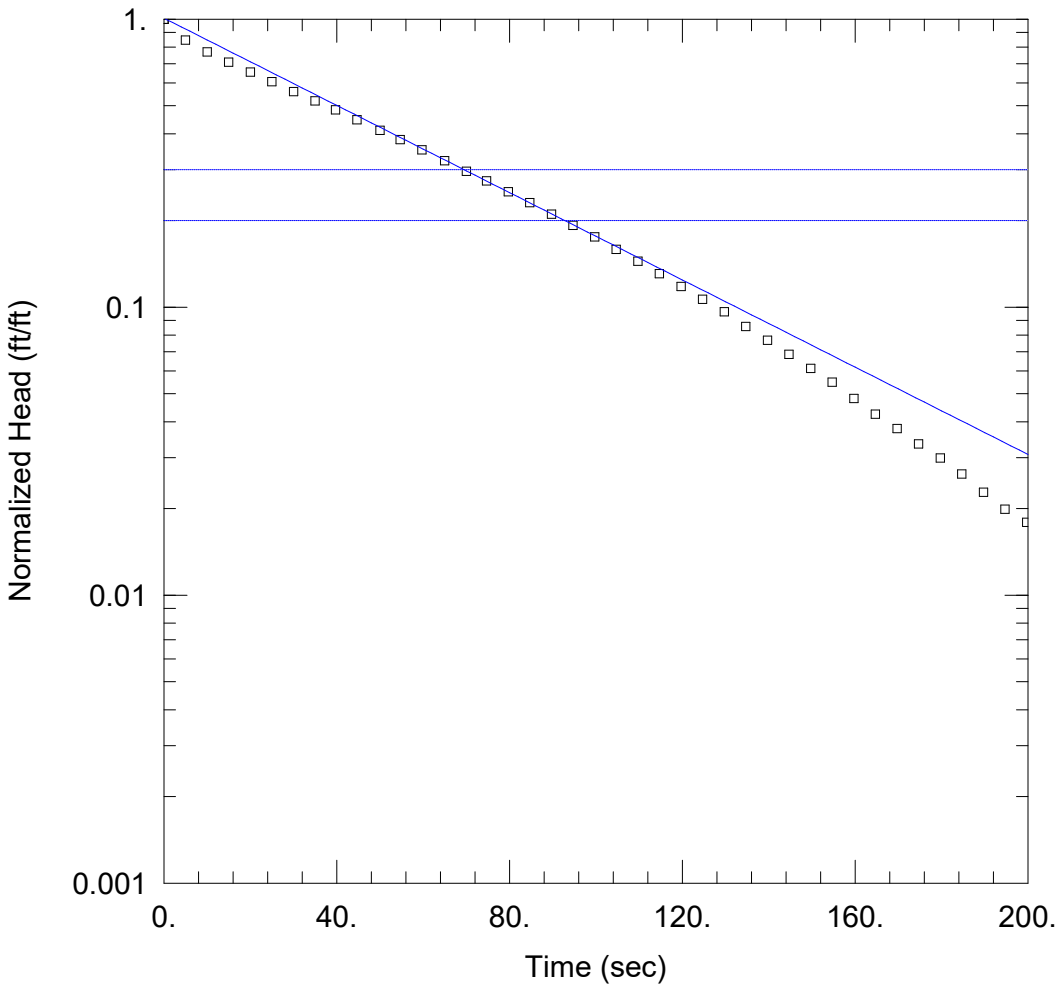
WELL DATA (INW-05)

Initial Displacement: 8.84 ft
Total Well Penetration Depth: 20.29 ft
Casing Radius: 0.083 ft
Static Water Column Height: 20.54 ft
Screen Length: 10. ft
Well Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Hvorslev

K = 2.373 ft/day y0 = 9.883 ft



INW-05 TEST 2

Data Set: N:\...\INW-05_Test 2_BR.aqt
Date: 05/31/24 Time: 14:45:08

PROJECT INFORMATION

Company: Geosyntec
Client: Georgia Power
Project: GW6581G
Location: Plant Hammond
Test Well: INW-05
Test Date: 5/14/2024

AQUIFER DATA

Saturated Thickness: 20.54 ft Anisotropy Ratio (Kz/Kr): 0.1

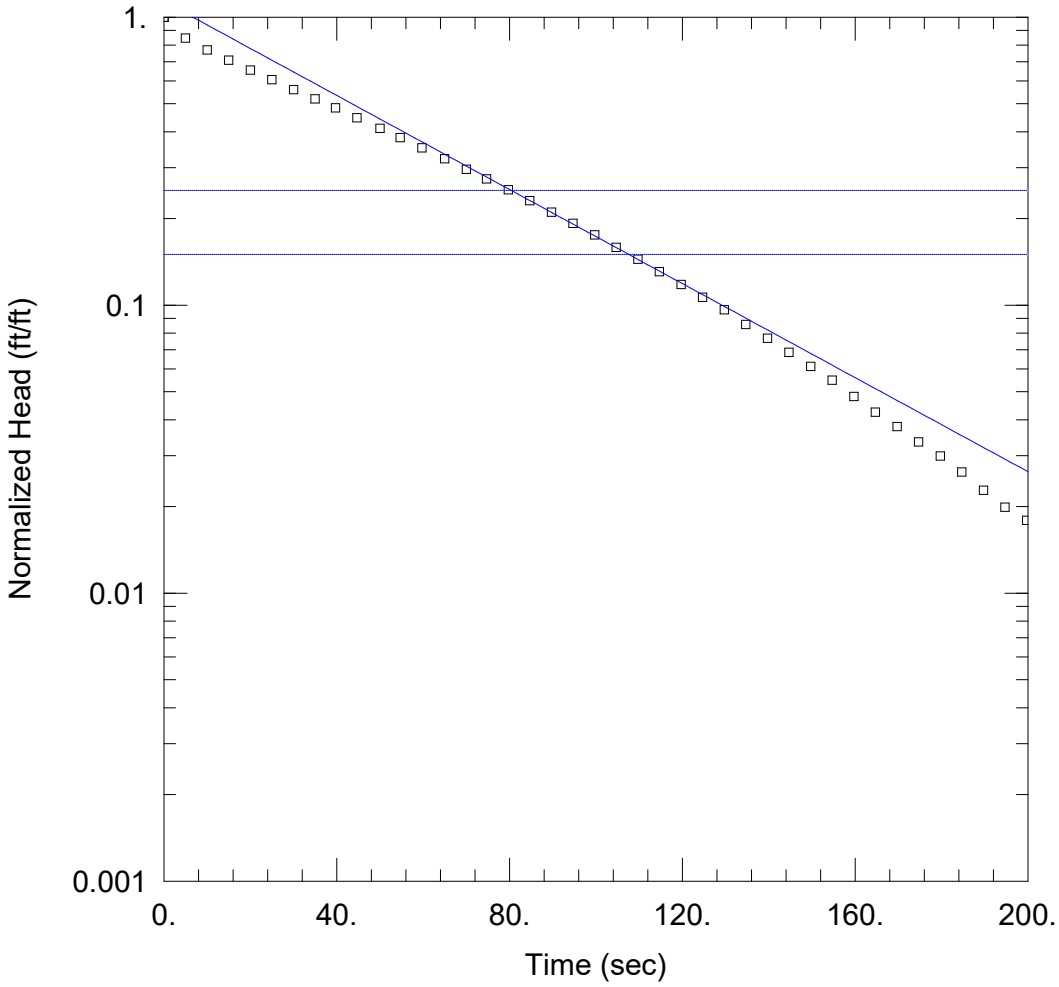
WELL DATA (INW-05)

Initial Displacement: 10.06 ft
Total Well Penetration Depth: 20.29 ft
Casing Radius: 0.083 ft
Static Water Column Height: 20.54 ft
Screen Length: 10. ft
Well Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 1.84 ft/day y0 = 10.14 ft



INW-05 TEST 2

Data Set: N:\...\INW-05_Test 2_HV.aqt
Date: 05/31/24 Time: 14:43:35

PROJECT INFORMATION

Company: Geosyntec
Client: Georgia Power
Project: GW6581G
Location: Plant Hammond
Test Well: INW-05
Test Date: 5/14/2024

AQUIFER DATA

Saturated Thickness: 20.54 ft Anisotropy Ratio (Kz/Kr): 0.1

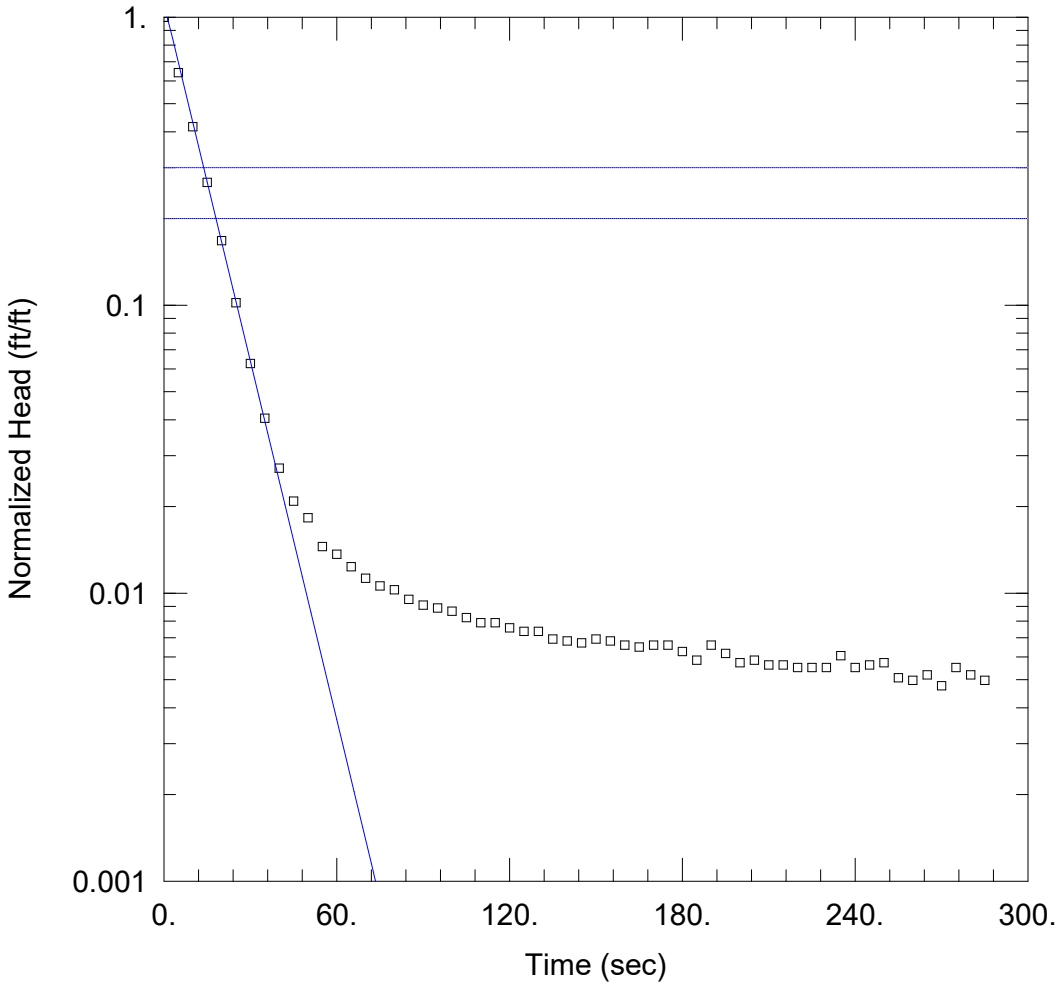
WELL DATA (INW-05)

Initial Displacement: 10.06 ft
Total Well Penetration Depth: 20.29 ft
Casing Radius: 0.083 ft
Static Water Column Height: 20.54 ft
Screen Length: 10. ft
Well Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Hvorslev

K = 2.354 ft/day y0 = 11.4 ft



PT-07

Data Set: \...\PT-07_T1_BR.aqt
Date: 07/13/23 Time: 15:30:50

PROJECT INFORMATION

Company: Geosyntec
Client: Georgia Power
Project: GW6581G
Location: Plant Hammond
Test Well: PT-07
Test Date: 7/5/2023

AQUIFER DATA

Saturated Thickness: 22.99 ft Anisotropy Ratio (Kz/Kr): 0.1

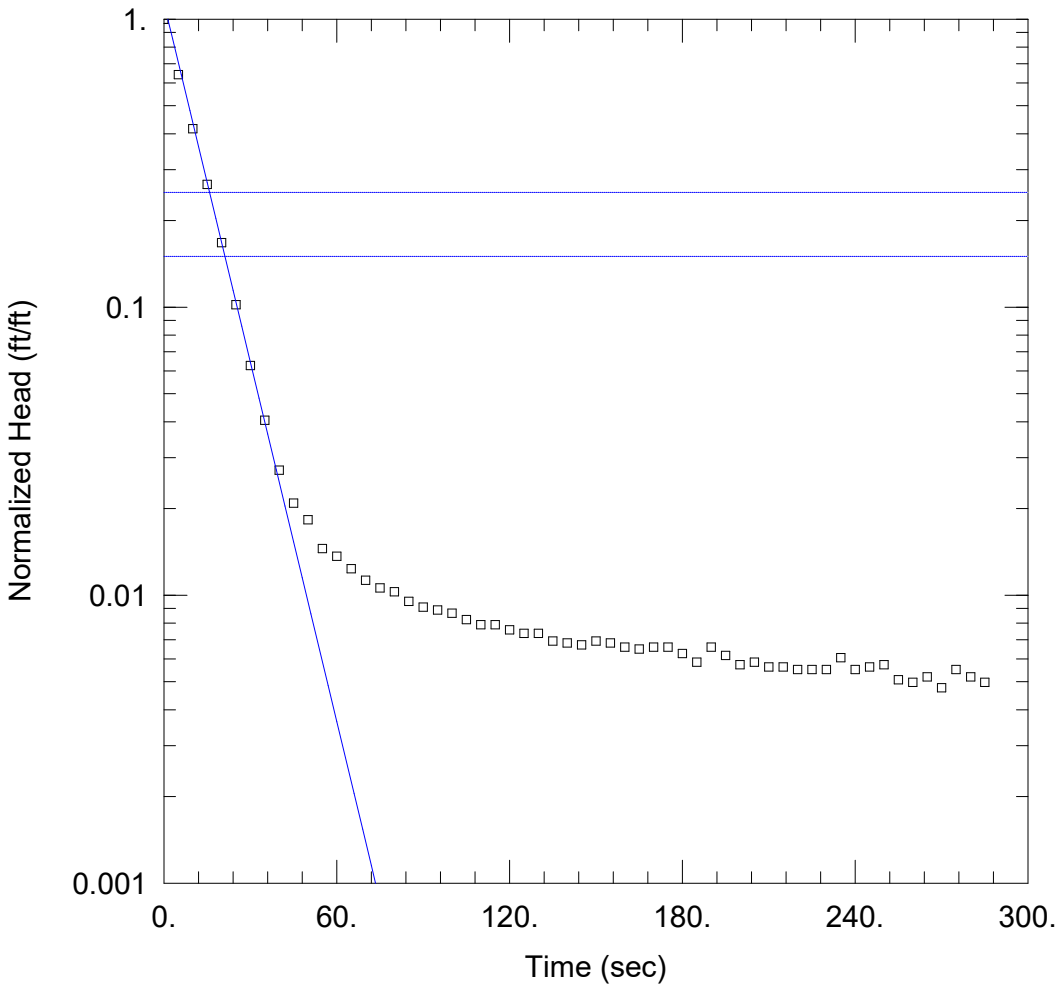
WELL DATA (PT-07)

Initial Displacement: 9.24 ft
Total Well Penetration Depth: 22.74 ft
Casing Radius: 0.083 ft
Static Water Column Height: 22.99 ft
Screen Length: 10. ft
Well Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 10.25 ft/day
y0 = 10.37 ft



PT-07

Data Set: N:\...\PT-07_T1_HSV.aqt
Date: 07/13/23 Time: 15:31:05

PROJECT INFORMATION

Company: Geosyntec
Client: Georgia Power
Project: GW6581G
Location: Plant Hammond
Test Well: PT-07
Test Date: 7/5/2023

AQUIFER DATA

Saturated Thickness: 22.99 ft Anisotropy Ratio (Kz/Kr): 0.1

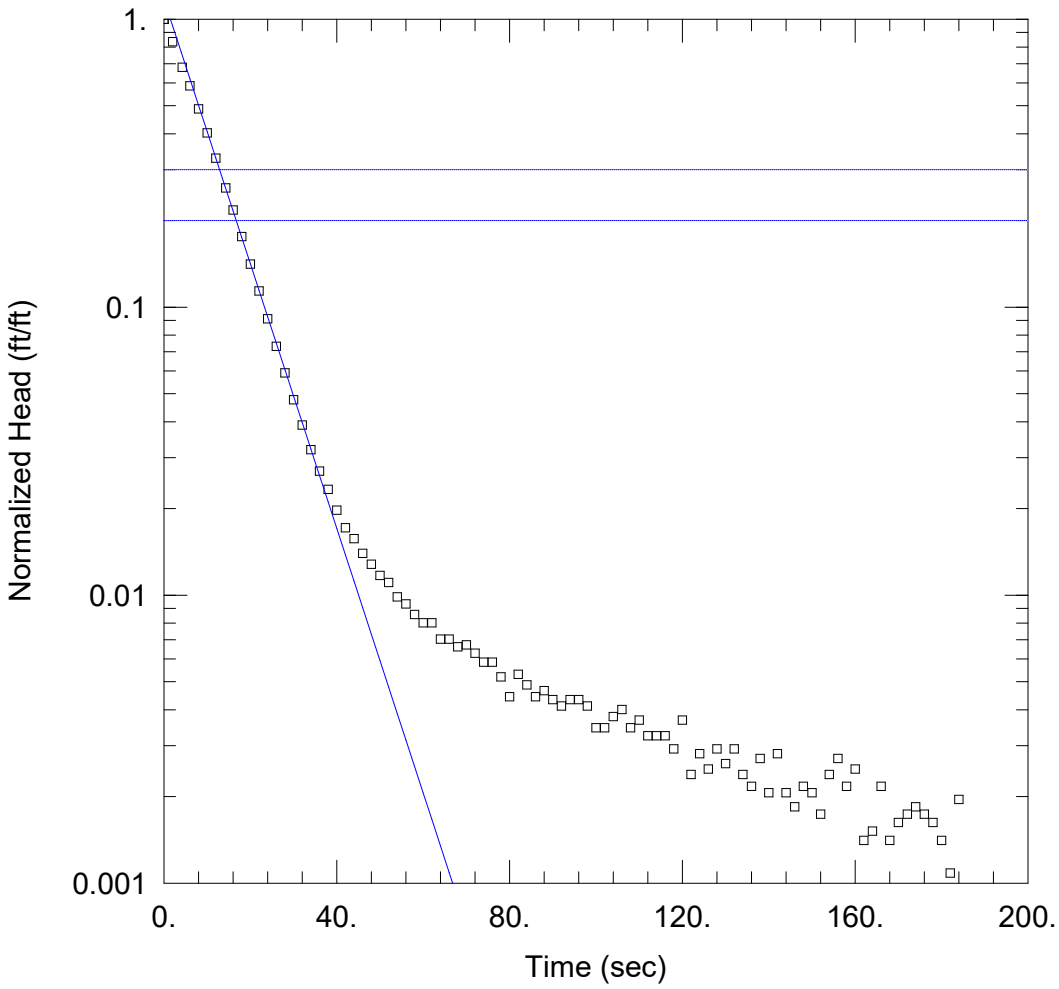
WELL DATA (PT-07)

Initial Displacement: 9.24 ft
Total Well Penetration Depth: 22.74 ft
Casing Radius: 0.083 ft
Static Water Column Height: 22.99 ft
Screen Length: 10. ft
Well Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Hvorslev

K = 11.99 ft/day y0 = 10.53 ft



PT-07 TEST 2

Data Set: \...\PT-07_T2_BR.aqt
Date: 07/13/23 Time: 15:35:08

PROJECT INFORMATION

Company: Geosyntec
Client: Georgia Power
Project: GW6581G
Location: Plant Hammond
Test Well: PT-07
Test Date: 7/5/2023

AQUIFER DATA

Saturated Thickness: 22.99 ft Anisotropy Ratio (Kz/Kr): 0.1

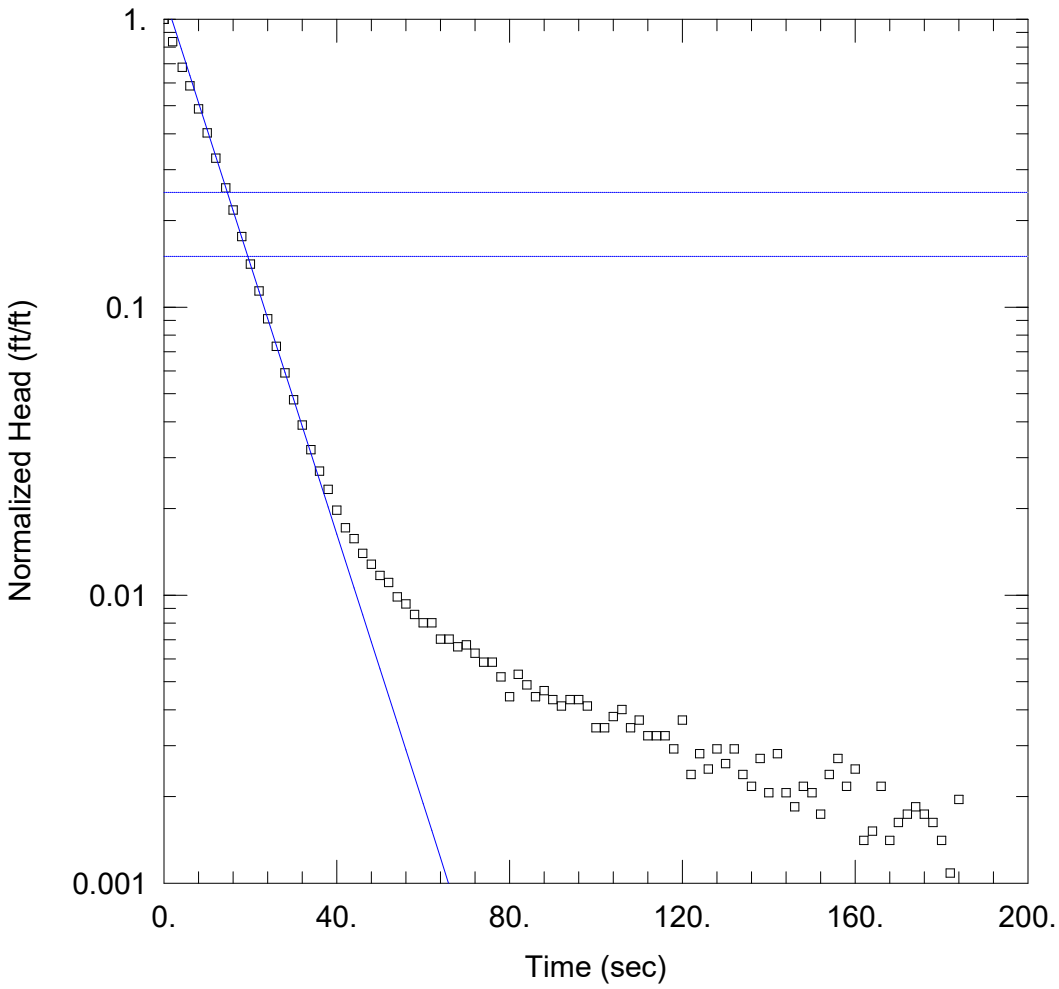
WELL DATA (PT-07)

Initial Displacement: 9.23 ft
Total Well Penetration Depth: 22.74 ft
Casing Radius: 0.083 ft
Static Water Column Height: 22.99 ft
Screen Length: 10. ft
Well Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 11.34 ft/day y0 = 10.81 ft



PT-07 TEST 2

Data Set: N:\...\PT-07_T2_HSV.aqt
Date: 07/13/23 Time: 15:34:50

PROJECT INFORMATION

Company: Geosyntec
Client: Georgia Power
Project: GW6581G
Location: Plant Hammond
Test Well: PT-07
Test Date: 7/5/2023

AQUIFER DATA

Saturated Thickness: 22.99 ft Anisotropy Ratio (Kz/Kr): 0.1

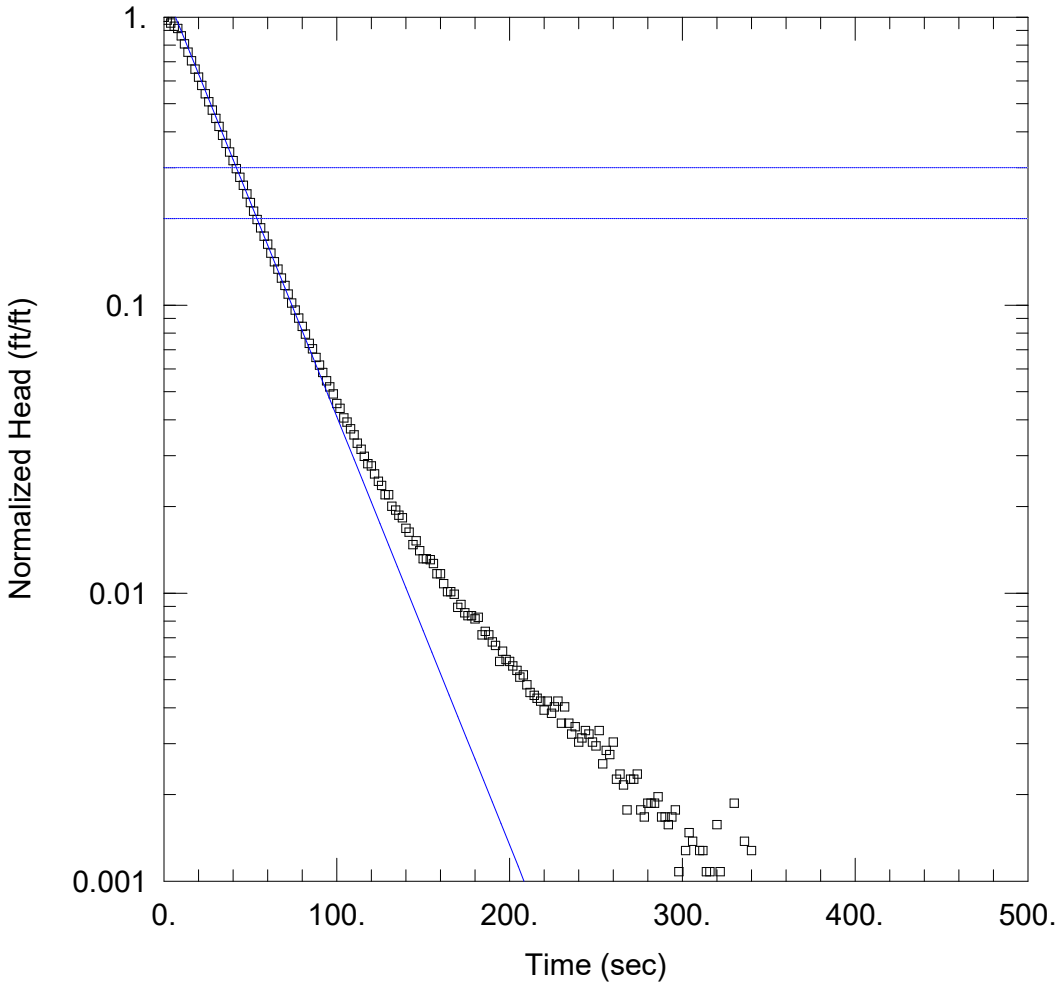
WELL DATA (PT-07)

Initial Displacement: 9.23 ft
Total Well Penetration Depth: 22.74 ft
Casing Radius: 0.083 ft
Static Water Column Height: 22.99 ft
Screen Length: 10. ft
Well Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Hvorslev

K = 13.5 ft/day y0 = 11.2 ft



PT-08 TEST 1

Data Set: \...\PT-08_T1_BR.aqt
Date: 07/13/23 Time: 15:50:49

PROJECT INFORMATION

Company: Geosyntec
Client: Georgia Power
Project: GW6581G
Location: Plant Hammond
Test Well: PT-08
Test Date: 7/5/2023

AQUIFER DATA

Saturated Thickness: 19.41 ft Anisotropy Ratio (Kz/Kr): 0.1

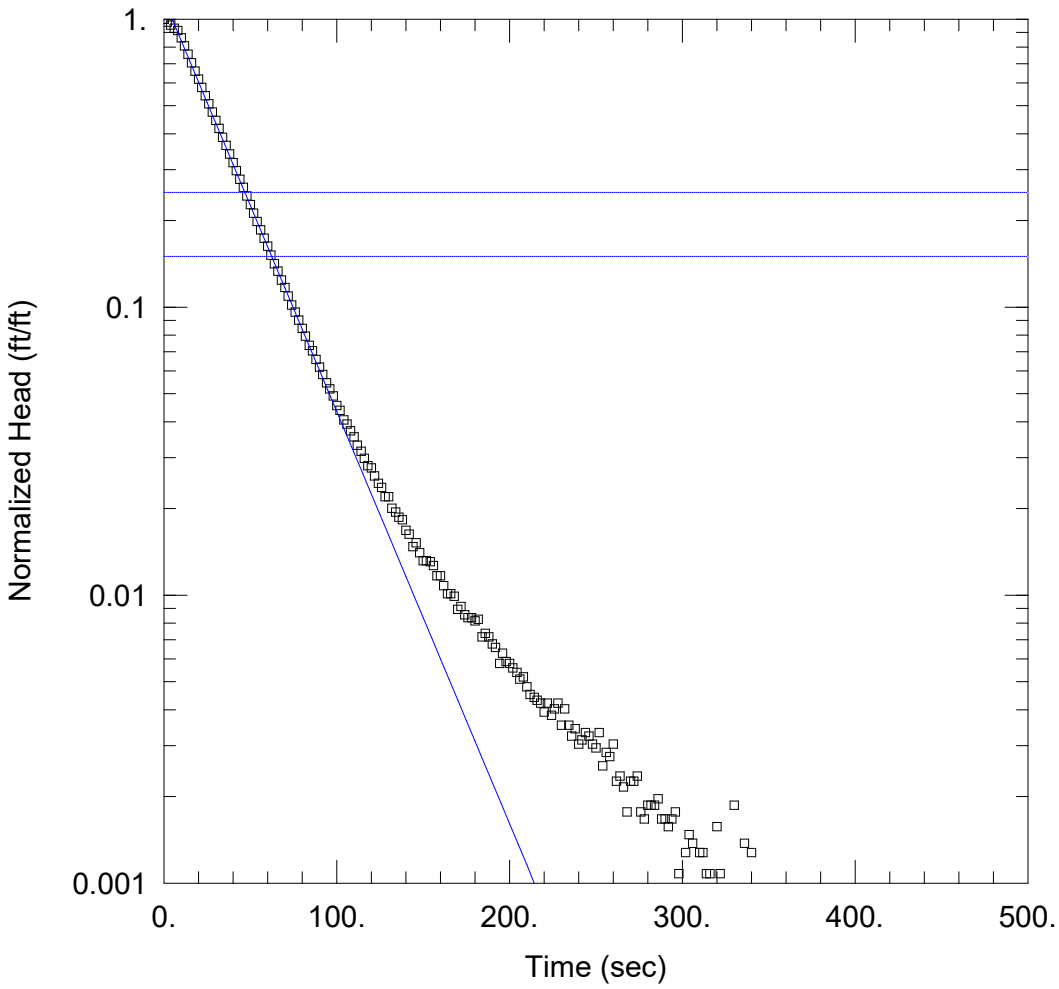
WELL DATA (PT-08)

Initial Displacement: 10.19 ft
Total Well Penetration Depth: 19.16 ft
Casing Radius: 0.083 ft
Static Water Column Height: 19.41 ft
Screen Length: 10. ft
Well Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 3.582 ft/day
y0 = 12.84 ft



PT-08 TEST 1

Data Set: \...\PT-08_T1_HSV.aqt
Date: 07/13/23 Time: 15:50:17

PROJECT INFORMATION

Company: Geosyntec
Client: Georgia Power
Project: GW6581G
Location: Plant Hammond
Test Well: PT-08
Test Date: 7/5/2023

AQUIFER DATA

Saturated Thickness: 19.41 ft Anisotropy Ratio (Kz/Kr): 0.1

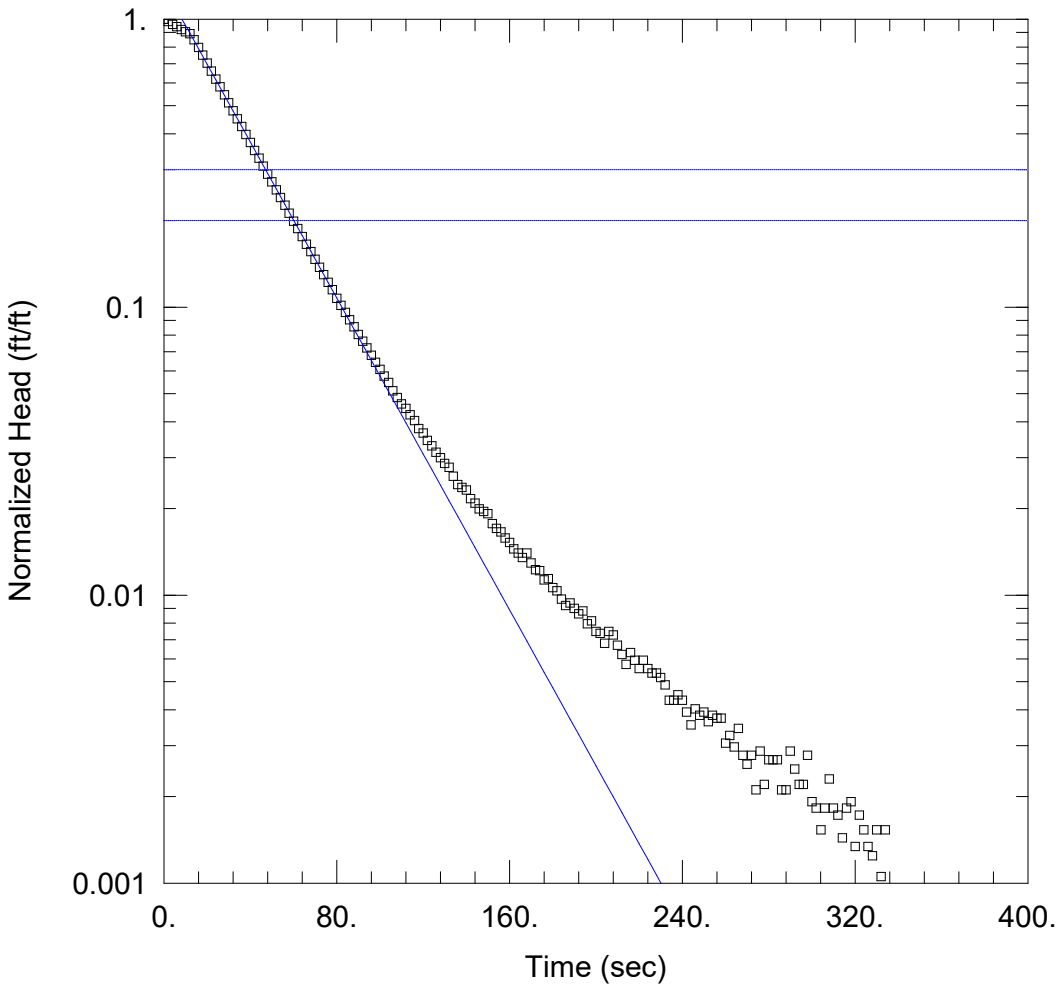
WELL DATA (PT-08)

Initial Displacement: 10.19 ft
Total Well Penetration Depth: 19.16 ft
Casing Radius: 0.083 ft
Static Water Column Height: 19.41 ft
Screen Length: 10. ft
Well Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Hvorslev

K = 4.125 ft/day y0 = 11.91 ft



PT-08 TEST 2

Data Set: N:\...\PT-08_T2_BR.aqt
Date: 07/13/23 Time: 15:48:31

PROJECT INFORMATION

Company: Geosyntec
Client: Georgia Power
Project: GW6581G
Location: Plant Hammond
Test Well: PT-08
Test Date: 7/5/2023

AQUIFER DATA

Saturated Thickness: 19.41 ft Anisotropy Ratio (Kz/Kr): 0.1

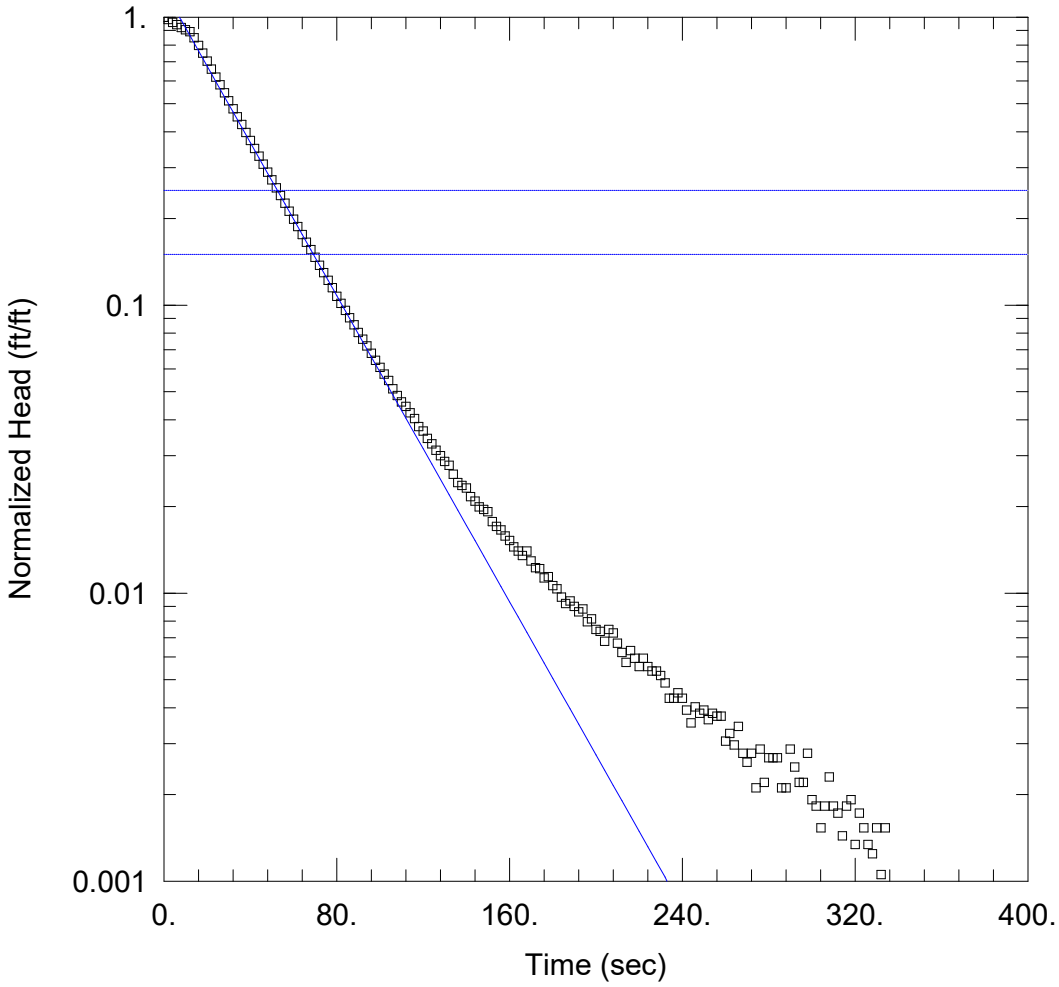
WELL DATA (PT-08)

Initial Displacement: 10.44 ft
Total Well Penetration Depth: 19.16 ft
Casing Radius: 0.083 ft
Static Water Column Height: 19.41 ft
Screen Length: 10. ft
Well Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 3.26 ft/day
y0 = 13.57 ft



PT-08 TEST 2

Data Set: N:\...\PT-08_T2_HSV.aqt
Date: 07/13/23 Time: 15:49:18

PROJECT INFORMATION

Company: Geosyntec
Client: Georgia Power
Project: GW6581G
Location: Plant Hammond
Test Well: PT-08
Test Date: 7/5/2023

AQUIFER DATA

Saturated Thickness: 19.41 ft Anisotropy Ratio (Kz/Kr): 0.1

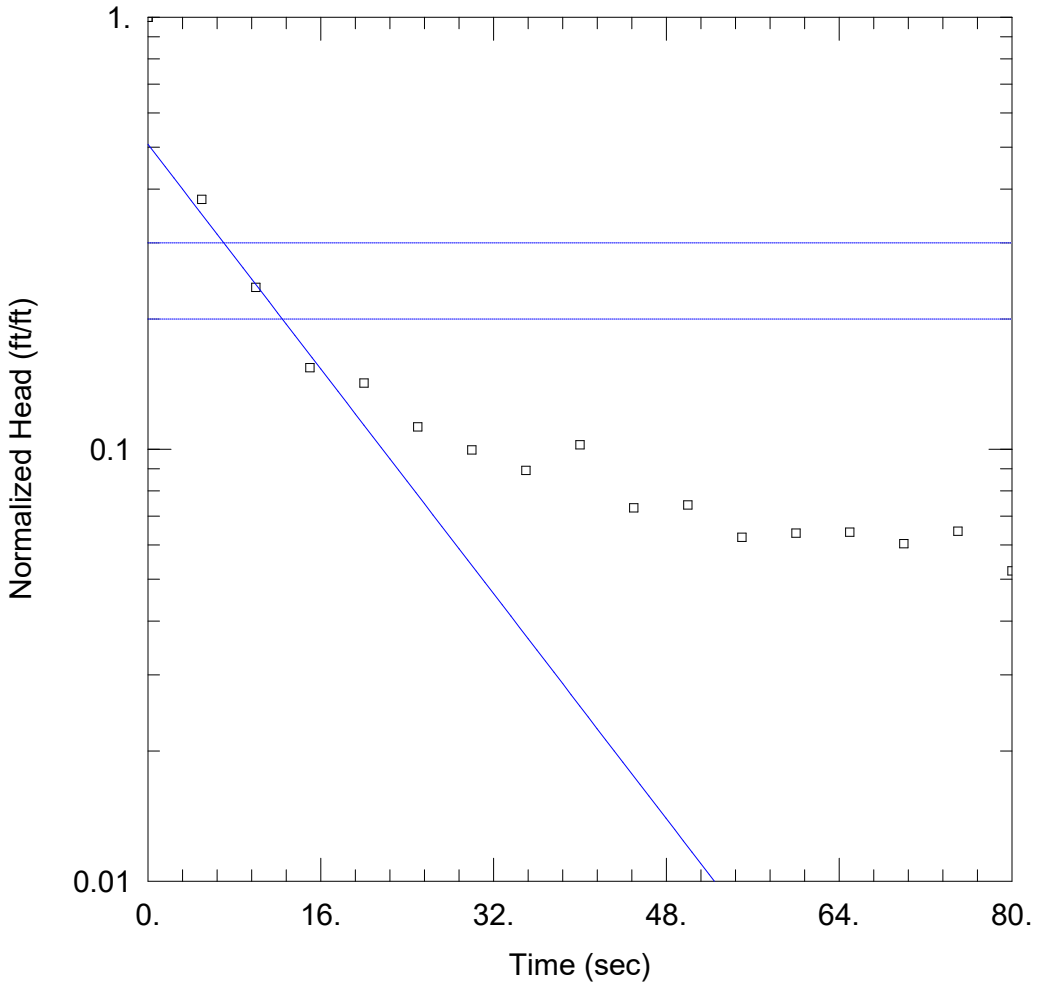
WELL DATA (PT-08)

Initial Displacement: 10.44 ft
Total Well Penetration Depth: 19.16 ft
Casing Radius: 0.083 ft
Static Water Column Height: 19.41 ft
Screen Length: 10. ft
Well Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Hvorslev

K = 3.83 ft/day y0 = 13. ft



PT-09 TEST 1

Data Set: \...\PT-09_T1_BR.aqt
Date: 07/13/23 Time: 16:37:07

PROJECT INFORMATION

Company: Geosyntec
Client: Georgia Power
Project: GW6581G
Location: Plant Hammond
Test Well: PT-09
Test Date: 6/28/2023

AQUIFER DATA

Saturated Thickness: 16.21 ft Anisotropy Ratio (Kz/Kr): 0.1

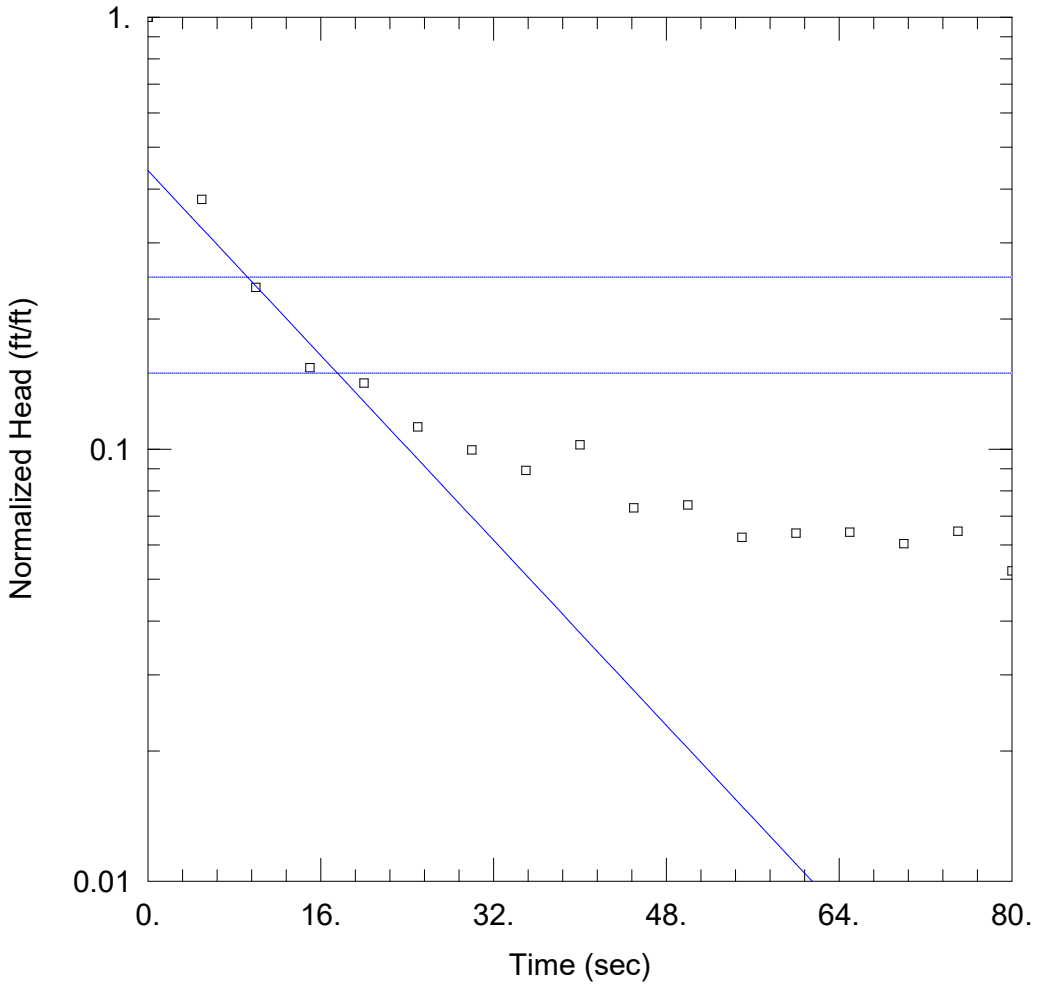
WELL DATA (PT-09)

Initial Displacement: 2.911 ft
Total Well Penetration Depth: 15.96 ft
Casing Radius: 0.083 ft
Static Water Column Height: 16.21 ft
Screen Length: 10. ft
Well Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 7.618 ft/day y0 = 1.478 ft



PT-09 TEST 1

Data Set: \...\PT-09_T1_HSV.aqt
Date: 07/13/23 Time: 16:37:35

PROJECT INFORMATION

Company: Geosyntec
Client: Georgia Power
Project: GW6581G
Location: Plant Hammond
Test Well: PT-09
Test Date: 6/28/2023

AQUIFER DATA

Saturated Thickness: 16.21 ft Anisotropy Ratio (Kz/Kr): 0.1

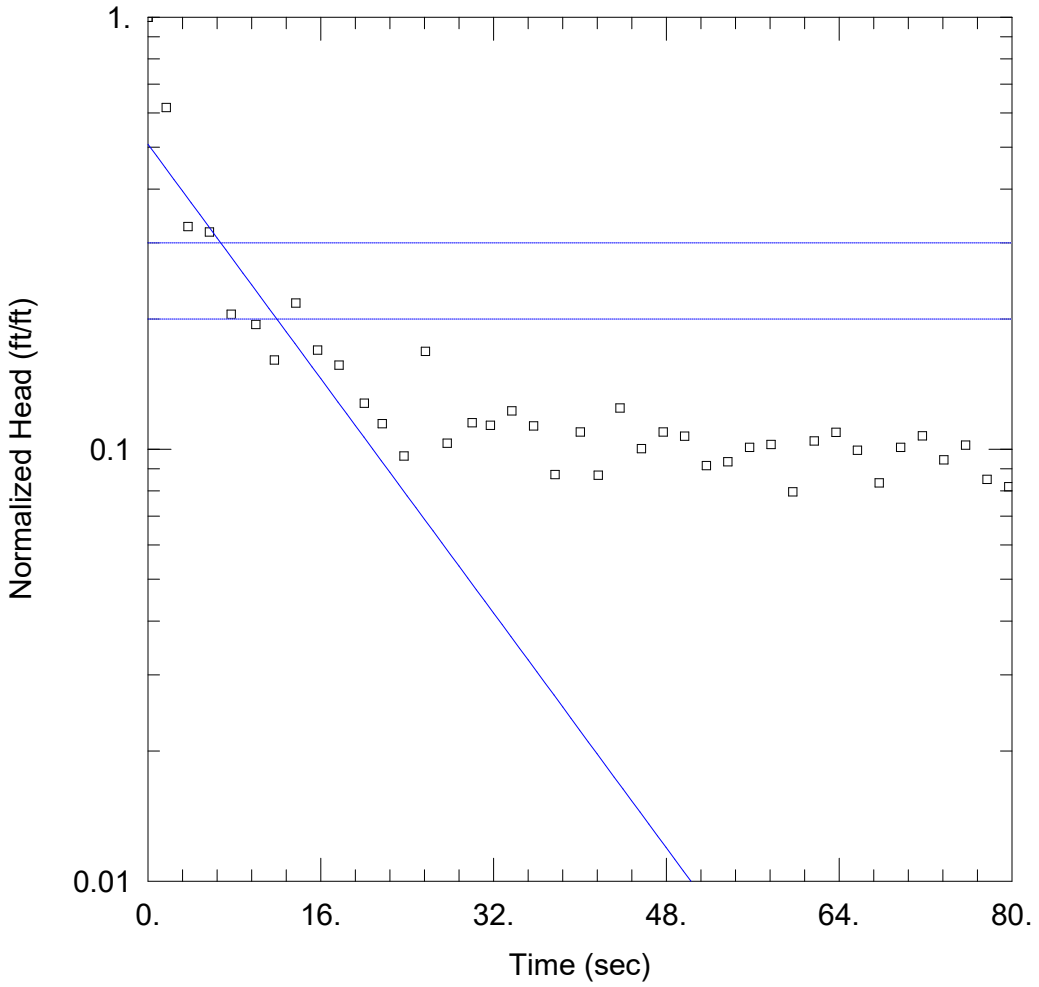
WELL DATA (PT-09)

Initial Displacement: 2.911 ft
Total Well Penetration Depth: 15.96 ft
Casing Radius: 0.083 ft
Static Water Column Height: 16.21 ft
Screen Length: 10. ft
Well Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Hvorslev

K = 7.709 ft/day y0 = 1.284 ft



PT-09 TEST 2

Data Set: \...\PT-09_T2_BR.aqt
Date: 07/13/23 Time: 16:33:45

PROJECT INFORMATION

Company: Geosyntec
Client: Georgia Power
Project: GW6581G
Location: Plant Hammond
Test Well: PT-09
Test Date: 6/28/2023

AQUIFER DATA

Saturated Thickness: 16.21 ft Anisotropy Ratio (Kz/Kr): 0.1

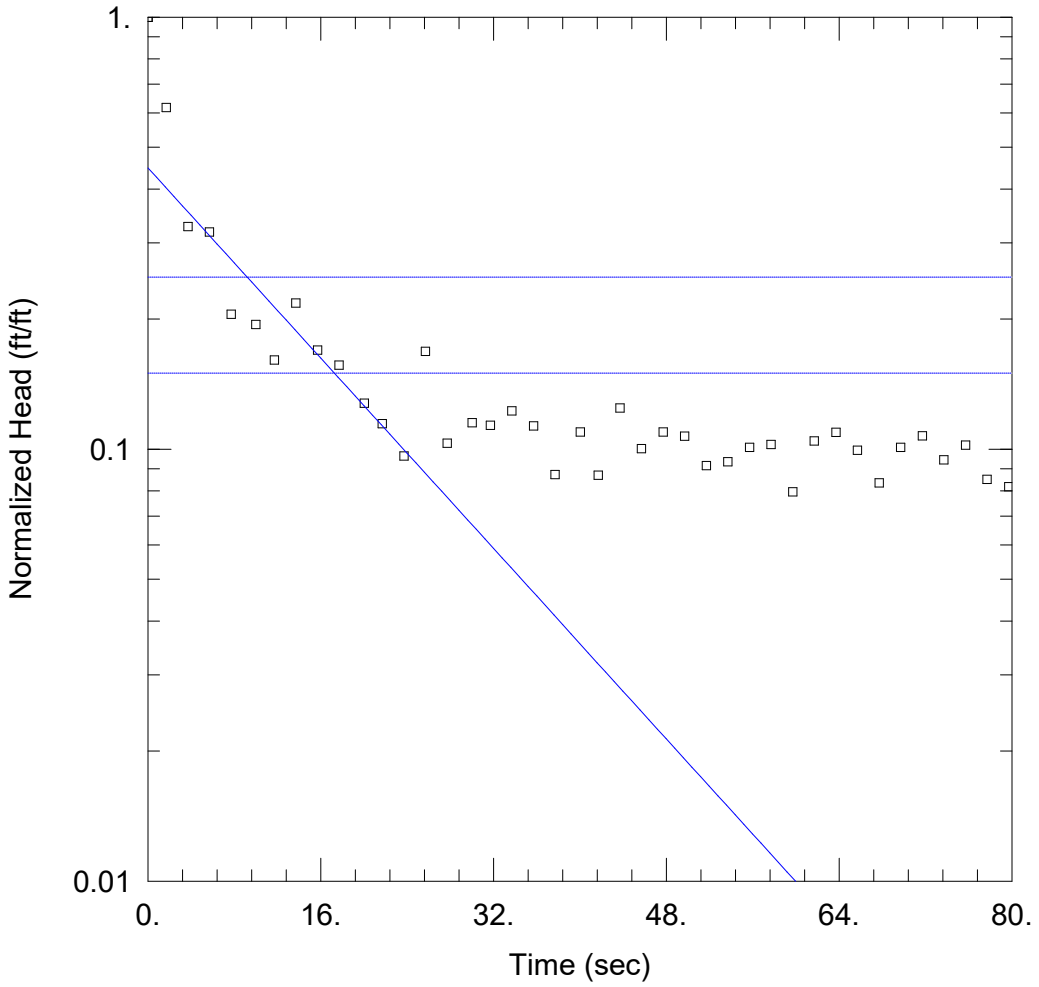
WELL DATA (PT-09)

Initial Displacement: 3.101 ft
Total Well Penetration Depth: 15.91 ft
Casing Radius: 0.083 ft
Static Water Column Height: 16.21 ft
Screen Length: 10. ft
Well Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 7.906 ft/day
y0 = 1.575 ft



PT-09 TEST 2

Data Set: N:\...\PT-09_T2_HSV.aqt
Date: 07/13/23 Time: 16:33:56

PROJECT INFORMATION

Company: Geosyntec
Client: Georgia Power
Project: GW6581G
Location: Plant Hammond
Test Well: PT-09
Test Date: 6/28/2023

AQUIFER DATA

Saturated Thickness: 16.21 ft Anisotropy Ratio (Kz/Kr): 0.1

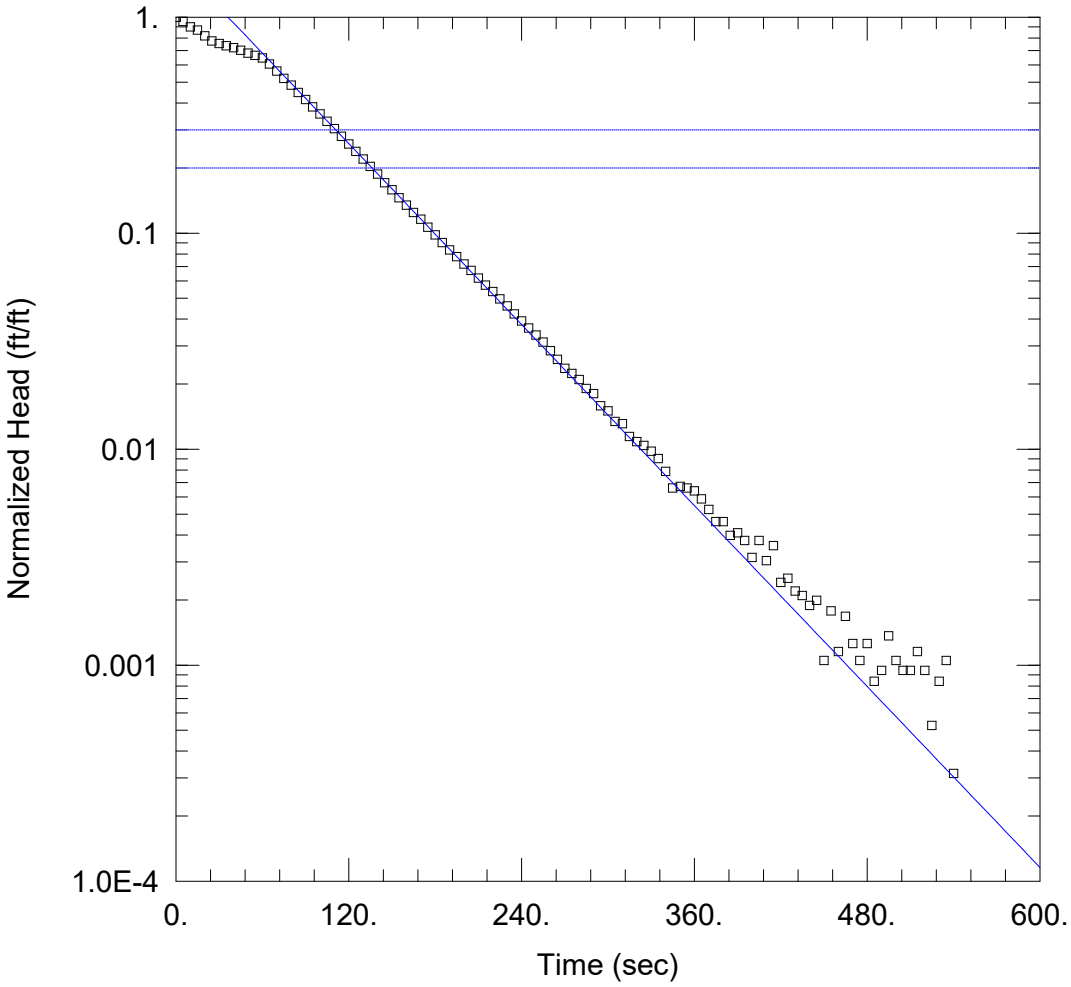
WELL DATA (PT-09)

Initial Displacement: 3.101 ft
Total Well Penetration Depth: 15.91 ft
Casing Radius: 0.083 ft
Static Water Column Height: 16.21 ft
Screen Length: 10. ft
Well Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Hvorslev

K = 7.937 ft/day y0 = 1.388 ft



PT-10 TEST 1

Data Set: N:\...\PT-10_T1_BR.aqt
Date: 07/13/23 Time: 16:55:55

PROJECT INFORMATION

Company: Geosyntec
Client: Georgia Power
Project: GW6581G
Location: Plant Hammond
Test Well: PT-10
Test Date: 6/28/2023

AQUIFER DATA

Saturated Thickness: 15.86 ft Anisotropy Ratio (Kz/Kr): 0.1

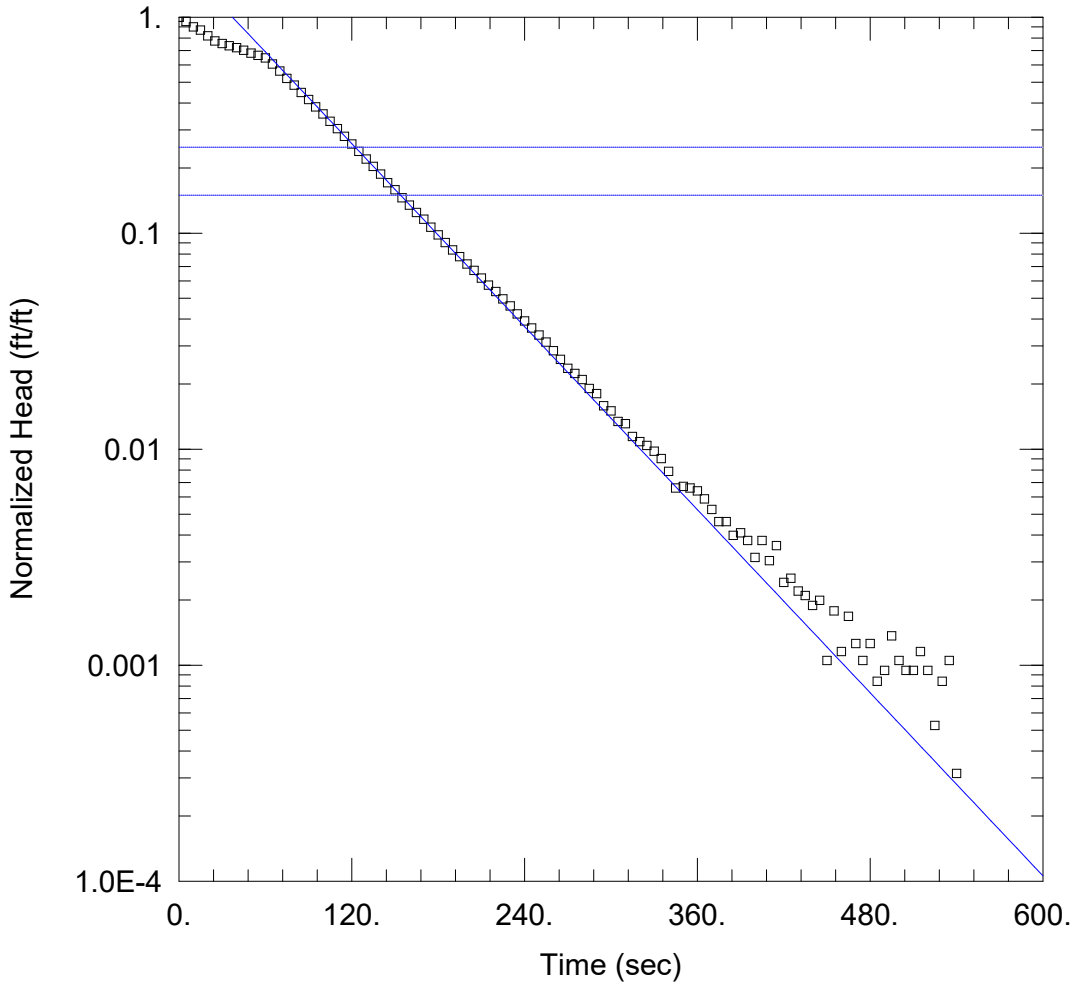
WELL DATA (PT-10)

Initial Displacement: 9.52 ft
Total Well Penetration Depth: 15.61 ft
Casing Radius: 0.083 ft
Static Water Column Height: 15.86 ft
Screen Length: 10. ft
Well Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 1.631 ft/day
y0 = 17.02 ft



PT-10 TEST 1

Data Set: N:\...\PT-10_T1_HSV.aqt
Date: 07/13/23 Time: 16:56:36

PROJECT INFORMATION

Company: Geosyntec
Client: Georgia Power
Project: GW6581G
Location: Plant Hammond
Test Well: PT-10
Test Date: 6/28/2023

AQUIFER DATA

Saturated Thickness: 15.86 ft Anisotropy Ratio (Kz/Kr): 0.1

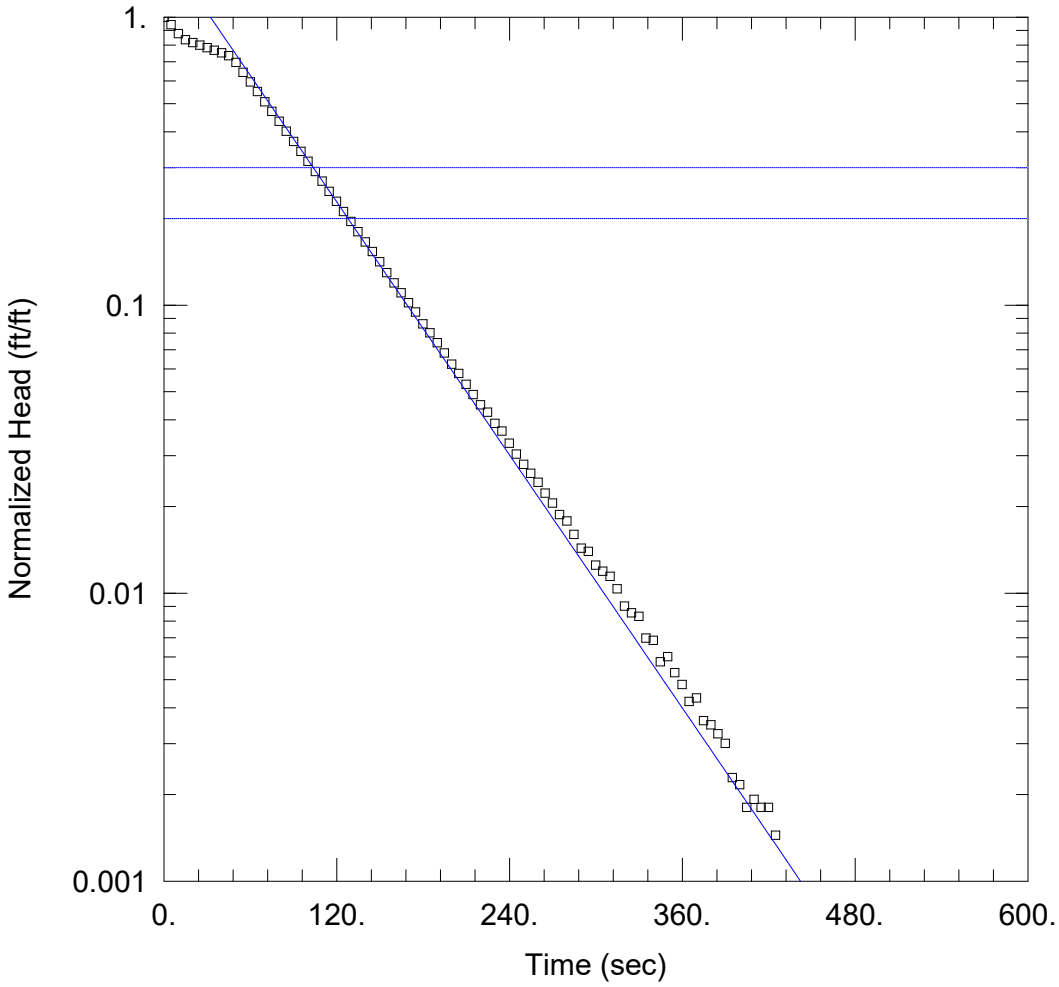
WELL DATA (PT-10)

Initial Displacement: 9.52 ft
Total Well Penetration Depth: 15.61 ft
Casing Radius: 0.083 ft
Static Water Column Height: 15.86 ft
Screen Length: 10. ft
Well Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Hvorslev

K = 2.037 ft/day y0 = 17.42 ft



PT-10 TEST 2

Data Set: N:\...\PT-10_T2_BR.aqt
Date: 07/13/23 Time: 16:58:45

PROJECT INFORMATION

Company: Geosyntec
Client: Georgia Power
Project: GW6581G
Location: Plant Hammond
Test Well: PT-10
Test Date: 6/28/2023

AQUIFER DATA

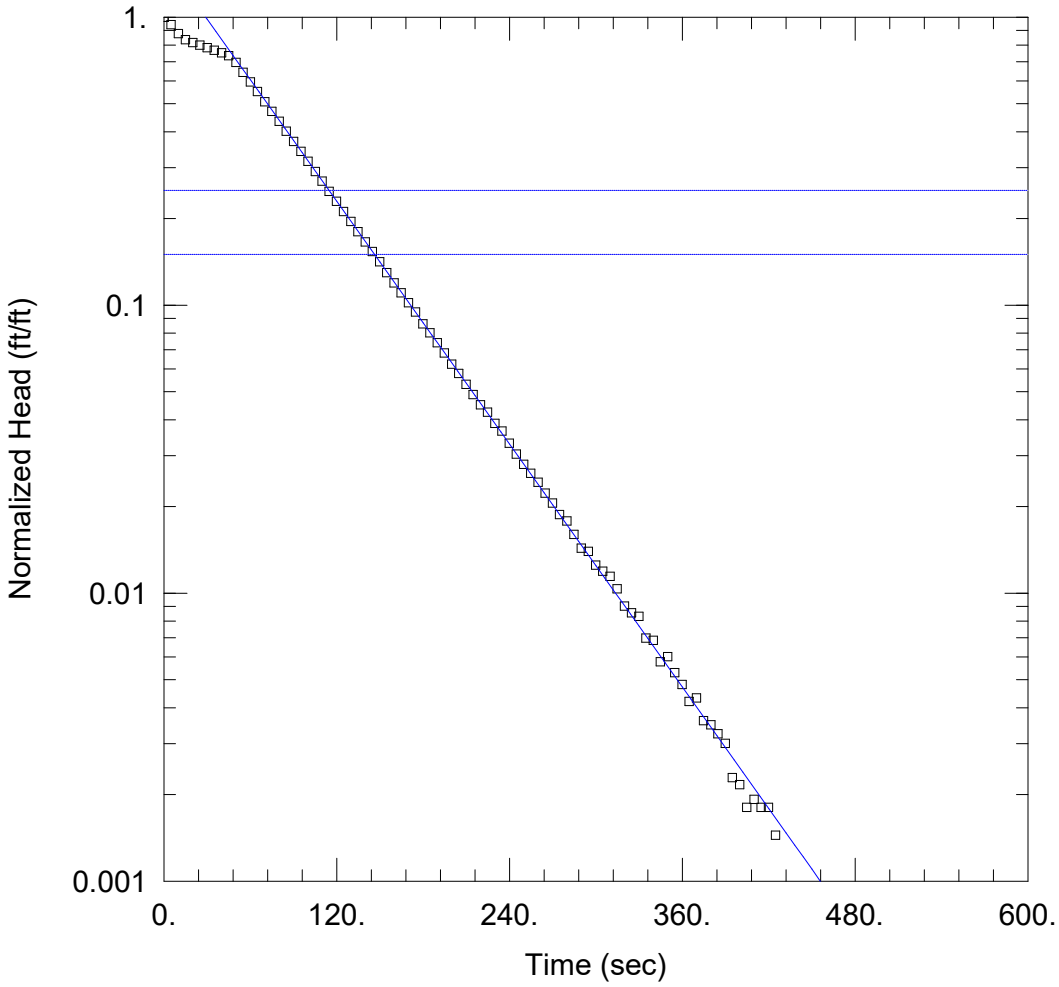
Saturated Thickness: 15.86 ft Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (PT-10)

Initial Displacement: 8.314 ft
Total Well Penetration Depth: 15.61 ft
Casing Radius: 0.083 ft
Static Water Column Height: 15.86 ft
Screen Length: 10. ft
Well Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 1.71 ft/day
y0 = 14.32 ft



PT-10 TEST 2

Data Set: N:\...\PT-10_T2_HSV.aqt
Date: 07/13/23 Time: 16:59:18

PROJECT INFORMATION

Company: Geosyntec
Client: Georgia Power
Project: GW6581G
Location: Plant Hammond
Test Well: PT-10
Test Date: 6/28/2023

AQUIFER DATA

Saturated Thickness: 15.86 ft Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA (PT-10)

Initial Displacement: 8.314 ft
Total Well Penetration Depth: 15.61 ft
Casing Radius: 0.083 ft
Static Water Column Height: 15.86 ft
Screen Length: 10. ft
Well Radius: 0.25 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Hvorslev

K = 2.027 ft/day y0 = 13.3 ft

APPENDIX C

Baseline Groundwater Analytical Laboratory Results and Field Sampling Forms

Laboratory Analytical Reports

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

July 28, 2023

Kristen Jurinko
Southern Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, GA 30308

RE: Project: Hammond AP-1
Pace Project No.: 92677694

Dear Kristen Jurinko:

Enclosed are the analytical results for sample(s) received by the laboratory on July 17, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte
- Pace Analytical Services - Peachtree Corners, GA

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Bonnie Vang
bonnie.vang@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Kip Gray, Geosyntec
Christine Hug, Geosyntec Consultants, Inc.
Whitney Law, Geosyntec Consultants
Laura Midkiff, Southern Company
Caroline Nelson, Geosyntec

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: Hammond AP-1
Pace Project No.: 92677694

Pace Analytical Services Charlotte
South Carolina Laboratory ID: 99006
9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Laboratory ID: 99006
South Carolina Certification #: 99006001
South Carolina Drinking Water Cert. #: 99006003
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Louisiana DoH Drinking Water #: LA029
Virginia/VELAP Certification #: 460221

Pace Analytical Services Asheville
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Laboratory ID: 99030
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners
110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812
North Carolina Certification #: 381
South Carolina Certification #: 98011001
Virginia Certification #: 460204

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Huntersville, NC 28078
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SAMPLE SUMMARY

Project: Hammond AP-1
Pace Project No.: 92677694

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92677694001	**HAM-HGWC-8**	Water	07/13/23 10:35	07/17/23 12:30
92677694002	**HAM-PT-09**	Water	07/13/23 12:47	07/17/23 12:30
92677694003	**HAM-PT-10**	Water	07/13/23 14:15	07/17/23 12:30
92677694004	**HAM-PT-07**	Water	07/13/23 16:22	07/17/23 12:30
92677694005	**HAM-PT-08**	Water	07/13/23 17:51	07/17/23 12:30
92677694006	**HAM-AP1-FD-01**	Water	07/13/23 00:00	07/17/23 12:30
92677694007	**HAM-AP1-FB-01**	Water	07/17/23 08:40	07/17/23 12:30
92677694008	**HAM-HGWC-13**	Water	07/17/23 11:47	07/17/23 12:30

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: Hammond AP-1
Pace Project No.: 92677694

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92677694001	**HAM-HGWC-8**	EPA 6010D	MS	6
		EPA 6020B	CW1	12
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	YEG	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92677694002	**HAM-PT-09**	EPA 6010D	MS	6
		EPA 6020B	CW1	12
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	YEG	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92677694003	**HAM-PT-10**	EPA 6010D	MS	6
		EPA 6020B	CW1	12
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92677694004	**HAM-PT-07**	EPA 6010D	MS	6
		EPA 6020B	CW1	12
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92677694005	**HAM-PT-08**	EPA 6010D	MS	6
		EPA 6020B	CW1	12
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92677694006	**HAM-AP1-FD-01**	EPA 6010D	MS	6
		EPA 6020B	CW1	12

REPORT OF LABORATORY ANALYSIS

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Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: Hammond AP-1
Pace Project No.: 92677694

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92677694007	**HAM-AP1-FB-01**	EPA 6010D	MS	6
		EPA 6020B	CW1	12
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92677694008	**HAM-HGWC-13**	EPA 6010D	MS	6
		EPA 6020B	CW1	12
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3

PASI-A = Pace Analytical Services - Asheville
PASI-C = Pace Analytical Services - Charlotte
PASI-GA = Pace Analytical Services - Peachtree Corners, GA

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SUMMARY OF DETECTION

Project: Hammond AP-1
Pace Project No.: 92677694

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92677694001	**HAM-HGWC-8**					
	Performed by	CUSTOMER			07/17/23 17:16	
	pH	6.65	Std. Units		07/17/23 17:16	
EPA 6010D	Manganese	0.28	mg/L	0.040	07/20/23 15:39	
EPA 6010D	Potassium	6.9	mg/L	0.50	07/20/23 15:39	
EPA 6010D	Sodium	8.8	mg/L	1.0	07/20/23 15:39	M1
EPA 6010D	Calcium	107	mg/L	1.0	07/20/23 15:39	M1
EPA 6010D	Magnesium	14.9	mg/L	0.050	07/20/23 15:39	M1
EPA 6010D	Iron	0.27	mg/L	0.040	07/25/23 15:53	
EPA 6020B	Barium	0.047	mg/L	0.0050	07/19/23 17:55	
EPA 6020B	Beryllium	0.000073J	mg/L	0.00050	07/19/23 17:55	
EPA 6020B	Boron	2.0	mg/L	0.20	07/21/23 16:37	
EPA 6020B	Cadmium	0.00031J	mg/L	0.00050	07/19/23 17:55	
EPA 6020B	Cobalt	0.0015J	mg/L	0.0050	07/19/23 17:55	
EPA 6020B	Lithium	0.0015J	mg/L	0.030	07/19/23 17:55	
EPA 6020B	Molybdenum	0.30	mg/L	0.010	07/19/23 17:55	
EPA 6020B	Thallium	0.00026J	mg/L	0.0010	07/19/23 17:55	
SM 2540C-2015	Total Dissolved Solids	513	mg/L	25.0	07/18/23 15:24	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	136	mg/L	5.0	07/19/23 19:16	
SM 2320B-2011	Alkalinity, Total as CaCO3	136	mg/L	5.0	07/19/23 19:16	
EPA 300.0 Rev 2.1 1993	Chloride	47.9	mg/L	1.0	07/19/23 03:12	
EPA 300.0 Rev 2.1 1993	Fluoride	0.49	mg/L	0.10	07/19/23 03:12	
EPA 300.0 Rev 2.1 1993	Sulfate	163	mg/L	3.0	07/19/23 09:10	
92677694002	**HAM-PT-09**					
	Performed by	CUSTOMER			07/17/23 17:16	
	pH	6.57	Std. Units		07/17/23 17:16	
EPA 6010D	Iron	0.33	mg/L	0.040	07/25/23 16:08	
EPA 6010D	Manganese	0.79	mg/L	0.040	07/20/23 15:59	
EPA 6010D	Potassium	6.8	mg/L	0.50	07/20/23 15:59	
EPA 6010D	Sodium	10.6	mg/L	1.0	07/20/23 15:59	
EPA 6010D	Calcium	110	mg/L	1.0	07/20/23 15:59	
EPA 6010D	Magnesium	15.6	mg/L	0.050	07/20/23 15:59	
EPA 6020B	Antimony	0.0027J	mg/L	0.0030	07/19/23 18:19	
EPA 6020B	Barium	0.053	mg/L	0.0050	07/19/23 18:19	
EPA 6020B	Beryllium	0.000077J	mg/L	0.00050	07/19/23 18:19	
EPA 6020B	Boron	2.1	mg/L	0.20	07/21/23 16:55	
EPA 6020B	Cobalt	0.0045J	mg/L	0.0050	07/19/23 18:19	
EPA 6020B	Lithium	0.0013J	mg/L	0.030	07/19/23 18:19	
EPA 6020B	Molybdenum	0.065	mg/L	0.010	07/19/23 18:19	
SM 2540C-2015	Total Dissolved Solids	534	mg/L	25.0	07/18/23 15:24	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	144	mg/L	5.0	07/19/23 19:26	
SM 2320B-2011	Alkalinity, Total as CaCO3	144	mg/L	5.0	07/19/23 19:26	
EPA 300.0 Rev 2.1 1993	Chloride	55.3	mg/L	1.0	07/19/23 03:27	
EPA 300.0 Rev 2.1 1993	Fluoride	0.24	mg/L	0.10	07/19/23 03:27	
EPA 300.0 Rev 2.1 1993	Sulfate	160	mg/L	3.0	07/19/23 09:53	

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SUMMARY OF DETECTION

Project: Hammond AP-1
Pace Project No.: 92677694

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92677694003	**HAM-PT-10**					
	Performed by	CUSTOMER			07/17/23 17:16	
	pH	7.01	Std. Units		07/17/23 17:16	
EPA 6010D	Manganese	3.5	mg/L	0.040	07/20/23 16:14	
EPA 6010D	Potassium	7.1	mg/L	0.50	07/20/23 16:14	
EPA 6010D	Sodium	10.5	mg/L	1.0	07/20/23 16:14	
EPA 6010D	Calcium	127	mg/L	1.0	07/20/23 16:14	
EPA 6010D	Magnesium	16.8	mg/L	0.050	07/20/23 16:14	
EPA 6010D	Iron	3.1	mg/L	0.040	07/25/23 16:12	
EPA 6020B	Barium	0.074	mg/L	0.0050	07/19/23 18:25	
EPA 6020B	Boron	2.2	mg/L	0.20	07/21/23 17:01	
EPA 6020B	Cobalt	0.0026J	mg/L	0.0050	07/19/23 18:25	
EPA 6020B	Lithium	0.0014J	mg/L	0.030	07/19/23 18:25	
EPA 6020B	Molybdenum	0.10	mg/L	0.010	07/19/23 18:25	
SM 2540C-2015	Total Dissolved Solids	557	mg/L	25.0	07/18/23 15:24	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	185	mg/L	5.0	07/20/23 16:41	
SM 2320B-2011	Alkalinity, Total as CaCO3	185	mg/L	5.0	07/20/23 16:41	
EPA 300.0 Rev 2.1 1993	Chloride	67.2	mg/L	1.0	07/19/23 04:10	
EPA 300.0 Rev 2.1 1993	Fluoride	0.33	mg/L	0.10	07/19/23 04:10	
EPA 300.0 Rev 2.1 1993	Sulfate	145	mg/L	3.0	07/19/23 10:07	
92677694004	**HAM-PT-07**					
	Performed by	CUSTOMER			07/17/23 17:16	
	pH	6.76	Std. Units		07/17/23 17:16	
EPA 6010D	Manganese	8.2	mg/L	0.040	07/20/23 16:19	
EPA 6010D	Potassium	6.0	mg/L	0.50	07/20/23 16:19	
EPA 6010D	Sodium	6.1	mg/L	1.0	07/20/23 16:19	
EPA 6010D	Calcium	168	mg/L	1.0	07/20/23 16:19	
EPA 6010D	Magnesium	18.5	mg/L	0.050	07/20/23 16:19	
EPA 6010D	Iron	23.8	mg/L	0.040	07/25/23 16:17	
EPA 6020B	Arsenic	0.34	mg/L	0.010	07/19/23 18:30	
EPA 6020B	Barium	0.056	mg/L	0.0050	07/19/23 18:30	
EPA 6020B	Beryllium	0.00012J	mg/L	0.00050	07/19/23 18:30	
EPA 6020B	Boron	1.0	mg/L	0.20	07/21/23 17:07	
EPA 6020B	Cobalt	0.13	mg/L	0.0050	07/19/23 18:30	
EPA 6020B	Lithium	0.060	mg/L	0.030	07/19/23 18:30	
EPA 6020B	Molybdenum	0.017	mg/L	0.010	07/19/23 18:30	
EPA 6020B	Thallium	0.00024J	mg/L	0.0010	07/19/23 18:30	
SM 2540C-2015	Total Dissolved Solids	808	mg/L	25.0	07/18/23 15:24	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	102	mg/L	5.0	07/20/23 16:53	
SM 2320B-2011	Alkalinity, Total as CaCO3	102	mg/L	5.0	07/20/23 16:53	
EPA 300.0 Rev 2.1 1993	Chloride	15.7	mg/L	1.0	07/19/23 04:24	
EPA 300.0 Rev 2.1 1993	Fluoride	0.36	mg/L	0.10	07/19/23 04:24	
EPA 300.0 Rev 2.1 1993	Sulfate	411	mg/L	9.0	07/19/23 10:21	
92677694005	**HAM-PT-08**					
	Performed by	CUSTOMER			07/17/23 17:17	

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SUMMARY OF DETECTION

Project: Hammond AP-1
Pace Project No.: 92677694

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92677694005	**HAM-PT-08**					
	pH	6.66	Std. Units		07/17/23 17:17	
EPA 6010D	Manganese	8.7	mg/L	0.040	07/20/23 16:24	
EPA 6010D	Potassium	6.0	mg/L	0.50	07/20/23 16:24	
EPA 6010D	Sodium	6.9	mg/L	1.0	07/20/23 16:24	
EPA 6010D	Calcium	161	mg/L	1.0	07/20/23 16:24	
EPA 6010D	Magnesium	18.9	mg/L	0.050	07/20/23 16:24	
EPA 6010D	Iron	24.2	mg/L	0.040	07/25/23 16:38	
EPA 6020B	Arsenic	0.33	mg/L	0.010	07/19/23 18:36	
EPA 6020B	Barium	0.051	mg/L	0.0050	07/19/23 18:36	
EPA 6020B	Beryllium	0.00011J	mg/L	0.00050	07/19/23 18:36	
EPA 6020B	Boron	1.0	mg/L	0.20	07/21/23 17:13	
EPA 6020B	Cobalt	0.031	mg/L	0.0050	07/19/23 18:36	
EPA 6020B	Lithium	0.065	mg/L	0.030	07/19/23 18:36	
EPA 6020B	Molybdenum	0.0079J	mg/L	0.010	07/19/23 18:36	
SM 2540C-2015	Total Dissolved Solids	734	mg/L	25.0	07/18/23 15:25	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	107	mg/L	5.0	07/20/23 17:03	
SM 2320B-2011	Alkalinity, Total as CaCO3	107	mg/L	5.0	07/20/23 17:03	
SM 4500-S2D-2011	Sulfide	0.036J	mg/L	0.10	07/20/23 03:42	
EPA 300.0 Rev 2.1 1993	Chloride	17.0	mg/L	1.0	07/19/23 04:38	
EPA 300.0 Rev 2.1 1993	Fluoride	0.36	mg/L	0.10	07/19/23 04:38	
EPA 300.0 Rev 2.1 1993	Sulfate	417	mg/L	8.0	07/19/23 12:00	
92677694006	**HAM-AP1-FD-01**					
EPA 6010D	Iron	24.6	mg/L	0.040	07/25/23 16:48	
EPA 6010D	Manganese	8.6	mg/L	0.040	07/20/23 16:29	
EPA 6010D	Potassium	6.4	mg/L	0.50	07/20/23 16:29	
EPA 6010D	Sodium	6.6	mg/L	1.0	07/20/23 16:29	
EPA 6010D	Calcium	180	mg/L	1.0	07/20/23 16:29	
EPA 6010D	Magnesium	19.6	mg/L	0.050	07/20/23 16:29	
EPA 6020B	Arsenic	0.34	mg/L	0.010	07/19/23 18:54	
EPA 6020B	Barium	0.057	mg/L	0.0050	07/19/23 18:54	
EPA 6020B	Beryllium	0.00011J	mg/L	0.00050	07/19/23 18:54	
EPA 6020B	Boron	0.99	mg/L	0.20	07/21/23 17:19	
EPA 6020B	Cobalt	0.14	mg/L	0.0050	07/19/23 18:54	
EPA 6020B	Lithium	0.060	mg/L	0.030	07/19/23 18:54	
EPA 6020B	Molybdenum	0.018	mg/L	0.010	07/19/23 18:54	
EPA 6020B	Thallium	0.00025J	mg/L	0.0010	07/19/23 18:54	
SM 2540C-2015	Total Dissolved Solids	804	mg/L	25.0	07/18/23 15:25	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	102	mg/L	5.0	07/20/23 17:12	
SM 2320B-2011	Alkalinity, Total as CaCO3	102	mg/L	5.0	07/20/23 17:12	
EPA 300.0 Rev 2.1 1993	Chloride	15.6	mg/L	1.0	07/19/23 04:53	
EPA 300.0 Rev 2.1 1993	Fluoride	0.31	mg/L	0.10	07/19/23 04:53	
EPA 300.0 Rev 2.1 1993	Sulfate	428	mg/L	9.0	07/19/23 12:56	
92677694008	**HAM-HGWC-13**					
	Performed by	CUSTOMER			07/17/23 17:17	
	pH	6.67	Std. Units		07/17/23 17:17	

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SUMMARY OF DETECTION

Project: Hammond AP-1
Pace Project No.: 92677694

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92677694008	**HAM-HGWC-13**					
EPA 6010D	Iron	7.2	mg/L	0.040	07/20/23 16:39	
EPA 6010D	Manganese	8.9	mg/L	0.040	07/20/23 16:39	
EPA 6010D	Potassium	6.0	mg/L	0.50	07/20/23 16:39	
EPA 6010D	Sodium	6.8	mg/L	1.0	07/20/23 16:39	
EPA 6010D	Calcium	179	mg/L	1.0	07/20/23 16:39	
EPA 6010D	Magnesium	19.5	mg/L	0.050	07/20/23 16:39	
EPA 6020B	Arsenic	0.63	mg/L	0.010	07/19/23 19:06	
EPA 6020B	Barium	0.056	mg/L	0.0050	07/19/23 19:06	
EPA 6020B	Beryllium	0.00012J	mg/L	0.00050	07/19/23 19:06	
EPA 6020B	Boron	1.0	mg/L	0.20	07/21/23 17:43	
EPA 6020B	Cobalt	0.018	mg/L	0.0050	07/19/23 19:06	
EPA 6020B	Lithium	0.048	mg/L	0.030	07/19/23 19:06	
EPA 6020B	Molybdenum	0.017	mg/L	0.010	07/19/23 19:06	
EPA 6020B	Thallium	0.00030J	mg/L	0.0010	07/19/23 19:06	
SM 2540C-2015	Total Dissolved Solids	817	mg/L	25.0	07/18/23 15:31	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	140	mg/L	5.0	07/20/23 17:26	
SM 2320B-2011	Alkalinity, Total as CaCO3	140	mg/L	5.0	07/20/23 17:26	
EPA 300.0 Rev 2.1 1993	Chloride	17.8	mg/L	1.0	07/19/23 05:50	
EPA 300.0 Rev 2.1 1993	Fluoride	0.32	mg/L	0.10	07/19/23 05:50	
EPA 300.0 Rev 2.1 1993	Sulfate	393	mg/L	8.0	07/19/23 13:10	M1

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92677694

Sample: HAM-HGWC-8 **Lab ID: 92677694001** Collected: 07/13/23 10:35 Received: 07/17/23 12:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		07/17/23 17:16		
pH	**6.65**	Std. Units			1		07/17/23 17:16		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Manganese	**0.28**	mg/L	0.040	0.011	1	07/20/23 09:50	07/20/23 15:39	7439-96-5	
Potassium	**6.9**	mg/L	0.50	0.15	1	07/20/23 09:50	07/20/23 15:39	7440-09-7	
Sodium	**8.8**	mg/L	1.0	0.58	1	07/20/23 09:50	07/20/23 15:39	7440-23-5	M1
Calcium	**107**	mg/L	1.0	0.12	1	07/20/23 09:50	07/20/23 15:39	7440-70-2	M1
Magnesium	**14.9**	mg/L	0.050	0.012	1	07/20/23 09:50	07/20/23 15:39	7439-95-4	M1
Iron	**0.27**	mg/L	0.040	0.025	1	07/20/23 09:50	07/25/23 15:53	7439-89-6	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.0012	1	07/18/23 13:46	07/19/23 17:55	7440-36-0	
Arsenic	ND	mg/L	0.010	0.0037	1	07/18/23 13:46	07/19/23 17:55	7440-38-2	
Barium	**0.047**	mg/L	0.0050	0.00067	1	07/18/23 13:46	07/19/23 17:55	7440-39-3	
Beryllium	**0.000073J**	mg/L	0.00050	0.000054	1	07/18/23 13:46	07/19/23 17:55	7440-41-7	
Boron	**2.0**	mg/L	0.20	0.043	5	07/18/23 13:46	07/21/23 16:37	7440-42-8	
Cadmium	**0.00031J**	mg/L	0.00050	0.00011	1	07/18/23 13:46	07/19/23 17:55	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	07/18/23 13:46	07/19/23 17:55	7440-47-3	
Cobalt	**0.0015J**	mg/L	0.0050	0.00039	1	07/18/23 13:46	07/19/23 17:55	7440-48-4	
Lithium	**0.0015J**	mg/L	0.030	0.00073	1	07/18/23 13:46	07/19/23 17:55	7439-93-2	
Molybdenum	**0.30**	mg/L	0.010	0.00074	1	07/18/23 13:46	07/19/23 17:55	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	07/18/23 13:46	07/19/23 17:55	7782-49-2	
Thallium	**0.00026J**	mg/L	0.0010	0.00018	1	07/18/23 13:46	07/19/23 17:55	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	07/27/23 12:00	07/27/23 14:51	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**513**	mg/L	25.0	25.0	1		07/18/23 15:24		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**136**	mg/L	5.0	5.0	1		07/19/23 19:16		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		07/19/23 19:16		
Alkalinity, Total as CaCO3	**136**	mg/L	5.0	5.0	1		07/19/23 19:16		

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92677694

Sample: HAM-HGWC-8 **Lab ID: 92677694001** Collected: 07/13/23 10:35 Received: 07/17/23 12:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		07/20/23 03:39	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**47.9**	mg/L	1.0	0.60	1		07/19/23 03:12	16887-00-6	
Fluoride	**0.49**	mg/L	0.10	0.050	1		07/19/23 03:12	16984-48-8	
Sulfate	**163**	mg/L	3.0	1.5	3		07/19/23 09:10	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92677694

Sample: HAM-PT-09 **Lab ID: 92677694002** Collected: 07/13/23 12:47 Received: 07/17/23 12:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		07/17/23 17:16		
pH	**6.57**	Std. Units			1		07/17/23 17:16		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.33**	mg/L	0.040	0.025	1	07/20/23 09:50	07/25/23 16:08	7439-89-6	
Manganese	**0.79**	mg/L	0.040	0.011	1	07/20/23 09:50	07/20/23 15:59	7439-96-5	
Potassium	**6.8**	mg/L	0.50	0.15	1	07/20/23 09:50	07/20/23 15:59	7440-09-7	
Sodium	**10.6**	mg/L	1.0	0.58	1	07/20/23 09:50	07/20/23 15:59	7440-23-5	
Calcium	**110**	mg/L	1.0	0.12	1	07/20/23 09:50	07/20/23 15:59	7440-70-2	
Magnesium	**15.6**	mg/L	0.050	0.012	1	07/20/23 09:50	07/20/23 15:59	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.0027J**	mg/L	0.0030	0.0012	1	07/18/23 13:46	07/19/23 18:19	7440-36-0	
Arsenic	ND	mg/L	0.010	0.0037	1	07/18/23 13:46	07/19/23 18:19	7440-38-2	
Barium	**0.053**	mg/L	0.0050	0.00067	1	07/18/23 13:46	07/19/23 18:19	7440-39-3	
Beryllium	**0.000077J**	mg/L	0.00050	0.000054	1	07/18/23 13:46	07/19/23 18:19	7440-41-7	
Boron	**2.1**	mg/L	0.20	0.043	5	07/18/23 13:46	07/21/23 16:55	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	07/18/23 13:46	07/19/23 18:19	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	07/18/23 13:46	07/19/23 18:19	7440-47-3	
Cobalt	**0.0045J**	mg/L	0.0050	0.00039	1	07/18/23 13:46	07/19/23 18:19	7440-48-4	
Lithium	**0.0013J**	mg/L	0.030	0.00073	1	07/18/23 13:46	07/19/23 18:19	7439-93-2	
Molybdenum	**0.065**	mg/L	0.010	0.00074	1	07/18/23 13:46	07/19/23 18:19	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	07/18/23 13:46	07/19/23 18:19	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	07/18/23 13:46	07/19/23 18:19	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	07/27/23 12:00	07/27/23 14:53	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**534**	mg/L	25.0	25.0	1		07/18/23 15:24		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**144**	mg/L	5.0	5.0	1		07/19/23 19:26		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		07/19/23 19:26		
Alkalinity, Total as CaCO3	**144**	mg/L	5.0	5.0	1		07/19/23 19:26		

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92677694

Sample: HAM-PT-09 **Lab ID: 92677694002** Collected: 07/13/23 12:47 Received: 07/17/23 12:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		07/20/23 03:41	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**55.3**	mg/L	1.0	0.60	1		07/19/23 03:27	16887-00-6	
Fluoride	**0.24**	mg/L	0.10	0.050	1		07/19/23 03:27	16984-48-8	
Sulfate	**160**	mg/L	3.0	1.5	3		07/19/23 09:53	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92677694

Sample: HAM-PT-10 **Lab ID: 92677694003** Collected: 07/13/23 14:15 Received: 07/17/23 12:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		07/17/23 17:16		
pH	**7.01**	Std. Units			1		07/17/23 17:16		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Manganese	**3.5**	mg/L	0.040	0.011	1	07/20/23 09:50	07/20/23 16:14	7439-96-5	
Potassium	**7.1**	mg/L	0.50	0.15	1	07/20/23 09:50	07/20/23 16:14	7440-09-7	
Sodium	**10.5**	mg/L	1.0	0.58	1	07/20/23 09:50	07/20/23 16:14	7440-23-5	
Calcium	**127**	mg/L	1.0	0.12	1	07/20/23 09:50	07/20/23 16:14	7440-70-2	
Magnesium	**16.8**	mg/L	0.050	0.012	1	07/20/23 09:50	07/20/23 16:14	7439-95-4	
Iron	**3.1**	mg/L	0.040	0.025	1	07/20/23 09:50	07/25/23 16:12	7439-89-6	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.0012	1	07/18/23 13:46	07/19/23 18:25	7440-36-0	
Arsenic	ND	mg/L	0.010	0.0037	1	07/18/23 13:46	07/19/23 18:25	7440-38-2	
Barium	**0.074**	mg/L	0.0050	0.00067	1	07/18/23 13:46	07/19/23 18:25	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	07/18/23 13:46	07/19/23 18:25	7440-41-7	
Boron	**2.2**	mg/L	0.20	0.043	5	07/18/23 13:46	07/21/23 17:01	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	07/18/23 13:46	07/19/23 18:25	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	07/18/23 13:46	07/19/23 18:25	7440-47-3	
Cobalt	**0.0026J**	mg/L	0.0050	0.00039	1	07/18/23 13:46	07/19/23 18:25	7440-48-4	
Lithium	**0.0014J**	mg/L	0.030	0.00073	1	07/18/23 13:46	07/19/23 18:25	7439-93-2	
Molybdenum	**0.10**	mg/L	0.010	0.00074	1	07/18/23 13:46	07/19/23 18:25	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	07/18/23 13:46	07/19/23 18:25	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	07/18/23 13:46	07/19/23 18:25	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	07/27/23 12:00	07/27/23 15:09	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**557**	mg/L	25.0	25.0	1		07/18/23 15:24		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**185**	mg/L	5.0	5.0	1		07/20/23 16:41		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		07/20/23 16:41		
Alkalinity, Total as CaCO3	**185**	mg/L	5.0	5.0	1		07/20/23 16:41		

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92677694

Sample: HAM-PT-10 **Lab ID: 92677694003** Collected: 07/13/23 14:15 Received: 07/17/23 12:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		07/20/23 03:41	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**67.2**	mg/L	1.0	0.60	1		07/19/23 04:10	16887-00-6	
Fluoride	**0.33**	mg/L	0.10	0.050	1		07/19/23 04:10	16984-48-8	
Sulfate	**145**	mg/L	3.0	1.5	3		07/19/23 10:07	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92677694

Sample: HAM-PT-07 **Lab ID: 92677694004** Collected: 07/13/23 16:22 Received: 07/17/23 12:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		07/17/23 17:16		
pH	**6.76**	Std. Units			1		07/17/23 17:16		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Manganese	**8.2**	mg/L	0.040	0.011	1	07/20/23 09:50	07/20/23 16:19	7439-96-5	
Potassium	**6.0**	mg/L	0.50	0.15	1	07/20/23 09:50	07/20/23 16:19	7440-09-7	
Sodium	**6.1**	mg/L	1.0	0.58	1	07/20/23 09:50	07/20/23 16:19	7440-23-5	
Calcium	**168**	mg/L	1.0	0.12	1	07/20/23 09:50	07/20/23 16:19	7440-70-2	
Magnesium	**18.5**	mg/L	0.050	0.012	1	07/20/23 09:50	07/20/23 16:19	7439-95-4	
Iron	**23.8**	mg/L	0.040	0.025	1	07/20/23 09:50	07/25/23 16:17	7439-89-6	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.0012	1	07/18/23 13:46	07/19/23 18:30	7440-36-0	
Arsenic	**0.34**	mg/L	0.010	0.0037	1	07/18/23 13:46	07/19/23 18:30	7440-38-2	
Barium	**0.056**	mg/L	0.0050	0.00067	1	07/18/23 13:46	07/19/23 18:30	7440-39-3	
Beryllium	**0.00012J**	mg/L	0.00050	0.000054	1	07/18/23 13:46	07/19/23 18:30	7440-41-7	
Boron	**1.0**	mg/L	0.20	0.043	5	07/18/23 13:46	07/21/23 17:07	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	07/18/23 13:46	07/19/23 18:30	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	07/18/23 13:46	07/19/23 18:30	7440-47-3	
Cobalt	**0.13**	mg/L	0.0050	0.00039	1	07/18/23 13:46	07/19/23 18:30	7440-48-4	
Lithium	**0.060**	mg/L	0.030	0.00073	1	07/18/23 13:46	07/19/23 18:30	7439-93-2	
Molybdenum	**0.017**	mg/L	0.010	0.00074	1	07/18/23 13:46	07/19/23 18:30	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	07/18/23 13:46	07/19/23 18:30	7782-49-2	
Thallium	**0.00024J**	mg/L	0.0010	0.00018	1	07/18/23 13:46	07/19/23 18:30	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	07/27/23 12:00	07/27/23 15:12	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**808**	mg/L	25.0	25.0	1		07/18/23 15:24		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**102**	mg/L	5.0	5.0	1		07/20/23 16:53		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		07/20/23 16:53		
Alkalinity, Total as CaCO3	**102**	mg/L	5.0	5.0	1		07/20/23 16:53		

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92677694

Sample: HAM-PT-07 **Lab ID: 92677694004** Collected: 07/13/23 16:22 Received: 07/17/23 12:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		07/20/23 03:42	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**15.7**	mg/L	1.0	0.60	1		07/19/23 04:24	16887-00-6	
Fluoride	**0.36**	mg/L	0.10	0.050	1		07/19/23 04:24	16984-48-8	
Sulfate	**411**	mg/L	9.0	4.5	9		07/19/23 10:21	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92677694

Sample: HAM-PT-08 **Lab ID: 92677694005** Collected: 07/13/23 17:51 Received: 07/17/23 12:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		07/17/23 17:17		
pH	**6.66**	Std. Units			1		07/17/23 17:17		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Manganese	**8.7**	mg/L	0.040	0.011	1	07/20/23 09:50	07/20/23 16:24	7439-96-5	
Potassium	**6.0**	mg/L	0.50	0.15	1	07/20/23 09:50	07/20/23 16:24	7440-09-7	
Sodium	**6.9**	mg/L	1.0	0.58	1	07/20/23 09:50	07/20/23 16:24	7440-23-5	
Calcium	**161**	mg/L	1.0	0.12	1	07/20/23 09:50	07/20/23 16:24	7440-70-2	
Magnesium	**18.9**	mg/L	0.050	0.012	1	07/20/23 09:50	07/20/23 16:24	7439-95-4	
Iron	**24.2**	mg/L	0.040	0.025	1	07/20/23 09:50	07/25/23 16:38	7439-89-6	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.0012	1	07/18/23 13:46	07/19/23 18:36	7440-36-0	
Arsenic	**0.33**	mg/L	0.010	0.0037	1	07/18/23 13:46	07/19/23 18:36	7440-38-2	
Barium	**0.051**	mg/L	0.0050	0.00067	1	07/18/23 13:46	07/19/23 18:36	7440-39-3	
Beryllium	**0.00011J**	mg/L	0.00050	0.000054	1	07/18/23 13:46	07/19/23 18:36	7440-41-7	
Boron	**1.0**	mg/L	0.20	0.043	5	07/18/23 13:46	07/21/23 17:13	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	07/18/23 13:46	07/19/23 18:36	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	07/18/23 13:46	07/19/23 18:36	7440-47-3	
Cobalt	**0.031**	mg/L	0.0050	0.00039	1	07/18/23 13:46	07/19/23 18:36	7440-48-4	
Lithium	**0.065**	mg/L	0.030	0.00073	1	07/18/23 13:46	07/19/23 18:36	7439-93-2	
Molybdenum	**0.0079J**	mg/L	0.010	0.00074	1	07/18/23 13:46	07/19/23 18:36	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	07/18/23 13:46	07/19/23 18:36	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	07/18/23 13:46	07/19/23 18:36	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	07/27/23 12:00	07/27/23 15:14	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**734**	mg/L	25.0	25.0	1		07/18/23 15:25		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**107**	mg/L	5.0	5.0	1		07/20/23 17:03		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		07/20/23 17:03		
Alkalinity, Total as CaCO3	**107**	mg/L	5.0	5.0	1		07/20/23 17:03		

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92677694

Sample: HAM-PT-08 **Lab ID: 92677694005** Collected: 07/13/23 17:51 Received: 07/17/23 12:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	**0.036J**	mg/L	0.10	0.022	1		07/20/23 03:42	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**17.0**	mg/L	1.0	0.60	1		07/19/23 04:38	16887-00-6	
Fluoride	**0.36**	mg/L	0.10	0.050	1		07/19/23 04:38	16984-48-8	
Sulfate	**417**	mg/L	8.0	4.0	8		07/19/23 12:00	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92677694

Sample: HAM-AP1-FD-01 **Lab ID: 92677694006** Collected: 07/13/23 00:00 Received: 07/17/23 12:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**24.6**	mg/L	0.040	0.025	1	07/20/23 09:50	07/25/23 16:48	7439-89-6	
Manganese	**8.6**	mg/L	0.040	0.011	1	07/20/23 09:50	07/20/23 16:29	7439-96-5	
Potassium	**6.4**	mg/L	0.50	0.15	1	07/20/23 09:50	07/20/23 16:29	7440-09-7	
Sodium	**6.6**	mg/L	1.0	0.58	1	07/20/23 09:50	07/20/23 16:29	7440-23-5	
Calcium	**180**	mg/L	1.0	0.12	1	07/20/23 09:50	07/20/23 16:29	7440-70-2	
Magnesium	**19.6**	mg/L	0.050	0.012	1	07/20/23 09:50	07/20/23 16:29	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.0012	1	07/18/23 13:46	07/19/23 18:54	7440-36-0	
Arsenic	**0.34**	mg/L	0.010	0.0037	1	07/18/23 13:46	07/19/23 18:54	7440-38-2	
Barium	**0.057**	mg/L	0.0050	0.00067	1	07/18/23 13:46	07/19/23 18:54	7440-39-3	
Beryllium	**0.00011J**	mg/L	0.00050	0.000054	1	07/18/23 13:46	07/19/23 18:54	7440-41-7	
Boron	**0.99**	mg/L	0.20	0.043	5	07/18/23 13:46	07/21/23 17:19	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	07/18/23 13:46	07/19/23 18:54	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	07/18/23 13:46	07/19/23 18:54	7440-47-3	
Cobalt	**0.14**	mg/L	0.0050	0.00039	1	07/18/23 13:46	07/19/23 18:54	7440-48-4	
Lithium	**0.060**	mg/L	0.030	0.00073	1	07/18/23 13:46	07/19/23 18:54	7439-93-2	
Molybdenum	**0.018**	mg/L	0.010	0.00074	1	07/18/23 13:46	07/19/23 18:54	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	07/18/23 13:46	07/19/23 18:54	7782-49-2	
Thallium	**0.00025J**	mg/L	0.0010	0.00018	1	07/18/23 13:46	07/19/23 18:54	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	07/27/23 12:00	07/27/23 15:17	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**804**	mg/L	25.0	25.0	1		07/18/23 15:25		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**102**	mg/L	5.0	5.0	1		07/20/23 17:12		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		07/20/23 17:12		
Alkalinity, Total as CaCO3	**102**	mg/L	5.0	5.0	1		07/20/23 17:12		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		07/20/23 03:42	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**15.6**	mg/L	1.0	0.60	1		07/19/23 04:53	16887-00-6	
Fluoride	**0.31**	mg/L	0.10	0.050	1		07/19/23 04:53	16984-48-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92677694

Sample: HAM-AP1-FD-01 **Lab ID: 92677694006** Collected: 07/13/23 00:00 Received: 07/17/23 12:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**428**	mg/L	9.0	4.5	9		07/19/23 12:56	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92677694

Sample: HAM-AP1-FB-01 **Lab ID: 92677694007** Collected: 07/17/23 08:40 Received: 07/17/23 12:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Manganese	ND	mg/L	0.040	0.011	1	07/20/23 09:50	07/20/23 16:34	7439-96-5	
Potassium	ND	mg/L	0.50	0.15	1	07/20/23 09:50	07/20/23 16:34	7440-09-7	
Sodium	ND	mg/L	1.0	0.58	1	07/20/23 09:50	07/20/23 16:34	7440-23-5	
Calcium	ND	mg/L	1.0	0.12	1	07/20/23 09:50	07/20/23 16:34	7440-70-2	
Magnesium	ND	mg/L	0.050	0.012	1	07/20/23 09:50	07/20/23 16:34	7439-95-4	
Iron	ND	mg/L	0.040	0.025	1	07/20/23 09:50	07/25/23 16:53	7439-89-6	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.0012	1	07/18/23 13:46	07/19/23 19:00	7440-36-0	
Arsenic	ND	mg/L	0.010	0.0037	1	07/18/23 13:46	07/19/23 19:00	7440-38-2	
Barium	ND	mg/L	0.0050	0.00067	1	07/18/23 13:46	07/19/23 19:00	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	07/18/23 13:46	07/19/23 19:00	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	07/18/23 13:46	07/21/23 17:37	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	07/18/23 13:46	07/19/23 19:00	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	07/18/23 13:46	07/19/23 19:00	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	07/18/23 13:46	07/19/23 19:00	7440-48-4	
Lithium	ND	mg/L	0.030	0.00073	1	07/18/23 13:46	07/19/23 19:00	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	07/18/23 13:46	07/19/23 19:00	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	07/18/23 13:46	07/19/23 19:00	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	07/18/23 13:46	07/19/23 19:00	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	07/27/23 12:00	07/27/23 15:19	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		07/18/23 15:30		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		07/20/23 17:22		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		07/20/23 17:22		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		07/20/23 17:22		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		07/20/23 04:00	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		07/19/23 05:07	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		07/19/23 05:07	16984-48-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92677694

Sample: HAM-AP1-FB-01 **Lab ID: 92677694007** Collected: 07/17/23 08:40 Received: 07/17/23 12:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	ND	mg/L	1.0	0.50	1		07/19/23 05:07	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92677694

Sample: HAM-HGWC-13 **Lab ID: 92677694008** Collected: 07/17/23 11:47 Received: 07/17/23 12:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**CUSTOMER**				1		07/17/23 17:17		
pH	**6.67**	Std. Units			1		07/17/23 17:17		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**7.2**	mg/L	0.040	0.025	1	07/20/23 09:50	07/20/23 16:39	7439-89-6	
Manganese	**8.9**	mg/L	0.040	0.011	1	07/20/23 09:50	07/20/23 16:39	7439-96-5	
Potassium	**6.0**	mg/L	0.50	0.15	1	07/20/23 09:50	07/20/23 16:39	7440-09-7	
Sodium	**6.8**	mg/L	1.0	0.58	1	07/20/23 09:50	07/20/23 16:39	7440-23-5	
Calcium	**179**	mg/L	1.0	0.12	1	07/20/23 09:50	07/20/23 16:39	7440-70-2	
Magnesium	**19.5**	mg/L	0.050	0.012	1	07/20/23 09:50	07/20/23 16:39	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.0012	1	07/18/23 13:46	07/19/23 19:06	7440-36-0	
Arsenic	**0.63**	mg/L	0.010	0.0037	1	07/18/23 13:46	07/19/23 19:06	7440-38-2	
Barium	**0.056**	mg/L	0.0050	0.00067	1	07/18/23 13:46	07/19/23 19:06	7440-39-3	
Beryllium	**0.00012J**	mg/L	0.00050	0.000054	1	07/18/23 13:46	07/19/23 19:06	7440-41-7	
Boron	**1.0**	mg/L	0.20	0.043	5	07/18/23 13:46	07/21/23 17:43	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	07/18/23 13:46	07/19/23 19:06	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	07/18/23 13:46	07/19/23 19:06	7440-47-3	
Cobalt	**0.018**	mg/L	0.0050	0.00039	1	07/18/23 13:46	07/19/23 19:06	7440-48-4	
Lithium	**0.048**	mg/L	0.030	0.00073	1	07/18/23 13:46	07/19/23 19:06	7439-93-2	
Molybdenum	**0.017**	mg/L	0.010	0.00074	1	07/18/23 13:46	07/19/23 19:06	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	07/18/23 13:46	07/19/23 19:06	7782-49-2	
Thallium	**0.00030J**	mg/L	0.0010	0.00018	1	07/18/23 13:46	07/19/23 19:06	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	07/27/23 12:00	07/27/23 15:22	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**817**	mg/L	25.0	25.0	1		07/18/23 15:31		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**140**	mg/L	5.0	5.0	1		07/20/23 17:26		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		07/20/23 17:26		
Alkalinity, Total as CaCO3	**140**	mg/L	5.0	5.0	1		07/20/23 17:26		

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92677694

Sample: HAM-HGWC-13 **Lab ID: 92677694008** Collected: 07/17/23 11:47 Received: 07/17/23 12:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		07/20/23 04:00	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**17.8**	mg/L	1.0	0.60	1		07/19/23 05:50	16887-00-6	
Fluoride	**0.32**	mg/L	0.10	0.050	1		07/19/23 05:50	16984-48-8	
Sulfate	**393**	mg/L	8.0	4.0	8		07/19/23 13:10	14808-79-8	M1

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92677694

QC Batch: 787863
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92677694001, 92677694002, 92677694003, 92677694004, 92677694005, 92677694006, 92677694007, 92677694008

METHOD BLANK: 4084625 Matrix: Water
Associated Lab Samples: 92677694001, 92677694002, 92677694003, 92677694004, 92677694005, 92677694006, 92677694007, 92677694008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	07/20/23 15:30	
Iron	mg/L	ND	0.040	0.025	07/25/23 15:43	
Magnesium	mg/L	ND	0.050	0.012	07/20/23 15:30	
Manganese	mg/L	ND	0.040	0.011	07/20/23 15:30	
Potassium	mg/L	ND	0.50	0.15	07/20/23 15:30	
Sodium	mg/L	ND	1.0	0.58	07/20/23 15:30	

LABORATORY CONTROL SAMPLE: 4084626

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	0.92J	92	80-120	
Iron	mg/L	1	0.99	99	80-120	
Magnesium	mg/L	1	0.93	93	80-120	
Manganese	mg/L	1	0.94	94	80-120	
Potassium	mg/L	1	0.88	88	80-120	
Sodium	mg/L	1	0.84J	84	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4085060 4085061

Parameter	Units	92677694001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	107	1	1	109	104	196	-279	75-125	4	20	M1
Iron	mg/L	0.27	1	1	1.3	1.3	99	105	75-125	5	20	
Magnesium	mg/L	14.9	1	1	16.2	15.6	128	74	75-125	3	20	M1
Manganese	mg/L	0.28	1	1	1.2	1.3	96	100	75-125	3	20	
Potassium	mg/L	6.9	1	1	8.1	7.8	118	90	75-125	3	20	
Sodium	mg/L	8.8	1	1	9.9	9.5	111	73	75-125	4	20	M1

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92677694

QC Batch: 787489
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92677694001, 92677694002, 92677694003, 92677694004, 92677694005, 92677694006, 92677694007, 92677694008

METHOD BLANK: 4082463 Matrix: Water
Associated Lab Samples: 92677694001, 92677694002, 92677694003, 92677694004, 92677694005, 92677694006, 92677694007, 92677694008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.0012	07/19/23 17:43	
Arsenic	mg/L	ND	0.010	0.0037	07/19/23 17:43	
Barium	mg/L	ND	0.0050	0.00067	07/19/23 17:43	
Beryllium	mg/L	ND	0.00050	0.000054	07/19/23 17:43	
Boron	mg/L	ND	0.040	0.0086	07/21/23 16:25	
Cadmium	mg/L	ND	0.00050	0.00011	07/19/23 17:43	
Chromium	mg/L	ND	0.0050	0.0011	07/19/23 17:43	
Cobalt	mg/L	ND	0.0050	0.00039	07/19/23 17:43	
Lithium	mg/L	ND	0.030	0.00073	07/19/23 17:43	
Molybdenum	mg/L	ND	0.010	0.00074	07/19/23 17:43	
Selenium	mg/L	ND	0.0050	0.0014	07/19/23 17:43	
Thallium	mg/L	ND	0.0010	0.00018	07/19/23 17:43	

LABORATORY CONTROL SAMPLE: 4082464

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	107	80-120	
Arsenic	mg/L	0.1	0.099	99	80-120	
Barium	mg/L	0.1	0.096	96	80-120	
Beryllium	mg/L	0.1	0.10	102	80-120	
Boron	mg/L	1	1.1	110	80-120	
Cadmium	mg/L	0.1	0.10	103	80-120	
Chromium	mg/L	0.1	0.10	102	80-120	
Cobalt	mg/L	0.1	0.10	101	80-120	
Lithium	mg/L	0.1	0.10	103	80-120	
Molybdenum	mg/L	0.1	0.10	102	80-120	
Selenium	mg/L	0.1	0.10	101	80-120	
Thallium	mg/L	0.1	0.097	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4082465 4082466

Parameter	Units	92677694001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.11	0.11	109	110	75-125	1	20	
Arsenic	mg/L	ND	0.1	0.1	0.10	0.11	104	106	75-125	2	20	
Barium	mg/L	0.047	0.1	0.1	0.16	0.16	114	113	75-125	1	20	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92677694

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4082465 4082466

Parameter	Units	92677694001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Beryllium	mg/L	0.000073J	0.1	0.1	0.095	0.096	95	96	75-125	1	20	
Boron	mg/L	2.0	1	1	3.1	2.9	108	94	75-125	5	20	
Cadmium	mg/L	0.00031J	0.1	0.1	0.10	0.10	102	104	75-125	1	20	
Chromium	mg/L	ND	0.1	0.1	0.10	0.099	101	99	75-125	2	20	
Cobalt	mg/L	0.0015J	0.1	0.1	0.10	0.099	99	97	75-125	1	20	
Lithium	mg/L	0.0015J	0.1	0.1	0.099	0.099	97	98	75-125	0	20	
Molybdenum	mg/L	0.30	0.1	0.1	0.42	0.42	121	123	75-125	1	20	
Selenium	mg/L	ND	0.1	0.1	0.11	0.11	106	106	75-125	0	20	
Thallium	mg/L	0.00026J	0.1	0.1	0.097	0.096	97	96	75-125	1	20	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92677694

QC Batch: 789561
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92677694001, 92677694002, 92677694003, 92677694004, 92677694005, 92677694006, 92677694007, 92677694008

METHOD BLANK: 4092350 Matrix: Water
Associated Lab Samples: 92677694001, 92677694002, 92677694003, 92677694004, 92677694005, 92677694006, 92677694007, 92677694008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	07/27/23 14:41	

LABORATORY CONTROL SAMPLE: 4092351

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0023	92	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4092352 4092353

Parameter	Units	92677694002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0021	0.0021	83	85	75-125	2	20	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92677694

QC Batch: 787441 — Analysis Method: SM 2540C-2015
QC Batch Method: SM 2540C-2015 — Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92677694001, 92677694002, 92677694003, 92677694004, 92677694005, 92677694006, 92677694007, 92677694008

METHOD BLANK: 4082157 — Matrix: Water
Associated Lab Samples: 92677694001, 92677694002, 92677694003, 92677694004, 92677694005, 92677694006, 92677694007, 92677694008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	07/18/23 15:23	

LABORATORY CONTROL SAMPLE: 4082158

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	409	102	80-120	

SAMPLE DUPLICATE: 4082159

Parameter	Units	92677694001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	513	511	0	10	

SAMPLE DUPLICATE: 4082160

Parameter	Units	92677696005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1460	1570	8	10	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92677694

QC Batch: 787723
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92677694001, 92677694002

METHOD BLANK: 4083535 Matrix: Water
Associated Lab Samples: 92677694001, 92677694002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	07/19/23 16:09	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	07/19/23 16:09	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	07/19/23 16:09	

LABORATORY CONTROL SAMPLE: 4083536

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	52.8	106	80-120	

LABORATORY CONTROL SAMPLE: 4083537

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	49.5	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4083538 4083539

Parameter	Units	92677420019 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	48.7	50	50	102	103	106	108	80-120	1	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4083540 4083541

Parameter	Units	92677318002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	330	50	50	390	394	120	129	80-120	1	25	M1

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(704)875-9092

QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92677694

QC Batch: 788121 — Analysis Method: SM 2320B-2011
QC Batch Method: SM 2320B-2011 — Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92677694003, 92677694004, 92677694005, 92677694006, 92677694007, 92677694008

METHOD BLANK: 4085797 — Matrix: Water
Associated Lab Samples: 92677694003, 92677694004, 92677694005, 92677694006, 92677694007, 92677694008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	07/20/23 16:09	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	07/20/23 16:09	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	07/20/23 16:09	

LABORATORY CONTROL SAMPLE: 4085798

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.4	103	80-120	

LABORATORY CONTROL SAMPLE: 4085799

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.7	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4085800 — 4085801

Parameter	Units	92677753005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	121	50	50	180	180	118	118	80-120	0	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4085802 — 4085803

Parameter	Units	92677753006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	76.8	50	50	129	131	103	108	80-120	2	25	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92677694

QC Batch: 787902 — Analysis Method: SM 4500-S2D-2011
QC Batch Method: SM 4500-S2D-2011 — Analysis Description: 4500S2D Sulfide Water
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92677694001, 92677694002, 92677694003, 92677694004, 92677694005, 92677694006

METHOD BLANK: 4084741 — Matrix: Water
Associated Lab Samples: 92677694001, 92677694002, 92677694003, 92677694004, 92677694005, 92677694006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	0.022	07/20/23 03:38	

LABORATORY CONTROL SAMPLE: 4084742

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	0.49	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4084743 — 4084744

Parameter	Units	92677694001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.47	0.47	93	93	80-120	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4084745 — 4084746

Parameter	Units	92677696005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.48	0.46	94	90	80-120	5	10	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92677694

QC Batch: 787903
QC Batch Method: SM 4500-S2D-2011
Analysis Method: SM 4500-S2D-2011
Analysis Description: 4500S2D Sulfide Water
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92677694007, 92677694008

METHOD BLANK: 4084747 Matrix: Water
Associated Lab Samples: 92677694007, 92677694008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	0.022	07/20/23 03:57	

LABORATORY CONTROL SAMPLE: 4084748

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	0.49	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4084749 4084750

Parameter	Units	92678161006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.53	0.54	105	108	80-120	3	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4084751 4084752

Parameter	Units	92677696012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.43	0.47	84	93	80-120	10	10	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92677694

QC Batch: 787373 | Analysis Method: EPA 300.0 Rev 2.1 1993
QC Batch Method: EPA 300.0 Rev 2.1 1993 | Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92677694001, 92677694002, 92677694003, 92677694004, 92677694005, 92677694006, 92677694007

METHOD BLANK: 4081842 Matrix: Water
Associated Lab Samples: 92677694001, 92677694002, 92677694003, 92677694004, 92677694005, 92677694006, 92677694007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	07/18/23 12:46	
Fluoride	mg/L	ND	0.10	0.050	07/18/23 12:46	
Sulfate	mg/L	ND	1.0	0.50	07/18/23 12:46	

LABORATORY CONTROL SAMPLE: 4081843

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.3	101	90-110	
Fluoride	mg/L	2.5	2.5	101	90-110	
Sulfate	mg/L	50	49.5	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4081844 4081845

Parameter	Units	92677589002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	2.9	50	50	54.1	54.7	102	104	90-110	1	10	
Fluoride	mg/L	ND	2.5	2.5	2.7	2.7	107	107	90-110	0	10	
Sulfate	mg/L	25.2	50	50	75.9	76.5	101	103	90-110	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4081846 4081847

Parameter	Units	92677589020 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	21.6	50	50	60.3	60.3	78	77	90-110	0	10	M1
Fluoride	mg/L	0.37J	2.5	2.5	2.8J	3.2J	96	113	90-110		10	M1
Sulfate	mg/L	3080	50	50	3000	2940	-145	-278	90-110	2	10	M1

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92677694

QC Batch: 787377
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92677694008

METHOD BLANK: 4081859 Matrix: Water
Associated Lab Samples: 92677694008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	07/19/23 05:21	
Fluoride	mg/L	ND	0.10	0.050	07/19/23 05:21	
Sulfate	mg/L	ND	1.0	0.50	07/19/23 05:21	

LABORATORY CONTROL SAMPLE: 4081860

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.4	101	90-110	
Fluoride	mg/L	2.5	2.4	98	90-110	
Sulfate	mg/L	50	49.8	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4081861 4081862

Parameter	Units	92677694008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	17.8	50	50	69.7	70.1	104	105	90-110	1	10	
Fluoride	mg/L	0.32	2.5	2.5	2.8	2.8	98	99	90-110	1	10	
Sulfate	mg/L	393	50	50	422	418	58	49	90-110	1	10	M1

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QUALIFIERS

Project: Hammond AP-1
Pace Project No.: 92677694

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Hammond AP-1
Pace Project No.: 92677694

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92677694001	**HAM-HGWC-8**				
92677694002	**HAM-PT-09**				
92677694003	**HAM-PT-10**				
92677694004	**HAM-PT-07**				
92677694005	**HAM-PT-08**				
92677694008	**HAM-HGWC-13**				
92677694001	**HAM-HGWC-8**	EPA 3010A	787863	EPA 6010D	788067
92677694002	**HAM-PT-09**	EPA 3010A	787863	EPA 6010D	788067
92677694003	**HAM-PT-10**	EPA 3010A	787863	EPA 6010D	788067
92677694004	**HAM-PT-07**	EPA 3010A	787863	EPA 6010D	788067
92677694005	**HAM-PT-08**	EPA 3010A	787863	EPA 6010D	788067
92677694006	**HAM-AP1-FD-01**	EPA 3010A	787863	EPA 6010D	788067
92677694007	**HAM-AP1-FB-01**	EPA 3010A	787863	EPA 6010D	788067
92677694008	**HAM-HGWC-13**	EPA 3010A	787863	EPA 6010D	788067
92677694001	**HAM-HGWC-8**	EPA 3005A	787489	EPA 6020B	787561
92677694002	**HAM-PT-09**	EPA 3005A	787489	EPA 6020B	787561
92677694003	**HAM-PT-10**	EPA 3005A	787489	EPA 6020B	787561
92677694004	**HAM-PT-07**	EPA 3005A	787489	EPA 6020B	787561
92677694005	**HAM-PT-08**	EPA 3005A	787489	EPA 6020B	787561
92677694006	**HAM-AP1-FD-01**	EPA 3005A	787489	EPA 6020B	787561
92677694007	**HAM-AP1-FB-01**	EPA 3005A	787489	EPA 6020B	787561
92677694008	**HAM-HGWC-13**	EPA 3005A	787489	EPA 6020B	787561
92677694001	**HAM-HGWC-8**	EPA 7470A	789561	EPA 7470A	789666
92677694002	**HAM-PT-09**	EPA 7470A	789561	EPA 7470A	789666
92677694003	**HAM-PT-10**	EPA 7470A	789561	EPA 7470A	789666
92677694004	**HAM-PT-07**	EPA 7470A	789561	EPA 7470A	789666
92677694005	**HAM-PT-08**	EPA 7470A	789561	EPA 7470A	789666
92677694006	**HAM-AP1-FD-01**	EPA 7470A	789561	EPA 7470A	789666
92677694007	**HAM-AP1-FB-01**	EPA 7470A	789561	EPA 7470A	789666
92677694008	**HAM-HGWC-13**	EPA 7470A	789561	EPA 7470A	789666
92677694001	**HAM-HGWC-8**	SM 2540C-2015	787441		
92677694002	**HAM-PT-09**	SM 2540C-2015	787441		
92677694003	**HAM-PT-10**	SM 2540C-2015	787441		
92677694004	**HAM-PT-07**	SM 2540C-2015	787441		
92677694005	**HAM-PT-08**	SM 2540C-2015	787441		
92677694006	**HAM-AP1-FD-01**	SM 2540C-2015	787441		
92677694007	**HAM-AP1-FB-01**	SM 2540C-2015	787441		
92677694008	**HAM-HGWC-13**	SM 2540C-2015	787441		
92677694001	**HAM-HGWC-8**	SM 2320B-2011	787723		
92677694002	**HAM-PT-09**	SM 2320B-2011	787723		
92677694003	**HAM-PT-10**	SM 2320B-2011	788121		
92677694004	**HAM-PT-07**	SM 2320B-2011	788121		
92677694005	**HAM-PT-08**	SM 2320B-2011	788121		
92677694006	**HAM-AP1-FD-01**	SM 2320B-2011	788121		
92677694007	**HAM-AP1-FB-01**	SM 2320B-2011	788121		
92677694008	**HAM-HGWC-13**	SM 2320B-2011	788121		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Hammond AP-1
Pace Project No.: 92677694

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92677694001	**HAM-HGWC-8**	SM 4500-S2D-2011	787902		
92677694002	**HAM-PT-09**	SM 4500-S2D-2011	787902		
92677694003	**HAM-PT-10**	SM 4500-S2D-2011	787902		
92677694004	**HAM-PT-07**	SM 4500-S2D-2011	787902		
92677694005	**HAM-PT-08**	SM 4500-S2D-2011	787902		
92677694006	**HAM-AP1-FD-01**	SM 4500-S2D-2011	787902		
92677694007	**HAM-AP1-FB-01**	SM 4500-S2D-2011	787903		
92677694008	**HAM-HGWC-13**	SM 4500-S2D-2011	787903		
92677694001	**HAM-HGWC-8**	EPA 300.0 Rev 2.1 1993	787373		
92677694002	**HAM-PT-09**	EPA 300.0 Rev 2.1 1993	787373		
92677694003	**HAM-PT-10**	EPA 300.0 Rev 2.1 1993	787373		
92677694004	**HAM-PT-07**	EPA 300.0 Rev 2.1 1993	787373		
92677694005	**HAM-PT-08**	EPA 300.0 Rev 2.1 1993	787373		
92677694006	**HAM-AP1-FD-01**	EPA 300.0 Rev 2.1 1993	787373		
92677694007	**HAM-AP1-FB-01**	EPA 300.0 Rev 2.1 1993	787373		
92677694008	**HAM-HGWC-13**	EPA 300.0 Rev 2.1 1993	787377		

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Pace ANALYTICAL SERVICES

DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #:

WO# : 92677694

92677694

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace ☐ Other:

Custody Seal Present? ☑ Yes ☐ No **Seals Intact?** ☑ Yes ☐ No

Date/Initials Person Examining Contents: 7-19-23 A

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☐ N/A

Thermometer: ☑ IR Gun ID: 214

Type of Ice: ☐ Wet ☐ Blue ☐ None

Cooler Temp: 6.5 **Correction Factor:** Add/Subtract (°C) -0.0

Cooler Temp Corrected (°C): 6.5

Temp should be above freezing to 6°C

☐ Samples out of temp criteria. Samples on ice, cooling process has begun

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☑ No	☐ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: WG				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

Qualtrax ID: 69614

***Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.**

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

****Bottom half of box is to list number of bottles**

*****Check all unpreserved Nitrates for chlorine**

Project # **WO# : 92677694**

PM: BV Due Date: 07/31/23

CLIENT: 92- GP-HAM

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		2	1			1	1																						
2		2	1			1	1																						
3		2	1			1	1																						
4		2	1			1	1																						
5		2	1			1	1																						
6		2	1			1	1																						
7		2	1			1	1																						
8		2	1			1	1																						
9																													
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

Pace Analytical
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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of

Section A Required Client Information:
Company: GA Power
Address: Atlanta, GA
Email To: SCS Contacts
Phone: Fax:
Requested Due Date/TAT: 10 Day

Section B Required Project Information:
Report To: SCS Contacts
Copy To: Geosyntec Contacts
Task Code: HAM-CCR-CA-20230713
Purchase Order No.:
Project Name: Hammond AP-1
Project Number:

Section C Invoice Information:
Attention: Southern Co.
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager: Bonnie Vang
Pace Profile #: 10839- 16483-20

REGULATORY AGENCY
☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☑ OTHER CCR

Site Location STATE: GA

Section D Required Client Information

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE DATE	COLLECTED COMPOSITE TIME	COLLECTED COMPOSITE DATE	COLLECTED COMPOSITE TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	Full App. III and IV metals	Major Ions (10839-21)	Boron and Cobalt	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
																	Requested Analysis Filtered (Y/N)	N	N				92677694
HAM-HGWC-8	WG	G	7/13/23	1035			21	5	X		X		X			ZnAc		X	X			N	001 pH = 6.65
HAM-PT-09	WG	G	7/13/23	1747			24	5	X		X		X			ZnAc		X	X			N	002 pH = 6.57
HAM-PT-10	WG	G	7/13/23	1415			22	5	X		X		X			ZnAc		X	X			N	003 pH = 7.01
HAM-PT-07	WG	G	7/13/23	1622			27	5	X		X		X			ZnAc		X	X			N	004 pH = 6.76
HAM-PT-08	WG	G	7/13/23	1751			24	5	X		X		X			ZnAc		X	X			N	005 pH = 6.66
HAM-AP1-FD-01	WG	G	7/13/23	0000			-	5	X		X		X			ZnAc		X	X			N	006 -
HAM-AP1-FB-01	WG	G	7/17/23	0840			-	5	X		X		X			ZnAc		X	X			N	007 -
HAM-APHGWC-13	WG	G	7/17/23	1147			23	5	X		X		X			ZnAc		X	X			N	008 pH = 6.07
																						N	

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Code: HAM-CCR-CA-20230713	Alana Neely / Geosyntec	7/17/23	1230	Ryan Williams / Pace	7/17/23	1230	
	Ryan Williams / Pace	7/18/23	1425		7/17	1425	

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Alana Neely / Geosyntec Consultants, In
SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY): 7/17/23

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

August 25, 2023

Kristen Jurinko
Southern Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, GA 30308

RE: Project: Hammond AP-1 (CCR-CA)
Pace Project No.: 92682397

Dear Kristen Jurinko:

Enclosed are the analytical results for sample(s) received by the laboratory on August 11, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Asheville
- Pace Analytical Services - Peachtree Corners, GA

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Angela M. Baioni

Angela Baioni for
Bonnie Vang
bonnie.vang@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Kip Gray, Geosyntec
Christine Hug, Geosyntec Consultants, Inc.
Whitney Law, Geosyntec Consultants
Laura Midkiff, Southern Company
Caroline Nelson, Geosyntec

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CERTIFICATIONS

Project: Hammond AP-1 (CCR-CA)
Pace Project No.: 92682397

Pace Analytical Services Asheville
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Laboratory ID: 99030
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners
110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812
North Carolina Certification #: 381
South Carolina Certification #: 98011001
Virginia Certification #: 460204

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Hammond AP-1 (CCR-CA)
Pace Project No.: 92682397

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92682397001	**HAM-PT-07**	Water	08/09/23 17:59	08/11/23 13:12
92682397002	**HAM-PT-08**	Water	08/09/23 10:50	08/11/23 13:12
92682397003	**HAM-PT-09**	Water	08/09/23 14:42	08/11/23 13:12
92682397004	**HAM-PT-10**	Water	08/09/23 13:05	08/11/23 13:12
92682397005	**HAM-MW-53**	Water	08/09/23 16:40	08/11/23 13:12
92682397006	**HAM-MW-54**	Water	08/09/23 16:51	08/11/23 13:12
92682397007	**HAM-AP1-FD-06**	Water	08/09/23 00:00	08/11/23 13:12
92682397008	**HAM-AP1-FB-06**	Water	08/09/23 16:50	08/11/23 13:12

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SAMPLE ANALYTE COUNT

Project: Hammond AP-1 (CCR-CA)
Pace Project No.: 92682397

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92682397001	**HAM-PT-07**	EPA 6010D	MS	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92682397002	**HAM-PT-08**	EPA 6010D	DRB	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92682397003	**HAM-PT-09**	EPA 6010D	DRB	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92682397004	**HAM-PT-10**	EPA 6010D	MS	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92682397005	**HAM-MW-53**	EPA 6020B	CW1	2
92682397006	**HAM-MW-54**	EPA 6020B	CW1	2
92682397007	**HAM-AP1-FD-06**	EPA 6010D	MS	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3

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SAMPLE ANALYTE COUNT

Project: Hammond AP-1 (CCR-CA)
Pace Project No.: 92682397

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92682397008	**HAM-AP1-FB-06**	EPA 6010D	MS	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3

PASI-A = Pace Analytical Services - Asheville
PASI-GA = Pace Analytical Services - Peachtree Corners, GA

REPORT OF LABORATORY ANALYSIS

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(704)875-9092

SUMMARY OF DETECTION

Project: Hammond AP-1 (CCR-CA)
Pace Project No.: 92682397

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92682397001	**HAM-PT-07**					
EPA 6010D	Iron	27.1	mg/L	0.040	08/18/23 21:03	
EPA 6010D	Manganese	7.6	mg/L	0.040	08/18/23 21:03	
EPA 6010D	Potassium	6.8	mg/L	0.50	08/18/23 21:03	
EPA 6010D	Sodium	7.2	mg/L	1.0	08/18/23 21:03	
EPA 6010D	Calcium	173	mg/L	1.0	08/18/23 21:03	
EPA 6010D	Magnesium	19.4	mg/L	0.050	08/18/23 21:03	
EPA 6020B	Arsenic	0.27	mg/L	0.010	08/22/23 16:32	
EPA 6020B	Barium	0.053	mg/L	0.0050	08/22/23 16:32	
EPA 6020B	Beryllium	0.000095J	mg/L	0.00050	08/22/23 16:32	
EPA 6020B	Boron	0.93	mg/L	0.040	08/23/23 13:17	
EPA 6020B	Cobalt	0.090	mg/L	0.0050	08/23/23 13:17	
EPA 6020B	Lithium	0.069	mg/L	0.030	08/23/23 13:17	
EPA 6020B	Molybdenum	0.012	mg/L	0.010	08/22/23 16:32	
EPA 6020B	Thallium	0.00022J	mg/L	0.0010	08/22/23 16:32	
SM 2540C-2015	Total Dissolved Solids	771	mg/L	25.0	08/15/23 16:56	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	116	mg/L	5.0	08/16/23 15:20	
SM 2320B-2011	Alkalinity, Total as CaCO3	116	mg/L	5.0	08/16/23 15:20	
EPA 300.0 Rev 2.1 1993	Chloride	13.5	mg/L	1.0	08/15/23 21:32	
EPA 300.0 Rev 2.1 1993	Fluoride	0.28	mg/L	0.10	08/15/23 21:32	
EPA 300.0 Rev 2.1 1993	Sulfate	339	mg/L	7.0	08/16/23 08:19	
92682397002	**HAM-PT-08**					
EPA 6010D	Iron	22.0	mg/L	0.040	08/18/23 21:13	
EPA 6010D	Manganese	6.8	mg/L	0.040	08/18/23 21:13	
EPA 6010D	Potassium	6.3	mg/L	0.50	08/18/23 21:13	
EPA 6010D	Sodium	6.8	mg/L	1.0	08/18/23 21:13	
EPA 6010D	Calcium	146	mg/L	1.0	08/18/23 21:13	
EPA 6010D	Magnesium	17.3	mg/L	0.050	08/18/23 21:13	
EPA 6020B	Arsenic	0.32	mg/L	0.010	08/22/23 16:39	
EPA 6020B	Barium	0.050	mg/L	0.0050	08/22/23 16:39	
EPA 6020B	Beryllium	0.000073J	mg/L	0.00050	08/22/23 16:39	
EPA 6020B	Boron	0.99	mg/L	0.040	08/23/23 13:23	
EPA 6020B	Cobalt	0.032	mg/L	0.0050	08/22/23 16:39	
EPA 6020B	Lithium	0.073	mg/L	0.030	08/23/23 13:23	
EPA 6020B	Molybdenum	0.0071J	mg/L	0.010	08/22/23 16:39	
SM 2540C-2015	Total Dissolved Solids	682	mg/L	25.0	08/15/23 16:57	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	118	mg/L	5.0	08/16/23 15:40	
SM 2320B-2011	Alkalinity, Total as CaCO3	118	mg/L	5.0	08/16/23 15:40	
EPA 300.0 Rev 2.1 1993	Chloride	14.5	mg/L	1.0	08/15/23 22:30	
EPA 300.0 Rev 2.1 1993	Fluoride	0.27	mg/L	0.10	08/15/23 22:30	
EPA 300.0 Rev 2.1 1993	Sulfate	290	mg/L	6.0	08/16/23 09:16	M1
92682397003	**HAM-PT-09**					
EPA 6010D	Iron	0.10	mg/L	0.040	08/18/23 21:18	
EPA 6010D	Manganese	0.51	mg/L	0.040	08/18/23 21:18	
EPA 6010D	Potassium	7.7	mg/L	0.50	08/18/23 21:18	
EPA 6010D	Sodium	10.3	mg/L	1.0	08/18/23 21:18	
EPA 6010D	Calcium	136	mg/L	1.0	08/18/23 21:18	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SUMMARY OF DETECTION

Project: Hammond AP-1 (CCR-CA)
Pace Project No.: 92682397

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92682397003	**HAM-PT-09**					
EPA 6010D	Magnesium	18.2	mg/L	0.050	08/18/23 21:18	
EPA 6020B	Barium	0.057	mg/L	0.0050	08/22/23 16:43	
EPA 6020B	Boron	1.6	mg/L	0.40	08/23/23 19:25	
EPA 6020B	Cobalt	0.0028J	mg/L	0.0050	08/22/23 16:43	
EPA 6020B	Lithium	0.0017J	mg/L	0.030	08/22/23 16:43	
EPA 6020B	Molybdenum	0.21	mg/L	0.010	08/22/23 16:43	
SM 2540C-2015	Total Dissolved Solids	594	mg/L	25.0	08/15/23 16:57	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	150	mg/L	5.0	08/16/23 15:50	
SM 2320B-2011	Alkalinity, Total as CaCO3	150	mg/L	5.0	08/16/23 15:50	
EPA 300.0 Rev 2.1 1993	Chloride	47.5	mg/L	1.0	08/15/23 23:14	
EPA 300.0 Rev 2.1 1993	Fluoride	0.26	mg/L	0.10	08/15/23 23:14	
EPA 300.0 Rev 2.1 1993	Sulfate	188	mg/L	4.0	08/16/23 09:59	
92682397004	**HAM-PT-10**					
EPA 6010D	Iron	2.9	mg/L	0.040	08/23/23 21:33	
EPA 6010D	Manganese	3.1	mg/L	0.040	08/23/23 21:33	
EPA 6010D	Potassium	6.7	mg/L	0.50	08/23/23 21:33	M1
EPA 6010D	Sodium	9.4	mg/L	1.0	08/23/23 21:33	M1
EPA 6010D	Calcium	116	mg/L	1.0	08/23/23 21:33	M1
EPA 6010D	Magnesium	16.8	mg/L	0.050	08/23/23 21:33	M1
EPA 6020B	Barium	0.070	mg/L	0.0050	08/22/23 16:51	
EPA 6020B	Boron	2.1	mg/L	0.40	08/23/23 19:48	
EPA 6020B	Cobalt	0.0019J	mg/L	0.0050	08/22/23 16:51	
EPA 6020B	Lithium	0.0012J	mg/L	0.030	08/22/23 16:51	
EPA 6020B	Molybdenum	0.096	mg/L	0.010	08/22/23 16:51	
SM 2540C-2015	Total Dissolved Solids	553	mg/L	25.0	08/15/23 16:57	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	199	mg/L	5.0	08/16/23 16:00	
SM 2320B-2011	Alkalinity, Total as CaCO3	199	mg/L	5.0	08/16/23 16:00	
SM 4500-S2D-2011	Sulfide	0.045J	mg/L	0.10	08/15/23 06:30	
EPA 300.0 Rev 2.1 1993	Chloride	62.5	mg/L	1.0	08/15/23 23:42	
EPA 300.0 Rev 2.1 1993	Fluoride	0.27	mg/L	0.10	08/15/23 23:42	
EPA 300.0 Rev 2.1 1993	Sulfate	123	mg/L	3.0	08/16/23 10:27	
92682397005	**HAM-MW-53**					
EPA 6020B	Boron	1.5	mg/L	0.040	08/22/23 20:17	
EPA 6020B	Molybdenum	0.14	mg/L	0.010	08/22/23 20:17	
92682397006	**HAM-MW-54**					
EPA 6020B	Arsenic	0.085	mg/L	0.010	08/22/23 20:23	
EPA 6020B	Boron	0.45	mg/L	0.040	08/22/23 20:23	
92682397007	**HAM-AP1-FD-06**					
EPA 6010D	Iron	21.3	mg/L	0.040	08/23/23 21:54	
EPA 6010D	Manganese	6.8	mg/L	0.040	08/23/23 21:54	
EPA 6010D	Potassium	5.6	mg/L	0.50	08/23/23 21:54	
EPA 6010D	Sodium	6.3	mg/L	1.0	08/23/23 21:54	
EPA 6010D	Calcium	128	mg/L	1.0	08/23/23 21:54	
EPA 6010D	Magnesium	16.7	mg/L	0.050	08/23/23 21:54	
EPA 6020B	Arsenic	0.36	mg/L	0.010	08/22/23 20:29	

REPORT OF LABORATORY ANALYSIS

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SUMMARY OF DETECTION

Project: Hammond AP-1 (CCR-CA)
Pace Project No.: 92682397

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92682397007	**HAM-AP1-FD-06**					
EPA 6020B	Barium	0.047	mg/L	0.0050	08/22/23 20:29	
EPA 6020B	Beryllium	0.000065J	mg/L	0.00050	08/22/23 20:29	
EPA 6020B	Boron	0.90	mg/L	0.040	08/22/23 20:29	
EPA 6020B	Cobalt	0.034	mg/L	0.0050	08/22/23 20:29	
EPA 6020B	Lithium	0.066	mg/L	0.030	08/22/23 20:29	
EPA 6020B	Molybdenum	0.0068J	mg/L	0.010	08/22/23 20:29	
SM 2540C-2015	Total Dissolved Solids	699	mg/L	25.0	08/15/23 16:57	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	111	mg/L	5.0	08/16/23 16:12	
SM 2320B-2011	Alkalinity, Total as CaCO3	111	mg/L	5.0	08/16/23 16:12	
EPA 300.0 Rev 2.1 1993	Chloride	14.6	mg/L	1.0	08/16/23 03:19	
EPA 300.0 Rev 2.1 1993	Fluoride	0.29	mg/L	0.10	08/16/23 03:19	
EPA 300.0 Rev 2.1 1993	Sulfate	293	mg/L	6.0	08/16/23 12:22	
92682397008	**HAM-AP1-FB-06**					
EPA 6020B	Boron	0.012J	mg/L	0.040	08/22/23 20:35	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Hammond AP-1 (CCR-CA)
Pace Project No.: 92682397

Sample: HAM-PT-07 **Lab ID: 92682397001** Collected: 08/09/23 17:59 Received: 08/11/23 13:12 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**27.1**	mg/L	0.040	0.025	1	08/18/23 10:36	08/18/23 21:03	7439-89-6	
Manganese	**7.6**	mg/L	0.040	0.011	1	08/18/23 10:36	08/18/23 21:03	7439-96-5	
Potassium	**6.8**	mg/L	0.50	0.15	1	08/18/23 10:36	08/18/23 21:03	7440-09-7	
Sodium	**7.2**	mg/L	1.0	0.58	1	08/18/23 10:36	08/18/23 21:03	7440-23-5	
Calcium	**173**	mg/L	1.0	0.12	1	08/18/23 10:36	08/18/23 21:03	7440-70-2	
Magnesium	**19.4**	mg/L	0.050	0.012	1	08/18/23 10:36	08/18/23 21:03	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.0012	1	08/16/23 14:27	08/22/23 16:32	7440-36-0	
Arsenic	**0.27**	mg/L	0.010	0.0037	1	08/16/23 14:27	08/22/23 16:32	7440-38-2	
Barium	**0.053**	mg/L	0.0050	0.00067	1	08/16/23 14:27	08/22/23 16:32	7440-39-3	
Beryllium	**0.000095J**	mg/L	0.00050	0.000054	1	08/16/23 14:27	08/22/23 16:32	7440-41-7	
Boron	**0.93**	mg/L	0.040	0.0086	1	08/16/23 14:27	08/23/23 13:17	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	08/16/23 14:27	08/22/23 16:32	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/16/23 14:27	08/23/23 13:17	7440-47-3	
Cobalt	**0.090**	mg/L	0.0050	0.00039	1	08/16/23 14:27	08/23/23 13:17	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	08/16/23 14:27	08/22/23 16:32	7439-92-1	
Lithium	**0.069**	mg/L	0.030	0.00073	1	08/16/23 14:27	08/23/23 13:17	7439-93-2	
Molybdenum	**0.012**	mg/L	0.010	0.00074	1	08/16/23 14:27	08/22/23 16:32	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	08/16/23 14:27	08/22/23 16:32	7782-49-2	
Thallium	**0.00022J**	mg/L	0.0010	0.00018	1	08/16/23 14:27	08/22/23 16:32	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	08/17/23 12:00	08/17/23 15:18	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**771**	mg/L	25.0	25.0	1		08/15/23 16:56		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**116**	mg/L	5.0	5.0	1		08/16/23 15:20		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		08/16/23 15:20		
Alkalinity, Total as CaCO3	**116**	mg/L	5.0	5.0	1		08/16/23 15:20		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		08/15/23 06:29	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**13.5**	mg/L	1.0	0.60	1		08/15/23 21:32	16887-00-6	

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(704)875-9092

ANALYTICAL RESULTS

Project: Hammond AP-1 (CCR-CA)
Pace Project No.: 92682397

Sample: HAM-PT-07 **Lab ID: 92682397001** Collected: 08/09/23 17:59 Received: 08/11/23 13:12 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.28**	mg/L	0.10	0.050	1		08/15/23 21:32	16984-48-8	
Sulfate	**339**	mg/L	7.0	3.5	7		08/16/23 08:19	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CCR-CA)
Pace Project No.: 92682397

Sample: HAM-PT-08 **Lab ID: 92682397002** Collected: 08/09/23 10:50 Received: 08/11/23 13:12 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**22.0**	mg/L	0.040	0.025	1	08/18/23 10:36	08/18/23 21:13	7439-89-6	
Manganese	**6.8**	mg/L	0.040	0.011	1	08/18/23 10:36	08/18/23 21:13	7439-96-5	
Potassium	**6.3**	mg/L	0.50	0.15	1	08/18/23 10:36	08/18/23 21:13	7440-09-7	
Sodium	**6.8**	mg/L	1.0	0.58	1	08/18/23 10:36	08/18/23 21:13	7440-23-5	
Calcium	**146**	mg/L	1.0	0.12	1	08/18/23 10:36	08/18/23 21:13	7440-70-2	
Magnesium	**17.3**	mg/L	0.050	0.012	1	08/18/23 10:36	08/18/23 21:13	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.0012	1	08/16/23 14:27	08/22/23 16:39	7440-36-0	
Arsenic	**0.32**	mg/L	0.010	0.0037	1	08/16/23 14:27	08/22/23 16:39	7440-38-2	
Barium	**0.050**	mg/L	0.0050	0.00067	1	08/16/23 14:27	08/22/23 16:39	7440-39-3	
Beryllium	**0.000073J**	mg/L	0.00050	0.000054	1	08/16/23 14:27	08/22/23 16:39	7440-41-7	
Boron	**0.99**	mg/L	0.040	0.0086	1	08/16/23 14:27	08/23/23 13:23	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	08/16/23 14:27	08/22/23 16:39	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/16/23 14:27	08/22/23 16:39	7440-47-3	
Cobalt	**0.032**	mg/L	0.0050	0.00039	1	08/16/23 14:27	08/22/23 16:39	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	08/16/23 14:27	08/22/23 16:39	7439-92-1	
Lithium	**0.073**	mg/L	0.030	0.00073	1	08/16/23 14:27	08/23/23 13:23	7439-93-2	
Molybdenum	**0.0071J**	mg/L	0.010	0.00074	1	08/16/23 14:27	08/22/23 16:39	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	08/16/23 14:27	08/22/23 16:39	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	08/16/23 14:27	08/22/23 16:39	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	08/17/23 12:00	08/17/23 15:34	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**682**	mg/L	25.0	25.0	1		08/15/23 16:57		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**118**	mg/L	5.0	5.0	1		08/16/23 15:40		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		08/16/23 15:40		
Alkalinity, Total as CaCO3	**118**	mg/L	5.0	5.0	1		08/16/23 15:40		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		08/15/23 06:29	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**14.5**	mg/L	1.0	0.60	1		08/15/23 22:30	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CCR-CA)
Pace Project No.: 92682397

Sample: HAM-PT-08 **Lab ID: 92682397002** Collected: 08/09/23 10:50 Received: 08/11/23 13:12 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.27**	mg/L	0.10	0.050	1		08/15/23 22:30	16984-48-8	
Sulfate	**290**	mg/L	6.0	3.0	6		08/16/23 09:16	14808-79-8	M1

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CCR-CA)
Pace Project No.: 92682397

Sample: HAM-PT-09 **Lab ID: 92682397003** Collected: 08/09/23 14:42 Received: 08/11/23 13:12 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.10**	mg/L	0.040	0.025	1	08/18/23 10:36	08/18/23 21:18	7439-89-6	
Manganese	**0.51**	mg/L	0.040	0.011	1	08/18/23 10:36	08/18/23 21:18	7439-96-5	
Potassium	**7.7**	mg/L	0.50	0.15	1	08/18/23 10:36	08/18/23 21:18	7440-09-7	
Sodium	**10.3**	mg/L	1.0	0.58	1	08/18/23 10:36	08/18/23 21:18	7440-23-5	
Calcium	**136**	mg/L	1.0	0.12	1	08/18/23 10:36	08/18/23 21:18	7440-70-2	
Magnesium	**18.2**	mg/L	0.050	0.012	1	08/18/23 10:36	08/18/23 21:18	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.0012	1	08/16/23 14:27	08/22/23 16:43	7440-36-0	
Arsenic	ND	mg/L	0.010	0.0037	1	08/16/23 14:27	08/22/23 16:43	7440-38-2	
Barium	**0.057**	mg/L	0.0050	0.00067	1	08/16/23 14:27	08/22/23 16:43	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	08/16/23 14:27	08/22/23 16:43	7440-41-7	
Boron	**1.6**	mg/L	0.40	0.086	10	08/16/23 14:27	08/23/23 19:25	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	08/16/23 14:27	08/22/23 16:43	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/16/23 14:27	08/22/23 16:43	7440-47-3	
Cobalt	**0.0028J**	mg/L	0.0050	0.00039	1	08/16/23 14:27	08/22/23 16:43	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	08/16/23 14:27	08/22/23 16:43	7439-92-1	
Lithium	**0.0017J**	mg/L	0.030	0.00073	1	08/16/23 14:27	08/22/23 16:43	7439-93-2	
Molybdenum	**0.21**	mg/L	0.010	0.00074	1	08/16/23 14:27	08/22/23 16:43	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	08/16/23 14:27	08/22/23 16:43	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	08/16/23 14:27	08/22/23 16:43	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	08/17/23 12:00	08/17/23 15:37	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**594**	mg/L	25.0	25.0	1		08/15/23 16:57		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**150**	mg/L	5.0	5.0	1		08/16/23 15:50		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		08/16/23 15:50		
Alkalinity, Total as CaCO3	**150**	mg/L	5.0	5.0	1		08/16/23 15:50		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		08/15/23 06:30	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**47.5**	mg/L	1.0	0.60	1		08/15/23 23:14	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CCR-CA)
Pace Project No.: 92682397

Sample: HAM-PT-09 **Lab ID: 92682397003** Collected: 08/09/23 14:42 Received: 08/11/23 13:12 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.26**	mg/L	0.10	0.050	1		08/15/23 23:14	16984-48-8	
Sulfate	**188**	mg/L	4.0	2.0	4		08/16/23 09:59	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CCR-CA)
Pace Project No.: 92682397

Sample: HAM-PT-10 **Lab ID: 92682397004** Collected: 08/09/23 13:05 Received: 08/11/23 13:12 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**2.9**	mg/L	0.040	0.025	1	08/23/23 12:06	08/23/23 21:33	7439-89-6	
Manganese	**3.1**	mg/L	0.040	0.011	1	08/23/23 12:06	08/23/23 21:33	7439-96-5	
Potassium	**6.7**	mg/L	0.50	0.15	1	08/23/23 12:06	08/23/23 21:33	7440-09-7	M1
Sodium	**9.4**	mg/L	1.0	0.58	1	08/23/23 12:06	08/23/23 21:33	7440-23-5	M1
Calcium	**116**	mg/L	1.0	0.12	1	08/23/23 12:06	08/23/23 21:33	7440-70-2	M1
Magnesium	**16.8**	mg/L	0.050	0.012	1	08/23/23 12:06	08/23/23 21:33	7439-95-4	M1
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.0012	1	08/16/23 14:27	08/22/23 16:51	7440-36-0	
Arsenic	ND	mg/L	0.010	0.0037	1	08/16/23 14:27	08/22/23 16:51	7440-38-2	
Barium	**0.070**	mg/L	0.0050	0.00067	1	08/16/23 14:27	08/22/23 16:51	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	08/16/23 14:27	08/22/23 16:51	7440-41-7	
Boron	**2.1**	mg/L	0.40	0.086	10	08/16/23 14:27	08/23/23 19:48	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	08/16/23 14:27	08/22/23 16:51	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/16/23 14:27	08/22/23 16:51	7440-47-3	
Cobalt	**0.0019J**	mg/L	0.0050	0.00039	1	08/16/23 14:27	08/22/23 16:51	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	08/16/23 14:27	08/22/23 16:51	7439-92-1	
Lithium	**0.0012J**	mg/L	0.030	0.00073	1	08/16/23 14:27	08/22/23 16:51	7439-93-2	
Molybdenum	**0.096**	mg/L	0.010	0.00074	1	08/16/23 14:27	08/22/23 16:51	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	08/16/23 14:27	08/22/23 16:51	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	08/16/23 14:27	08/22/23 16:51	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	08/17/23 12:00	08/17/23 15:39	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**553**	mg/L	25.0	25.0	1		08/15/23 16:57		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**199**	mg/L	5.0	5.0	1		08/16/23 16:00		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		08/16/23 16:00		
Alkalinity, Total as CaCO3	**199**	mg/L	5.0	5.0	1		08/16/23 16:00		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	**0.045J**	mg/L	0.10	0.022	1		08/15/23 06:30	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**62.5**	mg/L	1.0	0.60	1		08/15/23 23:42	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CCR-CA)
Pace Project No.: 92682397

Sample: HAM-PT-10 **Lab ID: 92682397004** Collected: 08/09/23 13:05 Received: 08/11/23 13:12 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.27**	mg/L	0.10	0.050	1		08/15/23 23:42	16984-48-8	
Sulfate	**123**	mg/L	3.0	1.5	3		08/16/23 10:27	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CCR-CA)
Pace Project No.: 92682397

Sample: HAM-MW-53 **Lab ID: 92682397005** Collected: 08/09/23 16:40 Received: 08/11/23 13:12 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Boron	**1.5**	mg/L	0.040	0.0086	1	08/17/23 10:25	08/22/23 20:17	7440-42-8	
Molybdenum	**0.14**	mg/L	0.010	0.00074	1	08/17/23 10:25	08/22/23 20:17	7439-98-7	

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CCR-CA)
Pace Project No.: 92682397

Sample: HAM-MW-54 **Lab ID: 92682397006** Collected: 08/09/23 16:51 Received: 08/11/23 13:12 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Arsenic	**0.085**	mg/L	0.010	0.0037	1	08/17/23 10:25	08/22/23 20:23	7440-38-2	
Boron	**0.45**	mg/L	0.040	0.0086	1	08/17/23 10:25	08/22/23 20:23	7440-42-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CCR-CA)
Pace Project No.: 92682397

Sample: HAM-AP1-FD-06 **Lab ID: 92682397007** Collected: 08/09/23 00:00 Received: 08/11/23 13:12 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**21.3**	mg/L	0.040	0.025	1	08/23/23 12:06	08/23/23 21:54	7439-89-6	
Manganese	**6.8**	mg/L	0.040	0.011	1	08/23/23 12:06	08/23/23 21:54	7439-96-5	
Potassium	**5.6**	mg/L	0.50	0.15	1	08/23/23 12:06	08/23/23 21:54	7440-09-7	
Sodium	**6.3**	mg/L	1.0	0.58	1	08/23/23 12:06	08/23/23 21:54	7440-23-5	
Calcium	**128**	mg/L	1.0	0.12	1	08/23/23 12:06	08/23/23 21:54	7440-70-2	
Magnesium	**16.7**	mg/L	0.050	0.012	1	08/23/23 12:06	08/23/23 21:54	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.0012	1	08/17/23 10:25	08/22/23 20:29	7440-36-0	
Arsenic	**0.36**	mg/L	0.010	0.0037	1	08/17/23 10:25	08/22/23 20:29	7440-38-2	
Barium	**0.047**	mg/L	0.0050	0.00067	1	08/17/23 10:25	08/22/23 20:29	7440-39-3	
Beryllium	**0.000065J**	mg/L	0.00050	0.000054	1	08/17/23 10:25	08/22/23 20:29	7440-41-7	
Boron	**0.90**	mg/L	0.040	0.0086	1	08/17/23 10:25	08/22/23 20:29	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	08/17/23 10:25	08/22/23 20:29	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/17/23 10:25	08/23/23 17:24	7440-47-3	
Cobalt	**0.034**	mg/L	0.0050	0.00039	1	08/17/23 10:25	08/22/23 20:29	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	08/17/23 10:25	08/22/23 20:29	7439-92-1	
Lithium	**0.066**	mg/L	0.030	0.00073	1	08/17/23 10:25	08/22/23 20:29	7439-93-2	
Molybdenum	**0.0068J**	mg/L	0.010	0.00074	1	08/17/23 10:25	08/22/23 20:29	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	08/17/23 10:25	08/22/23 20:29	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	08/17/23 10:25	08/22/23 20:29	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	08/17/23 12:00	08/17/23 15:42	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**699**	mg/L	25.0	25.0	1		08/15/23 16:57		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**111**	mg/L	5.0	5.0	1		08/16/23 16:12		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		08/16/23 16:12		
Alkalinity, Total as CaCO3	**111**	mg/L	5.0	5.0	1		08/16/23 16:12		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		08/15/23 06:31	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**14.6**	mg/L	1.0	0.60	1		08/16/23 03:19	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CCR-CA)
Pace Project No.: 92682397

Sample: HAM-AP1-FD-06 **Lab ID: 92682397007** Collected: 08/09/23 00:00 Received: 08/11/23 13:12 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.29**	mg/L	0.10	0.050	1		08/16/23 03:19	16984-48-8	
Sulfate	**293**	mg/L	6.0	3.0	6		08/16/23 12:22	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CCR-CA)
Pace Project No.: 92682397

Sample: HAM-AP1-FB-06 **Lab ID: 92682397008** Collected: 08/09/23 16:50 Received: 08/11/23 13:12 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	08/23/23 12:06	08/23/23 21:59	7439-89-6	
Manganese	ND	mg/L	0.040	0.011	1	08/23/23 12:06	08/23/23 21:59	7439-96-5	
Potassium	ND	mg/L	0.50	0.15	1	08/23/23 12:06	08/23/23 21:59	7440-09-7	
Sodium	ND	mg/L	1.0	0.58	1	08/23/23 12:06	08/23/23 21:59	7440-23-5	
Calcium	ND	mg/L	1.0	0.12	1	08/23/23 12:06	08/23/23 21:59	7440-70-2	
Magnesium	ND	mg/L	0.050	0.012	1	08/23/23 12:06	08/23/23 21:59	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.0012	1	08/17/23 10:25	08/22/23 20:35	7440-36-0	
Arsenic	ND	mg/L	0.010	0.0037	1	08/17/23 10:25	08/22/23 20:35	7440-38-2	
Barium	ND	mg/L	0.0050	0.00067	1	08/17/23 10:25	08/22/23 20:35	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	08/17/23 10:25	08/22/23 20:35	7440-41-7	
Boron	**0.012J**	mg/L	0.040	0.0086	1	08/17/23 10:25	08/22/23 20:35	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	08/17/23 10:25	08/22/23 20:35	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/17/23 10:25	08/23/23 17:28	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	08/17/23 10:25	08/22/23 20:35	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	08/17/23 10:25	08/22/23 20:35	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	08/17/23 10:25	08/22/23 20:35	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	08/17/23 10:25	08/22/23 20:35	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	08/17/23 10:25	08/22/23 20:35	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	08/17/23 10:25	08/22/23 20:35	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	08/17/23 12:00	08/17/23 15:44	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		08/15/23 16:57		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		08/16/23 16:22		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		08/16/23 16:22		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		08/16/23 16:22		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		08/15/23 06:32	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		08/16/23 03:33	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CCR-CA)
Pace Project No.: 92682397

Sample: HAM-AP1-FB-06 **Lab ID: 92682397008** Collected: 08/09/23 16:50 Received: 08/11/23 13:12 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	ND	mg/L	0.10	0.050	1		08/16/23 03:33	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		08/16/23 03:33	14808-79-8	

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QUALITY CONTROL DATA

Project: Hammond AP-1 (CCR-CA)
Pace Project No.: 92682397

QC Batch: 793618
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92682397001, 92682397002, 92682397003

METHOD BLANK: 4112489 Matrix: Water
Associated Lab Samples: 92682397001, 92682397002, 92682397003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	08/18/23 19:00	
Iron	mg/L	ND	0.040	0.025	08/18/23 19:00	
Magnesium	mg/L	ND	0.050	0.012	08/18/23 19:00	
Manganese	mg/L	ND	0.040	0.011	08/18/23 19:00	
Potassium	mg/L	ND	0.50	0.15	08/18/23 19:00	
Sodium	mg/L	ND	1.0	0.58	08/18/23 19:00	

LABORATORY CONTROL SAMPLE: 4112490

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.1	108	80-120	
Iron	mg/L	1	1.0	102	80-120	
Magnesium	mg/L	1	1.0	101	80-120	
Manganese	mg/L	1	0.99	99	80-120	
Potassium	mg/L	1	1.1	106	80-120	
Sodium	mg/L	1	1.1	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4112491 4112492

Parameter	Units	92682392001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	8.4	1	1	8.8	9.3	35	92	75-125	6	20	M1
Iron	mg/L	ND	1	1	1.0	1.0	100	100	75-125	0	20	
Magnesium	mg/L	3.4	1	1	4.1	4.3	72	92	75-125	5	20	M1
Manganese	mg/L	ND	1	1	0.98	0.99	97	98	75-125	1	20	
Potassium	mg/L	0.32J	1	1	1.3	1.5	102	113	75-125	8	20	
Sodium	mg/L	9.5	1	1	10	10.5	44	103	75-125	6	20	M1

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QUALITY CONTROL DATA

Project: Hammond AP-1 (CCR-CA)
Pace Project No.: 92682397

QC Batch: 795409
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92682397004, 92682397007, 92682397008

METHOD BLANK: 4121384 Matrix: Water
Associated Lab Samples: 92682397004, 92682397007, 92682397008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	08/23/23 21:12	
Iron	mg/L	ND	0.040	0.025	08/23/23 21:12	
Magnesium	mg/L	ND	0.050	0.012	08/23/23 21:12	
Manganese	mg/L	ND	0.040	0.011	08/23/23 21:12	
Potassium	mg/L	ND	0.50	0.15	08/23/23 21:12	
Sodium	mg/L	ND	1.0	0.58	08/23/23 21:12	

LABORATORY CONTROL SAMPLE: 4121385

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	0.93J	93	80-120	
Iron	mg/L	1	1.0	102	80-120	
Magnesium	mg/L	1	1.1	109	80-120	
Manganese	mg/L	1	1.0	105	80-120	
Potassium	mg/L	1	1.0	100	80-120	
Sodium	mg/L	1	1.1	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4121386 4121387

Parameter	Units	92682397004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	116	1	1	112	116	-370	-33	75-125	3	20	M1
Iron	mg/L	2.9	1	1	3.7	3.8	84	95	75-125	3	20	
Magnesium	mg/L	16.8	1	1	17.0	17.5	22	63	75-125	2	20	M1
Manganese	mg/L	3.1	1	1	4.0	4.0	83	90	75-125	2	20	
Potassium	mg/L	6.7	1	1	7.5	7.7	73	98	75-125	3	20	M1
Sodium	mg/L	9.4	1	1	9.9	10.3	54	92	75-125	4	20	M1

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QUALITY CONTROL DATA

Project: Hammond AP-1 (CCR-CA)
Pace Project No.: 92682397

QC Batch: 794002
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92682397001, 92682397002, 92682397003, 92682397004

METHOD BLANK: 4114214 Matrix: Water
Associated Lab Samples: 92682397001, 92682397002, 92682397003, 92682397004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	0.0043	0.0030	0.0012	08/22/23 15:04	
Arsenic	mg/L	ND	0.010	0.0037	08/22/23 15:04	
Barium	mg/L	ND	0.0050	0.00067	08/22/23 15:04	
Beryllium	mg/L	ND	0.00050	0.000054	08/22/23 15:04	
Boron	mg/L	ND	0.040	0.0086	08/22/23 15:04	
Cadmium	mg/L	ND	0.00050	0.00011	08/22/23 15:04	
Chromium	mg/L	ND	0.0050	0.0011	08/22/23 15:04	
Cobalt	mg/L	ND	0.0050	0.00039	08/22/23 15:04	
Lead	mg/L	ND	0.0010	0.00012	08/22/23 15:04	
Lithium	mg/L	ND	0.030	0.00073	08/22/23 15:04	
Molybdenum	mg/L	ND	0.010	0.00074	08/22/23 15:04	
Selenium	mg/L	ND	0.0050	0.0014	08/22/23 15:04	
Thallium	mg/L	ND	0.0010	0.00018	08/22/23 15:04	

LABORATORY CONTROL SAMPLE: 4114215

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	112	80-120	
Arsenic	mg/L	0.1	0.10	102	80-120	
Barium	mg/L	0.1	0.10	100	80-120	
Beryllium	mg/L	0.1	0.11	110	80-120	
Boron	mg/L	1	1.1	110	80-120	
Cadmium	mg/L	0.1	0.10	102	80-120	
Chromium	mg/L	0.1	0.11	106	80-120	
Cobalt	mg/L	0.1	0.10	104	80-120	
Lead	mg/L	0.1	0.10	105	80-120	
Lithium	mg/L	0.1	0.11	110	80-120	
Molybdenum	mg/L	0.1	0.11	107	80-120	
Selenium	mg/L	0.1	0.11	105	80-120	
Thallium	mg/L	0.1	0.11	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4114216 4114217

Parameter	Units	92682396010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	0.0014J	0.1	0.1	0.11	0.10	107	101	75-125	6	20	
Arsenic	mg/L	0.0040J	0.1	0.1	0.12	0.11	112	104	75-125	7	20	

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QUALITY CONTROL DATA

Project: Hammond AP-1 (CCR-CA)
Pace Project No.: 92682397

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4114216 4114217

Parameter	Units	92682396010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	mg/L	0.042	0.1	0.1	0.16	0.15	118	108	75-125	6	20	
Beryllium	mg/L	0.00071	0.1	0.1	0.090	0.085	89	84	75-125	6	20	
Boron	mg/L	10.1	1	1	10.9	10.7	77	57	75-125	2	20	M1
Cadmium	mg/L	0.00059	0.1	0.1	0.099	0.094	98	94	75-125	5	20	
Chromium	mg/L	ND	0.1	0.1	0.10	0.097	104	97	75-125	7	20	
Cobalt	mg/L	0.21	0.1	0.1	0.31	0.29	102	83	75-125	6	20	
Lead	mg/L	0.00013J	0.1	0.1	0.067	0.064	67	64	75-125	5	20	M1
Lithium	mg/L	0.0024J	0.1	0.1	0.097	0.092	95	89	75-125	6	20	
Molybdenum	mg/L	ND	0.1	0.1	0.11	0.10	109	104	75-125	5	20	
Selenium	mg/L	0.013	0.1	0.1	0.13	0.13	122	113	75-125	8	20	
Thallium	mg/L	0.00021J	0.1	0.1	0.069	0.066	68	65	75-125	5	20	M1

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QUALITY CONTROL DATA

Project: Hammond AP-1 (CCR-CA)
Pace Project No.: 92682397

QC Batch: 794177
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92682397005, 92682397006, 92682397007, 92682397008

METHOD BLANK: 4115107 Matrix: Water
Associated Lab Samples: 92682397005, 92682397006, 92682397007, 92682397008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.0012	08/22/23 18:42	
Arsenic	mg/L	ND	0.010	0.0037	08/22/23 18:42	
Barium	mg/L	ND	0.0050	0.00067	08/22/23 18:42	
Beryllium	mg/L	ND	0.00050	0.000054	08/22/23 18:42	
Boron	mg/L	ND	0.040	0.0086	08/22/23 18:42	
Cadmium	mg/L	ND	0.00050	0.00011	08/22/23 18:42	
Chromium	mg/L	ND	0.0050	0.0011	08/23/23 16:28	
Cobalt	mg/L	ND	0.0050	0.00039	08/22/23 18:42	
Lead	mg/L	ND	0.0010	0.00012	08/22/23 18:42	
Lithium	mg/L	ND	0.030	0.00073	08/22/23 18:42	
Molybdenum	mg/L	ND	0.010	0.00074	08/22/23 18:42	
Selenium	mg/L	ND	0.0050	0.0014	08/22/23 18:42	
Thallium	mg/L	ND	0.0010	0.00018	08/22/23 18:42	

LABORATORY CONTROL SAMPLE: 4115108

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.10	104	80-120	
Arsenic	mg/L	0.1	0.094	94	80-120	
Barium	mg/L	0.1	0.096	96	80-120	
Beryllium	mg/L	0.1	0.093	93	80-120	
Boron	mg/L	1	0.94	94	80-120	
Cadmium	mg/L	0.1	0.096	96	80-120	
Chromium	mg/L	0.1	0.10	100	80-120	
Cobalt	mg/L	0.1	0.090	90	80-120	
Lead	mg/L	0.1	0.094	94	80-120	
Lithium	mg/L	0.1	0.098	98	80-120	
Molybdenum	mg/L	0.1	0.095	95	80-120	
Selenium	mg/L	0.1	0.097	97	80-120	
Thallium	mg/L	0.1	0.093	93	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4115109 4115110

Parameter	Units	92681886001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.10	0.10	104	103	75-125	1	20	
Arsenic	mg/L	ND	0.1	0.1	0.099	0.098	99	98	75-125	1	20	

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QUALITY CONTROL DATA

Project: Hammond AP-1 (CCR-CA)
Pace Project No.: 92682397

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4115109 4115110

Parameter	Units	92681886001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	mg/L	0.039	0.1	0.1	0.14	0.14	103	103	75-125	1	20	
Beryllium	mg/L	0.000067J	0.1	0.1	0.094	0.091	94	91	75-125	4	20	
Boron	mg/L	0.029J	1	1	0.97	0.94	94	91	75-125	3	20	
Cadmium	mg/L	ND	0.1	0.1	0.098	0.099	98	99	75-125	1	20	
Chromium	mg/L	ND	0.1	0.1	0.10	0.10	102	101	75-125	1	20	
Cobalt	mg/L	0.00041J	0.1	0.1	0.092	0.091	91	91	75-125	0	20	
Lead	mg/L	ND	0.1	0.1	0.093	0.092	93	92	75-125	1	20	
Lithium	mg/L	ND	0.1	0.1	0.095	0.094	95	93	75-125	2	20	
Molybdenum	mg/L	ND	0.1	0.1	0.096	0.096	96	95	75-125	0	20	
Selenium	mg/L	ND	0.1	0.1	0.10	0.099	100	99	75-125	1	20	
Thallium	mg/L	ND	0.1	0.1	0.092	0.092	92	92	75-125	0	20	

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QUALITY CONTROL DATA

Project: Hammond AP-1 (CCR-CA)
Pace Project No.: 92682397

QC Batch: 794154 | Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A | Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92682397001, 92682397002, 92682397003, 92682397004, 92682397007, 92682397008

METHOD BLANK: 4115033 Matrix: Water
Associated Lab Samples: 92682397001, 92682397002, 92682397003, 92682397004, 92682397007, 92682397008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	08/17/23 15:13	

LABORATORY CONTROL SAMPLE: 4115034

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0023	93	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4115035 4115036

Parameter	Units	92682397001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0024	0.0024	94	94	75-125	0	20	

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QUALITY CONTROL DATA

Project: Hammond AP-1 (CCR-CA)
Pace Project No.: 92682397

QC Batch: 793700 | Analysis Method: SM 2540C-2015
QC Batch Method: SM 2540C-2015 | Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92682397001, 92682397002, 92682397003, 92682397004, 92682397007, 92682397008

METHOD BLANK: 4112841 Matrix: Water
Associated Lab Samples: 92682397001, 92682397002, 92682397003, 92682397004, 92682397007, 92682397008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	08/15/23 16:52	

LABORATORY CONTROL SAMPLE: 4112842

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	446	112	80-120	

SAMPLE DUPLICATE: 4112843

Parameter	Units	92682396001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1890	1910	1	10	

SAMPLE DUPLICATE: 4112844

Parameter	Units	92682397001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	771	760	1	10	

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QUALITY CONTROL DATA

Project: Hammond AP-1 (CCR-CA)
Pace Project No.: 92682397

QC Batch: 793896 | Analysis Method: SM 2320B-2011
QC Batch Method: SM 2320B-2011 | Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92682397001, 92682397002, 92682397003, 92682397004, 92682397007, 92682397008

METHOD BLANK: 4113632 Matrix: Water
Associated Lab Samples: 92682397001, 92682397002, 92682397003, 92682397004, 92682397007, 92682397008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	08/16/23 13:58	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	08/16/23 13:58	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	08/16/23 13:58	

LABORATORY CONTROL SAMPLE: 4113633

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	52.1	104	80-120	

LABORATORY CONTROL SAMPLE: 4113634

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	55.0	110	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4113635 4113636

Parameter	Units	92682175001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	464	50	50	487	487	47	46	80-120	0	25	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4113637 4113638

Parameter	Units	92682175002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	12.5	50	50	65.7	65.4	106	106	80-120	0	25	

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QUALITY CONTROL DATA

Project: Hammond AP-1 (CCR-CA)
Pace Project No.: 92682397

QC Batch: 793500 | Analysis Method: SM 4500-S2D-2011
QC Batch Method: SM 4500-S2D-2011 | Analysis Description: 4500S2D Sulfide Water
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92682397001, 92682397002, 92682397003, 92682397004, 92682397007, 92682397008

METHOD BLANK: 4111958 Matrix: Water
Associated Lab Samples: 92682397001, 92682397002, 92682397003, 92682397004, 92682397007, 92682397008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	0.022	08/15/23 06:24	

LABORATORY CONTROL SAMPLE: 4111959

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	0.50	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4111960 4111961

Parameter	Units	92682396005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.50	0.45	99	89	80-120	11	10	R1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4111962 4111963

Parameter	Units	92682397007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.53	0.55	104	108	80-120	4	10	

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QUALITY CONTROL DATA

Project: Hammond AP-1 (CCR-CA)
Pace Project No.: 92682397

QC Batch: 793550
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92682397001

METHOD BLANK: 4112126 Matrix: Water
Associated Lab Samples: 92682397001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	08/15/23 12:46	
Fluoride	mg/L	ND	0.10	0.050	08/15/23 12:46	
Sulfate	mg/L	ND	1.0	0.50	08/15/23 12:46	

LABORATORY CONTROL SAMPLE: 4112127

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	48.4	97	90-110	
Fluoride	mg/L	2.5	2.5	98	90-110	
Sulfate	mg/L	50	47.4	95	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4112128 4112129

Parameter	Units	92682198001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	ND	50	50	48.0	48.3	95	96	90-110	1	10	
Fluoride	mg/L	ND	2.5	2.5	2.4	2.4	94	95	90-110	1	10	
Sulfate	mg/L	ND	50	50	47.3	47.6	93	94	90-110	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4112130 4112131

Parameter	Units	92682396003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	141	50	50	179	180	77	78	90-110	0	10	M1
Fluoride	mg/L	0.56	2.5	2.5	3.1	3.2	102	104	90-110	2	10	
Sulfate	mg/L	762	50	50	787	789	50	53	90-110	0	10	M1

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QUALITY CONTROL DATA

Project: Hammond AP-1 (CCR-CA)
Pace Project No.: 92682397

QC Batch: 793553
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92682397002, 92682397003, 92682397004, 92682397007, 92682397008

METHOD BLANK: 4112135 Matrix: Water
Associated Lab Samples: 92682397002, 92682397003, 92682397004, 92682397007, 92682397008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	08/15/23 22:01	
Fluoride	mg/L	ND	0.10	0.050	08/15/23 22:01	
Sulfate	mg/L	ND	1.0	0.50	08/15/23 22:01	

LABORATORY CONTROL SAMPLE: 4112136

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.5	99	90-110	
Fluoride	mg/L	2.5	2.5	100	90-110	
Sulfate	mg/L	50	48.3	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4112137 4112138

Parameter	Units	92682397002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	14.5	50	50	62.4	63.0	96	97	90-110	1	10	
Fluoride	mg/L	0.27	2.5	2.5	2.6	2.6	92	93	90-110	2	10	
Sulfate	mg/L	290	50	50	327	328	73	75	90-110	0	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4112139 4112140

Parameter	Units	92682398009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	13.6	50	50	61.8	62.0	96	97	90-110	0	10	
Fluoride	mg/L	1.5	2.5	2.5	3.8	3.9	95	96	90-110	1	10	
Sulfate	mg/L	0.62J	50	50	47.3	47.5	93	94	90-110	1	10	

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QUALIFIERS

Project: Hammond AP-1 (CCR-CA)
Pace Project No.: 92682397

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

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TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
R1	RPD value was outside control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Hammond AP-1 (CCR-CA)
Pace Project No.: 92682397

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92682397001	**HAM-PT-07**	EPA 3010A	793618	EPA 6010D	794582
92682397002	**HAM-PT-08**	EPA 3010A	793618	EPA 6010D	794582
92682397003	**HAM-PT-09**	EPA 3010A	793618	EPA 6010D	794582
92682397004	**HAM-PT-10**	EPA 3010A	795409	EPA 6010D	795455
92682397007	**HAM-AP1-FD-06**	EPA 3010A	795409	EPA 6010D	795455
92682397008	**HAM-AP1-FB-06**	EPA 3010A	795409	EPA 6010D	795455
92682397001	**HAM-PT-07**	EPA 3005A	794002	EPA 6020B	794064
92682397002	**HAM-PT-08**	EPA 3005A	794002	EPA 6020B	794064
92682397003	**HAM-PT-09**	EPA 3005A	794002	EPA 6020B	794064
92682397004	**HAM-PT-10**	EPA 3005A	794002	EPA 6020B	794064
92682397005	**HAM-MW-53**	EPA 3005A	794177	EPA 6020B	794304
92682397006	**HAM-MW-54**	EPA 3005A	794177	EPA 6020B	794304
92682397007	**HAM-AP1-FD-06**	EPA 3005A	794177	EPA 6020B	794304
92682397008	**HAM-AP1-FB-06**	EPA 3005A	794177	EPA 6020B	794304
92682397001	**HAM-PT-07**	EPA 7470A	794154	EPA 7470A	794256
92682397002	**HAM-PT-08**	EPA 7470A	794154	EPA 7470A	794256
92682397003	**HAM-PT-09**	EPA 7470A	794154	EPA 7470A	794256
92682397004	**HAM-PT-10**	EPA 7470A	794154	EPA 7470A	794256
92682397007	**HAM-AP1-FD-06**	EPA 7470A	794154	EPA 7470A	794256
92682397008	**HAM-AP1-FB-06**	EPA 7470A	794154	EPA 7470A	794256
92682397001	**HAM-PT-07**	SM 2540C-2015	793700		
92682397002	**HAM-PT-08**	SM 2540C-2015	793700		
92682397003	**HAM-PT-09**	SM 2540C-2015	793700		
92682397004	**HAM-PT-10**	SM 2540C-2015	793700		
92682397007	**HAM-AP1-FD-06**	SM 2540C-2015	793700		
92682397008	**HAM-AP1-FB-06**	SM 2540C-2015	793700		
92682397001	**HAM-PT-07**	SM 2320B-2011	793896		
92682397002	**HAM-PT-08**	SM 2320B-2011	793896		
92682397003	**HAM-PT-09**	SM 2320B-2011	793896		
92682397004	**HAM-PT-10**	SM 2320B-2011	793896		
92682397007	**HAM-AP1-FD-06**	SM 2320B-2011	793896		
92682397008	**HAM-AP1-FB-06**	SM 2320B-2011	793896		
92682397001	**HAM-PT-07**	SM 4500-S2D-2011	793500		
92682397002	**HAM-PT-08**	SM 4500-S2D-2011	793500		
92682397003	**HAM-PT-09**	SM 4500-S2D-2011	793500		
92682397004	**HAM-PT-10**	SM 4500-S2D-2011	793500		
92682397007	**HAM-AP1-FD-06**	SM 4500-S2D-2011	793500		
92682397008	**HAM-AP1-FB-06**	SM 4500-S2D-2011	793500		
92682397001	**HAM-PT-07**	EPA 300.0 Rev 2.1 1993	793550		
92682397002	**HAM-PT-08**	EPA 300.0 Rev 2.1 1993	793553		
92682397003	**HAM-PT-09**	EPA 300.0 Rev 2.1 1993	793553		
92682397004	**HAM-PT-10**	EPA 300.0 Rev 2.1 1993	793553		
92682397007	**HAM-AP1-FD-06**	EPA 300.0 Rev 2.1 1993	793553		
92682397008	**HAM-AP1-FB-06**	EPA 300.0 Rev 2.1 1993	793553		

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Pace ANALYTICAL SERVICES

DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville ☐ **Eden** ☐ **Greenwood** ☐ **Huntersville** ☐ **Raleigh** ☐ **Mechanicsville** ☐ **Atlanta** ☑ **Kernersville** ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project # WO#: 92682397

92682397

Courier: ☐ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Pace ☐ Other:

Custody Seal Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☐ No

Date/Initials Person Examining Contents: 8/11/23 TS

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 230

Cooler Temp: 3.1 **Correction Factor:** Add/Subtract (°C) 0.0 **Type of Ice:** ☑ Wet ☐ Blue ☐ None

Cooler Temp Corrected (°C): 3.1

Temp should be above freezing to 6°C

☐ Samples out of temp criteria. Samples on ice, cooling process has begun

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☑ Yes	☐ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☐ Yes	☑ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: W				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date: 8/14/23

Project Manager SRF Review: Date: 8/14/23

Qualtrax ID: 69614

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Project #

WO#: 92682397

PM: BV Due Date: 08/28/23

CLIENT: 92-GR-HAM

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG9A-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		2	1			1	1																						
2		2	1			1	1																						
3		2	1			1	1																						
4		2	1			1	1																						
5						1																							
6						1																							
7		2	1			1	1																						
8		2	1			1	1																						
9																													
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

Section A Required Client Information:

Company:	GA Power
Address:	Atlanta, GA
Email To:	SCS Contacts
Phone:	Fax:
Requested Due Date/TAT:	10 Day

Section B Required Project Information:

Report To:	SCS Contacts
Copy To:	Geosyntec Contacts
Purchase Order No.:	
Project Name:	Hammond AP-1
Project Number:	

Section C Invoice Information:

Attention:	Southern Co.
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	Bonnie Vang
Pace Profile #:	10839

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☑ OTHER CCR

Site Location STATE: GA

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / , -) Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE DATE	COLLECTED COMPOSITE TIME	COLLECTED COMPOSITE DATE	COLLECTED COMPOSITE TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	Chloride, Fluoride, Sulfate	Full App. III and IV metals	Major Ions (Profile 10839-2)	TDS	Boron and Molybdenum	Boron and Arsenic	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 92682397
																		Requested Analysis Filtered (Y/N)	N	N	N	N	N	N		
1	HAM-PT-07	WG	G	8/9/2023	1759			21	5	3		1					1		X	X	X	X			N	001
2	HAM-PT-08	WG	G	8/9/2023	1050			21	5	3		1					1		X	X	X	X			N	002
3	HAM-PT-09	WG	G	8/9/2023	1442			22	5	3		1					1		X	X	X	X			N	003
4	HAM-PT-10	WG	G	8/9/2023	1305			22	5	3		1					1		X	X	X	X			N	004
5	HAM-MW-53	WG	G	8/9/2023	1640			20	1			1											X		N	005
6	HAM-MW-54	WG	G	8/9/2023	1651			23	1			1												X	N	006
7	HAM-AP1-FD-06	WG	G	8/9/2023	0000			22	5	3		1					1		X	X	X	X			N	007
8	HAM-AP1-FB-06	WQ	G	8/9/2023	1650	TK 8/9/2023		22	5	3		1					1		X	X	X	X			N	008
9																										Last Sample
10																										
11																										
12						TK 8/9/2023																				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Task Code: HAM-CCR-CA-20230809	Thomas Kessler / Geosyntec	8/11/2023	1312	Ryan Williams / Pace	8/11/2023	1312	
	Ryan Williams / Pace	8/11/2023	1535		8/11/23	1535	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Thomas Kessler, Elizabeth McDonnell / Geosyntec Consultants, Inc.

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 08/09/2023

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

May 10, 2024

Kristen Jurinko
Southern Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, GA 30308

RE: Project: Hammond AP-1
Pace Project No.: 92728841

Dear Kristen Jurinko:

Enclosed are the analytical results for sample(s) received by the laboratory on May 03, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Asheville
- Pace Analytical Services - Peachtree Corners, GA

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tyriek Hooks for
Bonnie Vang
bonnie.vang@pacelabs.com
704-977-0968
Project Manager

Enclosures

cc: Kip Gray, Geosyntec
Christine Hug, Geosyntec Consultants, Inc.
Thomas Kessler, Geosyntec Consultants
Whitney Law, Geosyntec Consultants
Laura Midkiff, Southern Company
Caroline Nelson, Geosyntec Consultants, Inc
Anthony Szwast, Geosyntec Consultants

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: Hammond AP-1
Pace Project No.: 92728841

Pace Analytical Services Asheville
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Laboratory ID: 99030
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners
110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812
North Carolina Certification #: 381
South Carolina Certification #: 98011001
Virginia Certification #: 460204

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SAMPLE SUMMARY

Project: Hammond AP-1
Pace Project No.: 92728841

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92728841001	**HAM-INW-04**	Water	05/02/24 14:18	05/03/24 13:20
92728841002	**HAM-INW-05**	Water	05/02/24 09:55	05/03/24 13:20
92728841003	**HAM-PT-08**	Water	05/02/24 12:35	05/03/24 13:20
92728841004	**HAM-PT-14**	Water	05/02/24 12:06	05/03/24 13:20
92728841005	**HAM-PT-15**	Water	05/02/24 15:40	05/03/24 13:20
92728841006	**HAM-AP1-EB-01**	Water	05/02/24 15:20	05/03/24 13:20
92728841007	**HAM-AP1-FB-01**	Water	05/02/24 15:15	05/03/24 13:20
92728841008	**HAM-AP1-FD-01**	Water	05/02/24 00:00	05/03/24 13:20

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SAMPLE ANALYTE COUNT

Project: Hammond AP-1
Pace Project No.: 92728841

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92728841001	**HAM-INW-04**	EPA 6010D	AJM	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2320B-2011	YEG	3
		SM 2540C-2015	CMW1	1
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92728841002	**HAM-INW-05**	EPA 6010D	AJM	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2320B-2011	YEG	3
		SM 2540C-2015	CMW1	1
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92728841003	**HAM-PT-08**	EPA 6010D	AJM	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2320B-2011	YEG	3
		SM 2540C-2015	CMW1	1
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92728841004	**HAM-PT-14**	EPA 6010D	AJM	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2320B-2011	YEG	3
		SM 2540C-2015	CMW1	1
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92728841005	**HAM-PT-15**	EPA 6010D	AJM, DRB	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2320B-2011	YEG	3
		SM 2540C-2015	CMW1	1
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92728841006	**HAM-AP1-EB-01**	EPA 6010D	AJM	6
		EPA 6020B	CW1	13

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SAMPLE ANALYTE COUNT

Project: Hammond AP-1
Pace Project No.: 92728841

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 7470A	VB	1
		SM 2320B-2011	YEG	3
		SM 2540C-2015	CMW1	1
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92728841007	**HAM-AP1-FB-01**	EPA 6010D	AJM	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2320B-2011	YEG	3
		SM 2540C-2015	CMW1	1
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92728841008	**HAM-AP1-FD-01**	EPA 6010D	AJM	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2320B-2011	YEG	3
		SM 2540C-2015	CMW1	1
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3

PASI-A = Pace Analytical Services - Asheville
PASI-GA = Pace Analytical Services - Peachtree Corners, GA

REPORT OF LABORATORY ANALYSIS

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SUMMARY OF DETECTION

Project: Hammond AP-1
Pace Project No.: 92728841

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92728841001	**HAM-INW-04**					
EPA 6010D	Iron	10.3	mg/L	0.040	05/06/24 22:08	
EPA 6010D	Manganese	4.2	mg/L	0.040	05/06/24 22:08	
EPA 6010D	Potassium	5.4	mg/L	0.50	05/06/24 22:08	
EPA 6010D	Sodium	6.9	mg/L	1.0	05/06/24 22:08	
EPA 6010D	Calcium	110	mg/L	1.0	05/06/24 22:08	
EPA 6010D	Magnesium	13.5	mg/L	0.050	05/06/24 22:08	
EPA 6020B	Arsenic	0.21	mg/L	0.0050	05/06/24 14:29	
EPA 6020B	Barium	0.042	mg/L	0.0050	05/06/24 14:29	
EPA 6020B	Boron	0.61	mg/L	0.040	05/06/24 14:29	
EPA 6020B	Cobalt	0.029	mg/L	0.0050	05/06/24 14:29	
EPA 6020B	Lithium	0.048	mg/L	0.030	05/06/24 14:29	
EPA 6020B	Molybdenum	0.016	mg/L	0.010	05/06/24 14:29	
EPA 6020B	Selenium	0.0016J	mg/L	0.0050	05/06/24 14:29	B
EPA 6020B	Thallium	0.00048J	mg/L	0.0010	05/06/24 14:29	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	128	mg/L	5.0	05/07/24 16:02	
SM 2320B-2011	Alkalinity, Total as CaCO3	128	mg/L	5.0	05/07/24 16:02	
SM 2540C-2015	Total Dissolved Solids	482	mg/L	25.0	05/07/24 15:51	
EPA 300.0 Rev 2.1 1993	Chloride	8.0	mg/L	1.0	05/07/24 13:54	
EPA 300.0 Rev 2.1 1993	Fluoride	0.47	mg/L	0.10	05/07/24 13:54	M1
EPA 300.0 Rev 2.1 1993	Sulfate	180	mg/L	4.0	05/08/24 00:06	M1
92728841002	**HAM-INW-05**					
EPA 6010D	Iron	17.3	mg/L	0.040	05/06/24 22:13	M1
EPA 6010D	Manganese	3.6	mg/L	0.040	05/06/24 22:13	
EPA 6010D	Potassium	5.2	mg/L	0.50	05/06/24 22:13	M1
EPA 6010D	Sodium	6.5	mg/L	1.0	05/06/24 22:13	M1
EPA 6010D	Calcium	108	mg/L	1.0	05/06/24 22:13	M1
EPA 6010D	Magnesium	12.6	mg/L	0.050	05/06/24 22:13	M1
EPA 6020B	Antimony	0.00098J	mg/L	0.0030	05/06/24 14:44	
EPA 6020B	Arsenic	0.24	mg/L	0.0050	05/06/24 14:44	
EPA 6020B	Barium	0.032	mg/L	0.0050	05/06/24 14:44	
EPA 6020B	Beryllium	0.000099J	mg/L	0.00050	05/06/24 14:44	
EPA 6020B	Boron	0.54	mg/L	0.040	05/06/24 14:44	
EPA 6020B	Cobalt	0.028	mg/L	0.0050	05/06/24 14:44	
EPA 6020B	Lithium	0.060	mg/L	0.030	05/06/24 14:44	
EPA 6020B	Molybdenum	0.0094J	mg/L	0.010	05/06/24 14:44	
EPA 6020B	Selenium	0.0015J	mg/L	0.0050	05/06/24 14:44	B
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	109	mg/L	5.0	05/07/24 16:12	
SM 2320B-2011	Alkalinity, Total as CaCO3	109	mg/L	5.0	05/07/24 16:12	
SM 2540C-2015	Total Dissolved Solids	526	mg/L	25.0	05/07/24 15:51	
EPA 300.0 Rev 2.1 1993	Chloride	6.0	mg/L	1.0	05/07/24 14:38	
EPA 300.0 Rev 2.1 1993	Fluoride	0.59	mg/L	0.10	05/07/24 14:38	
EPA 300.0 Rev 2.1 1993	Sulfate	206	mg/L	5.0	05/08/24 01:37	
92728841003	**HAM-PT-08**					
EPA 6010D	Iron	8.5	mg/L	0.040	05/06/24 22:32	
EPA 6010D	Manganese	3.9	mg/L	0.040	05/06/24 22:32	
EPA 6010D	Potassium	5.3	mg/L	0.50	05/06/24 22:32	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
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(704)875-9092

SUMMARY OF DETECTION

Project: Hammond AP-1
Pace Project No.: 92728841

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92728841003	**HAM-PT-08**					
EPA 6010D	Sodium	7.2	mg/L	1.0	05/06/24 22:32	
EPA 6010D	Calcium	98.2	mg/L	1.0	05/06/24 22:32	
EPA 6010D	Magnesium	12.0	mg/L	0.050	05/06/24 22:32	
EPA 6020B	Arsenic	0.26	mg/L	0.0050	05/06/24 14:48	
EPA 6020B	Barium	0.045	mg/L	0.0050	05/06/24 14:48	
EPA 6020B	Boron	0.83	mg/L	0.040	05/06/24 14:48	
EPA 6020B	Cobalt	0.054	mg/L	0.0050	05/06/24 14:48	
EPA 6020B	Lithium	0.016J	mg/L	0.030	05/06/24 14:48	
EPA 6020B	Molybdenum	0.017	mg/L	0.010	05/06/24 14:48	
EPA 6020B	Selenium	0.0012J	mg/L	0.0050	05/06/24 14:48	B
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	108	mg/L	5.0	05/07/24 16:29	
SM 2320B-2011	Alkalinity, Total as CaCO3	108	mg/L	5.0	05/07/24 16:29	
SM 2540C-2015	Total Dissolved Solids	477	mg/L	25.0	05/07/24 15:58	
EPA 300.0 Rev 2.1 1993	Chloride	15.4	mg/L	1.0	05/07/24 14:53	
EPA 300.0 Rev 2.1 1993	Fluoride	0.36	mg/L	0.10	05/07/24 14:53	
EPA 300.0 Rev 2.1 1993	Sulfate	176	mg/L	4.0	05/08/24 01:51	
92728841004	**HAM-PT-14**					
EPA 6010D	Iron	13.7	mg/L	0.040	05/06/24 22:37	
EPA 6010D	Manganese	3.1	mg/L	0.040	05/06/24 22:37	
EPA 6010D	Potassium	5.4	mg/L	0.50	05/06/24 22:37	
EPA 6010D	Sodium	6.7	mg/L	1.0	05/06/24 22:37	
EPA 6010D	Calcium	101	mg/L	1.0	05/06/24 22:37	
EPA 6010D	Magnesium	12.7	mg/L	0.050	05/06/24 22:37	
EPA 6020B	Arsenic	0.22	mg/L	0.0050	05/06/24 14:51	
EPA 6020B	Barium	0.037	mg/L	0.0050	05/06/24 14:51	
EPA 6020B	Boron	0.51	mg/L	0.040	05/06/24 14:51	
EPA 6020B	Cobalt	0.021	mg/L	0.0050	05/06/24 14:51	
EPA 6020B	Lithium	0.055	mg/L	0.030	05/06/24 14:51	
EPA 6020B	Molybdenum	0.011	mg/L	0.010	05/06/24 14:51	
EPA 6020B	Selenium	0.0014J	mg/L	0.0050	05/06/24 14:51	B
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	121	mg/L	5.0	05/07/24 16:38	
SM 2320B-2011	Alkalinity, Total as CaCO3	121	mg/L	5.0	05/07/24 16:38	
SM 2540C-2015	Total Dissolved Solids	462	mg/L	25.0	05/07/24 15:58	
EPA 300.0 Rev 2.1 1993	Chloride	7.9	mg/L	1.0	05/07/24 15:08	
EPA 300.0 Rev 2.1 1993	Fluoride	0.43	mg/L	0.10	05/07/24 15:08	
EPA 300.0 Rev 2.1 1993	Sulfate	169	mg/L	4.0	05/08/24 02:06	
92728841005	**HAM-PT-15**					
EPA 6010D	Manganese	5.6	mg/L	0.040	05/07/24 15:31	
EPA 6010D	Iron	9.7	mg/L	0.040	05/06/24 22:41	
EPA 6010D	Potassium	5.2	mg/L	0.50	05/06/24 22:41	
EPA 6010D	Sodium	6.8	mg/L	1.0	05/06/24 22:41	
EPA 6010D	Calcium	141	mg/L	1.0	05/06/24 22:41	
EPA 6010D	Magnesium	15.6	mg/L	0.050	05/06/24 22:41	
EPA 6020B	Arsenic	0.41	mg/L	0.0050	05/06/24 14:55	
EPA 6020B	Barium	0.044	mg/L	0.0050	05/06/24 14:55	
EPA 6020B	Boron	0.75	mg/L	0.040	05/06/24 14:55	

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SUMMARY OF DETECTION

Project: Hammond AP-1
Pace Project No.: 92728841

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92728841005	**HAM-PT-15**					
EPA 6020B	Cobalt	0.052	mg/L	0.0050	05/06/24 14:55	
EPA 6020B	Lithium	0.051	mg/L	0.030	05/06/24 14:55	
EPA 6020B	Molybdenum	0.017	mg/L	0.010	05/06/24 14:55	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	124	mg/L	5.0	05/07/24 16:47	
SM 2320B-2011	Alkalinity, Total as CaCO3	124	mg/L	5.0	05/07/24 16:47	
SM 2540C-2015	Total Dissolved Solids	638	mg/L	25.0	05/07/24 15:58	
EPA 300.0 Rev 2.1 1993	Chloride	11.8	mg/L	1.0	05/07/24 15:53	
EPA 300.0 Rev 2.1 1993	Fluoride	0.55	mg/L	0.10	05/07/24 15:53	
EPA 300.0 Rev 2.1 1993	Sulfate	278	mg/L	7.0	05/08/24 02:21	
92728841008	**HAM-AP1-FD-01**					
EPA 6010D	Iron	13.6	mg/L	0.040	05/06/24 23:05	
EPA 6010D	Manganese	3.1	mg/L	0.040	05/06/24 23:05	
EPA 6010D	Potassium	5.4	mg/L	0.50	05/06/24 23:05	
EPA 6010D	Sodium	6.7	mg/L	1.0	05/06/24 23:05	
EPA 6010D	Calcium	99.4	mg/L	1.0	05/06/24 23:05	
EPA 6010D	Magnesium	12.6	mg/L	0.050	05/06/24 23:05	
EPA 6020B	Arsenic	0.20	mg/L	0.0050	05/06/24 15:15	
EPA 6020B	Barium	0.036	mg/L	0.0050	05/06/24 15:15	
EPA 6020B	Boron	0.47	mg/L	0.040	05/06/24 15:15	
EPA 6020B	Cobalt	0.020	mg/L	0.0050	05/06/24 15:15	
EPA 6020B	Lithium	0.052	mg/L	0.030	05/06/24 15:15	
EPA 6020B	Molybdenum	0.010	mg/L	0.010	05/06/24 15:15	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	122	mg/L	5.0	05/07/24 17:38	
SM 2320B-2011	Alkalinity, Total as CaCO3	122	mg/L	5.0	05/07/24 17:38	
SM 2540C-2015	Total Dissolved Solids	442	mg/L	25.0	05/07/24 15:59	
EPA 300.0 Rev 2.1 1993	Chloride	7.9	mg/L	1.0	05/07/24 16:08	
EPA 300.0 Rev 2.1 1993	Fluoride	0.42	mg/L	0.10	05/07/24 16:08	
EPA 300.0 Rev 2.1 1993	Sulfate	167	mg/L	4.0	05/08/24 02:35	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92728841

Sample: HAM-INW-04 **Lab ID: 92728841001** Collected: 05/02/24 14:18 Received: 05/03/24 13:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**10.3**	mg/L	0.040	0.025	1	05/04/24 10:00	05/06/24 22:08	7439-89-6	
Manganese	**4.2**	mg/L	0.040	0.011	1	05/04/24 10:00	05/06/24 22:08	7439-96-5	
Potassium	**5.4**	mg/L	0.50	0.15	1	05/04/24 10:00	05/06/24 22:08	7440-09-7	
Sodium	**6.9**	mg/L	1.0	0.58	1	05/04/24 10:00	05/06/24 22:08	7440-23-5	
Calcium	**110**	mg/L	1.0	0.12	1	05/04/24 10:00	05/06/24 22:08	7440-70-2	
Magnesium	**13.5**	mg/L	0.050	0.012	1	05/04/24 10:00	05/06/24 22:08	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	05/04/24 09:50	05/06/24 14:29	7440-36-0	
Arsenic	**0.21**	mg/L	0.0050	0.00084	1	05/04/24 09:50	05/06/24 14:29	7440-38-2	
Barium	**0.042**	mg/L	0.0050	0.00047	1	05/04/24 09:50	05/06/24 14:29	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	05/04/24 09:50	05/06/24 14:29	7440-41-7	
Boron	**0.61**	mg/L	0.040	0.012	1	05/04/24 09:50	05/06/24 14:29	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	05/04/24 09:50	05/06/24 14:29	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	05/04/24 09:50	05/06/24 14:29	7440-47-3	
Cobalt	**0.029**	mg/L	0.0050	0.00032	1	05/04/24 09:50	05/06/24 14:29	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	05/04/24 09:50	05/06/24 14:29	7439-92-1	
Lithium	**0.048**	mg/L	0.030	0.0016	1	05/04/24 09:50	05/06/24 14:29	7439-93-2	
Molybdenum	**0.016**	mg/L	0.010	0.00062	1	05/04/24 09:50	05/06/24 14:29	7439-98-7	
Selenium	**0.0016J**	mg/L	0.0050	0.00096	1	05/04/24 09:50	05/06/24 14:29	7782-49-2	B
Thallium	**0.00048J**	mg/L	0.0010	0.00038	1	05/04/24 09:50	05/06/24 14:29	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	05/06/24 12:30	05/06/24 16:54	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**128**	mg/L	5.0	5.0	1		05/07/24 16:02		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		05/07/24 16:02		
Alkalinity, Total as CaCO3	**128**	mg/L	5.0	5.0	1		05/07/24 16:02		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**482**	mg/L	25.0	25.0	1		05/07/24 15:51		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		05/09/24 04:42	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**8.0**	mg/L	1.0	0.60	1		05/07/24 13:54	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92728841

Sample: HAM-INW-04 **Lab ID: 92728841001** Collected: 05/02/24 14:18 Received: 05/03/24 13:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.47**	mg/L	0.10	0.050	1		05/07/24 13:54	16984-48-8	M1
Sulfate	**180**	mg/L	4.0	2.0	4		05/08/24 00:06	14808-79-8	M1

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92728841

Sample: HAM-INW-05 **Lab ID: 92728841002** Collected: 05/02/24 09:55 Received: 05/03/24 13:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**17.3**	mg/L	0.040	0.025	1	05/04/24 10:00	05/06/24 22:13	7439-89-6	M1
Manganese	**3.6**	mg/L	0.040	0.011	1	05/04/24 10:00	05/06/24 22:13	7439-96-5	
Potassium	**5.2**	mg/L	0.50	0.15	1	05/04/24 10:00	05/06/24 22:13	7440-09-7	M1
Sodium	**6.5**	mg/L	1.0	0.58	1	05/04/24 10:00	05/06/24 22:13	7440-23-5	M1
Calcium	**108**	mg/L	1.0	0.12	1	05/04/24 10:00	05/06/24 22:13	7440-70-2	M1
Magnesium	**12.6**	mg/L	0.050	0.012	1	05/04/24 10:00	05/06/24 22:13	7439-95-4	M1
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.00098J**	mg/L	0.0030	0.00054	1	05/04/24 09:50	05/06/24 14:44	7440-36-0	
Arsenic	**0.24**	mg/L	0.0050	0.00084	1	05/04/24 09:50	05/06/24 14:44	7440-38-2	
Barium	**0.032**	mg/L	0.0050	0.00047	1	05/04/24 09:50	05/06/24 14:44	7440-39-3	
Beryllium	**0.000099J**	mg/L	0.00050	0.000094	1	05/04/24 09:50	05/06/24 14:44	7440-41-7	
Boron	**0.54**	mg/L	0.040	0.012	1	05/04/24 09:50	05/06/24 14:44	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	05/04/24 09:50	05/06/24 14:44	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	05/04/24 09:50	05/06/24 14:44	7440-47-3	
Cobalt	**0.028**	mg/L	0.0050	0.00032	1	05/04/24 09:50	05/06/24 14:44	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	05/04/24 09:50	05/06/24 14:44	7439-92-1	
Lithium	**0.060**	mg/L	0.030	0.0016	1	05/04/24 09:50	05/06/24 14:44	7439-93-2	
Molybdenum	**0.0094J**	mg/L	0.010	0.00062	1	05/04/24 09:50	05/06/24 14:44	7439-98-7	
Selenium	**0.0015J**	mg/L	0.0050	0.00096	1	05/04/24 09:50	05/06/24 14:44	7782-49-2	B
Thallium	ND	mg/L	0.0010	0.00038	1	05/04/24 09:50	05/06/24 14:44	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	05/06/24 12:30	05/06/24 16:57	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**109**	mg/L	5.0	5.0	1		05/07/24 16:12		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		05/07/24 16:12		
Alkalinity, Total as CaCO3	**109**	mg/L	5.0	5.0	1		05/07/24 16:12		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**526**	mg/L	25.0	25.0	1		05/07/24 15:51		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		05/09/24 04:42	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**6.0**	mg/L	1.0	0.60	1		05/07/24 14:38	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92728841

Sample: HAM-INW-05 **Lab ID: 92728841002** Collected: 05/02/24 09:55 Received: 05/03/24 13:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.59**	mg/L	0.10	0.050	1		05/07/24 14:38	16984-48-8	
Sulfate	**206**	mg/L	5.0	2.5	5		05/08/24 01:37	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92728841

Sample: HAM-PT-08 **Lab ID: 92728841003** Collected: 05/02/24 12:35 Received: 05/03/24 13:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**8.5**	mg/L	0.040	0.025	1	05/04/24 10:00	05/06/24 22:32	7439-89-6	
Manganese	**3.9**	mg/L	0.040	0.011	1	05/04/24 10:00	05/06/24 22:32	7439-96-5	
Potassium	**5.3**	mg/L	0.50	0.15	1	05/04/24 10:00	05/06/24 22:32	7440-09-7	
Sodium	**7.2**	mg/L	1.0	0.58	1	05/04/24 10:00	05/06/24 22:32	7440-23-5	
Calcium	**98.2**	mg/L	1.0	0.12	1	05/04/24 10:00	05/06/24 22:32	7440-70-2	
Magnesium	**12.0**	mg/L	0.050	0.012	1	05/04/24 10:00	05/06/24 22:32	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	05/04/24 09:50	05/06/24 14:48	7440-36-0	
Arsenic	**0.26**	mg/L	0.0050	0.00084	1	05/04/24 09:50	05/06/24 14:48	7440-38-2	
Barium	**0.045**	mg/L	0.0050	0.00047	1	05/04/24 09:50	05/06/24 14:48	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	05/04/24 09:50	05/06/24 14:48	7440-41-7	
Boron	**0.83**	mg/L	0.040	0.012	1	05/04/24 09:50	05/06/24 14:48	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	05/04/24 09:50	05/06/24 14:48	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	05/04/24 09:50	05/06/24 14:48	7440-47-3	
Cobalt	**0.054**	mg/L	0.0050	0.00032	1	05/04/24 09:50	05/06/24 14:48	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	05/04/24 09:50	05/06/24 14:48	7439-92-1	
Lithium	**0.016J**	mg/L	0.030	0.0016	1	05/04/24 09:50	05/06/24 14:48	7439-93-2	
Molybdenum	**0.017**	mg/L	0.010	0.00062	1	05/04/24 09:50	05/06/24 14:48	7439-98-7	
Selenium	**0.0012J**	mg/L	0.0050	0.00096	1	05/04/24 09:50	05/06/24 14:48	7782-49-2	B
Thallium	ND	mg/L	0.0010	0.00038	1	05/04/24 09:50	05/06/24 14:48	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	05/06/24 12:30	05/06/24 16:59	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**108**	mg/L	5.0	5.0	1		05/07/24 16:29		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		05/07/24 16:29		
Alkalinity, Total as CaCO3	**108**	mg/L	5.0	5.0	1		05/07/24 16:29		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**477**	mg/L	25.0	25.0	1		05/07/24 15:58		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		05/09/24 04:42	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**15.4**	mg/L	1.0	0.60	1		05/07/24 14:53	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92728841

Sample: HAM-PT-08 **Lab ID: 92728841003** Collected: 05/02/24 12:35 Received: 05/03/24 13:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.36**	mg/L	0.10	0.050	1		05/07/24 14:53	16984-48-8	
Sulfate	**176**	mg/L	4.0	2.0	4		05/08/24 01:51	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92728841

Sample: HAM-PT-14 **Lab ID: 92728841004** Collected: 05/02/24 12:06 Received: 05/03/24 13:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**13.7**	mg/L	0.040	0.025	1	05/04/24 10:00	05/06/24 22:37	7439-89-6	
Manganese	**3.1**	mg/L	0.040	0.011	1	05/04/24 10:00	05/06/24 22:37	7439-96-5	
Potassium	**5.4**	mg/L	0.50	0.15	1	05/04/24 10:00	05/06/24 22:37	7440-09-7	
Sodium	**6.7**	mg/L	1.0	0.58	1	05/04/24 10:00	05/06/24 22:37	7440-23-5	
Calcium	**101**	mg/L	1.0	0.12	1	05/04/24 10:00	05/06/24 22:37	7440-70-2	
Magnesium	**12.7**	mg/L	0.050	0.012	1	05/04/24 10:00	05/06/24 22:37	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	05/04/24 09:50	05/06/24 14:51	7440-36-0	
Arsenic	**0.22**	mg/L	0.0050	0.00084	1	05/04/24 09:50	05/06/24 14:51	7440-38-2	
Barium	**0.037**	mg/L	0.0050	0.00047	1	05/04/24 09:50	05/06/24 14:51	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	05/04/24 09:50	05/06/24 14:51	7440-41-7	
Boron	**0.51**	mg/L	0.040	0.012	1	05/04/24 09:50	05/06/24 14:51	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	05/04/24 09:50	05/06/24 14:51	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	05/04/24 09:50	05/06/24 14:51	7440-47-3	
Cobalt	**0.021**	mg/L	0.0050	0.00032	1	05/04/24 09:50	05/06/24 14:51	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	05/04/24 09:50	05/06/24 14:51	7439-92-1	
Lithium	**0.055**	mg/L	0.030	0.0016	1	05/04/24 09:50	05/06/24 14:51	7439-93-2	
Molybdenum	**0.011**	mg/L	0.010	0.00062	1	05/04/24 09:50	05/06/24 14:51	7439-98-7	
Selenium	**0.0014J**	mg/L	0.0050	0.00096	1	05/04/24 09:50	05/06/24 14:51	7782-49-2	B
Thallium	ND	mg/L	0.0010	0.00038	1	05/04/24 09:50	05/06/24 14:51	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	05/06/24 12:30	05/06/24 17:15	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**121**	mg/L	5.0	5.0	1		05/07/24 16:38		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		05/07/24 16:38		
Alkalinity, Total as CaCO3	**121**	mg/L	5.0	5.0	1		05/07/24 16:38		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**462**	mg/L	25.0	25.0	1		05/07/24 15:58		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		05/09/24 04:43	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**7.9**	mg/L	1.0	0.60	1		05/07/24 15:08	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92728841

Sample: HAM-PT-14 **Lab ID: 92728841004** Collected: 05/02/24 12:06 Received: 05/03/24 13:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.43**	mg/L	0.10	0.050	1		05/07/24 15:08	16984-48-8	
Sulfate	**169**	mg/L	4.0	2.0	4		05/08/24 02:06	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92728841

Sample: HAM-PT-15 **Lab ID: 92728841005** Collected: 05/02/24 15:40 Received: 05/03/24 13:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Manganese	**5.6**	mg/L	0.040	0.011	1	05/04/24 10:00	05/07/24 15:31	7439-96-5	
Iron	**9.7**	mg/L	0.040	0.025	1	05/04/24 10:00	05/06/24 22:41	7439-89-6	
Potassium	**5.2**	mg/L	0.50	0.15	1	05/04/24 10:00	05/06/24 22:41	7440-09-7	
Sodium	**6.8**	mg/L	1.0	0.58	1	05/04/24 10:00	05/06/24 22:41	7440-23-5	
Calcium	**141**	mg/L	1.0	0.12	1	05/04/24 10:00	05/06/24 22:41	7440-70-2	
Magnesium	**15.6**	mg/L	0.050	0.012	1	05/04/24 10:00	05/06/24 22:41	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	05/04/24 09:50	05/06/24 14:55	7440-36-0	
Arsenic	**0.41**	mg/L	0.0050	0.00084	1	05/04/24 09:50	05/06/24 14:55	7440-38-2	
Barium	**0.044**	mg/L	0.0050	0.00047	1	05/04/24 09:50	05/06/24 14:55	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	05/04/24 09:50	05/06/24 14:55	7440-41-7	
Boron	**0.75**	mg/L	0.040	0.012	1	05/04/24 09:50	05/06/24 14:55	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	05/04/24 09:50	05/06/24 14:55	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	05/04/24 09:50	05/06/24 14:55	7440-47-3	
Cobalt	**0.052**	mg/L	0.0050	0.00032	1	05/04/24 09:50	05/06/24 14:55	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	05/04/24 09:50	05/06/24 14:55	7439-92-1	
Lithium	**0.051**	mg/L	0.030	0.0016	1	05/04/24 09:50	05/06/24 14:55	7439-93-2	
Molybdenum	**0.017**	mg/L	0.010	0.00062	1	05/04/24 09:50	05/06/24 14:55	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	05/04/24 09:50	05/06/24 14:55	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	05/04/24 09:50	05/06/24 14:55	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	05/06/24 12:30	05/06/24 17:18	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**124**	mg/L	5.0	5.0	1		05/07/24 16:47		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		05/07/24 16:47		
Alkalinity, Total as CaCO3	**124**	mg/L	5.0	5.0	1		05/07/24 16:47		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**638**	mg/L	25.0	25.0	1		05/07/24 15:58		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		05/09/24 04:43	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**11.8**	mg/L	1.0	0.60	1		05/07/24 15:53	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92728841

Sample: HAM-PT-15 **Lab ID: 92728841005** Collected: 05/02/24 15:40 Received: 05/03/24 13:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.55**	mg/L	0.10	0.050	1		05/07/24 15:53	16984-48-8	
Sulfate	**278**	mg/L	7.0	3.5	7		05/08/24 02:21	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92728841

Sample: HAM-AP1-EB-01 **Lab ID: 92728841006** Collected: 05/02/24 15:20 Received: 05/03/24 13:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	05/04/24 10:00	05/06/24 22:56	7439-89-6	
Manganese	ND	mg/L	0.040	0.011	1	05/04/24 10:00	05/06/24 22:56	7439-96-5	
Potassium	ND	mg/L	0.50	0.15	1	05/04/24 10:00	05/06/24 22:56	7440-09-7	
Sodium	ND	mg/L	1.0	0.58	1	05/04/24 10:00	05/06/24 22:56	7440-23-5	
Calcium	ND	mg/L	1.0	0.12	1	05/04/24 10:00	05/06/24 22:56	7440-70-2	
Magnesium	ND	mg/L	0.050	0.012	1	05/04/24 10:00	05/06/24 22:56	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	05/04/24 09:50	05/06/24 15:07	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	05/04/24 09:50	05/06/24 15:07	7440-38-2	
Barium	ND	mg/L	0.0050	0.00047	1	05/04/24 09:50	05/06/24 15:07	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	05/04/24 09:50	05/06/24 15:07	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	05/04/24 09:50	05/06/24 15:07	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	05/04/24 09:50	05/06/24 15:07	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	05/04/24 09:50	05/06/24 15:07	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	05/04/24 09:50	05/06/24 15:07	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	05/04/24 09:50	05/06/24 15:07	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	05/04/24 09:50	05/06/24 15:07	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	05/04/24 09:50	05/06/24 15:07	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	05/04/24 09:50	05/06/24 15:07	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	05/04/24 09:50	05/06/24 15:07	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	05/06/24 12:30	05/06/24 17:20	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		05/07/24 16:57		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		05/07/24 16:57		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		05/07/24 16:57		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		05/07/24 15:59		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		05/09/24 04:43	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		05/07/24 13:24	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92728841

Sample: HAM-AP1-EB-01 **Lab ID: 92728841006** Collected: 05/02/24 15:20 Received: 05/03/24 13:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	ND	mg/L	0.10	0.050	1		05/07/24 13:24	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		05/07/24 13:24	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92728841

Sample: HAM-AP1-FB-01 **Lab ID: 92728841007** Collected: 05/02/24 15:15 Received: 05/03/24 13:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	05/04/24 10:00	05/06/24 23:01	7439-89-6	
Manganese	ND	mg/L	0.040	0.011	1	05/04/24 10:00	05/06/24 23:01	7439-96-5	
Potassium	ND	mg/L	0.50	0.15	1	05/04/24 10:00	05/06/24 23:01	7440-09-7	
Sodium	ND	mg/L	1.0	0.58	1	05/04/24 10:00	05/06/24 23:01	7440-23-5	
Calcium	ND	mg/L	1.0	0.12	1	05/04/24 10:00	05/06/24 23:01	7440-70-2	
Magnesium	ND	mg/L	0.050	0.012	1	05/04/24 10:00	05/06/24 23:01	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	05/04/24 09:50	05/06/24 15:11	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	05/04/24 09:50	05/06/24 15:11	7440-38-2	
Barium	ND	mg/L	0.0050	0.00047	1	05/04/24 09:50	05/06/24 15:11	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	05/04/24 09:50	05/06/24 15:11	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	05/04/24 09:50	05/06/24 15:11	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	05/04/24 09:50	05/06/24 15:11	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	05/04/24 09:50	05/06/24 15:11	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	05/04/24 09:50	05/06/24 15:11	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	05/04/24 09:50	05/06/24 15:11	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	05/04/24 09:50	05/06/24 15:11	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	05/04/24 09:50	05/06/24 15:11	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	05/04/24 09:50	05/06/24 15:11	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	05/04/24 09:50	05/06/24 15:11	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	05/06/24 12:30	05/06/24 17:23	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		05/07/24 17:00		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		05/07/24 17:00		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		05/07/24 17:00		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		05/07/24 15:59		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		05/09/24 04:44	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		05/07/24 13:39	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92728841

Sample: HAM-AP1-FB-01 **Lab ID: 92728841007** Collected: 05/02/24 15:15 Received: 05/03/24 13:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	ND	mg/L	0.10	0.050	1		05/07/24 13:39	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		05/07/24 13:39	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92728841

Sample: HAM-AP1-FD-01 **Lab ID: 92728841008** Collected: 05/02/24 00:00 Received: 05/03/24 13:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**13.6**	mg/L	0.040	0.025	1	05/04/24 10:00	05/06/24 23:05	7439-89-6	
Manganese	**3.1**	mg/L	0.040	0.011	1	05/04/24 10:00	05/06/24 23:05	7439-96-5	
Potassium	**5.4**	mg/L	0.50	0.15	1	05/04/24 10:00	05/06/24 23:05	7440-09-7	
Sodium	**6.7**	mg/L	1.0	0.58	1	05/04/24 10:00	05/06/24 23:05	7440-23-5	
Calcium	**99.4**	mg/L	1.0	0.12	1	05/04/24 10:00	05/06/24 23:05	7440-70-2	
Magnesium	**12.6**	mg/L	0.050	0.012	1	05/04/24 10:00	05/06/24 23:05	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	05/04/24 09:50	05/06/24 15:15	7440-36-0	
Arsenic	**0.20**	mg/L	0.0050	0.00084	1	05/04/24 09:50	05/06/24 15:15	7440-38-2	
Barium	**0.036**	mg/L	0.0050	0.00047	1	05/04/24 09:50	05/06/24 15:15	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	05/04/24 09:50	05/06/24 15:15	7440-41-7	
Boron	**0.47**	mg/L	0.040	0.012	1	05/04/24 09:50	05/06/24 15:15	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	05/04/24 09:50	05/06/24 15:15	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	05/04/24 09:50	05/06/24 15:15	7440-47-3	
Cobalt	**0.020**	mg/L	0.0050	0.00032	1	05/04/24 09:50	05/06/24 15:15	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	05/04/24 09:50	05/06/24 15:15	7439-92-1	
Lithium	**0.052**	mg/L	0.030	0.0016	1	05/04/24 09:50	05/06/24 15:15	7439-93-2	
Molybdenum	**0.010**	mg/L	0.010	0.00062	1	05/04/24 09:50	05/06/24 15:15	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	05/04/24 09:50	05/06/24 15:15	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	05/04/24 09:50	05/06/24 15:15	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	05/06/24 12:30	05/06/24 17:26	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**122**	mg/L	5.0	5.0	1		05/07/24 17:38		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		05/07/24 17:38		
Alkalinity, Total as CaCO3	**122**	mg/L	5.0	5.0	1		05/07/24 17:38		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**442**	mg/L	25.0	25.0	1		05/07/24 15:59		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		05/09/24 04:45	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**7.9**	mg/L	1.0	0.60	1		05/07/24 16:08	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92728841

Sample: HAM-AP1-FD-01 **Lab ID: 92728841008** Collected: 05/02/24 00:00 Received: 05/03/24 13:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.42**	mg/L	0.10	0.050	1		05/07/24 16:08	16984-48-8	
Sulfate	**167**	mg/L	4.0	2.0	4		05/08/24 02:35	14808-79-8	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92728841

QC Batch: 852144
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92728841001, 92728841002, 92728841003, 92728841004, 92728841005, 92728841006, 92728841007, 92728841008

METHOD BLANK: 4398182 Matrix: Water
Associated Lab Samples: 92728841001, 92728841002, 92728841003, 92728841004, 92728841005, 92728841006, 92728841007, 92728841008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	05/06/24 21:58	
Iron	mg/L	ND	0.040	0.025	05/06/24 21:58	
Magnesium	mg/L	ND	0.050	0.012	05/06/24 21:58	
Manganese	mg/L	ND	0.040	0.011	05/06/24 21:58	
Potassium	mg/L	ND	0.50	0.15	05/06/24 21:58	
Sodium	mg/L	ND	1.0	0.58	05/06/24 21:58	

LABORATORY CONTROL SAMPLE: 4398183

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0	105	80-120	
Iron	mg/L	1	1.0	104	80-120	
Magnesium	mg/L	1	1.0	105	80-120	
Manganese	mg/L	1	1.0	103	80-120	
Potassium	mg/L	1	1.2	115	80-120	
Sodium	mg/L	1	1.1	114	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4398184 4398185

Parameter	Units	92728841002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	108	1	1	118	115	975	695	75-125	2	20	M1
Iron	mg/L	17.3	1	1	19.5	19.1	217	174	75-125	2	20	M1
Magnesium	mg/L	12.6	1	1	14.5	14.2	189	162	75-125	2	20	M1
Manganese	mg/L	3.6	1	1	4.8	4.7	123	111	75-125	2	20	
Potassium	mg/L	5.2	1	1	6.7	6.6	152	138	75-125	2	20	M1
Sodium	mg/L	6.5	1	1	8.1	7.9	154	135	75-125	2	20	M1

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92728841

QC Batch: 852143
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92728841001, 92728841002, 92728841003, 92728841004, 92728841005, 92728841006, 92728841007, 92728841008

METHOD BLANK: 4398178 Matrix: Water
Associated Lab Samples: 92728841001, 92728841002, 92728841003, 92728841004, 92728841005, 92728841006, 92728841007, 92728841008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00054	05/06/24 14:22	
Arsenic	mg/L	0.0039J	0.0050	0.00084	05/06/24 14:22	
Barium	mg/L	ND	0.0050	0.00047	05/06/24 14:22	
Beryllium	mg/L	ND	0.00050	0.000094	05/06/24 14:22	
Boron	mg/L	ND	0.040	0.012	05/06/24 14:22	
Cadmium	mg/L	ND	0.00050	0.00010	05/06/24 14:22	
Chromium	mg/L	ND	0.0050	0.0019	05/06/24 14:22	
Cobalt	mg/L	ND	0.0050	0.00032	05/06/24 14:22	
Lead	mg/L	ND	0.0010	0.00016	05/06/24 14:22	
Lithium	mg/L	ND	0.030	0.0016	05/06/24 14:22	
Molybdenum	mg/L	ND	0.010	0.00062	05/06/24 14:22	
Selenium	mg/L	0.0021J	0.0050	0.00096	05/06/24 14:22	
Thallium	mg/L	ND	0.0010	0.00038	05/06/24 14:22	

LABORATORY CONTROL SAMPLE: 4398179

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.097	97	80-120	
Arsenic	mg/L	0.1	0.10	102	80-120	
Barium	mg/L	0.1	0.093	93	80-120	
Beryllium	mg/L	0.1	0.099	99	80-120	
Boron	mg/L	1	1.0	100	80-120	
Cadmium	mg/L	0.1	0.094	94	80-120	
Chromium	mg/L	0.1	0.096	96	80-120	
Cobalt	mg/L	0.1	0.093	93	80-120	
Lead	mg/L	0.1	0.098	98	80-120	
Lithium	mg/L	0.1	0.10	102	80-120	
Molybdenum	mg/L	0.1	0.095	95	80-120	
Selenium	mg/L	0.1	0.10	101	80-120	
Thallium	mg/L	0.1	0.097	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4398180 4398181

Parameter	Units	92728841001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.10	0.10	102	101	75-125	1	20	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92728841

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4398180 4398181

Parameter	Units	92728841001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	0.21	0.1	0.1	0.31	0.32	93	104	75-125	3	20	
Barium	mg/L	0.042	0.1	0.1	0.14	0.13	94	92	75-125	1	20	
Beryllium	mg/L	ND	0.1	0.1	0.093	0.093	93	93	75-125	0	20	
Boron	mg/L	0.61	1	1	1.6	1.6	95	100	75-125	3	20	
Cadmium	mg/L	ND	0.1	0.1	0.094	0.095	94	95	75-125	1	20	
Chromium	mg/L	ND	0.1	0.1	0.092	0.094	92	94	75-125	2	20	
Cobalt	mg/L	0.029	0.1	0.1	0.12	0.12	90	91	75-125	1	20	
Lead	mg/L	ND	0.1	0.1	0.097	0.10	97	100	75-125	2	20	
Lithium	mg/L	0.048	0.1	0.1	0.14	0.14	97	96	75-125	0	20	
Molybdenum	mg/L	0.016	0.1	0.1	0.11	0.11	98	97	75-125	1	20	
Selenium	mg/L	0.0016J	0.1	0.1	0.10	0.10	99	102	75-125	3	20	
Thallium	mg/L	0.00048J	0.1	0.1	0.098	0.098	97	98	75-125	1	20	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92728841

QC Batch: 852339
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92728841001, 92728841002, 92728841003, 92728841004, 92728841005, 92728841006, 92728841007, 92728841008

METHOD BLANK: 4398727 Matrix: Water
Associated Lab Samples: 92728841001, 92728841002, 92728841003, 92728841004, 92728841005, 92728841006, 92728841007, 92728841008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	05/06/24 16:49	

LABORATORY CONTROL SAMPLE: 4398728

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0025	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4398729 4398730

Parameter	Units	92728841003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0024	0.0024	97	97	75-125	0	20	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92728841

QC Batch: 852662 — Analysis Method: SM 2320B-2011
QC Batch Method: SM 2320B-2011 — Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92728841001, 92728841002, 92728841003, 92728841004, 92728841005, 92728841006, 92728841007

METHOD BLANK: 4400154 — Matrix: Water
Associated Lab Samples: 92728841001, 92728841002, 92728841003, 92728841004, 92728841005, 92728841006, 92728841007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	05/07/24 14:10	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	05/07/24 14:10	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	05/07/24 14:10	

LABORATORY CONTROL SAMPLE: 4400155

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.8	104	80-120	

LABORATORY CONTROL SAMPLE: 4400156

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	52.3	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4400157 — 4400158

Parameter	Units	92727753001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	7.4	50	50	58.7	58.5	103	102	80-120	0	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4400159 — 4400160

Parameter	Units	92727753002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	ND	50	50	52.8	52.6	103	103	80-120	0	25	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92728841

QC Batch: 852668
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92728841008

METHOD BLANK: 4400185 Matrix: Water
Associated Lab Samples: 92728841008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	05/07/24 17:22	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	05/07/24 17:22	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	05/07/24 17:22	

LABORATORY CONTROL SAMPLE: 4400186

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.4	101	80-120	

LABORATORY CONTROL SAMPLE: 4400187

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.3	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4400188 4400189

Parameter	Units	92727828002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	270	50	50	318	305	96	71	80-120	4	25	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4400190 4400191

Parameter	Units	92727828003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	284	50	50	335	326	103	84	80-120	3	25	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92728841

QC Batch: 852725
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92728841001, 92728841002

METHOD BLANK: 4400519 Matrix: Water
Associated Lab Samples: 92728841001, 92728841002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	05/07/24 15:47	

LABORATORY CONTROL SAMPLE: 4400520

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	254	102	90-110	

SAMPLE DUPLICATE: 4400521

Parameter	Units	92728666001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	84.0	89.0	6	25	

SAMPLE DUPLICATE: 4400522

Parameter	Units	92728671010 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	109	107	2	25	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92728841

QC Batch: 852726 | Analysis Method: SM 2540C-2015
QC Batch Method: SM 2540C-2015 | Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92728841003, 92728841004, 92728841005, 92728841006, 92728841007, 92728841008

METHOD BLANK: 4400526 Matrix: Water
Associated Lab Samples: 92728841003, 92728841004, 92728841005, 92728841006, 92728841007, 92728841008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	05/07/24 15:58	

LABORATORY CONTROL SAMPLE: 4400527

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	256	102	90-110	

SAMPLE DUPLICATE: 4400528

Parameter	Units	92728841003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	477	460	4	25	

SAMPLE DUPLICATE: 4400529

Parameter	Units	92728786001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1370	1360	0	25	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92728841

QC Batch: 853221
QC Batch Method: SM 4500-S2D-2011
Analysis Method: SM 4500-S2D-2011
Analysis Description: 4500S2D Sulfide Water
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92728841001, 92728841002, 92728841003, 92728841004, 92728841005, 92728841006, 92728841007, 92728841008

METHOD BLANK: 4403056 Matrix: Water
Associated Lab Samples: 92728841001, 92728841002, 92728841003, 92728841004, 92728841005, 92728841006, 92728841007, 92728841008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	0.022	05/09/24 04:40	

LABORATORY CONTROL SAMPLE: 4403057

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	0.54	109	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4403058 4403059

Parameter	Units	92728841007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.55	0.56	109	113	80-120	3	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4403060 4403061

Parameter	Units	92728860002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.46	0.52	92	104	80-120	12	10	R1

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92728841

QC Batch: 852564
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92728841001, 92728841002, 92728841003, 92728841004, 92728841005, 92728841006, 92728841007, 92728841008

METHOD BLANK: 4399708 Matrix: Water
Associated Lab Samples: 92728841001, 92728841002, 92728841003, 92728841004, 92728841005, 92728841006, 92728841007, 92728841008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	05/07/24 12:54	
Fluoride	mg/L	ND	0.10	0.050	05/07/24 12:54	
Sulfate	mg/L	ND	1.0	0.50	05/07/24 12:54	

LABORATORY CONTROL SAMPLE: 4399709

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	48.7	97	90-110	
Fluoride	mg/L	2.5	2.5	101	90-110	
Sulfate	mg/L	50	47.6	95	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4399710 4399711

Parameter	Units	92728841001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	8.0	50	50	58.4	58.9	101	102	90-110	1	10	
Fluoride	mg/L	0.47	2.5	2.5	4.1	4.1	146	145	90-110	0	10	M1
Sulfate	mg/L	180	50	50	231	223	101	86	90-110	3	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4399712 4399713

Parameter	Units	92728877001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	1.5	50	50	58.2	53.1	113	103	90-110	9	10	M1
Fluoride	mg/L	0.47	2.5	2.5	4.1	3.7	145	129	90-110	10	10	M1
Sulfate	mg/L	37.7	50	50	84.1	86.7	93	98	90-110	3	10	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Hammond AP-1
Pace Project No.: 92728841

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

B	Analyte was detected in the associated method blank.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
R1	RPD value was outside control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Hammond AP-1
Pace Project No.: 92728841

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92728841001	**HAM-INW-04**	EPA 3010A	852144	EPA 6010D	852161
92728841002	**HAM-INW-05**	EPA 3010A	852144	EPA 6010D	852161
92728841003	**HAM-PT-08**	EPA 3010A	852144	EPA 6010D	852161
92728841004	**HAM-PT-14**	EPA 3010A	852144	EPA 6010D	852161
92728841005	**HAM-PT-15**	EPA 3010A	852144	EPA 6010D	852161
92728841006	**HAM-AP1-EB-01**	EPA 3010A	852144	EPA 6010D	852161
92728841007	**HAM-AP1-FB-01**	EPA 3010A	852144	EPA 6010D	852161
92728841008	**HAM-AP1-FD-01**	EPA 3010A	852144	EPA 6010D	852161
92728841001	**HAM-INW-04**	EPA 3005A	852143	EPA 6020B	852177
92728841002	**HAM-INW-05**	EPA 3005A	852143	EPA 6020B	852177
92728841003	**HAM-PT-08**	EPA 3005A	852143	EPA 6020B	852177
92728841004	**HAM-PT-14**	EPA 3005A	852143	EPA 6020B	852177
92728841005	**HAM-PT-15**	EPA 3005A	852143	EPA 6020B	852177
92728841006	**HAM-AP1-EB-01**	EPA 3005A	852143	EPA 6020B	852177
92728841007	**HAM-AP1-FB-01**	EPA 3005A	852143	EPA 6020B	852177
92728841008	**HAM-AP1-FD-01**	EPA 3005A	852143	EPA 6020B	852177
92728841001	**HAM-INW-04**	EPA 7470A	852339	EPA 7470A	852477
92728841002	**HAM-INW-05**	EPA 7470A	852339	EPA 7470A	852477
92728841003	**HAM-PT-08**	EPA 7470A	852339	EPA 7470A	852477
92728841004	**HAM-PT-14**	EPA 7470A	852339	EPA 7470A	852477
92728841005	**HAM-PT-15**	EPA 7470A	852339	EPA 7470A	852477
92728841006	**HAM-AP1-EB-01**	EPA 7470A	852339	EPA 7470A	852477
92728841007	**HAM-AP1-FB-01**	EPA 7470A	852339	EPA 7470A	852477
92728841008	**HAM-AP1-FD-01**	EPA 7470A	852339	EPA 7470A	852477
92728841001	**HAM-INW-04**	SM 2320B-2011	852662		
92728841002	**HAM-INW-05**	SM 2320B-2011	852662		
92728841003	**HAM-PT-08**	SM 2320B-2011	852662		
92728841004	**HAM-PT-14**	SM 2320B-2011	852662		
92728841005	**HAM-PT-15**	SM 2320B-2011	852662		
92728841006	**HAM-AP1-EB-01**	SM 2320B-2011	852662		
92728841007	**HAM-AP1-FB-01**	SM 2320B-2011	852662		
92728841008	**HAM-AP1-FD-01**	SM 2320B-2011	852668		
92728841001	**HAM-INW-04**	SM 2540C-2015	852725		
92728841002	**HAM-INW-05**	SM 2540C-2015	852725		
92728841003	**HAM-PT-08**	SM 2540C-2015	852726		
92728841004	**HAM-PT-14**	SM 2540C-2015	852726		
92728841005	**HAM-PT-15**	SM 2540C-2015	852726		
92728841006	**HAM-AP1-EB-01**	SM 2540C-2015	852726		
92728841007	**HAM-AP1-FB-01**	SM 2540C-2015	852726		
92728841008	**HAM-AP1-FD-01**	SM 2540C-2015	852726		
92728841001	**HAM-INW-04**	SM 4500-S2D-2011	853221		
92728841002	**HAM-INW-05**	SM 4500-S2D-2011	853221		
92728841003	**HAM-PT-08**	SM 4500-S2D-2011	853221		
92728841004	**HAM-PT-14**	SM 4500-S2D-2011	853221		
92728841005	**HAM-PT-15**	SM 4500-S2D-2011	853221		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Hammond AP-1
Pace Project No.: 92728841

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92728841006	**HAM-AP1-EB-01**	SM 4500-S2D-2011	853221		
92728841007	**HAM-AP1-FB-01**	SM 4500-S2D-2011	853221		
92728841008	**HAM-AP1-FD-01**	SM 4500-S2D-2011	853221		
92728841001	**HAM-INW-04**	EPA 300.0 Rev 2.1 1993	852564		
92728841002	**HAM-INW-05**	EPA 300.0 Rev 2.1 1993	852564		
92728841003	**HAM-PT-08**	EPA 300.0 Rev 2.1 1993	852564		
92728841004	**HAM-PT-14**	EPA 300.0 Rev 2.1 1993	852564		
92728841005	**HAM-PT-15**	EPA 300.0 Rev 2.1 1993	852564		
92728841006	**HAM-AP1-EB-01**	EPA 300.0 Rev 2.1 1993	852564		
92728841007	**HAM-AP1-FB-01**	EPA 300.0 Rev 2.1 1993	852564		
92728841008	**HAM-AP1-FD-01**	EPA 300.0 Rev 2.1 1993	852564		

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DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt

Effective Date: 12/01/2023

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: G Rad

Project

WO# : 92728841

92728841

Courier: ☐ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Pace ☐ Other

Custody Seal Present? ☑ Yes ☐ No Seals Intact? ☐ Yes ☐ No ☐ N/A

Date/Initials Person Examining Contents:

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☐ N/A

Thermometer:
☐ IR Gun ID: 230 Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 2.3 Correction Factor: Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 2.3

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, excluding Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☐ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☐ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☐ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☐ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☐ Yes	☐ No	☐ N/A	
Containers Intact?	☐ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☐ N/A	8.
Sample Labels Match COC?	☐ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix:				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☐ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☐ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☐ N/A	

Field Data Required? ☐ Yes ☐ No

COMMENTS/SAMPLE DISCREPANCY

Client under cal 2 sample so split cannot be done. Per HAP-API-FD- 4.2 HAP-API-FD-02 is

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

Hattrax ID: 69614

DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt

Effective Date: 12/01/2023

WO#: 92728841

Project #

PM: BV Due Date: 05/10/24

CLIENT: 92- GP-HAM

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (Water) DOC, LLHg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Items	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic Zn Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG9H-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VGST-40 mL VOA Na2S2O3 (N/A)	VOAU-40 mL VOA Unpreserved (N/A)	DGBV-40 mL VOA H3PO4 (N/A)	KP7U-30 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SPST-125 mL Sterile Plastic (N/A - lab)	SPST-250 mL Sterile Plastic (N/A - lab)		BP3R-250 mL Plastic (NH4)2SO4 (9.3-9.7)	AGBU-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		2																											
2		2																											
3		2																											
4		2																											
5		2																											
6		2																											
7		2																											
8		2																											
9		2																											
10		2																											
11																													
12																													

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect container).

wolftax ID: 69614

Page 2 of 2

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

Section A (Required Client Information)	Section B (Required Project Information)	Section C (Invoice Information)
Company: GA Power	Report To: SCS Contacts	Attention: Southern Co
Address: Atlanta, GA	Copy To: Geosyntec Consults	Company Name:
		Address:
Email To: SCS Contacts	Purchase Order No.: GPC62474-0001	Pace Quote Reference / Project Manager:
Phone: Fax:	Project Name: Hammond AP-1	Pace Project Manager: Bonnie Vang
Requested Due Date/TAT: 5 day	Project Number:	Pace Profile #: 10235

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER

UST RCRA Other: CCR

Site Location STATE: GA

Requested Analysis Filtered (Y/N)

ITEM #	Section D (Required Client Information) — SAMPLE ID (A-Z, 0-9 / , ; Sample IDs MUST BE UNIQUE)	Valid Matrix Codes (MATRIX / CODE)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test	Y/N	N	N	N	N	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	HAM-INW-04	WATER / WT	WG	G	5/1/2024	1416		23	6	3	1					1			X	X	X	X		N	
2	HAM-INW-05	WATER / WT	WG	G	5/1/2024	0916		18	6	3	1					1			X	X	X	X		N	
3	~~HAM-PT-07~~ (5-1-2024)	WATER / WT	WG	G	5/1/2024	1021	5/2/2024	20	6	3	1					1			X	X	X	X		N	
4	HAM-PT-08	WATER / WT	WG	G	5/2/2024	0958		22	6	3	1					1			X	X	X	X		N	
5	~~HAM-PT-13~~ (5-1-2024)	WATER / WT	WG	G	5/1/2024	1021		17	6	3	1					1			X	X	X	X		N	
6	HAM-PT-14	WATER / WT	WG	G	5/2/2024	1208		19	6	3	1					1			X	X	X	X		N	
7	HAM-PT-15	WATER / WT	WG	G	5/2/2024	1340		22	6	3	1					1			X	X	X	X		N	
8	HAM-AP1-EB-01	WATER / WT	WG	G	5/2/2024	1555		20	6	3	1					1			X	X	X	X		N	
9	HAM-AP1-FB-01	WATER / WT	WG	G	5/2/2024	1313		20	6	3	1					1			X	X	X	X		N	
10	HAM-AP1-FD-01	WATER / WT	WG	G	5/2/2024	0800		20	6	3	1					1			X	X	X	X		N	
11																									
12							5/2/2024																		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Tube Code: HAM-01-HCA-05/HT202	Elizabeth Russell / Geosyntec	5/2/2024	1900	Ryan Williams / Pace	5/2/2024	1900	
	Anthony Spruill / Geosyntec	5/3/2024	1320	Ryan Williams / Pace	5/3/2024	1320	
	Ryan Williams / Pace	5/3/2024	1450		5/3	1450	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Elizabeth Russell, Zain Webb / Geosyntec Consultants, Inc.

SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY): 05/02/2024

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-Feb-2007

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

May 20, 2024

Kristen Jurinko
Southern Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, GA 30308

RE: Project: Hammond AP-1
Pace Project No.: 92730250

Dear Kristen Jurinko:

Enclosed are the analytical results for sample(s) received by the laboratory on May 10, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Asheville
- Pace Analytical Services - Peachtree Corners, GA

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Bonnie Vang
bonnie.vang@pacelabs.com
704-977-0968
Project Manager

Enclosures

cc: Kip Gray, Geosyntec
Christine Hug, Geosyntec Consultants, Inc.
Thomas Kessler, Geosyntec Consultants
Whitney Law, Geosyntec Consultants
Laura Midkiff, Southern Company
Caroline Nelson, Geosyntec Consultants, Inc
Anthony Szwast, Geosyntec Consultants

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Hammond AP-1
Pace Project No.: 92730250

Pace Analytical Services Asheville
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Laboratory ID: 99030
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners
110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812
North Carolina Certification #: 381
South Carolina Certification #: 98011001
Virginia Certification #: 460204

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SAMPLE SUMMARY

Project: Hammond AP-1
Pace Project No.: 92730250

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92730250001	**HAM-PT-07**	Water	05/09/24 14:58	05/10/24 13:40
92730250002	**HAM-PT-13**	Water	05/09/24 16:45	05/10/24 13:40

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SAMPLE ANALYTE COUNT

Project: Hammond AP-1
Pace Project No.: 92730250

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92730250001	**HAM-PT-07**	EPA 6010D	DRB	6
		EPA 6020B	MT1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92730250002	**HAM-PT-13**	EPA 6010D	DRB	6
		EPA 6020B	MT1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	JCM	3

PASI-A = Pace Analytical Services - Asheville
PASI-GA = Pace Analytical Services - Peachtree Corners, GA

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(704)875-9092

SUMMARY OF DETECTION

Project: Hammond AP-1
Pace Project No.: 92730250

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92730250001	**HAM-PT-07**					
EPA 6010D	Sodium	6.8	mg/L	1.0	05/15/24 22:05	
EPA 6010D	Iron	16.9	mg/L	0.040	05/14/24 17:10	
EPA 6010D	Manganese	3.2	mg/L	0.040	05/14/24 17:10	
EPA 6010D	Potassium	5.6	mg/L	0.50	05/14/24 17:10	
EPA 6010D	Calcium	98.0	mg/L	1.0	05/14/24 17:10	
EPA 6010D	Magnesium	12.5	mg/L	0.050	05/14/24 17:10	
EPA 6020B	Antimony	0.00059J	mg/L	0.0030	05/15/24 14:25	
EPA 6020B	Arsenic	0.30	mg/L	0.0050	05/15/24 14:25	
EPA 6020B	Barium	0.037	mg/L	0.0050	05/15/24 14:25	
EPA 6020B	Beryllium	0.00010J	mg/L	0.00050	05/15/24 14:25	
EPA 6020B	Boron	0.55	mg/L	0.040	05/15/24 14:25	
EPA 6020B	Cobalt	0.041	mg/L	0.0050	05/15/24 14:25	
EPA 6020B	Lithium	0.064	mg/L	0.030	05/15/24 14:25	
EPA 6020B	Molybdenum	0.010	mg/L	0.010	05/15/24 14:25	
SM 2540C-2015	Total Dissolved Solids	463	mg/L	25.0	05/14/24 12:37	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	117	mg/L	5.0	05/17/24 19:33	
SM 2320B-2011	Alkalinity, Total as CaCO3	117	mg/L	5.0	05/17/24 19:33	
EPA 300.0 Rev 2.1 1993	Chloride	9.2	mg/L	1.0	05/14/24 00:00	
EPA 300.0 Rev 2.1 1993	Fluoride	0.33	mg/L	0.10	05/14/24 00:00	
EPA 300.0 Rev 2.1 1993	Sulfate	177	mg/L	4.0	05/14/24 03:34	
92730250002	**HAM-PT-13**					
EPA 6010D	Iron	15.5	mg/L	0.040	05/14/24 17:13	
EPA 6010D	Manganese	3.5	mg/L	0.040	05/14/24 17:13	
EPA 6010D	Potassium	5.0	mg/L	0.50	05/14/24 17:13	
EPA 6010D	Calcium	94.4	mg/L	1.0	05/14/24 17:13	
EPA 6010D	Magnesium	11.4	mg/L	0.050	05/14/24 17:13	
EPA 6010D	Sodium	6.9	mg/L	1.0	05/15/24 22:10	
EPA 6020B	Arsenic	0.30	mg/L	0.0050	05/15/24 14:29	
EPA 6020B	Barium	0.036	mg/L	0.0050	05/15/24 14:29	
EPA 6020B	Boron	0.54	mg/L	0.040	05/15/24 14:29	
EPA 6020B	Cobalt	0.026	mg/L	0.0050	05/15/24 14:29	
EPA 6020B	Lithium	0.061	mg/L	0.030	05/15/24 14:29	
EPA 6020B	Molybdenum	0.0095J	mg/L	0.010	05/15/24 14:29	
SM 2540C-2015	Total Dissolved Solids	472	mg/L	25.0	05/14/24 12:37	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	106	mg/L	5.0	05/17/24 19:42	
SM 2320B-2011	Alkalinity, Total as CaCO3	106	mg/L	5.0	05/17/24 19:42	
EPA 300.0 Rev 2.1 1993	Chloride	9.0	mg/L	1.0	05/14/24 00:14	
EPA 300.0 Rev 2.1 1993	Fluoride	0.35	mg/L	0.10	05/14/24 00:14	
EPA 300.0 Rev 2.1 1993	Sulfate	195	mg/L	4.0	05/14/24 03:48	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92730250

Sample: HAM-PT-07 **Lab ID: 92730250001** Collected: 05/09/24 14:58 Received: 05/10/24 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Sodium	**6.8**	mg/L	1.0	0.58	1	05/10/24 17:49	05/15/24 22:05	7440-23-5	
Iron	**16.9**	mg/L	0.040	0.025	1	05/10/24 17:49	05/14/24 17:10	7439-89-6	
Manganese	**3.2**	mg/L	0.040	0.011	1	05/10/24 17:49	05/14/24 17:10	7439-96-5	
Potassium	**5.6**	mg/L	0.50	0.15	1	05/10/24 17:49	05/14/24 17:10	7440-09-7	
Calcium	**98.0**	mg/L	1.0	0.12	1	05/10/24 17:49	05/14/24 17:10	7440-70-2	
Magnesium	**12.5**	mg/L	0.050	0.012	1	05/10/24 17:49	05/14/24 17:10	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.00059J**	mg/L	0.0030	0.00054	1	05/11/24 13:00	05/15/24 14:25	7440-36-0	
Arsenic	**0.30**	mg/L	0.0050	0.00084	1	05/11/24 13:00	05/15/24 14:25	7440-38-2	
Barium	**0.037**	mg/L	0.0050	0.00047	1	05/11/24 13:00	05/15/24 14:25	7440-39-3	
Beryllium	**0.00010J**	mg/L	0.00050	0.000094	1	05/11/24 13:00	05/15/24 14:25	7440-41-7	
Boron	**0.55**	mg/L	0.040	0.012	1	05/11/24 13:00	05/15/24 14:25	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	05/11/24 13:00	05/15/24 14:25	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	05/11/24 13:00	05/15/24 14:25	7440-47-3	
Cobalt	**0.041**	mg/L	0.0050	0.00032	1	05/11/24 13:00	05/15/24 14:25	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	05/11/24 13:00	05/15/24 14:25	7439-92-1	
Lithium	**0.064**	mg/L	0.030	0.0016	1	05/11/24 13:00	05/15/24 14:25	7439-93-2	
Molybdenum	**0.010**	mg/L	0.010	0.00062	1	05/11/24 13:00	05/15/24 14:25	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	05/11/24 13:00	05/15/24 14:25	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	05/11/24 13:00	05/15/24 14:25	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	05/16/24 17:00	05/17/24 09:15	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**463**	mg/L	25.0	25.0	1		05/14/24 12:37		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**117**	mg/L	5.0	5.0	1		05/17/24 19:33		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		05/17/24 19:33		
Alkalinity, Total as CaCO3	**117**	mg/L	5.0	5.0	1		05/17/24 19:33		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		05/11/24 02:08	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**9.2**	mg/L	1.0	0.60	1		05/14/24 00:00	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92730250

Sample: HAM-PT-07 **Lab ID: 92730250001** Collected: 05/09/24 14:58 Received: 05/10/24 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.33**	mg/L	0.10	0.050	1		05/14/24 00:00	16984-48-8	
Sulfate	**177**	mg/L	4.0	2.0	4		05/14/24 03:34	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92730250

Sample: HAM-PT-13 **Lab ID: 92730250002** Collected: 05/09/24 16:45 Received: 05/10/24 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**15.5**	mg/L	0.040	0.025	1	05/10/24 17:49	05/14/24 17:13	7439-89-6	
Manganese	**3.5**	mg/L	0.040	0.011	1	05/10/24 17:49	05/14/24 17:13	7439-96-5	
Potassium	**5.0**	mg/L	0.50	0.15	1	05/10/24 17:49	05/14/24 17:13	7440-09-7	
Calcium	**94.4**	mg/L	1.0	0.12	1	05/10/24 17:49	05/14/24 17:13	7440-70-2	
Magnesium	**11.4**	mg/L	0.050	0.012	1	05/10/24 17:49	05/14/24 17:13	7439-95-4	
Sodium	**6.9**	mg/L	1.0	0.58	1	05/10/24 17:49	05/15/24 22:10	7440-23-5	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	05/11/24 13:00	05/15/24 14:29	7440-36-0	
Arsenic	**0.30**	mg/L	0.0050	0.00084	1	05/11/24 13:00	05/15/24 14:29	7440-38-2	
Barium	**0.036**	mg/L	0.0050	0.00047	1	05/11/24 13:00	05/15/24 14:29	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	05/11/24 13:00	05/15/24 14:29	7440-41-7	
Boron	**0.54**	mg/L	0.040	0.012	1	05/11/24 13:00	05/15/24 14:29	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	05/11/24 13:00	05/15/24 14:29	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	05/11/24 13:00	05/15/24 14:29	7440-47-3	
Cobalt	**0.026**	mg/L	0.0050	0.00032	1	05/11/24 13:00	05/15/24 14:29	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	05/11/24 13:00	05/15/24 14:29	7439-92-1	
Lithium	**0.061**	mg/L	0.030	0.0016	1	05/11/24 13:00	05/15/24 14:29	7439-93-2	
Molybdenum	**0.0095J**	mg/L	0.010	0.00062	1	05/11/24 13:00	05/15/24 14:29	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	05/11/24 13:00	05/15/24 14:29	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	05/11/24 13:00	05/15/24 14:29	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	05/16/24 17:00	05/17/24 09:17	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**472**	mg/L	25.0	25.0	1		05/14/24 12:37		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**106**	mg/L	5.0	5.0	1		05/17/24 19:42		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		05/17/24 19:42		
Alkalinity, Total as CaCO3	**106**	mg/L	5.0	5.0	1		05/17/24 19:42		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		05/11/24 02:10	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**9.0**	mg/L	1.0	0.60	1		05/14/24 00:14	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92730250

Sample: HAM-PT-13 **Lab ID: 92730250002** Collected: 05/09/24 16:45 Received: 05/10/24 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.35**	mg/L	0.10	0.050	1		05/14/24 00:14	16984-48-8	
Sulfate	**195**	mg/L	4.0	2.0	4		05/14/24 03:48	14808-79-8	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92730250

QC Batch: 853813
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92730250001, 92730250002

METHOD BLANK: 4406154 Matrix: Water
Associated Lab Samples: 92730250001, 92730250002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	05/14/24 14:43	
Iron	mg/L	ND	0.040	0.025	05/14/24 14:43	
Magnesium	mg/L	ND	0.050	0.012	05/14/24 14:43	
Manganese	mg/L	ND	0.040	0.011	05/14/24 14:43	
Potassium	mg/L	ND	0.50	0.15	05/15/24 21:55	
Sodium	mg/L	ND	1.0	0.58	05/15/24 21:55	

LABORATORY CONTROL SAMPLE: 4406155

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	0.95J	95	80-120	
Iron	mg/L	1	0.97	97	80-120	
Magnesium	mg/L	1	0.98	98	80-120	
Manganese	mg/L	1	0.96	96	80-120	
Potassium	mg/L	1	0.89	89	80-120	
Sodium	mg/L	1	0.94J	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4406156 4406157

Parameter	Units	92729900005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	ND	1	1	1.3J	1.3J	94	98	75-125		20	
Iron	mg/L	ND	1	1	0.96	0.98	96	98	75-125	2	20	
Magnesium	mg/L	ND	1	1	1.0	1.0	95	98	75-125	2	20	
Manganese	mg/L	ND	1	1	1.1	1.1	101	99	75-125	2	20	
Potassium	mg/L	3370 ug/L	1	1	3.6	5.6	19	224	75-125	45	20	M1,R1
Sodium	mg/L	3680000 ug/L	1	1	3540	3590	-13800	-8670	75-125	1	20	M1

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92730250

QC Batch: 853920
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92730250001, 92730250002

METHOD BLANK: 4406560 Matrix: Water
Associated Lab Samples: 92730250001, 92730250002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00054	05/15/24 13:55	
Arsenic	mg/L	ND	0.0050	0.00084	05/15/24 13:55	
Barium	mg/L	ND	0.0050	0.00047	05/15/24 13:55	
Beryllium	mg/L	ND	0.00050	0.000094	05/15/24 13:55	
Boron	mg/L	ND	0.040	0.012	05/15/24 13:55	
Cadmium	mg/L	ND	0.00050	0.00010	05/15/24 13:55	
Chromium	mg/L	ND	0.0050	0.0019	05/15/24 13:55	
Cobalt	mg/L	ND	0.0050	0.00032	05/15/24 13:55	
Lead	mg/L	ND	0.0010	0.00016	05/15/24 13:55	
Lithium	mg/L	ND	0.030	0.0016	05/15/24 13:55	
Molybdenum	mg/L	ND	0.010	0.00062	05/15/24 13:55	
Selenium	mg/L	ND	0.0050	0.00096	05/15/24 13:55	
Thallium	mg/L	ND	0.0010	0.00038	05/15/24 13:55	

LABORATORY CONTROL SAMPLE: 4406561

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	106	80-120	
Arsenic	mg/L	0.1	0.10	103	80-120	
Barium	mg/L	0.1	0.10	102	80-120	
Beryllium	mg/L	0.1	0.11	109	80-120	
Boron	mg/L	1	1.1	105	80-120	
Cadmium	mg/L	0.1	0.10	103	80-120	
Chromium	mg/L	0.1	0.10	103	80-120	
Cobalt	mg/L	0.1	0.10	102	80-120	
Lead	mg/L	0.1	0.10	105	80-120	
Lithium	mg/L	0.1	0.11	110	80-120	
Molybdenum	mg/L	0.1	0.11	106	80-120	
Selenium	mg/L	0.1	0.10	104	80-120	
Thallium	mg/L	0.1	0.10	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4406562 4406563

Parameter	Units	92730292001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	0.78J ug/L	0.1	0.1	0.11	0.11	107	105	75-125	2	20	
Arsenic	mg/L	1.9J ug/L	0.1	0.1	0.11	0.11	107	104	75-125	3	20	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92730250

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4406562 4406563

Parameter	Units	92730292001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	mg/L	82.1J ug/L	0.1	0.1	0.19	0.19	108	103	75-125	2	20	
Beryllium	mg/L	ND	0.1	0.1	0.10	0.10	103	102	75-125	1	20	
Boron	mg/L	19.1J ug/L	1	1	1.0	1.0	101	99	75-125	1	20	
Cadmium	mg/L	ND	0.1	0.1	0.10	0.10	104	103	75-125	1	20	
Chromium	mg/L	4.3J ug/L	0.1	0.1	0.11	0.11	106	104	75-125	2	20	
Cobalt	mg/L	ND	0.1	0.1	0.10	0.10	103	103	75-125	0	20	
Lead	mg/L	0.19J ug/L	0.1	0.1	0.10	0.10	103	102	75-125	1	20	
Lithium	mg/L	ND	0.1	0.1	0.10	0.10	103	101	75-125	2	20	
Molybdenum	mg/L	ND	0.1	0.1	0.11	0.11	107	107	75-125	0	20	
Selenium	mg/L	ND	0.1	0.1	0.11	0.10	106	103	75-125	3	20	
Thallium	mg/L	ND	0.1	0.1	0.10	0.099	101	99	75-125	2	20	

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REPORT OF LABORATORY ANALYSIS

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(704)875-9092

QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92730250

QC Batch: 855047
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92730250001, 92730250002

METHOD BLANK: 4411728 Matrix: Water
Associated Lab Samples: 92730250001, 92730250002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	05/17/24 08:16	

LABORATORY CONTROL SAMPLE: 4411729

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0023	92	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4411730 4411731

Parameter	Units	92729900001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0022	0.0023	88	92	75-125	4	20	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92730250

QC Batch: 854348
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92730250001, 92730250002

METHOD BLANK: 4408261 Matrix: Water
Associated Lab Samples: 92730250001, 92730250002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	05/14/24 12:36	

LABORATORY CONTROL SAMPLE: 4408262

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	399	100	80-120	

SAMPLE DUPLICATE: 4408263

Parameter	Units	92730149001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	125	125	0	10	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92730250

QC Batch: 855114
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92730250001, 92730250002

METHOD BLANK: 4412185 Matrix: Water
Associated Lab Samples: 92730250001, 92730250002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	05/17/24 16:58	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	05/17/24 16:58	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	05/17/24 16:58	

LABORATORY CONTROL SAMPLE: 4412186

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.3	101	80-120	

LABORATORY CONTROL SAMPLE: 4412187

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	49.5	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4412190 4412191

Parameter	Units	92731061002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	71.7	50	50	124	122	104	101	80-120	1	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4414712 4414713

Parameter	Units	92729999001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	52.3	50	50	88.4	86.8	72	69	80-120	2	25	M1

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92730250

QC Batch: 853854
QC Batch Method: SM 4500-S2D-2011
Analysis Method: SM 4500-S2D-2011
Analysis Description: 4500S2D Sulfide Water
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92730250001, 92730250002

METHOD BLANK: 4406359 Matrix: Water
Associated Lab Samples: 92730250001, 92730250002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	0.022	05/11/24 01:56	

LABORATORY CONTROL SAMPLE: 4406360

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	0.49	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4406361 4406362

Parameter	Units	92729816001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.57	0.58	106	109	80-120	3	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4406363 4406364

Parameter	Units	92729816003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.54	0.54	106	107	80-120	1	10	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92730250

QC Batch: 854169
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92730250001, 92730250002

METHOD BLANK: 4407338 Matrix: Water
Associated Lab Samples: 92730250001, 92730250002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	05/13/24 18:31	
Fluoride	mg/L	ND	0.10	0.050	05/13/24 18:31	
Sulfate	mg/L	ND	1.0	0.50	05/13/24 18:31	

LABORATORY CONTROL SAMPLE: 4407339

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.5	99	90-110	
Fluoride	mg/L	2.5	2.4	95	90-110	
Sulfate	mg/L	50	49.6	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4407340 4407341

Parameter	Units	92730282001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	907	50	50	942	940	71	66	90-110	0	10	M1
Fluoride	mg/L	ND	2.5	2.5	ND	ND	0	0	90-110		10	D3,M1
Sulfate	mg/L	171	50	50	211	211	81	81	90-110	0	10	M1

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QUALIFIERS

Project: Hammond AP-1
Pace Project No.: 92730250

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
R1	RPD value was outside control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Hammond AP-1
Pace Project No.: 92730250

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92730250001	**HAM-PT-07**	EPA 3010A	853813	EPA 6010D	853829
92730250002	**HAM-PT-13**	EPA 3010A	853813	EPA 6010D	853829
92730250001	**HAM-PT-07**	EPA 3005A	853920	EPA 6020B	853946
92730250002	**HAM-PT-13**	EPA 3005A	853920	EPA 6020B	853946
92730250001	**HAM-PT-07**	EPA 7470A	855047	EPA 7470A	855155
92730250002	**HAM-PT-13**	EPA 7470A	855047	EPA 7470A	855155
92730250001	**HAM-PT-07**	SM 2540C-2015	854348		
92730250002	**HAM-PT-13**	SM 2540C-2015	854348		
92730250001	**HAM-PT-07**	SM 2320B-2011	855114		
92730250002	**HAM-PT-13**	SM 2320B-2011	855114		
92730250001	**HAM-PT-07**	SM 4500-S2D-2011	853854		
92730250002	**HAM-PT-13**	SM 4500-S2D-2011	853854		
92730250001	**HAM-PT-07**	EPA 300.0 Rev 2.1 1993	854169		
92730250002	**HAM-PT-13**	EPA 300.0 Rev 2.1 1993	854169		

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DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt

Effective Date: 12/01/2023

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Georgia Power

Project #: **WO# : 92730250**

92730250

Courier: ☐ Commercial ☐ Fed Ex ☑ Pace ☐ UPS ☐ USPS ☐ Other: ☐ Client

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No ☑ N/A

Date/Initials Person Examining Contents: 5/10/24 CH

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 083

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 2.1 Correction Factor: Add/Subtract (°C) +0.1

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 2.2

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☐ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☐ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix:	WT			
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

Field Data Required? ☐ Yes ☐ No

COMMENTS/SAMPLE DISCREPANCY

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

Qualtrax ID: 69614

WO#: 92730250

Project #

PM: BV Due Date: 05/24/24

CLIENT: 92- GP-HAM

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LL-Hg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG9A-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG6T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9W-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3B-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG8U-40 mL Amber Unpreserved vials (N/A)
1		2	1			1	1																						
2		2	1			1	1																						
3																													
4																													
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Pace Analytical
www.pacelabs.com

Page: 1 of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Geosyntec Contacts	Company Name:	
				Address:	
Email To:	SCS Contacts	Purchase Order No.:	GPC82474-0001	Pace Quote Reference:	
Phone:	Fax:	Project Name:	Hammond AP-1	Pace Project Manager:	Bonnie Vang
Requested Due Date/TAT:	5 day	Project Number:		Pace Profile #:	10839

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☑ OTHER GW

Site Location STATE: GA

Section D Required Client Information

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

SAMPLE ID
(A-Z, 0-9 / -)
Sample IDs MUST BE UNIQUE

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	COMPOSITE DATE	COMPOSITE TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	HAM-PT-07	WG	G	5/9/2024	1408			21	6	3		1					1		N N N N	N	
2	HAM-PT-13	WG	G	5/9/2024	1645			21	6	3		1					1		N N N N	N	
3																					
4						AS	5/9/2024														
5																					
6						AS	5/9/2024														
7																					
8																					
9																					
10																					
11																					
12																					

Analysis Test: Chloride, Fluoride, Sulfate; Full App. III and IV metals; Major Ions (Prisolve 10839-2); TDS

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Task Code: HAM-CCR-CA-20240529	Anthony Szwast / Geosyntec	5/10/24	1340	Ryan Williams / Pace	5/10/24	1340	
	Ryan Williams / Pace	5/10/24	1552	Rhonda Hendrix	5/10/24	1552	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Anthony Szwast / Geosyntec Consultants, Inc.

SIGNATURE of SAMPLER: Anthony Szwast DATE Signed (MM/DD/YY): 05/09/24

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Invoices are due 30 days from the date of invoice. By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-Feb-2007

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

June 17, 2024

Kristen Jurinko
Southern Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, GA 30308

RE: Project: Hammond AP-1
Pace Project No.: 92731696

Dear Kristen Jurinko:

Enclosed are the analytical results for sample(s) received by the laboratory on May 17, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Asheville
- Pace Analytical Services - Peachtree Corners, GA

Revision 1: Client requested that the lab re-check anions for HAM-AP1-FB-01 (Lab ID 92731696003) and HAM-AP1-FD-01 (lab ID 92731696005). The lab did a re-run for both samples and the results did not confirm the original. A revised report was issued.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Bonnie Vang

Bonnie Vang
bonnie.vang@pacelabs.com
704-977-0968
Project Manager

Enclosures

cc: Kip Gray, Geosyntec
Christine Hug, Geosyntec Consultants, Inc.
Thomas Kessler, Geosyntec Consultants
Whitney Law, Geosyntec Consultants
Laura Midkiff, Southern Company
Caroline Nelson, Geosyntec Consultants, Inc
Anthony Szwast, Geosyntec Consultants

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CERTIFICATIONS

Project: Hammond AP-1
Pace Project No.: 92731696

Pace Analytical Services Asheville
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Laboratory ID: 99030
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners
110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812
North Carolina Certification #: 381
South Carolina Certification #: 98011001
Virginia Certification #: 460204

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SAMPLE SUMMARY

Project: Hammond AP-1
Pace Project No.: 92731696

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92731696001	**HAM-AP1-EB-01**	Water	05/15/24 16:02	05/17/24 12:55
92731696002	**HAM-AP1-EB-02**	Water	05/15/24 16:20	05/17/24 12:55
92731696003	**HAM-AP1-FB-01**	Water	05/15/24 15:56	05/17/24 12:55
92731696004	**HAM-AP1-FB-02**	Water	05/15/24 17:19	05/17/24 12:55
92731696005	**HAM-AP1-FD-01**	Water	05/15/24 00:00	05/17/24 12:55
92731696006	**HAM-AP1-FD-02**	Water	05/15/24 00:00	05/17/24 12:55
92731696007	**HAM-INW-03**	Water	05/14/24 14:08	05/17/24 12:55
92731696008	**HAM-INW-04**	Water	05/15/24 14:20	05/17/24 12:55
92731696009	**HAM-INW-05**	Water	05/15/24 11:18	05/17/24 12:55
92731696010	**HAM-PT-07**	Water	05/16/24 12:16	05/17/24 12:55
92731696011	**HAM-PT-08**	Water	05/16/24 10:37	05/17/24 12:55
92731696012	**HAM-PT-09**	Water	05/14/24 10:40	05/17/24 12:55
92731696013	**HAM-PT-10**	Water	05/15/24 11:52	05/17/24 12:55
92731696014	**HAM-PT-11**	Water	05/14/24 15:20	05/17/24 12:55
92731696015	**HAM-PT-12**	Water	05/14/24 12:05	05/17/24 12:55
92731696016	**HAM-PT-13**	Water	05/15/24 18:45	05/17/24 12:55
92731696017	**HAM-PT-14**	Water	05/15/24 18:27	05/17/24 12:55
92731696018	**HAM-PT-15**	Water	05/15/24 16:10	05/17/24 12:55

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SAMPLE ANALYTE COUNT

Project: Hammond AP-1
Pace Project No.: 92731696

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92731696001	**HAM-AP1-EB-01**	EPA 6010D	AJM	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92731696002	**HAM-AP1-EB-02**	EPA 6010D	AJM	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92731696003	**HAM-AP1-FB-01**	EPA 6010D	AJM	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92731696004	**HAM-AP1-FB-02**	EPA 6010D	AJM	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92731696005	**HAM-AP1-FD-01**	EPA 6010D	AJM	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92731696006	**HAM-AP1-FD-02**	EPA 6010D	AJM	6
		EPA 6020B	CW1	13

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SAMPLE ANALYTE COUNT

Project: Hammond AP-1
Pace Project No.: 92731696

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92731696007	**HAM-INW-03**	EPA 6010D	AJM, DRB	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	MDW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92731696008	**HAM-INW-04**	EPA 6010D	AJM	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92731696009	**HAM-INW-05**	EPA 6010D	AJM	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92731696010	**HAM-PT-07**	EPA 6010D	AJM	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92731696011	**HAM-PT-08**	EPA 6010D	AJM	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1

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SAMPLE ANALYTE COUNT

Project: Hammond AP-1
Pace Project No.: 92731696

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92731696012	**HAM-PT-09**	EPA 6010D	AJM	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	MDW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92731696013	**HAM-PT-10**	EPA 6010D	AJM	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92731696014	**HAM-PT-11**	EPA 6010D	AJM	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	MDW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92731696015	**HAM-PT-12**	EPA 6010D	AJM	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	MDW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92731696016	**HAM-PT-13**	EPA 6010D	AJM	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1

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SAMPLE ANALYTE COUNT

Project: Hammond AP-1
Pace Project No.: 92731696

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 300.0 Rev 2.1 1993	CDC	3
92731696017	**HAM-PT-14**	EPA 6010D	AJM	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92731696018	**HAM-PT-15**	EPA 6010D	AJM, DRB	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3

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PASI-GA = Pace Analytical Services - Peachtree Corners, GA

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SUMMARY OF DETECTION

Project: Hammond AP-1
Pace Project No.: 92731696

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92731696002	**HAM-AP1-EB-02**					
EPA 6020B	Antimony	0.0013J	mg/L	0.0030	05/22/24 15:20	
92731696005	**HAM-AP1-FD-01**					
EPA 6010D	Iron	0.20	mg/L	0.040	05/23/24 01:21	
EPA 6010D	Manganese	0.70	mg/L	0.040	05/23/24 01:21	
EPA 6010D	Potassium	6.5	mg/L	0.50	05/23/24 01:21	
EPA 6010D	Sodium	8.9	mg/L	1.0	05/23/24 01:21	
EPA 6010D	Calcium	103	mg/L	1.0	05/23/24 01:21	
EPA 6010D	Magnesium	13.8	mg/L	0.050	05/23/24 01:21	
EPA 6020B	Barium	0.053	mg/L	0.0050	05/22/24 15:31	
EPA 6020B	Boron	1.5	mg/L	0.040	05/22/24 15:31	
EPA 6020B	Cobalt	0.0016J	mg/L	0.0050	05/22/24 15:31	
EPA 6020B	Molybdenum	0.090	mg/L	0.010	05/22/24 15:31	
EPA 6020B	Selenium	0.0011J	mg/L	0.0050	05/22/24 15:31	
SM 2540C-2015	Total Dissolved Solids	528	mg/L	25.0	05/20/24 12:18	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	131	mg/L	5.0	05/21/24 18:48	
SM 2320B-2011	Alkalinity, Total as CaCO3	131	mg/L	5.0	05/21/24 18:48	
EPA 300.0 Rev 2.1 1993	Chloride	49.1	mg/L	1.0	06/12/24 13:41	
EPA 300.0 Rev 2.1 1993	Fluoride	0.19	mg/L	0.10	06/12/24 13:41	
EPA 300.0 Rev 2.1 1993	Sulfate	149	mg/L	3.0	06/12/24 14:39	
92731696006	**HAM-AP1-FD-02**					
EPA 6010D	Iron	7.9	mg/L	0.040	05/23/24 01:24	
EPA 6010D	Manganese	4.6	mg/L	0.040	05/23/24 01:24	
EPA 6010D	Potassium	4.8	mg/L	0.50	05/23/24 01:24	
EPA 6010D	Sodium	6.9	mg/L	1.0	05/23/24 01:24	
EPA 6010D	Calcium	103	mg/L	1.0	05/23/24 01:24	
EPA 6010D	Magnesium	12.8	mg/L	0.050	05/23/24 01:24	
EPA 6020B	Arsenic	0.19	mg/L	0.0050	05/22/24 15:45	
EPA 6020B	Barium	0.042	mg/L	0.0050	05/22/24 15:45	
EPA 6020B	Boron	0.59	mg/L	0.040	05/22/24 15:45	
EPA 6020B	Cobalt	0.031	mg/L	0.0050	05/22/24 15:45	
EPA 6020B	Lithium	0.044	mg/L	0.030	05/22/24 15:45	
EPA 6020B	Molybdenum	0.014	mg/L	0.010	05/22/24 15:45	
SM 2540C-2015	Total Dissolved Solids	491	mg/L	25.0	05/20/24 12:18	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	138	mg/L	5.0	05/21/24 19:06	
SM 2320B-2011	Alkalinity, Total as CaCO3	138	mg/L	5.0	05/21/24 19:06	
EPA 300.0 Rev 2.1 1993	Chloride	10.1	mg/L	1.0	05/20/24 10:17	
EPA 300.0 Rev 2.1 1993	Fluoride	0.26	mg/L	0.10	05/20/24 10:17	
EPA 300.0 Rev 2.1 1993	Sulfate	189	mg/L	4.0	05/20/24 20:43	
92731696007	**HAM-INW-03**					
EPA 6010D	Sodium	12.4	mg/L	1.0	05/24/24 11:34	
EPA 6010D	Iron	0.11	mg/L	0.040	05/23/24 02:19	
EPA 6010D	Manganese	0.45	mg/L	0.040	05/23/24 02:19	
EPA 6010D	Potassium	13.8	mg/L	0.50	05/23/24 02:19	
EPA 6010D	Calcium	127	mg/L	1.0	05/23/24 02:19	
EPA 6010D	Magnesium	17.1	mg/L	0.050	05/23/24 02:19	
EPA 6020B	Barium	0.075	mg/L	0.0050	05/22/24 16:41	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Hammond AP-1
Pace Project No.: 92731696

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92731696007	**HAM-INW-03**					
EPA 6020B	Boron	1.5	mg/L	0.040	05/22/24 16:41	
EPA 6020B	Cobalt	0.00070J	mg/L	0.0050	05/22/24 16:41	
EPA 6020B	Lithium	0.0050J	mg/L	0.030	05/22/24 16:41	
EPA 6020B	Molybdenum	0.082	mg/L	0.010	05/22/24 16:41	
SM 2540C-2015	Total Dissolved Solids	564	mg/L	25.0	05/20/24 12:16	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	175	mg/L	5.0	05/21/24 16:31	
SM 2320B-2011	Alkalinity, Total as CaCO3	175	mg/L	5.0	05/21/24 16:31	M1
EPA 300.0 Rev 2.1 1993	Chloride	56.9	mg/L	1.0	05/21/24 00:39	M1
EPA 300.0 Rev 2.1 1993	Fluoride	0.20	mg/L	0.10	05/21/24 00:39	
EPA 300.0 Rev 2.1 1993	Sulfate	178	mg/L	4.0	05/21/24 08:01	
92731696008	**HAM-INW-04**					
EPA 6010D	Iron	8.4	mg/L	0.040	05/23/24 01:35	
EPA 6010D	Manganese	4.4	mg/L	0.040	05/23/24 01:35	
EPA 6010D	Potassium	4.8	mg/L	0.50	05/23/24 01:35	
EPA 6010D	Sodium	7.0	mg/L	1.0	05/23/24 01:35	
EPA 6010D	Calcium	107	mg/L	1.0	05/23/24 01:35	
EPA 6010D	Magnesium	13.1	mg/L	0.050	05/23/24 01:35	
EPA 6020B	Arsenic	0.19	mg/L	0.0050	05/22/24 15:49	
EPA 6020B	Barium	0.043	mg/L	0.0050	05/22/24 15:49	
EPA 6020B	Boron	0.59	mg/L	0.040	05/22/24 15:49	
EPA 6020B	Cobalt	0.031	mg/L	0.0050	05/22/24 15:49	
EPA 6020B	Lithium	0.043	mg/L	0.030	05/22/24 15:49	
EPA 6020B	Molybdenum	0.015	mg/L	0.010	05/22/24 15:49	
SM 2540C-2015	Total Dissolved Solids	483	mg/L	25.0	05/20/24 12:19	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	133	mg/L	5.0	05/21/24 19:16	
SM 2320B-2011	Alkalinity, Total as CaCO3	133	mg/L	5.0	05/21/24 19:16	
EPA 300.0 Rev 2.1 1993	Chloride	9.9	mg/L	1.0	05/21/24 01:48	
EPA 300.0 Rev 2.1 1993	Fluoride	0.28	mg/L	0.10	05/21/24 01:48	
EPA 300.0 Rev 2.1 1993	Sulfate	187	mg/L	4.0	05/21/24 08:42	
92731696009	**HAM-INW-05**					
EPA 6010D	Iron	16.9	mg/L	0.040	05/23/24 01:38	
EPA 6010D	Manganese	3.3	mg/L	0.040	05/23/24 01:38	
EPA 6010D	Potassium	4.7	mg/L	0.50	05/23/24 01:38	
EPA 6010D	Sodium	6.7	mg/L	1.0	05/23/24 01:38	
EPA 6010D	Calcium	101	mg/L	1.0	05/23/24 01:38	
EPA 6010D	Magnesium	11.8	mg/L	0.050	05/23/24 01:38	
EPA 6020B	Arsenic	0.23	mg/L	0.0050	05/22/24 15:53	
EPA 6020B	Barium	0.033	mg/L	0.0050	05/22/24 15:53	
EPA 6020B	Beryllium	0.00012J	mg/L	0.00050	05/22/24 15:53	
EPA 6020B	Boron	0.51	mg/L	0.040	05/22/24 15:53	
EPA 6020B	Cobalt	0.026	mg/L	0.0050	05/22/24 15:53	
EPA 6020B	Lithium	0.057	mg/L	0.030	05/22/24 15:53	
EPA 6020B	Molybdenum	0.0096J	mg/L	0.010	05/22/24 15:53	
SM 2540C-2015	Total Dissolved Solids	456	mg/L	25.0	05/20/24 12:20	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	123	mg/L	5.0	05/21/24 19:25	
SM 2320B-2011	Alkalinity, Total as CaCO3	123	mg/L	5.0	05/21/24 19:25	

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SUMMARY OF DETECTION

Project: Hammond AP-1
Pace Project No.: 92731696

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92731696009	**HAM-INW-05**					
EPA 300.0 Rev 2.1 1993	Chloride	6.9	mg/L	1.0	05/21/24 02:02	
EPA 300.0 Rev 2.1 1993	Fluoride	0.37	mg/L	0.10	05/21/24 02:02	
EPA 300.0 Rev 2.1 1993	Sulfate	181	mg/L	4.0	05/21/24 08:56	
92731696010	**HAM-PT-07**					
EPA 6010D	Iron	15.7	mg/L	0.040	05/23/24 01:41	
EPA 6010D	Manganese	3.4	mg/L	0.040	05/23/24 01:41	
EPA 6010D	Potassium	4.9	mg/L	0.50	05/23/24 01:41	
EPA 6010D	Sodium	7.0	mg/L	1.0	05/23/24 01:41	
EPA 6010D	Calcium	96.0	mg/L	1.0	05/23/24 01:41	
EPA 6010D	Magnesium	12.1	mg/L	0.050	05/23/24 01:41	
EPA 6020B	Arsenic	0.27	mg/L	0.0050	05/22/24 15:56	
EPA 6020B	Barium	0.034	mg/L	0.0050	05/22/24 15:56	
EPA 6020B	Boron	0.50	mg/L	0.040	05/22/24 15:56	
EPA 6020B	Cobalt	0.052	mg/L	0.0050	05/22/24 15:56	
EPA 6020B	Lithium	0.056	mg/L	0.030	05/22/24 15:56	
EPA 6020B	Molybdenum	0.0093J	mg/L	0.010	05/22/24 15:56	
SM 2540C-2015	Total Dissolved Solids	450	mg/L	25.0	05/20/24 12:22	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	116	mg/L	5.0	05/28/24 17:56	
SM 2320B-2011	Alkalinity, Total as CaCO3	116	mg/L	5.0	05/28/24 17:56	
EPA 300.0 Rev 2.1 1993	Chloride	10	mg/L	1.0	05/21/24 02:16	
EPA 300.0 Rev 2.1 1993	Fluoride	0.31	mg/L	0.10	05/21/24 02:16	
EPA 300.0 Rev 2.1 1993	Sulfate	171	mg/L	4.0	05/21/24 09:10	
92731696011	**HAM-PT-08**					
EPA 6010D	Iron	8.0	mg/L	0.040	05/23/24 01:45	
EPA 6010D	Manganese	3.3	mg/L	0.040	05/23/24 01:45	
EPA 6010D	Potassium	4.8	mg/L	0.50	05/23/24 01:45	
EPA 6010D	Sodium	7.2	mg/L	1.0	05/23/24 01:45	
EPA 6010D	Calcium	89.4	mg/L	1.0	05/23/24 01:45	
EPA 6010D	Magnesium	11.5	mg/L	0.050	05/23/24 01:45	
EPA 6020B	Arsenic	0.23	mg/L	0.0050	05/22/24 16:00	
EPA 6020B	Barium	0.041	mg/L	0.0050	05/22/24 16:00	
EPA 6020B	Boron	0.73	mg/L	0.040	05/22/24 16:00	
EPA 6020B	Cobalt	0.046	mg/L	0.0050	05/22/24 16:00	
EPA 6020B	Lead	0.0079	mg/L	0.0010	05/22/24 16:00	
EPA 6020B	Lithium	0.010J	mg/L	0.030	05/22/24 16:00	
EPA 6020B	Molybdenum	0.017	mg/L	0.010	05/22/24 16:00	
SM 2540C-2015	Total Dissolved Solids	410	mg/L	25.0	05/20/24 12:22	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	104	mg/L	5.0	05/28/24 18:06	
SM 2320B-2011	Alkalinity, Total as CaCO3	104	mg/L	5.0	05/28/24 18:06	
EPA 300.0 Rev 2.1 1993	Chloride	16.7	mg/L	1.0	05/21/24 20:59	
EPA 300.0 Rev 2.1 1993	Fluoride	0.19	mg/L	0.10	05/21/24 20:59	
EPA 300.0 Rev 2.1 1993	Sulfate	159	mg/L	4.0	05/22/24 07:35	
92731696012	**HAM-PT-09**					
EPA 6010D	Iron	0.42	mg/L	0.040	05/23/24 01:48	
EPA 6010D	Manganese	0.19	mg/L	0.040	05/23/24 01:48	
EPA 6010D	Potassium	6.1	mg/L	0.50	05/23/24 01:48	

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SUMMARY OF DETECTION

Project: Hammond AP-1
Pace Project No.: 92731696

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92731696012	**HAM-PT-09**					
EPA 6010D	Sodium	9.3	mg/L	1.0	05/23/24 01:48	
EPA 6010D	Calcium	82.8	mg/L	1.0	05/23/24 01:48	
EPA 6010D	Magnesium	23.7	mg/L	0.050	05/23/24 01:48	
EPA 6020B	Barium	0.058	mg/L	0.0050	05/22/24 16:04	
EPA 6020B	Boron	1.4	mg/L	0.040	05/22/24 16:04	
EPA 6020B	Cadmium	0.00015J	mg/L	0.00050	05/22/24 16:04	
EPA 6020B	Cobalt	0.0012J	mg/L	0.0050	05/22/24 16:04	
EPA 6020B	Lead	0.00017J	mg/L	0.0010	05/22/24 16:04	
EPA 6020B	Molybdenum	0.27	mg/L	0.010	05/22/24 16:04	
SM 2540C-2015	Total Dissolved Solids	436	mg/L	25.0	05/20/24 12:17	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	139	mg/L	5.0	05/21/24 17:10	
SM 2320B-2011	Alkalinity, Total as CaCO3	139	mg/L	5.0	05/21/24 17:10	M1
EPA 300.0 Rev 2.1 1993	Chloride	44.4	mg/L	1.0	05/21/24 02:29	
EPA 300.0 Rev 2.1 1993	Fluoride	0.37	mg/L	0.10	05/21/24 02:29	
EPA 300.0 Rev 2.1 1993	Sulfate	130	mg/L	3.0	05/21/24 10:07	M1
92731696013	**HAM-PT-10**					
EPA 6010D	Iron	0.24	mg/L	0.040	05/23/24 01:51	
EPA 6010D	Manganese	0.74	mg/L	0.040	05/23/24 01:51	
EPA 6010D	Potassium	6.7	mg/L	0.50	05/23/24 01:51	
EPA 6010D	Sodium	9.2	mg/L	1.0	05/23/24 01:51	
EPA 6010D	Calcium	108	mg/L	1.0	05/23/24 01:51	
EPA 6010D	Magnesium	14.3	mg/L	0.050	05/23/24 01:51	
EPA 6020B	Barium	0.054	mg/L	0.0050	05/22/24 16:07	
EPA 6020B	Boron	1.5	mg/L	0.040	05/22/24 16:07	
EPA 6020B	Cobalt	0.0016J	mg/L	0.0050	05/22/24 16:07	
EPA 6020B	Molybdenum	0.092	mg/L	0.010	05/22/24 16:07	
SM 2540C-2015	Total Dissolved Solids	503	mg/L	25.0	05/20/24 12:20	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	132	mg/L	5.0	05/21/24 19:35	
SM 2320B-2011	Alkalinity, Total as CaCO3	132	mg/L	5.0	05/21/24 19:35	
EPA 300.0 Rev 2.1 1993	Chloride	50.1	mg/L	1.0	05/21/24 03:11	
EPA 300.0 Rev 2.1 1993	Fluoride	0.22	mg/L	0.10	05/21/24 03:11	
EPA 300.0 Rev 2.1 1993	Sulfate	146	mg/L	3.0	05/21/24 10:48	
92731696014	**HAM-PT-11**					
EPA 6010D	Manganese	0.28	mg/L	0.040	05/23/24 01:55	
EPA 6010D	Potassium	6.0	mg/L	0.50	05/23/24 01:55	
EPA 6010D	Sodium	8.8	mg/L	1.0	05/23/24 01:55	
EPA 6010D	Calcium	90.9	mg/L	1.0	05/23/24 01:55	
EPA 6010D	Magnesium	16.2	mg/L	0.050	05/23/24 01:55	
EPA 6020B	Barium	0.057	mg/L	0.0050	05/22/24 16:11	
EPA 6020B	Boron	1.6	mg/L	0.040	05/22/24 16:11	
EPA 6020B	Cadmium	0.00013J	mg/L	0.00050	05/22/24 16:11	
EPA 6020B	Cobalt	0.0016J	mg/L	0.0050	05/22/24 16:11	
EPA 6020B	Molybdenum	0.24	mg/L	0.010	05/22/24 16:11	
SM 2540C-2015	Total Dissolved Solids	441	mg/L	25.0	05/20/24 12:17	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	125	mg/L	5.0	05/21/24 17:33	
SM 2320B-2011	Alkalinity, Total as CaCO3	125	mg/L	5.0	05/21/24 17:33	

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SUMMARY OF DETECTION

Project: Hammond AP-1
Pace Project No.: 92731696

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92731696014	**HAM-PT-11**					
EPA 300.0 Rev 2.1 1993	Chloride	41.4	mg/L	1.0	05/21/24 03:25	
EPA 300.0 Rev 2.1 1993	Fluoride	0.34	mg/L	0.10	05/21/24 03:25	
EPA 300.0 Rev 2.1 1993	Sulfate	122	mg/L	3.0	05/21/24 11:03	
92731696015	**HAM-PT-12**					
EPA 6010D	Iron	0.33	mg/L	0.040	05/23/24 01:59	
EPA 6010D	Manganese	1.0	mg/L	0.040	05/23/24 01:59	
EPA 6010D	Potassium	6.8	mg/L	0.50	05/23/24 01:59	
EPA 6010D	Sodium	11.8	mg/L	1.0	05/23/24 01:59	
EPA 6010D	Calcium	99.7	mg/L	1.0	05/23/24 01:59	
EPA 6010D	Magnesium	16.6	mg/L	0.050	05/23/24 01:59	
EPA 6020B	Barium	0.069	mg/L	0.0050	05/22/24 16:15	
EPA 6020B	Boron	1.6	mg/L	0.040	05/22/24 16:15	
EPA 6020B	Cadmium	0.00014J	mg/L	0.00050	05/22/24 16:15	
EPA 6020B	Cobalt	0.0044J	mg/L	0.0050	05/22/24 16:15	
EPA 6020B	Lead	0.00017J	mg/L	0.0010	05/22/24 16:15	
EPA 6020B	Molybdenum	0.085	mg/L	0.010	05/22/24 16:15	
SM 2540C-2015	Total Dissolved Solids	523	mg/L	25.0	05/20/24 12:17	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	129	mg/L	5.0	05/21/24 17:51	
SM 2320B-2011	Alkalinity, Total as CaCO3	129	mg/L	5.0	05/21/24 17:51	
EPA 300.0 Rev 2.1 1993	Chloride	50.3	mg/L	1.0	05/21/24 03:38	
EPA 300.0 Rev 2.1 1993	Fluoride	0.20	mg/L	0.10	05/21/24 03:38	
EPA 300.0 Rev 2.1 1993	Sulfate	125	mg/L	3.0	05/21/24 11:17	
92731696016	**HAM-PT-13**					
EPA 6010D	Iron	15.0	mg/L	0.040	05/23/24 02:02	
EPA 6010D	Manganese	3.6	mg/L	0.040	05/23/24 02:02	
EPA 6010D	Potassium	5.0	mg/L	0.50	05/23/24 02:02	
EPA 6010D	Sodium	7.8	mg/L	1.0	05/23/24 02:02	
EPA 6010D	Calcium	99.2	mg/L	1.0	05/23/24 02:02	
EPA 6010D	Magnesium	12.0	mg/L	0.050	05/23/24 02:02	
EPA 6020B	Arsenic	0.29	mg/L	0.0050	05/22/24 16:19	
EPA 6020B	Barium	0.033	mg/L	0.0050	05/22/24 16:19	
EPA 6020B	Boron	0.52	mg/L	0.040	05/22/24 16:19	
EPA 6020B	Cobalt	0.024	mg/L	0.0050	05/22/24 16:19	
EPA 6020B	Lithium	0.058	mg/L	0.030	05/22/24 16:19	
EPA 6020B	Molybdenum	0.0087J	mg/L	0.010	05/22/24 16:19	
SM 2540C-2015	Total Dissolved Solids	459	mg/L	25.0	05/20/24 12:21	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	111	mg/L	5.0	05/21/24 19:44	
SM 2320B-2011	Alkalinity, Total as CaCO3	111	mg/L	5.0	05/21/24 19:44	
EPA 300.0 Rev 2.1 1993	Chloride	9.5	mg/L	1.0	05/21/24 04:20	
EPA 300.0 Rev 2.1 1993	Fluoride	0.34	mg/L	0.10	05/21/24 04:20	
EPA 300.0 Rev 2.1 1993	Sulfate	190	mg/L	4.0	05/21/24 11:31	
92731696017	**HAM-PT-14**					
EPA 6010D	Iron	14.9	mg/L	0.040	05/23/24 02:05	
EPA 6010D	Manganese	3.1	mg/L	0.040	05/23/24 02:05	
EPA 6010D	Potassium	5.0	mg/L	0.50	05/23/24 02:05	
EPA 6010D	Sodium	6.7	mg/L	1.0	05/23/24 02:05	

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SUMMARY OF DETECTION

Project: Hammond AP-1
Pace Project No.: 92731696

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92731696017	**HAM-PT-14**					
EPA 6010D	Calcium	97.4	mg/L	1.0	05/23/24 02:05	
EPA 6010D	Magnesium	12.7	mg/L	0.050	05/23/24 02:05	
EPA 6020B	Arsenic	0.21	mg/L	0.0050	05/22/24 16:33	
EPA 6020B	Barium	0.038	mg/L	0.0050	05/22/24 16:33	
EPA 6020B	Beryllium	0.00016J	mg/L	0.00050	05/22/24 16:33	
EPA 6020B	Boron	0.51	mg/L	0.040	05/22/24 16:33	
EPA 6020B	Cobalt	0.020	mg/L	0.0050	05/22/24 16:33	
EPA 6020B	Lead	0.00046J	mg/L	0.0010	05/22/24 16:33	
EPA 6020B	Lithium	0.051	mg/L	0.030	05/22/24 16:33	
EPA 6020B	Molybdenum	0.011	mg/L	0.010	05/22/24 16:33	
SM 2540C-2015	Total Dissolved Solids	461	mg/L	25.0	05/20/24 12:21	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	121	mg/L	5.0	05/21/24 19:53	
SM 2320B-2011	Alkalinity, Total as CaCO3	121	mg/L	5.0	05/21/24 19:53	
EPA 300.0 Rev 2.1 1993	Chloride	10.5	mg/L	1.0	05/21/24 04:34	
EPA 300.0 Rev 2.1 1993	Fluoride	0.26	mg/L	0.10	05/21/24 04:34	
EPA 300.0 Rev 2.1 1993	Sulfate	175	mg/L	4.0	05/21/24 11:44	
92731696018	**HAM-PT-15**					
EPA 6010D	Sodium	8.1	mg/L	1.0	05/24/24 11:31	
EPA 6010D	Iron	9.2	mg/L	0.040	05/23/24 02:16	
EPA 6010D	Manganese	5.7	mg/L	0.040	05/23/24 02:16	
EPA 6010D	Potassium	5.3	mg/L	0.50	05/23/24 02:16	
EPA 6010D	Calcium	141	mg/L	1.0	05/23/24 02:16	
EPA 6010D	Magnesium	16.1	mg/L	0.050	05/23/24 02:16	
EPA 6020B	Arsenic	0.39	mg/L	0.0050	05/22/24 16:37	
EPA 6020B	Barium	0.043	mg/L	0.0050	05/22/24 16:37	
EPA 6020B	Boron	0.76	mg/L	0.040	05/22/24 16:37	
EPA 6020B	Cobalt	0.059	mg/L	0.0050	05/22/24 16:37	
EPA 6020B	Lithium	0.047	mg/L	0.030	05/22/24 16:37	
EPA 6020B	Molybdenum	0.021	mg/L	0.010	05/22/24 16:37	
SM 2540C-2015	Total Dissolved Solids	639	mg/L	25.0	05/20/24 12:22	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	134	mg/L	5.0	05/21/24 20:02	
SM 2320B-2011	Alkalinity, Total as CaCO3	134	mg/L	5.0	05/21/24 20:02	
EPA 300.0 Rev 2.1 1993	Chloride	12.6	mg/L	1.0	05/21/24 04:48	
EPA 300.0 Rev 2.1 1993	Fluoride	0.35	mg/L	0.10	05/21/24 04:48	
EPA 300.0 Rev 2.1 1993	Sulfate	271	mg/L	6.0	05/21/24 11:58	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92731696

Sample: HAM-AP1-EB-01 **Lab ID: 92731696001** Collected: 05/15/24 16:02 Received: 05/17/24 12:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	05/18/24 14:09	05/23/24 00:56	7439-89-6	
Manganese	ND	mg/L	0.040	0.011	1	05/18/24 14:09	05/23/24 00:56	7439-96-5	
Potassium	ND	mg/L	0.50	0.15	1	05/18/24 14:09	05/23/24 00:56	7440-09-7	
Sodium	ND	mg/L	1.0	0.58	1	05/18/24 14:09	05/23/24 00:56	7440-23-5	
Calcium	ND	mg/L	1.0	0.12	1	05/18/24 14:09	05/23/24 00:56	7440-70-2	
Magnesium	ND	mg/L	0.050	0.012	1	05/18/24 14:09	05/23/24 00:56	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	05/18/24 14:00	05/22/24 15:05	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	05/18/24 14:00	05/22/24 15:05	7440-38-2	
Barium	ND	mg/L	0.0050	0.00047	1	05/18/24 14:00	05/22/24 15:05	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	05/18/24 14:00	05/22/24 15:05	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	05/18/24 14:00	05/22/24 15:05	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	05/18/24 14:00	05/22/24 15:05	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	05/18/24 14:00	05/22/24 15:05	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	05/18/24 14:00	05/22/24 15:05	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	05/18/24 14:00	05/22/24 15:05	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	05/18/24 14:00	05/22/24 15:05	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	05/18/24 14:00	05/22/24 15:05	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	05/18/24 14:00	05/22/24 15:05	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	05/18/24 14:00	05/22/24 15:05	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	05/24/24 08:30	05/24/24 12:35	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		05/20/24 12:17		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		05/21/24 18:33		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		05/21/24 18:33		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		05/21/24 18:33		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		05/22/24 05:09	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		05/20/24 01:22	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92731696

Sample: HAM-AP1-EB-01 **Lab ID: 92731696001** Collected: 05/15/24 16:02 Received: 05/17/24 12:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	ND	mg/L	0.10	0.050	1		05/20/24 01:22	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		05/20/24 01:22	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92731696

Sample: HAM-AP1-EB-02 **Lab ID: 92731696002** Collected: 05/15/24 16:20 Received: 05/17/24 12:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	05/18/24 14:09	05/23/24 01:09	7439-89-6	
Manganese	ND	mg/L	0.040	0.011	1	05/18/24 14:09	05/23/24 01:09	7439-96-5	
Potassium	ND	mg/L	0.50	0.15	1	05/18/24 14:09	05/23/24 01:09	7440-09-7	
Sodium	ND	mg/L	1.0	0.58	1	05/18/24 14:09	05/23/24 01:09	7440-23-5	
Calcium	ND	mg/L	1.0	0.12	1	05/18/24 14:09	05/23/24 01:09	7440-70-2	
Magnesium	ND	mg/L	0.050	0.012	1	05/18/24 14:09	05/23/24 01:09	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.0013J**	mg/L	0.0030	0.00054	1	05/18/24 14:00	05/22/24 15:20	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	05/18/24 14:00	05/22/24 15:20	7440-38-2	
Barium	ND	mg/L	0.0050	0.00047	1	05/18/24 14:00	05/22/24 15:20	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	05/18/24 14:00	05/22/24 15:20	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	05/18/24 14:00	05/22/24 15:20	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	05/18/24 14:00	05/22/24 15:20	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	05/18/24 14:00	05/22/24 15:20	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	05/18/24 14:00	05/22/24 15:20	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	05/18/24 14:00	05/22/24 15:20	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	05/18/24 14:00	05/22/24 15:20	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	05/18/24 14:00	05/22/24 15:20	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	05/18/24 14:00	05/22/24 15:20	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	05/18/24 14:00	05/22/24 15:20	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	05/24/24 08:30	05/24/24 12:38	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		05/20/24 12:18		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		05/21/24 18:37		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		05/21/24 18:37		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		05/21/24 18:37		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		05/22/24 05:19	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		05/20/24 01:37	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92731696

Sample: HAM-AP1-EB-02 **Lab ID: 92731696002** Collected: 05/15/24 16:20 Received: 05/17/24 12:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	ND	mg/L	0.10	0.050	1		05/20/24 01:37	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		05/20/24 01:37	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92731696

Sample: HAM-AP1-FB-01 **Lab ID: 92731696003** Collected: 05/15/24 15:56 Received: 05/17/24 12:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	05/18/24 14:09	05/23/24 01:13	7439-89-6	
Manganese	ND	mg/L	0.040	0.011	1	05/18/24 14:09	05/23/24 01:13	7439-96-5	
Potassium	ND	mg/L	0.50	0.15	1	05/18/24 14:09	05/23/24 01:13	7440-09-7	
Sodium	ND	mg/L	1.0	0.58	1	05/18/24 14:09	05/23/24 01:13	7440-23-5	
Calcium	ND	mg/L	1.0	0.12	1	05/18/24 14:09	05/23/24 01:13	7440-70-2	
Magnesium	ND	mg/L	0.050	0.012	1	05/18/24 14:09	05/23/24 01:13	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	05/18/24 14:00	05/22/24 15:24	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	05/18/24 14:00	05/22/24 15:24	7440-38-2	
Barium	ND	mg/L	0.0050	0.00047	1	05/18/24 14:00	05/22/24 15:24	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	05/18/24 14:00	05/22/24 15:24	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	05/18/24 14:00	05/22/24 15:24	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	05/18/24 14:00	05/22/24 15:24	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	05/18/24 14:00	05/22/24 15:24	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	05/18/24 14:00	05/22/24 15:24	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	05/18/24 14:00	05/22/24 15:24	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	05/18/24 14:00	05/22/24 15:24	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	05/18/24 14:00	05/22/24 15:24	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	05/18/24 14:00	05/22/24 15:24	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	05/18/24 14:00	05/22/24 15:24	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	05/24/24 08:30	05/24/24 12:48	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		05/20/24 12:18		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		05/21/24 18:41		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		05/21/24 18:41		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		05/21/24 18:41		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		05/22/24 05:10	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		06/12/24 13:26	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92731696

Sample: HAM-AP1-FB-01 **Lab ID: 92731696003** Collected: 05/15/24 15:56 Received: 05/17/24 12:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	ND	mg/L	0.10	0.050	1		06/12/24 13:26	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		06/12/24 13:26	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92731696

Sample: HAM-AP1-FB-02 **Lab ID: 92731696004** Collected: 05/15/24 17:19 Received: 05/17/24 12:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	05/18/24 14:09	05/23/24 01:17	7439-89-6	
Manganese	ND	mg/L	0.040	0.011	1	05/18/24 14:09	05/23/24 01:17	7439-96-5	
Potassium	ND	mg/L	0.50	0.15	1	05/18/24 14:09	05/23/24 01:17	7440-09-7	
Sodium	ND	mg/L	1.0	0.58	1	05/18/24 14:09	05/23/24 01:17	7440-23-5	
Calcium	ND	mg/L	1.0	0.12	1	05/18/24 14:09	05/23/24 01:17	7440-70-2	
Magnesium	ND	mg/L	0.050	0.012	1	05/18/24 14:09	05/23/24 01:17	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	05/18/24 14:00	05/22/24 15:28	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	05/18/24 14:00	05/22/24 15:28	7440-38-2	
Barium	ND	mg/L	0.0050	0.00047	1	05/18/24 14:00	05/22/24 15:28	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	05/18/24 14:00	05/22/24 15:28	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	05/18/24 14:00	05/22/24 15:28	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	05/18/24 14:00	05/22/24 15:28	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	05/18/24 14:00	05/22/24 15:28	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	05/18/24 14:00	05/22/24 15:28	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	05/18/24 14:00	05/22/24 15:28	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	05/18/24 14:00	05/22/24 15:28	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	05/18/24 14:00	05/22/24 15:28	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	05/18/24 14:00	05/22/24 15:28	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	05/18/24 14:00	05/22/24 15:28	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	05/24/24 08:30	05/24/24 12:56	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		05/20/24 12:18		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		05/21/24 18:44		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		05/21/24 18:44		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		05/21/24 18:44		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		05/22/24 05:11	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		05/20/24 02:56	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92731696

Sample: HAM-AP1-FB-02 **Lab ID: 92731696004** Collected: 05/15/24 17:19 Received: 05/17/24 12:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	ND	mg/L	0.10	0.050	1		05/20/24 02:56	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		05/20/24 02:56	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92731696

Sample: HAM-AP1-FD-01 **Lab ID: 92731696005** Collected: 05/15/24 00:00 Received: 05/17/24 12:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.20**	mg/L	0.040	0.025	1	05/18/24 14:09	05/23/24 01:21	7439-89-6	
Manganese	**0.70**	mg/L	0.040	0.011	1	05/18/24 14:09	05/23/24 01:21	7439-96-5	
Potassium	**6.5**	mg/L	0.50	0.15	1	05/18/24 14:09	05/23/24 01:21	7440-09-7	
Sodium	**8.9**	mg/L	1.0	0.58	1	05/18/24 14:09	05/23/24 01:21	7440-23-5	
Calcium	**103**	mg/L	1.0	0.12	1	05/18/24 14:09	05/23/24 01:21	7440-70-2	
Magnesium	**13.8**	mg/L	0.050	0.012	1	05/18/24 14:09	05/23/24 01:21	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	05/18/24 14:00	05/22/24 15:31	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	05/18/24 14:00	05/22/24 15:31	7440-38-2	
Barium	**0.053**	mg/L	0.0050	0.00047	1	05/18/24 14:00	05/22/24 15:31	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	05/18/24 14:00	05/22/24 15:31	7440-41-7	
Boron	**1.5**	mg/L	0.040	0.012	1	05/18/24 14:00	05/22/24 15:31	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	05/18/24 14:00	05/22/24 15:31	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	05/18/24 14:00	05/22/24 15:31	7440-47-3	
Cobalt	**0.0016J**	mg/L	0.0050	0.00032	1	05/18/24 14:00	05/22/24 15:31	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	05/18/24 14:00	05/22/24 15:31	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	05/18/24 14:00	05/22/24 15:31	7439-93-2	
Molybdenum	**0.090**	mg/L	0.010	0.00062	1	05/18/24 14:00	05/22/24 15:31	7439-98-7	
Selenium	**0.0011J**	mg/L	0.0050	0.00096	1	05/18/24 14:00	05/22/24 15:31	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	05/18/24 14:00	05/22/24 15:31	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	05/24/24 08:30	05/24/24 12:59	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**528**	mg/L	25.0	25.0	1		05/20/24 12:18		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**131**	mg/L	5.0	5.0	1		05/21/24 18:48		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		05/21/24 18:48		
Alkalinity, Total as CaCO3	**131**	mg/L	5.0	5.0	1		05/21/24 18:48		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		05/22/24 05:12	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**49.1**	mg/L	1.0	0.60	1		06/12/24 13:41	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92731696

Sample: HAM-AP1-FD-01 **Lab ID: 92731696005** Collected: 05/15/24 00:00 Received: 05/17/24 12:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.19**	mg/L	0.10	0.050	1		06/12/24 13:41	16984-48-8	
Sulfate	**149**	mg/L	3.0	1.5	3		06/12/24 14:39	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92731696

Sample: HAM-AP1-FD-02 **Lab ID: 92731696006** Collected: 05/15/24 00:00 Received: 05/17/24 12:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**7.9**	mg/L	0.040	0.025	1	05/18/24 14:09	05/23/24 01:24	7439-89-6	
Manganese	**4.6**	mg/L	0.040	0.011	1	05/18/24 14:09	05/23/24 01:24	7439-96-5	
Potassium	**4.8**	mg/L	0.50	0.15	1	05/18/24 14:09	05/23/24 01:24	7440-09-7	
Sodium	**6.9**	mg/L	1.0	0.58	1	05/18/24 14:09	05/23/24 01:24	7440-23-5	
Calcium	**103**	mg/L	1.0	0.12	1	05/18/24 14:09	05/23/24 01:24	7440-70-2	
Magnesium	**12.8**	mg/L	0.050	0.012	1	05/18/24 14:09	05/23/24 01:24	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	05/18/24 14:00	05/22/24 15:45	7440-36-0	
Arsenic	**0.19**	mg/L	0.0050	0.00084	1	05/18/24 14:00	05/22/24 15:45	7440-38-2	
Barium	**0.042**	mg/L	0.0050	0.00047	1	05/18/24 14:00	05/22/24 15:45	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	05/18/24 14:00	05/22/24 15:45	7440-41-7	
Boron	**0.59**	mg/L	0.040	0.012	1	05/18/24 14:00	05/22/24 15:45	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	05/18/24 14:00	05/22/24 15:45	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	05/18/24 14:00	05/22/24 15:45	7440-47-3	
Cobalt	**0.031**	mg/L	0.0050	0.00032	1	05/18/24 14:00	05/22/24 15:45	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	05/18/24 14:00	05/22/24 15:45	7439-92-1	
Lithium	**0.044**	mg/L	0.030	0.0016	1	05/18/24 14:00	05/22/24 15:45	7439-93-2	
Molybdenum	**0.014**	mg/L	0.010	0.00062	1	05/18/24 14:00	05/22/24 15:45	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	05/18/24 14:00	05/22/24 15:45	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	05/18/24 14:00	05/22/24 15:45	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	05/24/24 08:30	05/24/24 13:01	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**491**	mg/L	25.0	25.0	1		05/20/24 12:18		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**138**	mg/L	5.0	5.0	1		05/21/24 19:06		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		05/21/24 19:06		
Alkalinity, Total as CaCO3	**138**	mg/L	5.0	5.0	1		05/21/24 19:06		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		05/22/24 05:12	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**10.1**	mg/L	1.0	0.60	1		05/20/24 10:17	16887-00-6	

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(704)875-9092

ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92731696

Sample: HAM-AP1-FD-02 **Lab ID: 92731696006** Collected: 05/15/24 00:00 Received: 05/17/24 12:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.26**	mg/L	0.10	0.050	1		05/20/24 10:17	16984-48-8	
Sulfate	**189**	mg/L	4.0	2.0	4		05/20/24 20:43	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92731696

Sample: HAM-INW-03 **Lab ID: 92731696007** Collected: 05/14/24 14:08 Received: 05/17/24 12:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Sodium	**12.4**	mg/L	1.0	0.58	1	05/18/24 14:09	05/24/24 11:34	7440-23-5	
Iron	**0.11**	mg/L	0.040	0.025	1	05/18/24 14:09	05/23/24 02:19	7439-89-6	
Manganese	**0.45**	mg/L	0.040	0.011	1	05/18/24 14:09	05/23/24 02:19	7439-96-5	
Potassium	**13.8**	mg/L	0.50	0.15	1	05/18/24 14:09	05/23/24 02:19	7440-09-7	
Calcium	**127**	mg/L	1.0	0.12	1	05/18/24 14:09	05/23/24 02:19	7440-70-2	
Magnesium	**17.1**	mg/L	0.050	0.012	1	05/18/24 14:09	05/23/24 02:19	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	05/18/24 14:00	05/22/24 16:41	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	05/18/24 14:00	05/22/24 16:41	7440-38-2	
Barium	**0.075**	mg/L	0.0050	0.00047	1	05/18/24 14:00	05/22/24 16:41	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	05/18/24 14:00	05/22/24 16:41	7440-41-7	
Boron	**1.5**	mg/L	0.040	0.012	1	05/18/24 14:00	05/22/24 16:41	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	05/18/24 14:00	05/22/24 16:41	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	05/18/24 14:00	05/22/24 16:41	7440-47-3	
Cobalt	**0.00070J**	mg/L	0.0050	0.00032	1	05/18/24 14:00	05/22/24 16:41	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	05/18/24 14:00	05/22/24 16:41	7439-92-1	
Lithium	**0.0050J**	mg/L	0.030	0.0016	1	05/18/24 14:00	05/22/24 16:41	7439-93-2	
Molybdenum	**0.082**	mg/L	0.010	0.00062	1	05/18/24 14:00	05/22/24 16:41	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	05/18/24 14:00	05/22/24 16:41	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	05/18/24 14:00	05/22/24 16:41	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	05/24/24 08:30	05/24/24 13:04	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**564**	mg/L	25.0	25.0	1		05/20/24 12:16		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**175**	mg/L	5.0	5.0	1		05/21/24 16:31		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		05/21/24 16:31		
Alkalinity, Total as CaCO3	**175**	mg/L	5.0	5.0	1		05/21/24 16:31		M1
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		05/20/24 23:45	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**56.9**	mg/L	1.0	0.60	1		05/21/24 00:39	16887-00-6	M1

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92731696

Sample: HAM-INW-03 **Lab ID: 92731696007** Collected: 05/14/24 14:08 Received: 05/17/24 12:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.20**	mg/L	0.10	0.050	1		05/21/24 00:39	16984-48-8	
Sulfate	**178**	mg/L	4.0	2.0	4		05/21/24 08:01	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92731696

Sample: HAM-INW-04 **Lab ID: 92731696008** Collected: 05/15/24 14:20 Received: 05/17/24 12:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**8.4**	mg/L	0.040	0.025	1	05/18/24 14:09	05/23/24 01:35	7439-89-6	
Manganese	**4.4**	mg/L	0.040	0.011	1	05/18/24 14:09	05/23/24 01:35	7439-96-5	
Potassium	**4.8**	mg/L	0.50	0.15	1	05/18/24 14:09	05/23/24 01:35	7440-09-7	
Sodium	**7.0**	mg/L	1.0	0.58	1	05/18/24 14:09	05/23/24 01:35	7440-23-5	
Calcium	**107**	mg/L	1.0	0.12	1	05/18/24 14:09	05/23/24 01:35	7440-70-2	
Magnesium	**13.1**	mg/L	0.050	0.012	1	05/18/24 14:09	05/23/24 01:35	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	05/18/24 14:00	05/22/24 15:49	7440-36-0	
Arsenic	**0.19**	mg/L	0.0050	0.00084	1	05/18/24 14:00	05/22/24 15:49	7440-38-2	
Barium	**0.043**	mg/L	0.0050	0.00047	1	05/18/24 14:00	05/22/24 15:49	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	05/18/24 14:00	05/22/24 15:49	7440-41-7	
Boron	**0.59**	mg/L	0.040	0.012	1	05/18/24 14:00	05/22/24 15:49	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	05/18/24 14:00	05/22/24 15:49	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	05/18/24 14:00	05/22/24 15:49	7440-47-3	
Cobalt	**0.031**	mg/L	0.0050	0.00032	1	05/18/24 14:00	05/22/24 15:49	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	05/18/24 14:00	05/22/24 15:49	7439-92-1	
Lithium	**0.043**	mg/L	0.030	0.0016	1	05/18/24 14:00	05/22/24 15:49	7439-93-2	
Molybdenum	**0.015**	mg/L	0.010	0.00062	1	05/18/24 14:00	05/22/24 15:49	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	05/18/24 14:00	05/22/24 15:49	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	05/18/24 14:00	05/22/24 15:49	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	05/24/24 08:30	05/24/24 13:07	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**483**	mg/L	25.0	25.0	1		05/20/24 12:19		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**133**	mg/L	5.0	5.0	1		05/21/24 19:16		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		05/21/24 19:16		
Alkalinity, Total as CaCO3	**133**	mg/L	5.0	5.0	1		05/21/24 19:16		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		05/22/24 05:13	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**9.9**	mg/L	1.0	0.60	1		05/21/24 01:48	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92731696

Sample: HAM-INW-04 **Lab ID: 92731696008** Collected: 05/15/24 14:20 Received: 05/17/24 12:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.28**	mg/L	0.10	0.050	1		05/21/24 01:48	16984-48-8	
Sulfate	**187**	mg/L	4.0	2.0	4		05/21/24 08:42	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92731696

Sample: HAM-INW-05 **Lab ID: 92731696009** Collected: 05/15/24 11:18 Received: 05/17/24 12:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**16.9**	mg/L	0.040	0.025	1	05/18/24 14:09	05/23/24 01:38	7439-89-6	
Manganese	**3.3**	mg/L	0.040	0.011	1	05/18/24 14:09	05/23/24 01:38	7439-96-5	
Potassium	**4.7**	mg/L	0.50	0.15	1	05/18/24 14:09	05/23/24 01:38	7440-09-7	
Sodium	**6.7**	mg/L	1.0	0.58	1	05/18/24 14:09	05/23/24 01:38	7440-23-5	
Calcium	**101**	mg/L	1.0	0.12	1	05/18/24 14:09	05/23/24 01:38	7440-70-2	
Magnesium	**11.8**	mg/L	0.050	0.012	1	05/18/24 14:09	05/23/24 01:38	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	05/18/24 14:00	05/22/24 15:53	7440-36-0	
Arsenic	**0.23**	mg/L	0.0050	0.00084	1	05/18/24 14:00	05/22/24 15:53	7440-38-2	
Barium	**0.033**	mg/L	0.0050	0.00047	1	05/18/24 14:00	05/22/24 15:53	7440-39-3	
Beryllium	**0.00012J**	mg/L	0.00050	0.000094	1	05/18/24 14:00	05/22/24 15:53	7440-41-7	
Boron	**0.51**	mg/L	0.040	0.012	1	05/18/24 14:00	05/22/24 15:53	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	05/18/24 14:00	05/22/24 15:53	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	05/18/24 14:00	05/22/24 15:53	7440-47-3	
Cobalt	**0.026**	mg/L	0.0050	0.00032	1	05/18/24 14:00	05/22/24 15:53	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	05/18/24 14:00	05/22/24 15:53	7439-92-1	
Lithium	**0.057**	mg/L	0.030	0.0016	1	05/18/24 14:00	05/22/24 15:53	7439-93-2	
Molybdenum	**0.0096J**	mg/L	0.010	0.00062	1	05/18/24 14:00	05/22/24 15:53	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	05/18/24 14:00	05/22/24 15:53	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	05/18/24 14:00	05/22/24 15:53	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	05/24/24 08:30	05/24/24 13:09	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**456**	mg/L	25.0	25.0	1		05/20/24 12:20		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**123**	mg/L	5.0	5.0	1		05/21/24 19:25		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		05/21/24 19:25		
Alkalinity, Total as CaCO3	**123**	mg/L	5.0	5.0	1		05/21/24 19:25		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		05/22/24 05:13	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**6.9**	mg/L	1.0	0.60	1		05/21/24 02:02	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92731696

Sample: HAM-INW-05 **Lab ID: 92731696009** Collected: 05/15/24 11:18 Received: 05/17/24 12:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.37**	mg/L	0.10	0.050	1		05/21/24 02:02	16984-48-8	
Sulfate	**181**	mg/L	4.0	2.0	4		05/21/24 08:56	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92731696

Sample: HAM-PT-07 **Lab ID: 92731696010** Collected: 05/16/24 12:16 Received: 05/17/24 12:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**15.7**	mg/L	0.040	0.025	1	05/18/24 14:09	05/23/24 01:41	7439-89-6	
Manganese	**3.4**	mg/L	0.040	0.011	1	05/18/24 14:09	05/23/24 01:41	7439-96-5	
Potassium	**4.9**	mg/L	0.50	0.15	1	05/18/24 14:09	05/23/24 01:41	7440-09-7	
Sodium	**7.0**	mg/L	1.0	0.58	1	05/18/24 14:09	05/23/24 01:41	7440-23-5	
Calcium	**96.0**	mg/L	1.0	0.12	1	05/18/24 14:09	05/23/24 01:41	7440-70-2	
Magnesium	**12.1**	mg/L	0.050	0.012	1	05/18/24 14:09	05/23/24 01:41	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	05/18/24 14:00	05/22/24 15:56	7440-36-0	
Arsenic	**0.27**	mg/L	0.0050	0.00084	1	05/18/24 14:00	05/22/24 15:56	7440-38-2	
Barium	**0.034**	mg/L	0.0050	0.00047	1	05/18/24 14:00	05/22/24 15:56	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	05/18/24 14:00	05/22/24 15:56	7440-41-7	
Boron	**0.50**	mg/L	0.040	0.012	1	05/18/24 14:00	05/22/24 15:56	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	05/18/24 14:00	05/22/24 15:56	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	05/18/24 14:00	05/22/24 15:56	7440-47-3	
Cobalt	**0.052**	mg/L	0.0050	0.00032	1	05/18/24 14:00	05/22/24 15:56	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	05/18/24 14:00	05/22/24 15:56	7439-92-1	
Lithium	**0.056**	mg/L	0.030	0.0016	1	05/18/24 14:00	05/22/24 15:56	7439-93-2	
Molybdenum	**0.0093J**	mg/L	0.010	0.00062	1	05/18/24 14:00	05/22/24 15:56	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	05/18/24 14:00	05/22/24 15:56	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	05/18/24 14:00	05/22/24 15:56	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	05/24/24 08:30	05/24/24 13:12	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**450**	mg/L	25.0	25.0	1		05/20/24 12:22		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**116**	mg/L	5.0	5.0	1		05/28/24 17:56		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		05/28/24 17:56		
Alkalinity, Total as CaCO3	**116**	mg/L	5.0	5.0	1		05/28/24 17:56		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		05/22/24 05:16	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**10**	mg/L	1.0	0.60	1		05/21/24 02:16	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92731696

Sample: HAM-PT-07 **Lab ID: 92731696010** Collected: 05/16/24 12:16 Received: 05/17/24 12:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.31**	mg/L	0.10	0.050	1		05/21/24 02:16	16984-48-8	
Sulfate	**171**	mg/L	4.0	2.0	4		05/21/24 09:10	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92731696

Sample: HAM-PT-08 **Lab ID: 92731696011** Collected: 05/16/24 10:37 Received: 05/17/24 12:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**8.0**	mg/L	0.040	0.025	1	05/18/24 14:09	05/23/24 01:45	7439-89-6	
Manganese	**3.3**	mg/L	0.040	0.011	1	05/18/24 14:09	05/23/24 01:45	7439-96-5	
Potassium	**4.8**	mg/L	0.50	0.15	1	05/18/24 14:09	05/23/24 01:45	7440-09-7	
Sodium	**7.2**	mg/L	1.0	0.58	1	05/18/24 14:09	05/23/24 01:45	7440-23-5	
Calcium	**89.4**	mg/L	1.0	0.12	1	05/18/24 14:09	05/23/24 01:45	7440-70-2	
Magnesium	**11.5**	mg/L	0.050	0.012	1	05/18/24 14:09	05/23/24 01:45	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	05/18/24 14:00	05/22/24 16:00	7440-36-0	
Arsenic	**0.23**	mg/L	0.0050	0.00084	1	05/18/24 14:00	05/22/24 16:00	7440-38-2	
Barium	**0.041**	mg/L	0.0050	0.00047	1	05/18/24 14:00	05/22/24 16:00	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	05/18/24 14:00	05/22/24 16:00	7440-41-7	
Boron	**0.73**	mg/L	0.040	0.012	1	05/18/24 14:00	05/22/24 16:00	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	05/18/24 14:00	05/22/24 16:00	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	05/18/24 14:00	05/22/24 16:00	7440-47-3	
Cobalt	**0.046**	mg/L	0.0050	0.00032	1	05/18/24 14:00	05/22/24 16:00	7440-48-4	
Lead	**0.0079**	mg/L	0.0010	0.00016	1	05/18/24 14:00	05/22/24 16:00	7439-92-1	
Lithium	**0.010J**	mg/L	0.030	0.0016	1	05/18/24 14:00	05/22/24 16:00	7439-93-2	
Molybdenum	**0.017**	mg/L	0.010	0.00062	1	05/18/24 14:00	05/22/24 16:00	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	05/18/24 14:00	05/22/24 16:00	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	05/18/24 14:00	05/22/24 16:00	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	05/24/24 08:30	05/24/24 13:14	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**410**	mg/L	25.0	25.0	1		05/20/24 12:22		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**104**	mg/L	5.0	5.0	1		05/28/24 18:06		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		05/28/24 18:06		
Alkalinity, Total as CaCO3	**104**	mg/L	5.0	5.0	1		05/28/24 18:06		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		05/22/24 05:17	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**16.7**	mg/L	1.0	0.60	1		05/21/24 20:59	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92731696

Sample: HAM-PT-08 **Lab ID: 92731696011** Collected: 05/16/24 10:37 Received: 05/17/24 12:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.19**	mg/L	0.10	0.050	1		05/21/24 20:59	16984-48-8	
Sulfate	**159**	mg/L	4.0	2.0	4		05/22/24 07:35	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92731696

Sample: HAM-PT-09 **Lab ID: 92731696012** Collected: 05/14/24 10:40 Received: 05/17/24 12:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.42**	mg/L	0.040	0.025	1	05/18/24 14:09	05/23/24 01:48	7439-89-6	
Manganese	**0.19**	mg/L	0.040	0.011	1	05/18/24 14:09	05/23/24 01:48	7439-96-5	
Potassium	**6.1**	mg/L	0.50	0.15	1	05/18/24 14:09	05/23/24 01:48	7440-09-7	
Sodium	**9.3**	mg/L	1.0	0.58	1	05/18/24 14:09	05/23/24 01:48	7440-23-5	
Calcium	**82.8**	mg/L	1.0	0.12	1	05/18/24 14:09	05/23/24 01:48	7440-70-2	
Magnesium	**23.7**	mg/L	0.050	0.012	1	05/18/24 14:09	05/23/24 01:48	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	05/18/24 14:00	05/22/24 16:04	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	05/18/24 14:00	05/22/24 16:04	7440-38-2	
Barium	**0.058**	mg/L	0.0050	0.00047	1	05/18/24 14:00	05/22/24 16:04	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	05/18/24 14:00	05/22/24 16:04	7440-41-7	
Boron	**1.4**	mg/L	0.040	0.012	1	05/18/24 14:00	05/22/24 16:04	7440-42-8	
Cadmium	**0.00015J**	mg/L	0.00050	0.00010	1	05/18/24 14:00	05/22/24 16:04	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	05/18/24 14:00	05/22/24 16:04	7440-47-3	
Cobalt	**0.0012J**	mg/L	0.0050	0.00032	1	05/18/24 14:00	05/22/24 16:04	7440-48-4	
Lead	**0.00017J**	mg/L	0.0010	0.00016	1	05/18/24 14:00	05/22/24 16:04	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	05/18/24 14:00	05/22/24 16:04	7439-93-2	
Molybdenum	**0.27**	mg/L	0.010	0.00062	1	05/18/24 14:00	05/22/24 16:04	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	05/18/24 14:00	05/22/24 16:04	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	05/18/24 14:00	05/22/24 16:04	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	05/24/24 08:30	05/24/24 13:17	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**436**	mg/L	25.0	25.0	1		05/20/24 12:17		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**139**	mg/L	5.0	5.0	1		05/21/24 17:10		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		05/21/24 17:10		
Alkalinity, Total as CaCO3	**139**	mg/L	5.0	5.0	1		05/21/24 17:10		M1
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		05/20/24 23:46	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**44.4**	mg/L	1.0	0.60	1		05/21/24 02:29	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92731696

Sample: HAM-PT-09 **Lab ID: 92731696012** Collected: 05/14/24 10:40 Received: 05/17/24 12:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.37**	mg/L	0.10	0.050	1		05/21/24 02:29	16984-48-8	
Sulfate	**130**	mg/L	3.0	1.5	3		05/21/24 10:07	14808-79-8	M1

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92731696

Sample: HAM-PT-10 **Lab ID: 92731696013** Collected: 05/15/24 11:52 Received: 05/17/24 12:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.24**	mg/L	0.040	0.025	1	05/18/24 14:09	05/23/24 01:51	7439-89-6	
Manganese	**0.74**	mg/L	0.040	0.011	1	05/18/24 14:09	05/23/24 01:51	7439-96-5	
Potassium	**6.7**	mg/L	0.50	0.15	1	05/18/24 14:09	05/23/24 01:51	7440-09-7	
Sodium	**9.2**	mg/L	1.0	0.58	1	05/18/24 14:09	05/23/24 01:51	7440-23-5	
Calcium	**108**	mg/L	1.0	0.12	1	05/18/24 14:09	05/23/24 01:51	7440-70-2	
Magnesium	**14.3**	mg/L	0.050	0.012	1	05/18/24 14:09	05/23/24 01:51	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	05/18/24 14:00	05/22/24 16:07	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	05/18/24 14:00	05/22/24 16:07	7440-38-2	
Barium	**0.054**	mg/L	0.0050	0.00047	1	05/18/24 14:00	05/22/24 16:07	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	05/18/24 14:00	05/22/24 16:07	7440-41-7	
Boron	**1.5**	mg/L	0.040	0.012	1	05/18/24 14:00	05/22/24 16:07	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	05/18/24 14:00	05/22/24 16:07	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	05/18/24 14:00	05/22/24 16:07	7440-47-3	
Cobalt	**0.0016J**	mg/L	0.0050	0.00032	1	05/18/24 14:00	05/22/24 16:07	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	05/18/24 14:00	05/22/24 16:07	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	05/18/24 14:00	05/22/24 16:07	7439-93-2	
Molybdenum	**0.092**	mg/L	0.010	0.00062	1	05/18/24 14:00	05/22/24 16:07	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	05/18/24 14:00	05/22/24 16:07	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	05/18/24 14:00	05/22/24 16:07	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	05/24/24 08:30	05/24/24 13:25	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**503**	mg/L	25.0	25.0	1		05/20/24 12:20		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**132**	mg/L	5.0	5.0	1		05/21/24 19:35		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		05/21/24 19:35		
Alkalinity, Total as CaCO3	**132**	mg/L	5.0	5.0	1		05/21/24 19:35		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		05/22/24 05:13	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**50.1**	mg/L	1.0	0.60	1		05/21/24 03:11	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92731696

Sample: HAM-PT-10 **Lab ID: 92731696013** Collected: 05/15/24 11:52 Received: 05/17/24 12:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.22**	mg/L	0.10	0.050	1		05/21/24 03:11	16984-48-8	
Sulfate	**146**	mg/L	3.0	1.5	3		05/21/24 10:48	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92731696

Sample: HAM-PT-11 **Lab ID: 92731696014** Collected: 05/14/24 15:20 Received: 05/17/24 12:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	05/18/24 14:09	05/23/24 01:55	7439-89-6	
Manganese	**0.28**	mg/L	0.040	0.011	1	05/18/24 14:09	05/23/24 01:55	7439-96-5	
Potassium	**6.0**	mg/L	0.50	0.15	1	05/18/24 14:09	05/23/24 01:55	7440-09-7	
Sodium	**8.8**	mg/L	1.0	0.58	1	05/18/24 14:09	05/23/24 01:55	7440-23-5	
Calcium	**90.9**	mg/L	1.0	0.12	1	05/18/24 14:09	05/23/24 01:55	7440-70-2	
Magnesium	**16.2**	mg/L	0.050	0.012	1	05/18/24 14:09	05/23/24 01:55	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	05/18/24 14:00	05/22/24 16:11	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	05/18/24 14:00	05/22/24 16:11	7440-38-2	
Barium	**0.057**	mg/L	0.0050	0.00047	1	05/18/24 14:00	05/22/24 16:11	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	05/18/24 14:00	05/22/24 16:11	7440-41-7	
Boron	**1.6**	mg/L	0.040	0.012	1	05/18/24 14:00	05/22/24 16:11	7440-42-8	
Cadmium	**0.00013J**	mg/L	0.00050	0.00010	1	05/18/24 14:00	05/22/24 16:11	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	05/18/24 14:00	05/22/24 16:11	7440-47-3	
Cobalt	**0.0016J**	mg/L	0.0050	0.00032	1	05/18/24 14:00	05/22/24 16:11	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	05/18/24 14:00	05/22/24 16:11	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	05/18/24 14:00	05/22/24 16:11	7439-93-2	
Molybdenum	**0.24**	mg/L	0.010	0.00062	1	05/18/24 14:00	05/22/24 16:11	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	05/18/24 14:00	05/22/24 16:11	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	05/18/24 14:00	05/22/24 16:11	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	05/24/24 08:30	05/24/24 13:28	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**441**	mg/L	25.0	25.0	1		05/20/24 12:17		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**125**	mg/L	5.0	5.0	1		05/21/24 17:33		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		05/21/24 17:33		
Alkalinity, Total as CaCO3	**125**	mg/L	5.0	5.0	1		05/21/24 17:33		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		05/20/24 23:46	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**41.4**	mg/L	1.0	0.60	1		05/21/24 03:25	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92731696

Sample: HAM-PT-11 **Lab ID: 92731696014** Collected: 05/14/24 15:20 Received: 05/17/24 12:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.34**	mg/L	0.10	0.050	1		05/21/24 03:25	16984-48-8	
Sulfate	**122**	mg/L	3.0	1.5	3		05/21/24 11:03	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92731696

Sample: HAM-PT-12 **Lab ID: 92731696015** Collected: 05/14/24 12:05 Received: 05/17/24 12:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.33**	mg/L	0.040	0.025	1	05/18/24 14:09	05/23/24 01:59	7439-89-6	
Manganese	**1.0**	mg/L	0.040	0.011	1	05/18/24 14:09	05/23/24 01:59	7439-96-5	
Potassium	**6.8**	mg/L	0.50	0.15	1	05/18/24 14:09	05/23/24 01:59	7440-09-7	
Sodium	**11.8**	mg/L	1.0	0.58	1	05/18/24 14:09	05/23/24 01:59	7440-23-5	
Calcium	**99.7**	mg/L	1.0	0.12	1	05/18/24 14:09	05/23/24 01:59	7440-70-2	
Magnesium	**16.6**	mg/L	0.050	0.012	1	05/18/24 14:09	05/23/24 01:59	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	05/18/24 14:00	05/22/24 16:15	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	05/18/24 14:00	05/22/24 16:15	7440-38-2	
Barium	**0.069**	mg/L	0.0050	0.00047	1	05/18/24 14:00	05/22/24 16:15	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	05/18/24 14:00	05/22/24 16:15	7440-41-7	
Boron	**1.6**	mg/L	0.040	0.012	1	05/18/24 14:00	05/22/24 16:15	7440-42-8	
Cadmium	**0.00014J**	mg/L	0.00050	0.00010	1	05/18/24 14:00	05/22/24 16:15	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	05/18/24 14:00	05/22/24 16:15	7440-47-3	
Cobalt	**0.0044J**	mg/L	0.0050	0.00032	1	05/18/24 14:00	05/22/24 16:15	7440-48-4	
Lead	**0.00017J**	mg/L	0.0010	0.00016	1	05/18/24 14:00	05/22/24 16:15	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	05/18/24 14:00	05/22/24 16:15	7439-93-2	
Molybdenum	**0.085**	mg/L	0.010	0.00062	1	05/18/24 14:00	05/22/24 16:15	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	05/18/24 14:00	05/22/24 16:15	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	05/18/24 14:00	05/22/24 16:15	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	05/24/24 08:30	05/24/24 13:30	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**523**	mg/L	25.0	25.0	1		05/20/24 12:17		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**129**	mg/L	5.0	5.0	1		05/21/24 17:51		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		05/21/24 17:51		
Alkalinity, Total as CaCO3	**129**	mg/L	5.0	5.0	1		05/21/24 17:51		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		05/20/24 23:47	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**50.3**	mg/L	1.0	0.60	1		05/21/24 03:38	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92731696

Sample: HAM-PT-12 **Lab ID: 92731696015** Collected: 05/14/24 12:05 Received: 05/17/24 12:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.20**	mg/L	0.10	0.050	1		05/21/24 03:38	16984-48-8	
Sulfate	**125**	mg/L	3.0	1.5	3		05/21/24 11:17	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92731696

Sample: HAM-PT-13 **Lab ID: 92731696016** Collected: 05/15/24 18:45 Received: 05/17/24 12:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**15.0**	mg/L	0.040	0.025	1	05/18/24 14:09	05/23/24 02:02	7439-89-6	
Manganese	**3.6**	mg/L	0.040	0.011	1	05/18/24 14:09	05/23/24 02:02	7439-96-5	
Potassium	**5.0**	mg/L	0.50	0.15	1	05/18/24 14:09	05/23/24 02:02	7440-09-7	
Sodium	**7.8**	mg/L	1.0	0.58	1	05/18/24 14:09	05/23/24 02:02	7440-23-5	
Calcium	**99.2**	mg/L	1.0	0.12	1	05/18/24 14:09	05/23/24 02:02	7440-70-2	
Magnesium	**12.0**	mg/L	0.050	0.012	1	05/18/24 14:09	05/23/24 02:02	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	05/18/24 14:00	05/22/24 16:19	7440-36-0	
Arsenic	**0.29**	mg/L	0.0050	0.00084	1	05/18/24 14:00	05/22/24 16:19	7440-38-2	
Barium	**0.033**	mg/L	0.0050	0.00047	1	05/18/24 14:00	05/22/24 16:19	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	05/18/24 14:00	05/22/24 16:19	7440-41-7	
Boron	**0.52**	mg/L	0.040	0.012	1	05/18/24 14:00	05/22/24 16:19	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	05/18/24 14:00	05/22/24 16:19	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	05/18/24 14:00	05/22/24 16:19	7440-47-3	
Cobalt	**0.024**	mg/L	0.0050	0.00032	1	05/18/24 14:00	05/22/24 16:19	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	05/18/24 14:00	05/22/24 16:19	7439-92-1	
Lithium	**0.058**	mg/L	0.030	0.0016	1	05/18/24 14:00	05/22/24 16:19	7439-93-2	
Molybdenum	**0.0087J**	mg/L	0.010	0.00062	1	05/18/24 14:00	05/22/24 16:19	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	05/18/24 14:00	05/22/24 16:19	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	05/18/24 14:00	05/22/24 16:19	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	05/24/24 08:30	05/24/24 13:33	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**459**	mg/L	25.0	25.0	1		05/20/24 12:21		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**111**	mg/L	5.0	5.0	1		05/21/24 19:44		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		05/21/24 19:44		
Alkalinity, Total as CaCO3	**111**	mg/L	5.0	5.0	1		05/21/24 19:44		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		05/22/24 05:14	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**9.5**	mg/L	1.0	0.60	1		05/21/24 04:20	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92731696

Sample: HAM-PT-13 **Lab ID: 92731696016** Collected: 05/15/24 18:45 Received: 05/17/24 12:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.34**	mg/L	0.10	0.050	1		05/21/24 04:20	16984-48-8	
Sulfate	**190**	mg/L	4.0	2.0	4		05/21/24 11:31	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92731696

Sample: HAM-PT-14 **Lab ID: 92731696017** Collected: 05/15/24 18:27 Received: 05/17/24 12:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**14.9**	mg/L	0.040	0.025	1	05/18/24 14:09	05/23/24 02:05	7439-89-6	
Manganese	**3.1**	mg/L	0.040	0.011	1	05/18/24 14:09	05/23/24 02:05	7439-96-5	
Potassium	**5.0**	mg/L	0.50	0.15	1	05/18/24 14:09	05/23/24 02:05	7440-09-7	
Sodium	**6.7**	mg/L	1.0	0.58	1	05/18/24 14:09	05/23/24 02:05	7440-23-5	
Calcium	**97.4**	mg/L	1.0	0.12	1	05/18/24 14:09	05/23/24 02:05	7440-70-2	
Magnesium	**12.7**	mg/L	0.050	0.012	1	05/18/24 14:09	05/23/24 02:05	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	05/18/24 14:00	05/22/24 16:33	7440-36-0	
Arsenic	**0.21**	mg/L	0.0050	0.00084	1	05/18/24 14:00	05/22/24 16:33	7440-38-2	
Barium	**0.038**	mg/L	0.0050	0.00047	1	05/18/24 14:00	05/22/24 16:33	7440-39-3	
Beryllium	**0.00016J**	mg/L	0.00050	0.000094	1	05/18/24 14:00	05/22/24 16:33	7440-41-7	
Boron	**0.51**	mg/L	0.040	0.012	1	05/18/24 14:00	05/22/24 16:33	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	05/18/24 14:00	05/22/24 16:33	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	05/18/24 14:00	05/22/24 16:33	7440-47-3	
Cobalt	**0.020**	mg/L	0.0050	0.00032	1	05/18/24 14:00	05/22/24 16:33	7440-48-4	
Lead	**0.00046J**	mg/L	0.0010	0.00016	1	05/18/24 14:00	05/22/24 16:33	7439-92-1	
Lithium	**0.051**	mg/L	0.030	0.0016	1	05/18/24 14:00	05/22/24 16:33	7439-93-2	
Molybdenum	**0.011**	mg/L	0.010	0.00062	1	05/18/24 14:00	05/22/24 16:33	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	05/18/24 14:00	05/22/24 16:33	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	05/18/24 14:00	05/22/24 16:33	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	05/24/24 08:30	05/24/24 13:35	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**461**	mg/L	25.0	25.0	1		05/20/24 12:21		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**121**	mg/L	5.0	5.0	1		05/21/24 19:53		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		05/21/24 19:53		
Alkalinity, Total as CaCO3	**121**	mg/L	5.0	5.0	1		05/21/24 19:53		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		05/22/24 05:14	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**10.5**	mg/L	1.0	0.60	1		05/21/24 04:34	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92731696

Sample: HAM-PT-14 **Lab ID: 92731696017** Collected: 05/15/24 18:27 Received: 05/17/24 12:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.26**	mg/L	0.10	0.050	1		05/21/24 04:34	16984-48-8	
Sulfate	**175**	mg/L	4.0	2.0	4		05/21/24 11:44	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92731696

Sample: HAM-PT-15 **Lab ID: 92731696018** Collected: 05/15/24 16:10 Received: 05/17/24 12:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Sodium	**8.1**	mg/L	1.0	0.58	1	05/18/24 14:09	05/24/24 11:31	7440-23-5	
Iron	**9.2**	mg/L	0.040	0.025	1	05/18/24 14:09	05/23/24 02:16	7439-89-6	
Manganese	**5.7**	mg/L	0.040	0.011	1	05/18/24 14:09	05/23/24 02:16	7439-96-5	
Potassium	**5.3**	mg/L	0.50	0.15	1	05/18/24 14:09	05/23/24 02:16	7440-09-7	
Calcium	**141**	mg/L	1.0	0.12	1	05/18/24 14:09	05/23/24 02:16	7440-70-2	
Magnesium	**16.1**	mg/L	0.050	0.012	1	05/18/24 14:09	05/23/24 02:16	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	05/18/24 14:00	05/22/24 16:37	7440-36-0	
Arsenic	**0.39**	mg/L	0.0050	0.00084	1	05/18/24 14:00	05/22/24 16:37	7440-38-2	
Barium	**0.043**	mg/L	0.0050	0.00047	1	05/18/24 14:00	05/22/24 16:37	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	05/18/24 14:00	05/22/24 16:37	7440-41-7	
Boron	**0.76**	mg/L	0.040	0.012	1	05/18/24 14:00	05/22/24 16:37	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	05/18/24 14:00	05/22/24 16:37	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	05/18/24 14:00	05/22/24 16:37	7440-47-3	
Cobalt	**0.059**	mg/L	0.0050	0.00032	1	05/18/24 14:00	05/22/24 16:37	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	05/18/24 14:00	05/22/24 16:37	7439-92-1	
Lithium	**0.047**	mg/L	0.030	0.0016	1	05/18/24 14:00	05/22/24 16:37	7439-93-2	
Molybdenum	**0.021**	mg/L	0.010	0.00062	1	05/18/24 14:00	05/22/24 16:37	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	05/18/24 14:00	05/22/24 16:37	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	05/18/24 14:00	05/22/24 16:37	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	05/24/24 08:30	05/24/24 13:38	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**639**	mg/L	25.0	25.0	1		05/20/24 12:22		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**134**	mg/L	5.0	5.0	1		05/21/24 20:02		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		05/21/24 20:02		
Alkalinity, Total as CaCO3	**134**	mg/L	5.0	5.0	1		05/21/24 20:02		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		05/22/24 05:15	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**12.6**	mg/L	1.0	0.60	1		05/21/24 04:48	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92731696

Sample: HAM-PT-15 **Lab ID: 92731696018** Collected: 05/15/24 16:10 Received: 05/17/24 12:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.35**	mg/L	0.10	0.050	1		05/21/24 04:48	16984-48-8	
Sulfate	**271**	mg/L	6.0	3.0	6		05/21/24 11:58	14808-79-8	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92731696

QC Batch: 855608
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92731696001, 92731696002, 92731696003, 92731696004, 92731696005, 92731696006, 92731696007, 92731696008, 92731696009, 92731696010, 92731696011, 92731696012, 92731696013, 92731696014, 92731696015, 92731696016, 92731696017, 92731696018

METHOD BLANK: 4414794
Matrix: Water
Associated Lab Samples: 92731696001, 92731696002, 92731696003, 92731696004, 92731696005, 92731696006, 92731696007, 92731696008, 92731696009, 92731696010, 92731696011, 92731696012, 92731696013, 92731696014, 92731696015, 92731696016, 92731696017, 92731696018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	05/23/24 00:42	
Iron	mg/L	ND	0.040	0.025	05/23/24 00:42	
Magnesium	mg/L	ND	0.050	0.012	05/23/24 00:42	
Manganese	mg/L	ND	0.040	0.011	05/23/24 00:42	
Potassium	mg/L	ND	0.50	0.15	05/23/24 00:42	
Sodium	mg/L	ND	1.0	0.58	05/23/24 00:42	

LABORATORY CONTROL SAMPLE: 4414795

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0	101	80-120	
Iron	mg/L	1	1.0	101	80-120	
Magnesium	mg/L	1	1.0	103	80-120	
Manganese	mg/L	1	0.99	99	80-120	
Potassium	mg/L	1	1.0	103	80-120	
Sodium	mg/L	1	1.0	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4414796 4414797

Parameter	Units	92731696001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	ND	1	1	1.0J	1.0	99	100	75-125		20	
Iron	mg/L	ND	1	1	0.99	1.0	99	100	75-125	1	20	
Magnesium	mg/L	ND	1	1	1.0	1.0	103	103	75-125	0	20	
Manganese	mg/L	ND	1	1	0.99	0.99	99	99	75-125	1	20	
Potassium	mg/L	ND	1	1	0.98	1.0	97	99	75-125	2	20	
Sodium	mg/L	ND	1	1	1.3	1.3	103	100	75-125	2	20	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92731696

QC Batch: 855534
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92731696001, 92731696002, 92731696003, 92731696004, 92731696005, 92731696006, 92731696007, 92731696008, 92731696009, 92731696010, 92731696011, 92731696012, 92731696013, 92731696014, 92731696015, 92731696016, 92731696017, 92731696018

METHOD BLANK: 4414417
Matrix: Water
Associated Lab Samples: 92731696001, 92731696002, 92731696003, 92731696004, 92731696005, 92731696006, 92731696007, 92731696008, 92731696009, 92731696010, 92731696011, 92731696012, 92731696013, 92731696014, 92731696015, 92731696016, 92731696017, 92731696018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00054	05/22/24 14:58	
Arsenic	mg/L	ND	0.0050	0.00084	05/22/24 14:58	
Barium	mg/L	ND	0.0050	0.00047	05/22/24 14:58	
Beryllium	mg/L	ND	0.00050	0.000094	05/22/24 14:58	
Boron	mg/L	ND	0.040	0.012	05/22/24 14:58	
Cadmium	mg/L	ND	0.00050	0.00010	05/22/24 14:58	
Chromium	mg/L	ND	0.0050	0.0019	05/22/24 14:58	
Cobalt	mg/L	ND	0.0050	0.00032	05/22/24 14:58	
Lead	mg/L	ND	0.0010	0.00016	05/22/24 14:58	
Lithium	mg/L	ND	0.030	0.0016	05/22/24 14:58	
Molybdenum	mg/L	ND	0.010	0.00062	05/22/24 14:58	
Selenium	mg/L	ND	0.0050	0.00096	05/22/24 14:58	
Thallium	mg/L	ND	0.0010	0.00038	05/22/24 14:58	

LABORATORY CONTROL SAMPLE: 4414418

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	106	80-120	
Arsenic	mg/L	0.1	0.10	101	80-120	
Barium	mg/L	0.1	0.10	101	80-120	
Beryllium	mg/L	0.1	0.10	104	80-120	
Boron	mg/L	1	1.0	103	80-120	
Cadmium	mg/L	0.1	0.10	103	80-120	
Chromium	mg/L	0.1	0.10	103	80-120	
Cobalt	mg/L	0.1	0.10	101	80-120	
Lead	mg/L	0.1	0.10	104	80-120	
Lithium	mg/L	0.1	0.11	106	80-120	
Molybdenum	mg/L	0.1	0.10	105	80-120	
Selenium	mg/L	0.1	0.10	101	80-120	
Thallium	mg/L	0.1	0.10	100	80-120	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92731696

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4414419 4414420

Parameter	Units	92731696001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.10	0.10	105	103	75-125	1	20	
Arsenic	mg/L	ND	0.1	0.1	0.098	0.099	98	99	75-125	1	20	
Barium	mg/L	ND	0.1	0.1	0.10	0.098	100	98	75-125	2	20	
Beryllium	mg/L	ND	0.1	0.1	0.10	0.10	102	102	75-125	0	20	
Boron	mg/L	ND	1	1	1.0	1.0	101	100	75-125	1	20	
Cadmium	mg/L	ND	0.1	0.1	0.10	0.10	100	100	75-125	0	20	
Chromium	mg/L	ND	0.1	0.1	0.099	0.098	99	98	75-125	1	20	
Cobalt	mg/L	ND	0.1	0.1	0.098	0.099	98	99	75-125	1	20	
Lead	mg/L	ND	0.1	0.1	0.10	0.10	100	101	75-125	1	20	
Lithium	mg/L	ND	0.1	0.1	0.10	0.10	104	104	75-125	0	20	
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.10	102	101	75-125	1	20	
Selenium	mg/L	ND	0.1	0.1	0.097	0.098	97	98	75-125	1	20	
Thallium	mg/L	ND	0.1	0.1	0.097	0.099	97	98	75-125	1	20	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92731696

QC Batch: 856966
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92731696001, 92731696002, 92731696003, 92731696004, 92731696005, 92731696006, 92731696007, 92731696008, 92731696009, 92731696010, 92731696011, 92731696012, 92731696013, 92731696014, 92731696015, 92731696016, 92731696017, 92731696018

METHOD BLANK: 4421300 Matrix: Water
Associated Lab Samples: 92731696001, 92731696002, 92731696003, 92731696004, 92731696005, 92731696006, 92731696007, 92731696008, 92731696009, 92731696010, 92731696011, 92731696012, 92731696013, 92731696014, 92731696015, 92731696016, 92731696017, 92731696018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	05/24/24 12:26	

LABORATORY CONTROL SAMPLE: 4421301

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0024	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4421302 4421303

Parameter	Units	92731696002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0024	0.0024	95	95	75-125	1	20	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92731696

QC Batch: 855801
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92731696001, 92731696002, 92731696003, 92731696004, 92731696005, 92731696006, 92731696007, 92731696008, 92731696009, 92731696010, 92731696011, 92731696012, 92731696013, 92731696014, 92731696015, 92731696016, 92731696017, 92731696018

METHOD BLANK: 4415457
Matrix: Water
Associated Lab Samples: 92731696001, 92731696002, 92731696003, 92731696004, 92731696005, 92731696006, 92731696007, 92731696008, 92731696009, 92731696010, 92731696011, 92731696012, 92731696013, 92731696014, 92731696015, 92731696016, 92731696017, 92731696018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	05/20/24 12:16	

LABORATORY CONTROL SAMPLE: 4415458

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	396	99	80-120	

SAMPLE DUPLICATE: 4415459

Parameter	Units	92731696007 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	564	575	2	10	

SAMPLE DUPLICATE: 4415460

Parameter	Units	92731696008 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	483	478	1	10	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92731696

QC Batch: 856180 — Analysis Method: SM 2320B-2011
QC Batch Method: SM 2320B-2011 — Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92731696001, 92731696002, 92731696003, 92731696004, 92731696005, 92731696006, 92731696007, 92731696008, 92731696009, 92731696012, 92731696013, 92731696014, 92731696015, 92731696016, 92731696017, 92731696018

METHOD BLANK: 4417200 — Matrix: Water
Associated Lab Samples: 92731696001, 92731696002, 92731696003, 92731696004, 92731696005, 92731696006, 92731696007, 92731696008, 92731696009, 92731696012, 92731696013, 92731696014, 92731696015, 92731696016, 92731696017, 92731696018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	05/21/24 16:14	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	05/21/24 16:14	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	05/21/24 16:14	

LABORATORY CONTROL SAMPLE: 4417201

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.4	103	80-120	

LABORATORY CONTROL SAMPLE: 4417202

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	49.9	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4417203 4417204

Parameter	Units	92731696007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	175	50	50	214	211	79	72	80-120	2	25	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4417205 4417206

Parameter	Units	92731696012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	139	50	50	181	177	83	77	80-120	2	25	M1

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92731696

QC Batch: 857348
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92731696010, 92731696011

METHOD BLANK: 4422747 Matrix: Water
Associated Lab Samples: 92731696010, 92731696011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	05/28/24 16:34	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	05/28/24 16:34	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	05/28/24 16:34	

LABORATORY CONTROL SAMPLE: 4422748

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.4	101	80-120	

LABORATORY CONTROL SAMPLE: 4422749

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.0	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4422750 4422751

Parameter	Units	92731615001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	75300 ug/L	50	50	124	125	98	99	80-120	0	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4422752 4422753

Parameter	Units	92732006003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	766	50	50	804	820	76	109	80-120	2	25	M1

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92731696

QC Batch: 855942
QC Batch Method: SM 4500-S2D-2011
Analysis Method: SM 4500-S2D-2011
Analysis Description: 4500S2D Sulfide Water
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92731696007, 92731696012, 92731696014, 92731696015

METHOD BLANK: 4416179 Matrix: Water
Associated Lab Samples: 92731696007, 92731696012, 92731696014, 92731696015

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	0.022	05/20/24 23:35	

LABORATORY CONTROL SAMPLE: 4416180

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	0.53	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4416181 4416182

Parameter	Units	92731245002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.55	0.55	106	106	80-120	0	10	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92731696

QC Batch: 856274 — Analysis Method: SM 4500-S2D-2011
QC Batch Method: SM 4500-S2D-2011 — Analysis Description: 4500S2D Sulfide Water
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92731696001, 92731696003, 92731696004, 92731696005, 92731696006, 92731696008, 92731696009, 92731696010, 92731696011, 92731696013, 92731696016, 92731696017, 92731696018

METHOD BLANK: 4417824 — Matrix: Water
Associated Lab Samples: 92731696001, 92731696003, 92731696004, 92731696005, 92731696006, 92731696008, 92731696009, 92731696010, 92731696011, 92731696013, 92731696016, 92731696017, 92731696018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	0.022	05/22/24 05:06	

LABORATORY CONTROL SAMPLE: 4417825

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	0.45	89	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4417826 4417827

Parameter	Units	92731245003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.49	0.49	94	95	80-120	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4417828 4417829

Parameter	Units	92731696001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.48	0.50	96	100	80-120	4	10	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92731696

QC Batch: 856275
QC Batch Method: SM 4500-S2D-2011
Analysis Method: SM 4500-S2D-2011
Analysis Description: 4500S2D Sulfide Water
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92731696002

METHOD BLANK: 4417830 Matrix: Water
Associated Lab Samples: 92731696002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	0.022	05/22/24 05:18	

LABORATORY CONTROL SAMPLE: 4417831

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	0.49	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4417832 4417833

Parameter	Units	92731696002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.49	0.48	99	97	80-120	2	10	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92731696

QC Batch: 855697
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92731696001, 92731696002, 92731696004, 92731696006

METHOD BLANK: 4415009 Matrix: Water
Associated Lab Samples: 92731696001, 92731696002, 92731696004, 92731696006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	05/20/24 00:22	
Fluoride	mg/L	ND	0.10	0.050	05/20/24 00:22	
Sulfate	mg/L	ND	1.0	0.50	05/20/24 00:22	

LABORATORY CONTROL SAMPLE: 4415010

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.3	99	90-110	
Fluoride	mg/L	2.5	2.4	97	90-110	
Sulfate	mg/L	50	49.1	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4415011 4415012

Parameter	Units	92731542009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	151	50	50	199	199	95	96	90-110	0	10	
Fluoride	mg/L	0.081J	2.5	2.5	2.7	2.7	104	103	90-110	1	10	
Sulfate	mg/L	3.0	50	50	55.7	55.2	105	104	90-110	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4415013 4415014

Parameter	Units	92731735001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	492	50	50	530	529	75	74	90-110	0	10	M1
Fluoride	mg/L	ND	2.5	2.5	ND	ND	0	0	90-110		10	M1
Sulfate	mg/L	16.9	50	50	70.8	69.6	108	105	90-110	2	10	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92731696

QC Batch: 855920
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92731696007, 92731696008, 92731696009, 92731696010, 92731696012, 92731696013, 92731696014, 92731696015, 92731696016, 92731696017, 92731696018

METHOD BLANK: 4416092 Matrix: Water
Associated Lab Samples: 92731696007, 92731696008, 92731696009, 92731696010, 92731696012, 92731696013, 92731696014, 92731696015, 92731696016, 92731696017, 92731696018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	05/20/24 20:15	
Fluoride	mg/L	ND	0.10	0.050	05/20/24 20:15	
Sulfate	mg/L	ND	1.0	0.50	05/20/24 20:15	

LABORATORY CONTROL SAMPLE: 4416093

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	53.3	107	90-110	
Fluoride	mg/L	2.5	2.6	103	90-110	
Sulfate	mg/L	50	53.5	107	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4416094 4416095

Parameter	Units	92731696007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	56.9	50	50	97.8	98.5	82	83	90-110	1	10	M1
Fluoride	mg/L	0.20	2.5	2.5	2.7	2.7	99	102	90-110	2	10	
Sulfate	mg/L	178	50	50	224	225	93	93	90-110	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4416096 4416097

Parameter	Units	92731696012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	44.4	50	50	96.7	97.9	105	107	90-110	1	10	
Fluoride	mg/L	0.37	2.5	2.5	2.9	2.9	100	103	90-110	2	10	
Sulfate	mg/L	130	50	50	175	177	89	94	90-110	1	10	M1

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92731696

QC Batch: 856238
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92731696011

METHOD BLANK: 4417658 Matrix: Water
Associated Lab Samples: 92731696011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	05/21/24 20:18	
Fluoride	mg/L	ND	0.10	0.050	05/21/24 20:18	
Sulfate	mg/L	ND	1.0	0.50	05/21/24 20:18	

LABORATORY CONTROL SAMPLE: 4417659

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	52.0	104	90-110	
Fluoride	mg/L	2.5	2.6	102	90-110	
Sulfate	mg/L	50	52.1	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4417660 4417661

Parameter	Units	92732137001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	533	50	50	569	579	73	92	90-110	2	10	M1
Fluoride	mg/L	0.74	2.5	2.5	2.3	2.4	64	66	90-110	2	10	M1
Sulfate	mg/L	357	50	50	398	404	81	95	90-110	2	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4417662 4417663

Parameter	Units	92732121002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	4.5	50	50	58.4	60.2	108	111	90-110	3	10	M1
Fluoride	mg/L	0.061J	2.5	2.5	2.6	2.7	101	106	90-110	5	10	
Sulfate	mg/L	88.0	50	50	125	128	74	79	90-110	2	10	M1

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92731696

QC Batch: 860766
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92731696003, 92731696005

METHOD BLANK: 4439360 Matrix: Water
Associated Lab Samples: 92731696003, 92731696005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	06/12/24 12:57	
Fluoride	mg/L	ND	0.10	0.050	06/12/24 12:57	
Sulfate	mg/L	ND	1.0	0.50	06/12/24 12:57	

LABORATORY CONTROL SAMPLE: 4439361

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	51.5	103	90-110	
Fluoride	mg/L	2.5	2.6	105	90-110	
Sulfate	mg/L	50	51.5	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4439362 4439363

Parameter	Units	92735940001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	14.2	50	50	64.9	65.3	101	102	90-110	1	10	
Fluoride	mg/L	0.056J	2.5	2.5	2.7	2.7	104	105	90-110	1	10	
Sulfate	mg/L	11.5	50	50	62.8	63.0	103	103	90-110	0	10	

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QUALIFIERS

Project: Hammond AP-1
Pace Project No.: 92731696

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Hammond AP-1
Pace Project No.: 92731696

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92731696001	**HAM-AP1-EB-01**	EPA 3010A	855608	EPA 6010D	855649
92731696002	**HAM-AP1-EB-02**	EPA 3010A	855608	EPA 6010D	855649
92731696003	**HAM-AP1-FB-01**	EPA 3010A	855608	EPA 6010D	855649
92731696004	**HAM-AP1-FB-02**	EPA 3010A	855608	EPA 6010D	855649
92731696005	**HAM-AP1-FD-01**	EPA 3010A	855608	EPA 6010D	855649
92731696006	**HAM-AP1-FD-02**	EPA 3010A	855608	EPA 6010D	855649
92731696007	**HAM-INW-03**	EPA 3010A	855608	EPA 6010D	855649
92731696008	**HAM-INW-04**	EPA 3010A	855608	EPA 6010D	855649
92731696009	**HAM-INW-05**	EPA 3010A	855608	EPA 6010D	855649
92731696010	**HAM-PT-07**	EPA 3010A	855608	EPA 6010D	855649
92731696011	**HAM-PT-08**	EPA 3010A	855608	EPA 6010D	855649
92731696012	**HAM-PT-09**	EPA 3010A	855608	EPA 6010D	855649
92731696013	**HAM-PT-10**	EPA 3010A	855608	EPA 6010D	855649
92731696014	**HAM-PT-11**	EPA 3010A	855608	EPA 6010D	855649
92731696015	**HAM-PT-12**	EPA 3010A	855608	EPA 6010D	855649
92731696016	**HAM-PT-13**	EPA 3010A	855608	EPA 6010D	855649
92731696017	**HAM-PT-14**	EPA 3010A	855608	EPA 6010D	855649
92731696018	**HAM-PT-15**	EPA 3010A	855608	EPA 6010D	855649
92731696001	**HAM-AP1-EB-01**	EPA 3005A	855534	EPA 6020B	855663
92731696002	**HAM-AP1-EB-02**	EPA 3005A	855534	EPA 6020B	855663
92731696003	**HAM-AP1-FB-01**	EPA 3005A	855534	EPA 6020B	855663
92731696004	**HAM-AP1-FB-02**	EPA 3005A	855534	EPA 6020B	855663
92731696005	**HAM-AP1-FD-01**	EPA 3005A	855534	EPA 6020B	855663
92731696006	**HAM-AP1-FD-02**	EPA 3005A	855534	EPA 6020B	855663
92731696007	**HAM-INW-03**	EPA 3005A	855534	EPA 6020B	855663
92731696008	**HAM-INW-04**	EPA 3005A	855534	EPA 6020B	855663
92731696009	**HAM-INW-05**	EPA 3005A	855534	EPA 6020B	855663
92731696010	**HAM-PT-07**	EPA 3005A	855534	EPA 6020B	855663
92731696011	**HAM-PT-08**	EPA 3005A	855534	EPA 6020B	855663
92731696012	**HAM-PT-09**	EPA 3005A	855534	EPA 6020B	855663
92731696013	**HAM-PT-10**	EPA 3005A	855534	EPA 6020B	855663
92731696014	**HAM-PT-11**	EPA 3005A	855534	EPA 6020B	855663
92731696015	**HAM-PT-12**	EPA 3005A	855534	EPA 6020B	855663
92731696016	**HAM-PT-13**	EPA 3005A	855534	EPA 6020B	855663
92731696017	**HAM-PT-14**	EPA 3005A	855534	EPA 6020B	855663
92731696018	**HAM-PT-15**	EPA 3005A	855534	EPA 6020B	855663
92731696001	**HAM-AP1-EB-01**	EPA 7470A	856966	EPA 7470A	856985
92731696002	**HAM-AP1-EB-02**	EPA 7470A	856966	EPA 7470A	856985
92731696003	**HAM-AP1-FB-01**	EPA 7470A	856966	EPA 7470A	856985
92731696004	**HAM-AP1-FB-02**	EPA 7470A	856966	EPA 7470A	856985
92731696005	**HAM-AP1-FD-01**	EPA 7470A	856966	EPA 7470A	856985
92731696006	**HAM-AP1-FD-02**	EPA 7470A	856966	EPA 7470A	856985
92731696007	**HAM-INW-03**	EPA 7470A	856966	EPA 7470A	856985
92731696008	**HAM-INW-04**	EPA 7470A	856966	EPA 7470A	856985
92731696009	**HAM-INW-05**	EPA 7470A	856966	EPA 7470A	856985
92731696010	**HAM-PT-07**	EPA 7470A	856966	EPA 7470A	856985
92731696011	**HAM-PT-08**	EPA 7470A	856966	EPA 7470A	856985
92731696012	**HAM-PT-09**	EPA 7470A	856966	EPA 7470A	856985

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Hammond AP-1
Pace Project No.: 92731696

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92731696013	**HAM-PT-10**	EPA 7470A	856966	EPA 7470A	856985
92731696014	**HAM-PT-11**	EPA 7470A	856966	EPA 7470A	856985
92731696015	**HAM-PT-12**	EPA 7470A	856966	EPA 7470A	856985
92731696016	**HAM-PT-13**	EPA 7470A	856966	EPA 7470A	856985
92731696017	**HAM-PT-14**	EPA 7470A	856966	EPA 7470A	856985
92731696018	**HAM-PT-15**	EPA 7470A	856966	EPA 7470A	856985
92731696001	**HAM-AP1-EB-01**	SM 2540C-2015	855801		
92731696002	**HAM-AP1-EB-02**	SM 2540C-2015	855801		
92731696003	**HAM-AP1-FB-01**	SM 2540C-2015	855801		
92731696004	**HAM-AP1-FB-02**	SM 2540C-2015	855801		
92731696005	**HAM-AP1-FD-01**	SM 2540C-2015	855801		
92731696006	**HAM-AP1-FD-02**	SM 2540C-2015	855801		
92731696007	**HAM-INW-03**	SM 2540C-2015	855801		
92731696008	**HAM-INW-04**	SM 2540C-2015	855801		
92731696009	**HAM-INW-05**	SM 2540C-2015	855801		
92731696010	**HAM-PT-07**	SM 2540C-2015	855801		
92731696011	**HAM-PT-08**	SM 2540C-2015	855801		
92731696012	**HAM-PT-09**	SM 2540C-2015	855801		
92731696013	**HAM-PT-10**	SM 2540C-2015	855801		
92731696014	**HAM-PT-11**	SM 2540C-2015	855801		
92731696015	**HAM-PT-12**	SM 2540C-2015	855801		
92731696016	**HAM-PT-13**	SM 2540C-2015	855801		
92731696017	**HAM-PT-14**	SM 2540C-2015	855801		
92731696018	**HAM-PT-15**	SM 2540C-2015	855801		
92731696001	**HAM-AP1-EB-01**	SM 2320B-2011	856180		
92731696002	**HAM-AP1-EB-02**	SM 2320B-2011	856180		
92731696003	**HAM-AP1-FB-01**	SM 2320B-2011	856180		
92731696004	**HAM-AP1-FB-02**	SM 2320B-2011	856180		
92731696005	**HAM-AP1-FD-01**	SM 2320B-2011	856180		
92731696006	**HAM-AP1-FD-02**	SM 2320B-2011	856180		
92731696007	**HAM-INW-03**	SM 2320B-2011	856180		
92731696008	**HAM-INW-04**	SM 2320B-2011	856180		
92731696009	**HAM-INW-05**	SM 2320B-2011	856180		
92731696010	**HAM-PT-07**	SM 2320B-2011	857348		
92731696011	**HAM-PT-08**	SM 2320B-2011	857348		
92731696012	**HAM-PT-09**	SM 2320B-2011	856180		
92731696013	**HAM-PT-10**	SM 2320B-2011	856180		
92731696014	**HAM-PT-11**	SM 2320B-2011	856180		
92731696015	**HAM-PT-12**	SM 2320B-2011	856180		
92731696016	**HAM-PT-13**	SM 2320B-2011	856180		
92731696017	**HAM-PT-14**	SM 2320B-2011	856180		
92731696018	**HAM-PT-15**	SM 2320B-2011	856180		
92731696001	**HAM-AP1-EB-01**	SM 4500-S2D-2011	856274		
92731696002	**HAM-AP1-EB-02**	SM 4500-S2D-2011	856275		
92731696003	**HAM-AP1-FB-01**	SM 4500-S2D-2011	856274		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Hammond AP-1
Pace Project No.: 92731696

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92731696004	**HAM-AP1-FB-02**	SM 4500-S2D-2011	856274		
92731696005	**HAM-AP1-FD-01**	SM 4500-S2D-2011	856274		
92731696006	**HAM-AP1-FD-02**	SM 4500-S2D-2011	856274		
92731696007	**HAM-INW-03**	SM 4500-S2D-2011	855942		
92731696008	**HAM-INW-04**	SM 4500-S2D-2011	856274		
92731696009	**HAM-INW-05**	SM 4500-S2D-2011	856274		
92731696010	**HAM-PT-07**	SM 4500-S2D-2011	856274		
92731696011	**HAM-PT-08**	SM 4500-S2D-2011	856274		
92731696012	**HAM-PT-09**	SM 4500-S2D-2011	855942		
92731696013	**HAM-PT-10**	SM 4500-S2D-2011	856274		
92731696014	**HAM-PT-11**	SM 4500-S2D-2011	855942		
92731696015	**HAM-PT-12**	SM 4500-S2D-2011	855942		
92731696016	**HAM-PT-13**	SM 4500-S2D-2011	856274		
92731696017	**HAM-PT-14**	SM 4500-S2D-2011	856274		
92731696018	**HAM-PT-15**	SM 4500-S2D-2011	856274		
92731696001	**HAM-AP1-EB-01**	EPA 300.0 Rev 2.1 1993	855697		
92731696002	**HAM-AP1-EB-02**	EPA 300.0 Rev 2.1 1993	855697		
92731696003	**HAM-AP1-FB-01**	EPA 300.0 Rev 2.1 1993	860766		
92731696004	**HAM-AP1-FB-02**	EPA 300.0 Rev 2.1 1993	855697		
92731696005	**HAM-AP1-FD-01**	EPA 300.0 Rev 2.1 1993	860766		
92731696006	**HAM-AP1-FD-02**	EPA 300.0 Rev 2.1 1993	855697		
92731696007	**HAM-INW-03**	EPA 300.0 Rev 2.1 1993	855920		
92731696008	**HAM-INW-04**	EPA 300.0 Rev 2.1 1993	855920		
92731696009	**HAM-INW-05**	EPA 300.0 Rev 2.1 1993	855920		
92731696010	**HAM-PT-07**	EPA 300.0 Rev 2.1 1993	855920		
92731696011	**HAM-PT-08**	EPA 300.0 Rev 2.1 1993	856238		
92731696012	**HAM-PT-09**	EPA 300.0 Rev 2.1 1993	855920		
92731696013	**HAM-PT-10**	EPA 300.0 Rev 2.1 1993	855920		
92731696014	**HAM-PT-11**	EPA 300.0 Rev 2.1 1993	855920		
92731696015	**HAM-PT-12**	EPA 300.0 Rev 2.1 1993	855920		
92731696016	**HAM-PT-13**	EPA 300.0 Rev 2.1 1993	855920		
92731696017	**HAM-PT-14**	EPA 300.0 Rev 2.1 1993	855920		
92731696018	**HAM-PT-15**	EPA 300.0 Rev 2.1 1993	855920		

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DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt

Effective Date: 12/01/2023

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

WO#: 92731696

92731696

Sample Condition Upon Receipt

Client Name: GA Power

Project #

Courier: ☐ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☑ Pace ☐ Other

Custody Seal Present? ☑ Yes ☐ No Seals Intact? ☑ Yes ☐ No ☐ N/A

Date/Initials Person Examining Contents: 5/17/24 HC

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 235

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 3.1 Correction Factor: Add/Subtract (°C) 0

Temp should be above freezing to 6°C

☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 3.1

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check map)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: W				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☐ N/A	

Field Data Required? ☐ Yes ☐ No

COMMENTS/SAMPLE DISCREPANCY

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date

Qualtrax ID: 69614

DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt

Effective Date: 12/01/2023

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Project #

Items	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH = 12) (Cl-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG9H-40 mL Amber NaHSO (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG4T-40 mL VOA NaTSO3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9M-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	VJ/GK (3 vials per MS)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH4)2S2O3 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-22 mL Scintillation Vials (N/A)	DG8U-40 mL Amber Unpreserved vials (N/A)
1		2	1			1	1																					
2		2	1			1	1																					
3		2	1			1	1																					
4		2	1			1	1																					
5		2	1			1	1																					
6		2	1			1	1																					
7																												
8																												
9																												
10																												
11																												
12																												

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of Hold, incorrect preservative, out of temp, incorrect container).

Page 2 of 2

Qualtrax ID: 60614

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: GA Power	Report To: ECS Contacts	Attention: Southern Co.
Address: Atlanta, GA	Copy To: Geosyntec Contacts	Company Name:
		Address:
Email To: ECS Contacts	Purchase Order No.: GPC82474-0001	Pace Quote Reference:
Phone: Fax:	Project Name: Hammond AP-1	Pace Project Manager: Sunnie Vera
Requested Due Date/TAT: 3 day	Project Number:	Pace Profile #: 10409

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER

☐ UST ☐ RCRA ☒ OTHER: CCR

Site Location STATE: GA

ITEM #	SAMPLE ID (A-Z, 0-9 / , -) Sample IDs MUST BE UNIQUE	Valid Matrix Codes (Matrix: DRINKING WATER, WATER, WASTE WATER, PRODUCT, SOIL/SOLID, OIL, WIPE, AIR, TISSUE, OTHER; Code: DW, WT, WW, P, SL, OL, WP, AR, TS, OT)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	Preservatives: H_2SO_4	Preservatives: HNO_3	Preservatives: HCl	Preservatives: NaOH	Preservatives: $Na_2S_2O_3$	Preservatives: Methanol	Preservatives: Other	Requested Analysis Filtered (Y/N): Y/N	Analysis Test: Chloride, Fluoride, Sulfate	Analysis Test: pH, Appendix III and IV metals	Analysis Test: Radium 226/228	Analysis Test: CCR	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	HAM-AP1-EB-01	WATER	WW	G	5/15/2024	1400				19	5	3	1					1		A	X	X	X	X	A	
2	HAM-AP1-EB-02	WATER	WW	G	5/15/2024	1535				19	5	3	1					1		B	X	X	X	X	B	
3	HAM-AP1-FB-01	WATER	WW	G	5/15/2024	1550				19	5	3	1					1		C	X	X	X	X	C	
4	HAM-AP1-FB-02	WATER	WW	G	5/15/2024	1715				19	5	3	1					1		D	X	X	X	X	D	
5	HAM-AP1-FD-01	WATER	WW	G	5/15/2024	1535				19	5	3	1					1		E	X	X	X	X	E	
6	HAM-AP1-FD-02	WATER	WW	G	5/15/2024	1550	AS 5/15/2024			19	5	3	1					1		F	X	X	X	X	F	
7																				G					G	
8							AS 5/15/2024													H					H	
9																				I					I	
10																				J					J	
11																				K					K	
12																				L					L	

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
ppa Codes: HAM-CCR-EA-092402-10	Anthony Szwajd / Geosyntec	5-17-24	1255	Ryan William / Pace	5/17/24	1265	
	Ryan William / Pace	5/17/24	1450		5/17	1430	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Anthony Szwajd, Jamie Newsome / Geosyntec Consultants, Inc.

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 05/16/24

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07 15-Feb-2007

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

Section A — Required Client Information:
Company: GA Power
Address: Atlanta, GA
Email To: SCS Contacts
Phone: Fax:
Requested Due Date/TAT: 5 Day

Section B — Required Project Information:
Report To: SCS Contacts
Copy To: Geosyntec Contacts
Purchase Order No.: UP-00247A-0007
Project Name: Hammond AP-1
Project Number:

Section C — Invoice Information:
Attention: Southern Co
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager: Hannah Varig
Pace Profile #: 12839

Page 1 of 1

REGULATORY AGENCY
NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: GA

Valid Matrix Codes: WATER (DW), WASTE WATER (WW), PRODUCT (P), SOIL/SOLID (SL), OIL (OL), WIPE (WP), AIR (AR), TISSUE (TS), OTHER (OT)

ITEM #	SAMPLE ID (One Character per Box. Sample IDs MUST BE UNIQUE)	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test	Y/N	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	HAM-INW-03	WG	G	5/14/2024	1400		10	6	0	1					1		N		
2	HAM-INW-04	WG	G	5/15/2024	1430		10	6	0	1					1		N		
3	HAM-INW-05	WG	G	5/15/2024	1148		10	6	0	1					1		N		
4	HAM-PT-07	WG	G	5/15/2024	1236		10	6	0	1					1		N		
5	HAM-PT-08	WG	G	5/15/2024	1457		10	6	0	1					1		N		
6	HAM-PT-09	WG	G	5/14/2024	1540		10	6	0	1					1		N		
7	HAM-PT-10	WG	G	5/15/2024	1157		10	6	0	1					1		N		
8	HAM-PT-11	WG	G	5/14/2024	1529		10	6	0	1					1		N		
9	HAM-PT-12	WG	G	5/14/2024	1205		10	6	0	1					1		N		
10	HAM-PT-13	WG	G	5/15/2024	1545		10	6	0	1					1		N		
11	HAM-PT-14	WG	G	5/15/2024	1627	AS 5/16/2024	10	6	0	1					1		N		
12	HAM-PT-15	WG	G	5/15/2024	1510		10	6	0	1					1		N		

Requested Analysis Filtered (Y/N): N N N N

Analysis Test: Dissolve Fluoride Sulfide; Total Alk. as CaCO3 (mg/L); Alkalinity (mg/L as CaCO3); TDS

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Use Code: HAM-CCR-GA-Voluntary	Anthony Sweet / Geosyntec	5-17-24	1255	Kyan Williams / Pace	5/17/24	1255	
	Kyan Williams / Pace	5/17/24	1430		5/17	1430	

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Anthony Sweet, Jamie Rowsome / Geosyntec Consultants, Inc
SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 05/16/24

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-Feb-2007

DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt

Effective Date: 12/01/2023

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA power

Project #:

Courier: ☐ Commercial ☐ Fed Ex ☑ Pace ☐ UPS ☐ USPS ☐ Other: ☐ Client

Custody Seal Present? ☑ Yes ☐ No Seals Intact? ☐ Yes ☐ No ☐ N/A

Date/Initials Person Examining Contents: 5/17/24 SW

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 73

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 3.1 Correction Factor: Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 3.1

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: S				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

Field Data Required? ☐ Yes ☐ No

COMMENTS/SAMPLE DISCREPANCY

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

Qualtrax ID: 69614

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

Project #

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Item #	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP6Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH >12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG9H-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VGFT-40 mL VOA Na2S2O3 (N/A)	VORU-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H2SO4 (N/A)	DG9U-40 mL Plastic Unpreserved (N/A)	VJGK (3 vials per kit)-VOA/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (W/A – lab)	SAP1-250 mL Sterile Plastic (N/A – lab)		BP3B-250 mL Plastic (HNO3)(H2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Sodium Vials (N/A)	DG0U-40 mL Amber Unpreserved (3 vials) (N/A)
1		2	1																									
2		2	1																									
3		2	1																									
4		2	1																									
5		2	1																									
6		2																										
7		2	1																									
8		2	1																									
9		2	1																									
10		2	1																									
11		2	1																									
12		2	1																									

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a noncompliance affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect container).

Page 2 of 2

Cooltrax ID: 69814

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

June 17, 2024

Kristen Jurinko
Southern Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, GA 30308

RE: Project: Hammond AP-1
Pace Project No.: 92733822

Dear Kristen Jurinko:

Enclosed are the analytical results for sample(s) received by the laboratory on May 31, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Asheville
- Pace Analytical Services - Peachtree Corners, GA

Revision 1: EB/FB/FD sample ID's amended.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Bonnie Vang
bonnie.vang@pacelabs.com
704-977-0968
Project Manager

Enclosures

cc: Kip Gray, Geosyntec
Christine Hug, Geosyntec Consultants, Inc.
Thomas Kessler, Geosyntec Consultants
Whitney Law, Geosyntec Consultants
Laura Midkiff, Southern Company
Caroline Nelson, Geosyntec Consultants, Inc
Anthony Szwast, Geosyntec Consultants

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: Hammond AP-1
Pace Project No.: 92733822

Pace Analytical Services Asheville
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Laboratory ID: 99030
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners
110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812
North Carolina Certification #: 381
South Carolina Certification #: 98011001
Virginia Certification #: 460204

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE SUMMARY

Project: Hammond AP-1
Pace Project No.: 92733822

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92733822001	**HAM-INW-03**	Water	05/29/24 14:14	05/31/24 12:05
92733822002	**HAM-PT-09**	Water	05/30/24 11:52	05/31/24 12:05
92733822003	**HAM-PT-10**	Water	05/30/24 14:40	05/31/24 12:05
92733822004	**HAM-PT-11**	Water	05/29/24 16:43	05/31/24 12:05
92733822005	**HAM-PT-12**	Water	05/29/24 12:08	05/31/24 12:05
92733822006	**HAM-AP1-EB-01**	Water	05/30/24 16:59	05/31/24 12:05
92733822007	**HAM-AP1-FB-01**	Water	05/30/24 16:52	05/31/24 12:05
92733822008	**HAM-AP1-FD-01**	Water	05/30/24 00:00	05/31/24 12:05

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Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: Hammond AP-1
Pace Project No.: 92733822

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92733822001	**HAM-INW-03**	EPA 6010D	AJM	6
		EPA 6020B	MT1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92733822002	**HAM-PT-09**	EPA 6010D	AJM	6
		EPA 6020B	MT1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92733822003	**HAM-PT-10**	EPA 6010D	AJM	6
		EPA 6020B	MT1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92733822004	**HAM-PT-11**	EPA 6010D	AJM	6
		EPA 6020B	MT1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92733822005	**HAM-PT-12**	EPA 6010D	AJM	6
		EPA 6020B	MT1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92733822006	**HAM-AP1-EB-01**	EPA 6010D	AJM	6
		EPA 6020B	MT1	13

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: Hammond AP-1
Pace Project No.: 92733822

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92733822007	**HAM-AP1-FB-01**	EPA 6010D	AJM	6
		EPA 6020B	MT1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92733822008	**HAM-AP1-FD-01**	EPA 6010D	AJM	6
		EPA 6020B	MT1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	JCM	3

PASI-A = Pace Analytical Services - Asheville
PASI-GA = Pace Analytical Services - Peachtree Corners, GA

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SUMMARY OF DETECTION

Project: Hammond AP-1
Pace Project No.: 92733822

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92733822001	**HAM-INW-03**					
EPA 6010D	Iron	0.14	mg/L	0.040	06/03/24 20:27	
EPA 6010D	Manganese	1.2	mg/L	0.040	06/03/24 20:27	
EPA 6010D	Potassium	6.1	mg/L	0.50	06/03/24 20:27	
EPA 6010D	Sodium	11.1	mg/L	1.0	06/03/24 20:27	
EPA 6010D	Calcium	144	mg/L	1.0	06/03/24 20:27	
EPA 6010D	Magnesium	16.5	mg/L	0.050	06/03/24 20:27	
EPA 6020B	Arsenic	0.0022J	mg/L	0.0050	06/04/24 16:51	
EPA 6020B	Barium	0.12	mg/L	0.0050	06/04/24 16:51	
EPA 6020B	Boron	1.5	mg/L	0.040	06/04/24 16:51	
EPA 6020B	Cobalt	0.00087J	mg/L	0.0050	06/04/24 16:51	
EPA 6020B	Lithium	0.0048J	mg/L	0.030	06/04/24 16:51	
EPA 6020B	Molybdenum	0.060	mg/L	0.010	06/04/24 16:51	
EPA 6020B	Selenium	0.0016J	mg/L	0.0050	06/04/24 16:51	
SM 2540C-2015	Total Dissolved Solids	610	mg/L	25.0	06/03/24 12:08	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	176	mg/L	5.0	06/05/24 17:10	
SM 2320B-2011	Alkalinity, Total as CaCO3	176	mg/L	5.0	06/05/24 17:10	
EPA 300.0 Rev 2.1 1993	Chloride	61.6	mg/L	1.0	06/01/24 22:59	
EPA 300.0 Rev 2.1 1993	Fluoride	0.13	mg/L	0.10	06/01/24 22:59	
EPA 300.0 Rev 2.1 1993	Sulfate	187	mg/L	4.0	06/02/24 04:57	
92733822002	**HAM-PT-09**					
EPA 6010D	Iron	0.24	mg/L	0.040	06/03/24 20:31	
EPA 6010D	Manganese	0.28	mg/L	0.040	06/03/24 20:31	
EPA 6010D	Potassium	6.2	mg/L	0.50	06/03/24 20:31	
EPA 6010D	Sodium	11.5	mg/L	1.0	06/03/24 20:31	
EPA 6010D	Calcium	94.9	mg/L	1.0	06/03/24 20:31	
EPA 6010D	Magnesium	19.9	mg/L	0.050	06/03/24 20:31	
EPA 6020B	Arsenic	0.0022J	mg/L	0.0050	06/04/24 16:55	
EPA 6020B	Barium	0.062	mg/L	0.0050	06/04/24 16:55	
EPA 6020B	Boron	1.5	mg/L	0.040	06/04/24 16:55	
EPA 6020B	Cadmium	0.00010J	mg/L	0.00050	06/04/24 16:55	
EPA 6020B	Cobalt	0.0010J	mg/L	0.0050	06/04/24 16:55	
EPA 6020B	Molybdenum	0.24	mg/L	0.010	06/04/24 16:55	
SM 2540C-2015	Total Dissolved Solids	532	mg/L	25.0	06/03/24 12:09	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	138	mg/L	5.0	06/07/24 15:22	
SM 2320B-2011	Alkalinity, Total as CaCO3	138	mg/L	5.0	06/07/24 15:22	
EPA 300.0 Rev 2.1 1993	Chloride	52.4	mg/L	1.0	06/01/24 23:14	
EPA 300.0 Rev 2.1 1993	Fluoride	0.33	mg/L	0.10	06/01/24 23:14	
EPA 300.0 Rev 2.1 1993	Sulfate	133	mg/L	3.0	06/02/24 05:41	
92733822003	**HAM-PT-10**					
EPA 6010D	Iron	0.21	mg/L	0.040	06/03/24 20:35	
EPA 6010D	Manganese	0.52	mg/L	0.040	06/03/24 20:35	
EPA 6010D	Potassium	6.6	mg/L	0.50	06/03/24 20:35	
EPA 6010D	Sodium	9.5	mg/L	1.0	06/03/24 20:35	
EPA 6010D	Calcium	95.9	mg/L	1.0	06/03/24 20:35	
EPA 6010D	Magnesium	13.1	mg/L	0.050	06/03/24 20:35	
EPA 6020B	Arsenic	0.0018J	mg/L	0.0050	06/04/24 16:59	

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SUMMARY OF DETECTION

Project: Hammond AP-1
Pace Project No.: 92733822

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92733822003	**HAM-PT-10**					
EPA 6020B	Barium	0.052	mg/L	0.0050	06/04/24 16:59	
EPA 6020B	Boron	1.4	mg/L	0.040	06/04/24 16:59	
EPA 6020B	Cobalt	0.0014J	mg/L	0.0050	06/04/24 16:59	
EPA 6020B	Molybdenum	0.053	mg/L	0.010	06/04/24 16:59	
SM 2540C-2015	Total Dissolved Solids	495	mg/L	25.0	06/03/24 12:10	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	116	mg/L	5.0	06/07/24 15:31	
SM 2320B-2011	Alkalinity, Total as CaCO3	116	mg/L	5.0	06/07/24 15:31	
EPA 300.0 Rev 2.1 1993	Chloride	53.0	mg/L	1.0	06/01/24 23:57	
EPA 300.0 Rev 2.1 1993	Fluoride	0.17	mg/L	0.10	06/01/24 23:57	
EPA 300.0 Rev 2.1 1993	Sulfate	124	mg/L	3.0	06/02/24 05:55	
92733822004	**HAM-PT-11**					
EPA 6010D	Iron	0.10	mg/L	0.040	06/03/24 20:39	
EPA 6010D	Manganese	0.27	mg/L	0.040	06/03/24 20:39	
EPA 6010D	Potassium	6.5	mg/L	0.50	06/03/24 20:39	
EPA 6010D	Sodium	9.2	mg/L	1.0	06/03/24 20:39	
EPA 6010D	Calcium	95.7	mg/L	1.0	06/03/24 20:39	
EPA 6010D	Magnesium	16.7	mg/L	0.050	06/03/24 20:39	
EPA 6020B	Arsenic	0.0021J	mg/L	0.0050	06/04/24 17:03	
EPA 6020B	Barium	0.072	mg/L	0.0050	06/04/24 17:03	
EPA 6020B	Boron	1.4	mg/L	0.040	06/04/24 17:03	
EPA 6020B	Cadmium	0.00013J	mg/L	0.00050	06/04/24 17:03	
EPA 6020B	Cobalt	0.0013J	mg/L	0.0050	06/04/24 17:03	
EPA 6020B	Molybdenum	0.17	mg/L	0.010	06/04/24 17:03	
SM 2540C-2015	Total Dissolved Solids	474	mg/L	25.0	06/03/24 12:08	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	143	mg/L	5.0	06/05/24 17:35	
SM 2320B-2011	Alkalinity, Total as CaCO3	143	mg/L	5.0	06/05/24 17:35	
EPA 300.0 Rev 2.1 1993	Chloride	39.4	mg/L	1.0	06/02/24 00:11	
EPA 300.0 Rev 2.1 1993	Fluoride	0.31	mg/L	0.10	06/02/24 00:11	
EPA 300.0 Rev 2.1 1993	Sulfate	118	mg/L	3.0	06/02/24 06:09	
92733822005	**HAM-PT-12**					
EPA 6010D	Iron	0.032J	mg/L	0.040	06/03/24 20:43	
EPA 6010D	Manganese	0.75	mg/L	0.040	06/03/24 20:43	
EPA 6010D	Potassium	5.7	mg/L	0.50	06/03/24 20:43	
EPA 6010D	Sodium	9.6	mg/L	1.0	06/03/24 20:43	
EPA 6010D	Calcium	91.0	mg/L	1.0	06/03/24 20:43	
EPA 6010D	Magnesium	18.6	mg/L	0.050	06/03/24 20:43	
EPA 6020B	Arsenic	0.0026J	mg/L	0.0050	06/04/24 17:07	
EPA 6020B	Barium	0.069	mg/L	0.0050	06/04/24 17:07	
EPA 6020B	Boron	1.5	mg/L	0.040	06/04/24 17:07	
EPA 6020B	Cadmium	0.00011J	mg/L	0.00050	06/04/24 17:07	
EPA 6020B	Cobalt	0.0021J	mg/L	0.0050	06/04/24 17:07	
EPA 6020B	Molybdenum	0.22	mg/L	0.010	06/04/24 17:07	
EPA 6020B	Selenium	0.0015J	mg/L	0.0050	06/04/24 17:07	
SM 2540C-2015	Total Dissolved Solids	488	mg/L	25.0	06/03/24 12:08	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	136	mg/L	5.0	06/07/24 13:55	
SM 2320B-2011	Alkalinity, Total as CaCO3	136	mg/L	5.0	06/07/24 13:55	

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SUMMARY OF DETECTION

Project: Hammond AP-1
Pace Project No.: 92733822

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92733822005	**HAM-PT-12**					
EPA 300.0 Rev 2.1 1993	Chloride	48.0	mg/L	1.0	06/03/24 00:51	
EPA 300.0 Rev 2.1 1993	Fluoride	0.31	mg/L	0.10	06/03/24 00:51	
EPA 300.0 Rev 2.1 1993	Sulfate	131	mg/L	3.0	06/03/24 03:15	
92733822006	**HAM-AP1-EB-01**					
EPA 6010D	Calcium	0.13J	mg/L	1.0	06/03/24 20:47	
EPA 6010D	Magnesium	0.030J	mg/L	0.050	06/03/24 20:47	
EPA 6020B	Arsenic	0.0044J	mg/L	0.0050	06/04/24 17:16	
92733822007	**HAM-AP1-FB-01**					
EPA 6020B	Arsenic	0.0040J	mg/L	0.0050	06/04/24 17:20	
EPA 6020B	Selenium	0.0011J	mg/L	0.0050	06/04/24 17:20	
92733822008	**HAM-AP1-FD-01**					
EPA 6010D	Iron	0.26	mg/L	0.040	06/03/24 21:41	
EPA 6010D	Manganese	0.27	mg/L	0.040	06/03/24 21:41	
EPA 6010D	Calcium	97.3	mg/L	1.0	06/03/24 21:41	
EPA 6010D	Magnesium	20.9	mg/L	0.050	06/03/24 21:41	
EPA 6010D	Potassium	6.4	mg/L	0.50	06/04/24 14:10	
EPA 6010D	Sodium	12.0	mg/L	1.0	06/04/24 14:10	
EPA 6020B	Arsenic	0.0025J	mg/L	0.0050	06/04/24 17:24	
EPA 6020B	Barium	0.062	mg/L	0.0050	06/04/24 17:24	
EPA 6020B	Boron	1.4	mg/L	0.040	06/04/24 17:24	
EPA 6020B	Cadmium	0.00014J	mg/L	0.00050	06/04/24 17:24	
EPA 6020B	Cobalt	0.0010J	mg/L	0.0050	06/04/24 17:24	
EPA 6020B	Molybdenum	0.24	mg/L	0.010	06/04/24 17:24	
EPA 6020B	Selenium	0.0012J	mg/L	0.0050	06/04/24 17:24	
SM 2540C-2015	Total Dissolved Solids	500	mg/L	25.0	06/03/24 12:10	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	140	mg/L	5.0	06/07/24 15:48	
SM 2320B-2011	Alkalinity, Total as CaCO3	140	mg/L	5.0	06/07/24 15:48	
EPA 300.0 Rev 2.1 1993	Chloride	51.3	mg/L	1.0	06/03/24 01:06	
EPA 300.0 Rev 2.1 1993	Fluoride	0.32	mg/L	0.10	06/03/24 01:06	
EPA 300.0 Rev 2.1 1993	Sulfate	129	mg/L	3.0	06/03/24 03:29	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92733822

Sample: HAM-INW-03 **Lab ID: 92733822001** Collected: 05/29/24 14:14 Received: 05/31/24 12:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.14**	mg/L	0.040	0.025	1	05/31/24 17:19	06/03/24 20:27	7439-89-6	
Manganese	**1.2**	mg/L	0.040	0.011	1	05/31/24 17:19	06/03/24 20:27	7439-96-5	
Potassium	**6.1**	mg/L	0.50	0.15	1	05/31/24 17:19	06/03/24 20:27	7440-09-7	
Sodium	**11.1**	mg/L	1.0	0.58	1	05/31/24 17:19	06/03/24 20:27	7440-23-5	
Calcium	**144**	mg/L	1.0	0.12	1	05/31/24 17:19	06/03/24 20:27	7440-70-2	
Magnesium	**16.5**	mg/L	0.050	0.012	1	05/31/24 17:19	06/03/24 20:27	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	05/31/24 16:57	06/04/24 16:51	7440-36-0	
Arsenic	**0.0022J**	mg/L	0.0050	0.00084	1	05/31/24 16:57	06/04/24 16:51	7440-38-2	
Barium	**0.12**	mg/L	0.0050	0.00047	1	05/31/24 16:57	06/04/24 16:51	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	05/31/24 16:57	06/04/24 16:51	7440-41-7	
Boron	**1.5**	mg/L	0.040	0.012	1	05/31/24 16:57	06/04/24 16:51	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	05/31/24 16:57	06/04/24 16:51	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	05/31/24 16:57	06/04/24 16:51	7440-47-3	
Cobalt	**0.00087J**	mg/L	0.0050	0.00032	1	05/31/24 16:57	06/04/24 16:51	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	05/31/24 16:57	06/04/24 16:51	7439-92-1	
Lithium	**0.0048J**	mg/L	0.030	0.0016	1	05/31/24 16:57	06/04/24 16:51	7439-93-2	
Molybdenum	**0.060**	mg/L	0.010	0.00062	1	05/31/24 16:57	06/04/24 16:51	7439-98-7	
Selenium	**0.0016J**	mg/L	0.0050	0.00096	1	05/31/24 16:57	06/04/24 16:51	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	05/31/24 16:57	06/04/24 16:51	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	06/10/24 17:00	06/11/24 09:10	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**610**	mg/L	25.0	25.0	1		06/03/24 12:08		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**176**	mg/L	5.0	5.0	1		06/05/24 17:10		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		06/05/24 17:10		
Alkalinity, Total as CaCO3	**176**	mg/L	5.0	5.0	1		06/05/24 17:10		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		06/02/24 02:01	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**61.6**	mg/L	1.0	0.60	1		06/01/24 22:59	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92733822

Sample: HAM-INW-03 **Lab ID: 92733822001** Collected: 05/29/24 14:14 Received: 05/31/24 12:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.13**	mg/L	0.10	0.050	1		06/01/24 22:59	16984-48-8	
Sulfate	**187**	mg/L	4.0	2.0	4		06/02/24 04:57	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92733822

Sample: HAM-PT-09 **Lab ID: 92733822002** Collected: 05/30/24 11:52 Received: 05/31/24 12:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.24**	mg/L	0.040	0.025	1	05/31/24 17:19	06/03/24 20:31	7439-89-6	
Manganese	**0.28**	mg/L	0.040	0.011	1	05/31/24 17:19	06/03/24 20:31	7439-96-5	
Potassium	**6.2**	mg/L	0.50	0.15	1	05/31/24 17:19	06/03/24 20:31	7440-09-7	
Sodium	**11.5**	mg/L	1.0	0.58	1	05/31/24 17:19	06/03/24 20:31	7440-23-5	
Calcium	**94.9**	mg/L	1.0	0.12	1	05/31/24 17:19	06/03/24 20:31	7440-70-2	
Magnesium	**19.9**	mg/L	0.050	0.012	1	05/31/24 17:19	06/03/24 20:31	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	05/31/24 16:57	06/04/24 16:55	7440-36-0	
Arsenic	**0.0022J**	mg/L	0.0050	0.00084	1	05/31/24 16:57	06/04/24 16:55	7440-38-2	
Barium	**0.062**	mg/L	0.0050	0.00047	1	05/31/24 16:57	06/04/24 16:55	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	05/31/24 16:57	06/04/24 16:55	7440-41-7	
Boron	**1.5**	mg/L	0.040	0.012	1	05/31/24 16:57	06/04/24 16:55	7440-42-8	
Cadmium	**0.00010J**	mg/L	0.00050	0.00010	1	05/31/24 16:57	06/04/24 16:55	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	05/31/24 16:57	06/04/24 16:55	7440-47-3	
Cobalt	**0.0010J**	mg/L	0.0050	0.00032	1	05/31/24 16:57	06/04/24 16:55	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	05/31/24 16:57	06/04/24 16:55	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	05/31/24 16:57	06/04/24 16:55	7439-93-2	
Molybdenum	**0.24**	mg/L	0.010	0.00062	1	05/31/24 16:57	06/04/24 16:55	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	05/31/24 16:57	06/04/24 16:55	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	05/31/24 16:57	06/04/24 16:55	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	06/10/24 17:00	06/11/24 09:32	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**532**	mg/L	25.0	25.0	1		06/03/24 12:09		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**138**	mg/L	5.0	5.0	1		06/07/24 15:22		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		06/07/24 15:22		
Alkalinity, Total as CaCO3	**138**	mg/L	5.0	5.0	1		06/07/24 15:22		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		06/02/24 02:05	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**52.4**	mg/L	1.0	0.60	1		06/01/24 23:14	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92733822

Sample: HAM-PT-09 **Lab ID: 92733822002** Collected: 05/30/24 11:52 Received: 05/31/24 12:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.33**	mg/L	0.10	0.050	1		06/01/24 23:14	16984-48-8	
Sulfate	**133**	mg/L	3.0	1.5	3		06/02/24 05:41	14808-79-8	

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92733822

Sample: HAM-PT-10 **Lab ID: 92733822003** Collected: 05/30/24 14:40 Received: 05/31/24 12:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.21**	mg/L	0.040	0.025	1	05/31/24 17:19	06/03/24 20:35	7439-89-6	
Manganese	**0.52**	mg/L	0.040	0.011	1	05/31/24 17:19	06/03/24 20:35	7439-96-5	
Potassium	**6.6**	mg/L	0.50	0.15	1	05/31/24 17:19	06/03/24 20:35	7440-09-7	
Sodium	**9.5**	mg/L	1.0	0.58	1	05/31/24 17:19	06/03/24 20:35	7440-23-5	
Calcium	**95.9**	mg/L	1.0	0.12	1	05/31/24 17:19	06/03/24 20:35	7440-70-2	
Magnesium	**13.1**	mg/L	0.050	0.012	1	05/31/24 17:19	06/03/24 20:35	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	05/31/24 16:57	06/04/24 16:59	7440-36-0	
Arsenic	**0.0018J**	mg/L	0.0050	0.00084	1	05/31/24 16:57	06/04/24 16:59	7440-38-2	
Barium	**0.052**	mg/L	0.0050	0.00047	1	05/31/24 16:57	06/04/24 16:59	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	05/31/24 16:57	06/04/24 16:59	7440-41-7	
Boron	**1.4**	mg/L	0.040	0.012	1	05/31/24 16:57	06/04/24 16:59	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	05/31/24 16:57	06/04/24 16:59	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	05/31/24 16:57	06/04/24 16:59	7440-47-3	
Cobalt	**0.0014J**	mg/L	0.0050	0.00032	1	05/31/24 16:57	06/04/24 16:59	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	05/31/24 16:57	06/04/24 16:59	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	05/31/24 16:57	06/04/24 16:59	7439-93-2	
Molybdenum	**0.053**	mg/L	0.010	0.00062	1	05/31/24 16:57	06/04/24 16:59	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	05/31/24 16:57	06/04/24 16:59	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	05/31/24 16:57	06/04/24 16:59	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	06/10/24 17:00	06/11/24 09:35	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**495**	mg/L	25.0	25.0	1		06/03/24 12:10		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**116**	mg/L	5.0	5.0	1		06/07/24 15:31		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		06/07/24 15:31		
Alkalinity, Total as CaCO3	**116**	mg/L	5.0	5.0	1		06/07/24 15:31		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		06/02/24 02:05	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**53.0**	mg/L	1.0	0.60	1		06/01/24 23:57	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92733822

Sample: HAM-PT-10 **Lab ID: 92733822003** Collected: 05/30/24 14:40 Received: 05/31/24 12:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.17**	mg/L	0.10	0.050	1		06/01/24 23:57	16984-48-8	
Sulfate	**124**	mg/L	3.0	1.5	3		06/02/24 05:55	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92733822

Sample: HAM-PT-11 **Lab ID: 92733822004** Collected: 05/29/24 16:43 Received: 05/31/24 12:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.10**	mg/L	0.040	0.025	1	05/31/24 17:19	06/03/24 20:39	7439-89-6	
Manganese	**0.27**	mg/L	0.040	0.011	1	05/31/24 17:19	06/03/24 20:39	7439-96-5	
Potassium	**6.5**	mg/L	0.50	0.15	1	05/31/24 17:19	06/03/24 20:39	7440-09-7	
Sodium	**9.2**	mg/L	1.0	0.58	1	05/31/24 17:19	06/03/24 20:39	7440-23-5	
Calcium	**95.7**	mg/L	1.0	0.12	1	05/31/24 17:19	06/03/24 20:39	7440-70-2	
Magnesium	**16.7**	mg/L	0.050	0.012	1	05/31/24 17:19	06/03/24 20:39	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	05/31/24 16:57	06/04/24 17:03	7440-36-0	
Arsenic	**0.0021J**	mg/L	0.0050	0.00084	1	05/31/24 16:57	06/04/24 17:03	7440-38-2	
Barium	**0.072**	mg/L	0.0050	0.00047	1	05/31/24 16:57	06/04/24 17:03	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	05/31/24 16:57	06/04/24 17:03	7440-41-7	
Boron	**1.4**	mg/L	0.040	0.012	1	05/31/24 16:57	06/04/24 17:03	7440-42-8	
Cadmium	**0.00013J**	mg/L	0.00050	0.00010	1	05/31/24 16:57	06/04/24 17:03	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	05/31/24 16:57	06/04/24 17:03	7440-47-3	
Cobalt	**0.0013J**	mg/L	0.0050	0.00032	1	05/31/24 16:57	06/04/24 17:03	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	05/31/24 16:57	06/04/24 17:03	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	05/31/24 16:57	06/04/24 17:03	7439-93-2	
Molybdenum	**0.17**	mg/L	0.010	0.00062	1	05/31/24 16:57	06/04/24 17:03	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	05/31/24 16:57	06/04/24 17:03	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	05/31/24 16:57	06/04/24 17:03	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	06/10/24 17:00	06/11/24 09:37	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**474**	mg/L	25.0	25.0	1		06/03/24 12:08		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**143**	mg/L	5.0	5.0	1		06/05/24 17:35		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		06/05/24 17:35		
Alkalinity, Total as CaCO3	**143**	mg/L	5.0	5.0	1		06/05/24 17:35		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		06/02/24 02:01	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**39.4**	mg/L	1.0	0.60	1		06/02/24 00:11	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92733822

Sample: HAM-PT-11 **Lab ID: 92733822004** Collected: 05/29/24 16:43 Received: 05/31/24 12:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.31**	mg/L	0.10	0.050	1		06/02/24 00:11	16984-48-8	
Sulfate	**118**	mg/L	3.0	1.5	3		06/02/24 06:09	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92733822

Sample: HAM-PT-12 **Lab ID: 92733822005** Collected: 05/29/24 12:08 Received: 05/31/24 12:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.032J**	mg/L	0.040	0.025	1	05/31/24 17:19	06/03/24 20:43	7439-89-6	
Manganese	**0.75**	mg/L	0.040	0.011	1	05/31/24 17:19	06/03/24 20:43	7439-96-5	
Potassium	**5.7**	mg/L	0.50	0.15	1	05/31/24 17:19	06/03/24 20:43	7440-09-7	
Sodium	**9.6**	mg/L	1.0	0.58	1	05/31/24 17:19	06/03/24 20:43	7440-23-5	
Calcium	**91.0**	mg/L	1.0	0.12	1	05/31/24 17:19	06/03/24 20:43	7440-70-2	
Magnesium	**18.6**	mg/L	0.050	0.012	1	05/31/24 17:19	06/03/24 20:43	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	05/31/24 16:57	06/04/24 17:07	7440-36-0	
Arsenic	**0.0026J**	mg/L	0.0050	0.00084	1	05/31/24 16:57	06/04/24 17:07	7440-38-2	
Barium	**0.069**	mg/L	0.0050	0.00047	1	05/31/24 16:57	06/04/24 17:07	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	05/31/24 16:57	06/04/24 17:07	7440-41-7	
Boron	**1.5**	mg/L	0.040	0.012	1	05/31/24 16:57	06/04/24 17:07	7440-42-8	
Cadmium	**0.00011J**	mg/L	0.00050	0.00010	1	05/31/24 16:57	06/04/24 17:07	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	05/31/24 16:57	06/04/24 17:07	7440-47-3	
Cobalt	**0.0021J**	mg/L	0.0050	0.00032	1	05/31/24 16:57	06/04/24 17:07	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	05/31/24 16:57	06/04/24 17:07	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	05/31/24 16:57	06/04/24 17:07	7439-93-2	
Molybdenum	**0.22**	mg/L	0.010	0.00062	1	05/31/24 16:57	06/04/24 17:07	7439-98-7	
Selenium	**0.0015J**	mg/L	0.0050	0.00096	1	05/31/24 16:57	06/04/24 17:07	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	05/31/24 16:57	06/04/24 17:07	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	06/10/24 17:00	06/11/24 09:40	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**488**	mg/L	25.0	25.0	1		06/03/24 12:08		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**136**	mg/L	5.0	5.0	1		06/07/24 13:55		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		06/07/24 13:55		
Alkalinity, Total as CaCO3	**136**	mg/L	5.0	5.0	1		06/07/24 13:55		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		06/02/24 02:01	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**48.0**	mg/L	1.0	0.60	1		06/03/24 00:51	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92733822

Sample: HAM-PT-12 **Lab ID: 92733822005** Collected: 05/29/24 12:08 Received: 05/31/24 12:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.31**	mg/L	0.10	0.050	1		06/03/24 00:51	16984-48-8	
Sulfate	**131**	mg/L	3.0	1.5	3		06/03/24 03:15	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92733822

Sample: HAM-AP1-EB-01 **Lab ID: 92733822006** Collected: 05/30/24 16:59 Received: 05/31/24 12:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	05/31/24 17:19	06/03/24 20:47	7439-89-6	
Manganese	ND	mg/L	0.040	0.011	1	05/31/24 17:19	06/03/24 20:47	7439-96-5	
Potassium	ND	mg/L	0.50	0.15	1	05/31/24 17:19	06/03/24 20:47	7440-09-7	
Sodium	ND	mg/L	1.0	0.58	1	05/31/24 17:19	06/03/24 20:47	7440-23-5	
Calcium	**0.13J**	mg/L	1.0	0.12	1	05/31/24 17:19	06/03/24 20:47	7440-70-2	
Magnesium	**0.030J**	mg/L	0.050	0.012	1	05/31/24 17:19	06/03/24 20:47	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	05/31/24 16:57	06/04/24 17:16	7440-36-0	
Arsenic	**0.0044J**	mg/L	0.0050	0.00084	1	05/31/24 16:57	06/04/24 17:16	7440-38-2	
Barium	ND	mg/L	0.0050	0.00047	1	05/31/24 16:57	06/04/24 17:16	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	05/31/24 16:57	06/04/24 17:16	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	05/31/24 16:57	06/04/24 17:16	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	05/31/24 16:57	06/04/24 17:16	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	05/31/24 16:57	06/04/24 17:16	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	05/31/24 16:57	06/04/24 17:16	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	05/31/24 16:57	06/04/24 17:16	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	05/31/24 16:57	06/04/24 17:16	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	05/31/24 16:57	06/04/24 17:16	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	05/31/24 16:57	06/04/24 17:16	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	05/31/24 16:57	06/04/24 17:16	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	06/10/24 17:00	06/11/24 09:43	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		06/03/24 12:10		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		06/07/24 15:40		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		06/07/24 15:40		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		06/07/24 15:40		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		06/02/24 02:06	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		06/02/24 22:00	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92733822

Sample: HAM-AP1-EB-01 **Lab ID: 92733822006** Collected: 05/30/24 16:59 Received: 05/31/24 12:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	ND	mg/L	0.10	0.050	1		06/02/24 22:00	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		06/02/24 22:00	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92733822

Sample: HAM-AP1-FB-01 **Lab ID: 92733822007** Collected: 05/30/24 16:52 Received: 05/31/24 12:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	05/31/24 17:19	06/03/24 20:51	7439-89-6	
Manganese	ND	mg/L	0.040	0.011	1	05/31/24 17:19	06/03/24 20:51	7439-96-5	
Potassium	ND	mg/L	0.50	0.15	1	05/31/24 17:19	06/03/24 20:51	7440-09-7	
Sodium	ND	mg/L	1.0	0.58	1	05/31/24 17:19	06/03/24 20:51	7440-23-5	
Calcium	ND	mg/L	1.0	0.12	1	05/31/24 17:19	06/03/24 20:51	7440-70-2	
Magnesium	ND	mg/L	0.050	0.012	1	05/31/24 17:19	06/03/24 20:51	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	05/31/24 16:57	06/04/24 17:20	7440-36-0	
Arsenic	**0.0040J**	mg/L	0.0050	0.00084	1	05/31/24 16:57	06/04/24 17:20	7440-38-2	
Barium	ND	mg/L	0.0050	0.00047	1	05/31/24 16:57	06/04/24 17:20	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	05/31/24 16:57	06/04/24 17:20	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	05/31/24 16:57	06/04/24 17:20	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	05/31/24 16:57	06/04/24 17:20	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	05/31/24 16:57	06/04/24 17:20	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	05/31/24 16:57	06/04/24 17:20	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	05/31/24 16:57	06/04/24 17:20	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	05/31/24 16:57	06/04/24 17:20	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	05/31/24 16:57	06/04/24 17:20	7439-98-7	
Selenium	**0.0011J**	mg/L	0.0050	0.00096	1	05/31/24 16:57	06/04/24 17:20	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	05/31/24 16:57	06/04/24 17:20	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	06/10/24 17:00	06/11/24 09:45	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		06/03/24 12:10		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		06/07/24 15:44		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		06/07/24 15:44		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		06/07/24 15:44		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		06/02/24 02:06	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		06/02/24 22:14	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92733822

Sample: HAM-AP1-FB-01 **Lab ID: 92733822007** Collected: 05/30/24 16:52 Received: 05/31/24 12:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	ND	mg/L	0.10	0.050	1		06/02/24 22:14	16984-48-8	M1
Sulfate	ND	mg/L	1.0	0.50	1		06/02/24 22:14	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92733822

Sample: HAM-AP1-FD-01 **Lab ID: 92733822008** Collected: 05/30/24 00:00 Received: 05/31/24 12:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.26**	mg/L	0.040	0.025	1	05/31/24 17:19	06/03/24 21:41	7439-89-6	
Manganese	**0.27**	mg/L	0.040	0.011	1	05/31/24 17:19	06/03/24 21:41	7439-96-5	
Calcium	**97.3**	mg/L	1.0	0.12	1	05/31/24 17:19	06/03/24 21:41	7440-70-2	
Magnesium	**20.9**	mg/L	0.050	0.012	1	05/31/24 17:19	06/03/24 21:41	7439-95-4	
Potassium	**6.4**	mg/L	0.50	0.15	1	05/31/24 17:19	06/04/24 14:10	7440-09-7	
Sodium	**12.0**	mg/L	1.0	0.58	1	05/31/24 17:19	06/04/24 14:10	7440-23-5	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	05/31/24 16:57	06/04/24 17:24	7440-36-0	
Arsenic	**0.0025J**	mg/L	0.0050	0.00084	1	05/31/24 16:57	06/04/24 17:24	7440-38-2	
Barium	**0.062**	mg/L	0.0050	0.00047	1	05/31/24 16:57	06/04/24 17:24	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	05/31/24 16:57	06/04/24 17:24	7440-41-7	
Boron	**1.4**	mg/L	0.040	0.012	1	05/31/24 16:57	06/04/24 17:24	7440-42-8	
Cadmium	**0.00014J**	mg/L	0.00050	0.00010	1	05/31/24 16:57	06/04/24 17:24	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	05/31/24 16:57	06/04/24 17:24	7440-47-3	
Cobalt	**0.0010J**	mg/L	0.0050	0.00032	1	05/31/24 16:57	06/04/24 17:24	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	05/31/24 16:57	06/04/24 17:24	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	05/31/24 16:57	06/04/24 17:24	7439-93-2	
Molybdenum	**0.24**	mg/L	0.010	0.00062	1	05/31/24 16:57	06/04/24 17:24	7439-98-7	
Selenium	**0.0012J**	mg/L	0.0050	0.00096	1	05/31/24 16:57	06/04/24 17:24	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	05/31/24 16:57	06/04/24 17:24	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	06/10/24 17:00	06/11/24 09:48	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**500**	mg/L	25.0	25.0	1		06/03/24 12:10		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**140**	mg/L	5.0	5.0	1		06/07/24 15:48		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		06/07/24 15:48		
Alkalinity, Total as CaCO3	**140**	mg/L	5.0	5.0	1		06/07/24 15:48		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		06/02/24 02:06	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**51.3**	mg/L	1.0	0.60	1		06/03/24 01:06	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92733822

Sample: HAM-AP1-FD-01 **Lab ID: 92733822008** Collected: 05/30/24 00:00 Received: 05/31/24 12:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.32**	mg/L	0.10	0.050	1		06/03/24 01:06	16984-48-8	
Sulfate	**129**	mg/L	3.0	1.5	3		06/03/24 03:29	14808-79-8	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92733822

QC Batch: 858318
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92733822001, 92733822002, 92733822003, 92733822004, 92733822005, 92733822006, 92733822007, 92733822008

METHOD BLANK: 4427514 Matrix: Water
Associated Lab Samples: 92733822001, 92733822002, 92733822003, 92733822004, 92733822005, 92733822006, 92733822007, 92733822008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	06/03/24 19:29	
Iron	mg/L	ND	0.040	0.025	06/03/24 19:29	
Magnesium	mg/L	ND	0.050	0.012	06/03/24 19:29	
Manganese	mg/L	ND	0.040	0.011	06/03/24 19:29	
Potassium	mg/L	ND	0.50	0.15	06/03/24 19:29	
Sodium	mg/L	ND	1.0	0.58	06/03/24 19:29	

LABORATORY CONTROL SAMPLE: 4427515

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0	102	80-120	
Iron	mg/L	1	1.0	103	80-120	
Magnesium	mg/L	1	1.0	104	80-120	
Manganese	mg/L	1	1.0	102	80-120	
Potassium	mg/L	1	1.0	102	80-120	
Sodium	mg/L	1	1.1	110	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4427516 4427517

Parameter	Units	92733547001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	37.2	1	1	38.6	39.0	141	186	75-125	1	20	M1
Iron	mg/L	0.21	1	1	1.2	1.2	100	100	75-125	0	20	
Magnesium	mg/L	8.5	1	1	9.5	9.6	101	112	75-125	1	20	
Manganese	mg/L	ND	1	1	0.99	1.0	97	98	75-125	1	20	
Potassium	mg/L	2580 ug/L	1	1	3.4	3.5	85	88	75-125	1	20	
Sodium	mg/L	67.1	1	1	68.5	69.1	139	197	75-125	1	20	M1

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92733822

QC Batch: 858301
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92733822001, 92733822002, 92733822003, 92733822004, 92733822005, 92733822006, 92733822007, 92733822008

METHOD BLANK: 4427464 Matrix: Water
Associated Lab Samples: 92733822001, 92733822002, 92733822003, 92733822004, 92733822005, 92733822006, 92733822007, 92733822008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	0.0010J	0.0030	0.00054	06/04/24 15:49	
Arsenic	mg/L	ND	0.0050	0.00084	06/04/24 15:49	
Barium	mg/L	ND	0.0050	0.00047	06/04/24 15:49	
Beryllium	mg/L	ND	0.00050	0.000094	06/04/24 15:49	
Boron	mg/L	ND	0.040	0.012	06/04/24 15:49	
Cadmium	mg/L	ND	0.00050	0.00010	06/04/24 15:49	
Chromium	mg/L	ND	0.0050	0.0019	06/04/24 15:49	
Cobalt	mg/L	ND	0.0050	0.00032	06/04/24 15:49	
Lead	mg/L	ND	0.0010	0.00016	06/04/24 15:49	
Lithium	mg/L	ND	0.030	0.0016	06/04/24 15:49	
Molybdenum	mg/L	ND	0.010	0.00062	06/04/24 15:49	
Selenium	mg/L	ND	0.0050	0.00096	06/04/24 15:49	
Thallium	mg/L	ND	0.0010	0.00038	06/04/24 15:49	

LABORATORY CONTROL SAMPLE: 4427465

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	111	80-120	
Arsenic	mg/L	0.1	0.11	106	80-120	
Barium	mg/L	0.1	0.11	105	80-120	
Beryllium	mg/L	0.1	0.10	103	80-120	
Boron	mg/L	1	0.98	98	80-120	
Cadmium	mg/L	0.1	0.10	101	80-120	
Chromium	mg/L	0.1	0.096	96	80-120	
Cobalt	mg/L	0.1	0.096	96	80-120	
Lead	mg/L	0.1	0.10	102	80-120	
Lithium	mg/L	0.1	0.10	104	80-120	
Molybdenum	mg/L	0.1	0.10	104	80-120	
Selenium	mg/L	0.1	0.11	107	80-120	
Thallium	mg/L	0.1	0.10	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4427466 4427467

Parameter	Units	92732634001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.10	0.11	104	108	75-125	4	20	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92733822

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4427466 4427467

Parameter	Units	92732634001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	6.5 ug/L	0.1	0.1	0.12	0.13	118	120	75-125	1	20	
Barium	mg/L	73.4 ug/L	0.1	0.1	0.19	0.20	120	123	75-125	2	20	
Beryllium	mg/L	ND	0.1	0.1	0.080	0.081	80	81	75-125	1	20	
Boron	mg/L	16.1	1	1	17.8	17.4	179	137	75-125	2	20	M1
Cadmium	mg/L	0.16J ug/L	0.1	0.1	0.097	0.098	97	97	75-125	1	20	
Chromium	mg/L	ND	0.1	0.1	0.10	0.10	103	100	75-125	3	20	
Cobalt	mg/L	0.011	0.1	0.1	0.11	0.11	103	99	75-125	3	20	
Lead	mg/L	ND	0.1	0.1	0.080	0.083	80	83	75-125	4	20	
Lithium	mg/L	16.2J ug/L	0.1	0.1	0.10	0.11	88	89	75-125	1	20	
Molybdenum	mg/L	41.5 ug/L	0.1	0.1	0.15	0.15	104	109	75-125	4	20	
Selenium	mg/L	2.9J ug/L	0.1	0.1	0.12	0.12	115	120	75-125	5	20	
Thallium	mg/L	0.75J ug/L	0.1	0.1	0.086	0.090	85	89	75-125	5	20	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92733822

QC Batch: 860215
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92733822001, 92733822002, 92733822003, 92733822004, 92733822005, 92733822006, 92733822007, 92733822008

METHOD BLANK: 4436712 Matrix: Water
Associated Lab Samples: 92733822001, 92733822002, 92733822003, 92733822004, 92733822005, 92733822006, 92733822007, 92733822008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	06/11/24 09:02	

LABORATORY CONTROL SAMPLE: 4436713

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0026	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4436714 4436715

Parameter	Units	92733822001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0027	0.0026	106	105	75-125	1	20	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92733822

QC Batch: 858596 | Analysis Method: SM 2540C-2015
QC Batch Method: SM 2540C-2015 | Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92733822001, 92733822002, 92733822003, 92733822004, 92733822005, 92733822006, 92733822007, 92733822008

METHOD BLANK: 4428622 Matrix: Water
Associated Lab Samples: 92733822001, 92733822002, 92733822003, 92733822004, 92733822005, 92733822006, 92733822007, 92733822008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	06/03/24 12:07	

LABORATORY CONTROL SAMPLE: 4428623

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	394	98	80-120	

SAMPLE DUPLICATE: 4428624

Parameter	Units	92733822001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	610	630	3	10	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92733822

QC Batch: 859203
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92733822001, 92733822004

METHOD BLANK: 4431658 Matrix: Water
Associated Lab Samples: 92733822001, 92733822004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	06/05/24 14:59	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	06/05/24 14:59	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	06/05/24 14:59	

LABORATORY CONTROL SAMPLE: 4431659

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.6	101	80-120	

LABORATORY CONTROL SAMPLE: 4431660

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	52.5	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4431661 4431662

Parameter	Units	92733822001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	176	50	50	221	222	90	90	80-120	0	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4431663 4431664

Parameter	Units	92733822004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	143	50	50	190	190	94	93	80-120	0	25	

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REPORT OF LABORATORY ANALYSIS

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(704)875-9092

QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92733822

QC Batch: 859504
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92733822002, 92733822003, 92733822005, 92733822006, 92733822007, 92733822008

METHOD BLANK: 4433372 Matrix: Water
Associated Lab Samples: 92733822002, 92733822003, 92733822005, 92733822006, 92733822007, 92733822008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	06/07/24 13:37	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	06/07/24 13:37	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	06/07/24 13:37	

LABORATORY CONTROL SAMPLE: 4433373

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	49.9	100	80-120	

LABORATORY CONTROL SAMPLE: 4433374

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	49.7	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4433375 4433376

Parameter	Units	92733822005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	136	50	50	184	183	97	96	80-120	0	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4433377 4433378

Parameter	Units	92734198001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	67.0	50	50	114	115	95	96	80-120	0	25	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92733822

QC Batch: 858390
QC Batch Method: SM 4500-S2D-2011
Analysis Method: SM 4500-S2D-2011
Analysis Description: 4500S2D Sulfide Water
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92733822001, 92733822002, 92733822003, 92733822004, 92733822005, 92733822006, 92733822007, 92733822008

METHOD BLANK: 4428023 Matrix: Water
Associated Lab Samples: 92733822001, 92733822002, 92733822003, 92733822004, 92733822005, 92733822006, 92733822007, 92733822008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	0.022	06/02/24 01:56	

LABORATORY CONTROL SAMPLE: 4428024

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	0.52	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4428025 4428026

Parameter	Units	92733542001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.53	0.54	104	107	80-120	3	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4428027 4428028

Parameter	Units	92733542003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.52	0.56	102	110	80-120	8	10	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92733822

QC Batch: 858418
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92733822001, 92733822002, 92733822003, 92733822004

METHOD BLANK: 4428096 Matrix: Water
Associated Lab Samples: 92733822001, 92733822002, 92733822003, 92733822004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	06/01/24 16:46	
Fluoride	mg/L	ND	0.10	0.050	06/01/24 16:46	
Sulfate	mg/L	ND	1.0	0.50	06/01/24 16:46	

LABORATORY CONTROL SAMPLE: 4428097

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	51.1	102	90-110	
Fluoride	mg/L	2.5	2.6	104	90-110	
Sulfate	mg/L	50	51.1	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4428098 4428099

Parameter	Units	92733871001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	11.7	50	50	66.7	63.3	110	103	90-110	5	10	
Fluoride	mg/L	0.33	2.5	2.5	3.2	2.9	113	104	90-110	7	10	M1
Sulfate	mg/L	3.5	50	50	58.5	55.1	110	103	90-110	6	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4428102 4428103

Parameter	Units	92733765025 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	3.2	50	50	56.9	57.5	107	109	90-110	1	10	
Fluoride	mg/L	0.30	2.5	2.5	3.1	3.1	110	111	90-110	1	10	M1
Sulfate	mg/L	43.6	50	50	96.9	97.5	107	108	90-110	1	10	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92733822

QC Batch: 858511
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92733822005, 92733822006, 92733822007, 92733822008

METHOD BLANK: 4428289 Matrix: Water
Associated Lab Samples: 92733822005, 92733822006, 92733822007, 92733822008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	06/02/24 21:31	
Fluoride	mg/L	ND	0.10	0.050	06/02/24 21:31	
Sulfate	mg/L	ND	1.0	0.50	06/02/24 21:31	

LABORATORY CONTROL SAMPLE: 4428290

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	51.0	102	90-110	
Fluoride	mg/L	2.5	2.7	107	90-110	
Sulfate	mg/L	50	51.1	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4428291 4428292

Parameter	Units	92733788001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	70.2	50	50	108	109	75	78	90-110	1	10	M1
Fluoride	mg/L	ND	2.5	2.5	2.6	2.8	105	110	90-110	5	10	
Sulfate	mg/L	22.8	50	50	73.4	75.8	101	106	90-110	3	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4428293 4428294

Parameter	Units	92733822007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	ND	50	50	49.3	53.2	99	106	90-110	7	10	
Fluoride	mg/L	ND	2.5	2.5	2.6	2.8	105	112	90-110	6	10	M1
Sulfate	mg/L	ND	50	50	49.3	53.1	99	106	90-110	7	10	

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QUALIFIERS

Project: Hammond AP-1
Pace Project No.: 92733822

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Hammond AP-1
Pace Project No.: 92733822

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92733822001	**HAM-INW-03**	EPA 3010A	858318	EPA 6010D	858334
92733822002	**HAM-PT-09**	EPA 3010A	858318	EPA 6010D	858334
92733822003	**HAM-PT-10**	EPA 3010A	858318	EPA 6010D	858334
92733822004	**HAM-PT-11**	EPA 3010A	858318	EPA 6010D	858334
92733822005	**HAM-PT-12**	EPA 3010A	858318	EPA 6010D	858334
92733822006	**HAM-AP1-EB-01**	EPA 3010A	858318	EPA 6010D	858334
92733822007	**HAM-AP1-FB-01**	EPA 3010A	858318	EPA 6010D	858334
92733822008	**HAM-AP1-FD-01**	EPA 3010A	858318	EPA 6010D	858334
92733822001	**HAM-INW-03**	EPA 3005A	858301	EPA 6020B	858345
92733822002	**HAM-PT-09**	EPA 3005A	858301	EPA 6020B	858345
92733822003	**HAM-PT-10**	EPA 3005A	858301	EPA 6020B	858345
92733822004	**HAM-PT-11**	EPA 3005A	858301	EPA 6020B	858345
92733822005	**HAM-PT-12**	EPA 3005A	858301	EPA 6020B	858345
92733822006	**HAM-AP1-EB-01**	EPA 3005A	858301	EPA 6020B	858345
92733822007	**HAM-AP1-FB-01**	EPA 3005A	858301	EPA 6020B	858345
92733822008	**HAM-AP1-FD-01**	EPA 3005A	858301	EPA 6020B	858345
92733822001	**HAM-INW-03**	EPA 7470A	860215	EPA 7470A	860356
92733822002	**HAM-PT-09**	EPA 7470A	860215	EPA 7470A	860356
92733822003	**HAM-PT-10**	EPA 7470A	860215	EPA 7470A	860356
92733822004	**HAM-PT-11**	EPA 7470A	860215	EPA 7470A	860356
92733822005	**HAM-PT-12**	EPA 7470A	860215	EPA 7470A	860356
92733822006	**HAM-AP1-EB-01**	EPA 7470A	860215	EPA 7470A	860356
92733822007	**HAM-AP1-FB-01**	EPA 7470A	860215	EPA 7470A	860356
92733822008	**HAM-AP1-FD-01**	EPA 7470A	860215	EPA 7470A	860356
92733822001	**HAM-INW-03**	SM 2540C-2015	858596		
92733822002	**HAM-PT-09**	SM 2540C-2015	858596		
92733822003	**HAM-PT-10**	SM 2540C-2015	858596		
92733822004	**HAM-PT-11**	SM 2540C-2015	858596		
92733822005	**HAM-PT-12**	SM 2540C-2015	858596		
92733822006	**HAM-AP1-EB-01**	SM 2540C-2015	858596		
92733822007	**HAM-AP1-FB-01**	SM 2540C-2015	858596		
92733822008	**HAM-AP1-FD-01**	SM 2540C-2015	858596		
92733822001	**HAM-INW-03**	SM 2320B-2011	859203		
92733822002	**HAM-PT-09**	SM 2320B-2011	859504		
92733822003	**HAM-PT-10**	SM 2320B-2011	859504		
92733822004	**HAM-PT-11**	SM 2320B-2011	859203		
92733822005	**HAM-PT-12**	SM 2320B-2011	859504		
92733822006	**HAM-AP1-EB-01**	SM 2320B-2011	859504		
92733822007	**HAM-AP1-FB-01**	SM 2320B-2011	859504		
92733822008	**HAM-AP1-FD-01**	SM 2320B-2011	859504		
92733822001	**HAM-INW-03**	SM 4500-S2D-2011	858390		
92733822002	**HAM-PT-09**	SM 4500-S2D-2011	858390		
92733822003	**HAM-PT-10**	SM 4500-S2D-2011	858390		
92733822004	**HAM-PT-11**	SM 4500-S2D-2011	858390		
92733822005	**HAM-PT-12**	SM 4500-S2D-2011	858390		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Hammond AP-1
Pace Project No.: 92733822

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92733822006	**HAM-AP1-EB-01**	SM 4500-S2D-2011	858390		
92733822007	**HAM-AP1-FB-01**	SM 4500-S2D-2011	858390		
92733822008	**HAM-AP1-FD-01**	SM 4500-S2D-2011	858390		
92733822001	**HAM-INW-03**	EPA 300.0 Rev 2.1 1993	858418		
92733822002	**HAM-PT-09**	EPA 300.0 Rev 2.1 1993	858418		
92733822003	**HAM-PT-10**	EPA 300.0 Rev 2.1 1993	858418		
92733822004	**HAM-PT-11**	EPA 300.0 Rev 2.1 1993	858418		
92733822005	**HAM-PT-12**	EPA 300.0 Rev 2.1 1993	858511		
92733822006	**HAM-AP1-EB-01**	EPA 300.0 Rev 2.1 1993	858511		
92733822007	**HAM-AP1-FB-01**	EPA 300.0 Rev 2.1 1993	858511		
92733822008	**HAM-AP1-FD-01**	EPA 300.0 Rev 2.1 1993	858511		

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DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt

Effective Date: 12/01/2023

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Georgia Power

Project #: **WO# : 92733822**

92733822

Courier: ☐ Commercial ☑ Pace ☐ Fed Ex ☐ UPS ☐ USPS ☐ Other: ☐ Client

Custody Seal Present? ☑ Yes ☐ No Seals Intact? ☑ Yes ☐ No ☐ N/A

Date/Initials Person Examining Contents: 9/26 DW

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☐ IR Gun ID: 230

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 2.6 Correction Factor: Add/Subtract (°C) 0

Temp should be above freezing to 6°C

☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 2.6

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☐ No	☐ N/A	4. 5 Day TAT
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☑ No	☐ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: WG, WS				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

Dualtrax ID: 68614

Page 1 of 2

WO#: 92733822

PM: BV Due Date: 06/14/24

CLIENT: 92- GP-HAM

Project #

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, Hg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic Zn Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	SP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3B-250 mL Plastic (NH4)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		2	1			1	1																						
2		2	1			1	1																						
3		2	1			1	1																						
4		2	1			1	1																						
5		2	1			1	1																						
6		2	1			1	1																						
7		2	1			1	1																						
8		2	1			1	1																						
9																													
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

Section A (Required Client Information)	Section B	Section C
Company: GA Power	Report To: SCS Contacts	Attention: Southern Co
Address: Atlanta GA	Copy To: Geosyntec Contacts	Company Name:
		Address:
Email To: SCS Contacts	Purchase Order No: GPC82474-0001	Pace Quote Reference:
Phone: / Fax:	Project Name: Hammond AP-1	Pace Project Manager: Bonnie Varg
Requested Due Date/TAT: 5 day	Project Number:	Pace Profile #: 10839

REGULATORY AGENCY

NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐

UST ☐ RCRA ☐ OTHER ☑ CCR

Site Location STATE: GA

Section D (Required Client Information)

Valid Matrix Codes: MATRIX / CODE — DRINKING WATER DW; WATER WT; WASTE WATER WW; PRODUCT P; SOIL/SOLID S; OIL OL; WIPE WP; AIR AR; TISSUE TS; OTHER OT

SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test: Chloride, Fluoride, Sulfate	Total App. III and IV Metals	Major Ions (Profile 10839-2)	TDS	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
																Y/N	N	N	N	N		9273382
1	HAM-INW-03	WG	G	5/29/2024	1414		20	5	3		1				1	X	X	X	X		N	001
2	HAM-PT-09	WG	G	5/30/2024	1152		20	5	3		1				1	X	X	X	X		N	002
3	HAM-PT-10	WG	G	5/30/2024	1440		20	5	3		1				1	X	X	X	X		N	003
4	HAM-PT-11	WG	G	5/29/2024	1643		19	5	3		1				1	X	X	X	X		N	004
5	HAM-PT-12	WG	G	5/29/2024	1208		19	5	3		1				1	X	X	X	X		N	005
6	HAM-AP1-EB-01	WQ	G	5/30/2024	1659		20	5	3		1				1	X	X	X	X		N	006
7	HAM-AP1-FB-01	WQ	G	5/30/2024	1652		20	5	3		1				1	X	X	X	X		N	007
8	HAM-AP1-FD-01	WG	G	5/30/2024	0000		20	5	3		1				1	X	X	X	X		N	
9																						
10																						
11																						
12																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Task Code: HAM-CCR-CA-20240529	Zan Webb / Geosyntec	5-30-2024	1900	Colton Grant / Geosyntec	5-30-2024	1900	
	Colton Grant / Geosyntec	5-31-2024	1207	Ryan Williams / Pace	5/31/2024	1207	
	Ryan Williams / Pace	5/31/2024	1252		5/31/24	1252	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Zan Webb / Geosyntec Consultants, Inc

SIGNATURE of SAMPLER: Zan Webb DATE Signed (MM/DD/YY): 5/30/2024

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

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F-ALL-Q-020rev.07, 15-Feb-2017

Field Sampling Forms

Low-Flow Test Report:

Test Date / Time: 7/13/2023 9:51:13 AM
Project: GW6581
Operator Name: Alana Neely

Location Name: HGWC-8 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 15.5 ft** **Total Depth: 25.51 ft** **Initial Depth to Water: 13.41 ft**	**Pump Type: Peri** **Tubing Type: Poly** **Pump Intake From TOC: 20.5 ft** **Estimated Total Volume Pumped: 11.25 L** **Flow Cell Volume: 90 ml** **Final Flow Rate: 250 ml/min Final Draw Down: 0.06 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 884187**

Test Notes:
Five bottles: Full App III and IV and Geochem

Weather Conditions:
73-91 deg F; sunny

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
7/13/2023 9:51 AM	00:00	6.54 pH	20.67 °C	704.35 µS/cm	0.12 mg/L	108.00 NTU	75.0 mV	13.40 ft	250.00 ml/min
7/13/2023 9:51 AM	00:29	6.56 pH	20.65 °C	700.23 µS/cm	0.12 mg/L		65.9 mV	13.40 ft	250.00 ml/min
7/13/2023 9:56 AM	05:29	6.60 pH	20.41 °C	716.26 µS/cm	0.08 mg/L	50.40 NTU	60.7 mV	13.45 ft	250.00 ml/min
7/13/2023 10:01 AM	10:29	6.63 pH	21.14 °C	714.09 µS/cm	0.07 mg/L	27.90 NTU	45.7 mV	13.47 ft	250.00 ml/min
7/13/2023 10:06 AM	15:29	6.64 pH	21.51 °C	723.67 µS/cm	0.06 mg/L	16.20 NTU	41.8 mV	13.47 ft	250.00 ml/min
7/13/2023 10:11 AM	20:29	6.65 pH	21.74 °C	717.17 µS/cm	0.05 mg/L	12.10 NTU	45.9 mV	13.47 ft	250.00 ml/min
7/13/2023 10:16 AM	25:29	6.65 pH	21.08 °C	721.11 µS/cm	0.04 mg/L	8.93 NTU	41.5 mV	13.47 ft	250.00 ml/min
7/13/2023 10:21 AM	30:29	6.65 pH	21.43 °C	721.10 µS/cm	0.04 mg/L	8.41 NTU	47.0 mV	13.47 ft	250.00 ml/min
7/13/2023 10:26 AM	35:29	6.56 pH	21.58 °C	702.26 µS/cm	0.14 mg/L	5.41 NTU	51.1 mV	13.47 ft	250.00 ml/min
7/13/2023 10:31 AM	40:29	6.65 pH	21.38 °C	723.48 µS/cm	0.08 mg/L	4.50 NTU	48.4 mV	13.47 ft	250.00 ml/min

Samples

Sample ID:	Description:

HAM-HGWC-8	Grab.

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 7/17/2023 10:12:40 AM
Project: GW6581
Operator Name: Alana Neely

Location Name: HGWC-13 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 32 ft** **Total Depth: 42 ft** **Initial Depth to Water: 26.4 ft**	**Pump Type: Bladder** **Tubing Type: Poly** **Pump Intake From TOC: 37 ft** **Estimated Total Volume Pumped: 19 L** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min Final Draw Down: 0.4 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 884187**

Test Notes:
Five bottles: Full App III and IV and Geochem

Weather Conditions:
66-93 deg F Sunny

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
7/17/2023 10:12 AM	00:00	6.59 pH	20.94 °C	1,029.2 µS/cm	0.23 mg/L	37.60 NTU	-74.7 mV	26.80 ft	200.00 ml/min
7/17/2023 10:17 AM	05:00	6.64 pH	20.94 °C	1,029.0 µS/cm	0.16 mg/L	41.90 NTU	-80.9 mV	26.80 ft	200.00 ml/min
7/17/2023 10:22 AM	10:00	6.64 pH	21.07 °C	1,020.4 µS/cm	0.17 mg/L	61.80 NTU	-61.9 mV	26.80 ft	200.00 ml/min
7/17/2023 10:27 AM	15:00	6.66 pH	22.28 °C	1,002.2 µS/cm	1.80 mg/L	40.00 NTU	-2.6 mV	26.80 ft	200.00 ml/min
7/17/2023 10:32 AM	20:00	6.61 pH	21.57 °C	993.49 µS/cm	0.35 mg/L	42.20 NTU	-15.2 mV	26.80 ft	200.00 ml/min
7/17/2023 10:37 AM	25:00	6.61 pH	22.19 °C	1,005.4 µS/cm	0.35 mg/L	49.20 NTU	-32.1 mV	26.80 ft	200.00 ml/min
7/17/2023 10:42 AM	30:00	6.62 pH	22.55 °C	1,016.7 µS/cm	0.28 mg/L	58.00 NTU	-52.3 mV	26.80 ft	200.00 ml/min
7/17/2023 10:47 AM	35:00	6.63 pH	23.25 °C	1,027.9 µS/cm	0.28 mg/L	64.50 NTU	-68.7 mV	26.80 ft	200.00 ml/min
7/17/2023 10:52 AM	40:00	6.64 pH	22.88 °C	1,017.4 µS/cm	0.25 mg/L	43.20 NTU	-58.0 mV	26.80 ft	200.00 ml/min
7/17/2023 10:57 AM	45:00	6.65 pH	22.54 °C	1,021.8 µS/cm	0.18 mg/L	34.80 NTU	-69.7 mV	26.80 ft	200.00 ml/min
7/17/2023 11:02 AM	50:00	6.65 pH	22.65 °C	1,023.7 µS/cm	0.15 mg/L	29.60 NTU	-72.4 mV	26.80 ft	200.00 ml/min
7/17/2023 11:07 AM	55:00	6.66 pH	22.73 °C	1,024.7 µS/cm	0.14 mg/L	24.00 NTU	-74.1 mV	26.80 ft	200.00 ml/min
7/17/2023 11:12 AM	01:00:00	6.65 pH	22.81 °C	1,024.2 µS/cm	0.12 mg/L	18.20 NTU	-68.2 mV	26.80 ft	200.00 ml/min

7/17/2023 11:17 AM	01:05:00	6.66 pH	22.81 °C	1,020.8 µS/cm	0.11 mg/L	14.60 NTU	-75.5 mV	26.80 ft	200.00 ml/min
7/17/2023 11:22 AM	01:10:00	6.66 pH	22.84 °C	1,022.9 µS/cm	0.10 mg/L	13.70 NTU	-69.1 mV	26.80 ft	200.00 ml/min
7/17/2023 11:27 AM	01:15:00	6.66 pH	22.81 °C	1,024.0 µS/cm	0.09 mg/L	12.50 NTU	-69.6 mV	26.80 ft	200.00 ml/min
7/17/2023 11:32 AM	01:20:00	6.66 pH	22.92 °C	1,024.1 µS/cm	0.09 mg/L	9.80 NTU	-76.8 mV	26.80 ft	200.00 ml/min
7/17/2023 11:37 AM	01:25:00	6.66 pH	23.08 °C	1,025.7 µS/cm	0.09 mg/L	6.70 NTU	-70.1 mV	26.80 ft	200.00 ml/min
7/17/2023 11:42 AM	01:30:00	6.67 pH	23.26 °C	1,024.5 µS/cm	0.08 mg/L	4.26 NTU	-77.2 mV	26.80 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-HGWC-13	Grab.

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 7/13/2023 3:37:26 PM
Project: GW6581
Operator Name: Alana Neely

Location Name: PT-07 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 38.6 ft** **Total Depth: 48.6 ft** **Initial Depth to Water: 25.3 ft**	**Pump Type: Peri** **Tubing Type: Poly** **Pump Intake From TOC: 43.6 ft** **Estimated Total Volume Pumped: 9 L** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 884187**

Test Notes:
Five bottles: Full App III and IV and Geochem

Weather Conditions:
73-91 deg F sunny

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
7/13/2023 3:37 PM	00:00	6.80 pH	28.25 °C	1,056.0 µS/cm	1.39 mg/L	21.70 NTU	-108.6 mV	25.30 ft	200.00 ml/min
7/13/2023 3:42 PM	05:00	6.81 pH	26.88 °C	1,079.0 µS/cm	0.68 mg/L	21.30 NTU	-111.1 mV	25.30 ft	200.00 ml/min
7/13/2023 3:47 PM	10:00	6.82 pH	26.52 °C	1,072.1 µS/cm	0.49 mg/L	18.70 NTU	-127.0 mV	25.30 ft	200.00 ml/min
7/13/2023 3:52 PM	15:00	6.80 pH	27.35 °C	1,080.9 µS/cm	0.48 mg/L	16.00 NTU	-128.2 mV	25.30 ft	200.00 ml/min
7/13/2023 3:57 PM	20:00	6.77 pH	27.44 °C	979.74 µS/cm	0.41 mg/L	9.81 NTU	-113.5 mV	25.30 ft	200.00 ml/min
7/13/2023 4:02 PM	25:00	6.76 pH	27.85 °C	1,068.5 µS/cm	0.35 mg/L	9.08 NTU	-126.8 mV	25.30 ft	200.00 ml/min
7/13/2023 4:07 PM	30:00	6.76 pH	27.68 °C	1,061.0 µS/cm	0.32 mg/L	6.69 NTU	-111.9 mV	25.30 ft	200.00 ml/min
7/13/2023 4:12 PM	35:00	6.75 pH	27.81 °C	1,069.4 µS/cm	0.29 mg/L	6.01 NTU	-125.6 mV	25.30 ft	200.00 ml/min
7/13/2023 4:17 PM	40:00	6.76 pH	27.26 °C	1,064.5 µS/cm	0.30 mg/L	4.91 NTU	-111.0 mV	25.30 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-07	Grab.

HAM-AP1-FD-01	Grab.

Low-Flow Test Report:

Test Date / Time: 7/13/2023 5:11:34 PM
Project: GW6581
Operator Name: Alana Neely

Location Name: PT-08 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 33 ft** **Total Depth: 43 ft** **Initial Depth to Water: 22.2 ft**	**Pump Type: Peri** **Tubing Type: Poly** **Pump Intake From TOC: 38 ft** **Estimated Total Volume Pumped: 8 L** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min Final Draw Down: 0.1 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 884187**

Test Notes:
Five bottles: Full App III and IV and Geochem
Weather Conditions:
73-91 deg F sunny
Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
7/13/2023 5:11 PM	00:00	6.70 pH	26.09 °C	930.24 µS/cm	0.88 mg/L	20.20 NTU	-77.5 mV	22.30 ft	200.00 ml/min
7/13/2023 5:16 PM	05:00	6.68 pH	24.72 °C	960.77 µS/cm	1.07 mg/L	19.70 NTU	-81.4 mV	22.30 ft	200.00 ml/min
7/13/2023 5:21 PM	10:00	6.67 pH	24.21 °C	962.53 µS/cm	0.13 mg/L	24.30 NTU	-101.1 mV	22.30 ft	200.00 ml/min
7/13/2023 5:26 PM	15:00	6.66 pH	24.14 °C	972.51 µS/cm	0.11 mg/L	22.50 NTU	-107.9 mV	22.30 ft	200.00 ml/min
7/13/2023 5:31 PM	20:00	6.67 pH	24.49 °C	1,002.9 µS/cm	0.10 mg/L	8.59 NTU	-124.8 mV	22.30 ft	200.00 ml/min
7/13/2023 5:36 PM	25:00	6.68 pH	24.12 °C	999.67 µS/cm	0.08 mg/L	6.25 NTU	-115.1 mV	22.30 ft	200.00 ml/min
7/13/2023 5:41 PM	30:00	6.66 pH	24.79 °C	1,007.2 µS/cm	0.09 mg/L	7.11 NTU	-116.7 mV	22.30 ft	200.00 ml/min
7/13/2023 5:46 PM	35:00	6.66 pH	24.53 °C	1,007.1 µS/cm	0.09 mg/L	4.41 NTU	-124.9 mV	22.30 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-08	Grab.

Low-Flow Test Report:

Test Date / Time: 7/13/2023 11:06:04 AM
Project: GW6581
Operator Name: Alana Neely

Location Name: PT-09 **Well Diameter: 2 in Casing** **Type: PVC** **Screen Length: 10 ft** **Top of Screen: 18.5 ft** **Total Depth: 28.5 ft** **Initial Depth to Water: 14 ft**	**Pump Type: Peri** **Tubing Type: Poly** **Pump Intake From TOC: 23.5 ft** **Estimated Total Volume Pumped: 25.25 L** **Flow Cell Volume: 90 ml** **Final Flow Rate: 250 ml/min Final Draw Down: 0.1 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 884187**

Test Notes:
Five bottles: Full App III and IV and Geochem

Weather Conditions:
73-91 deg F sunny

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
7/13/2023 11:06 AM	00:00	6.47 pH	23.91 °C	730.32 µS/cm	0.18 mg/L	3.55 NTU	32.8 mV	14.10 ft	250.00 ml/min
7/13/2023 11:07 AM	01:07	6.52 pH	23.22 °C	743.74 µS/cm	0.15 mg/L	-	11.4 mV	14.10 ft	250.00 ml/min
7/13/2023 11:12 AM	06:07	6.56 pH	22.23 °C	753.03 µS/cm	0.09 mg/L	2.51 NTU	6.0 mV	14.10 ft	250.00 ml/min
7/13/2023 11:17 AM	11:07	6.57 pH	22.47 °C	754.10 µS/cm	0.06 mg/L	2.49 NTU	3.4 mV	14.10 ft	250.00 ml/min
7/13/2023 11:22 AM	16:07	6.57 pH	22.10 °C	764.27 µS/cm	0.05 mg/L	4.55 NTU	-9.5 mV	14.10 ft	250.00 ml/min
7/13/2023 11:27 AM	21:07	6.58 pH	22.12 °C	768.51 µS/cm	0.04 mg/L	3.98 NTU	-12.2 mV	14.10 ft	250.00 ml/min
7/13/2023 11:32 AM	26:08	6.42 pH	22.27 °C	729.76 µS/cm	0.04 mg/L	4.56 NTU	4.1 mV	14.10 ft	250.00 ml/min
7/13/2023 11:37 AM	31:08	6.57 pH	22.45 °C	763.33 µS/cm	0.03 mg/L	10.50 NTU	3.6 mV	14.10 ft	250.00 ml/min
7/13/2023 11:42 AM	36:08	6.56 pH	22.99 °C	768.69 µS/cm	0.03 mg/L	16.20 NTU	-19.3 mV	14.10 ft	250.00 ml/min
7/13/2023 11:47 AM	41:08	6.45 pH	23.29 °C	723.65 µS/cm	0.03 mg/L	16.60 NTU	6.2 mV	14.10 ft	250.00 ml/min
7/13/2023 11:52 AM	46:08	6.54 pH	23.37 °C	768.73 µS/cm	0.04 mg/L	16.00 NTU	14.3 mV	14.10 ft	250.00 ml/min
7/13/2023 11:57 AM	51:08	6.56 pH	23.35 °C	767.51 µS/cm	0.03 mg/L	18.00 NTU	12.2 mV	14.10 ft	250.00 ml/min
7/13/2023 12:02 PM	56:08	6.56 pH	23.59 °C	770.87 µS/cm	0.02 mg/L	16.30 NTU	3.5 mV	14.10 ft	250.00 ml/min

7/13/2023 12:07 PM	01:01:08	6.56 pH	23.26 °C	771.12 µS/cm	0.02 mg/L	20.10 NTU	5.6 mV	14.10 ft	250.00 ml/min
7/13/2023 12:12 PM	01:06:08	6.56 pH	23.45 °C	773.37 µS/cm	0.02 mg/L	16.70 NTU	7.1 mV	14.10 ft	250.00 ml/min
7/13/2023 12:17 PM	01:11:08	6.56 pH	23.36 °C	775.77 µS/cm	0.02 mg/L	13.30 NTU	9.8 mV	14.10 ft	250.00 ml/min
7/13/2023 12:22 PM	01:16:08	6.57 pH	24.10 °C	773.97 µS/cm	0.02 mg/L	11.81 NTU	14.8 mV	14.10 ft	250.00 ml/min
7/13/2023 12:26 PM	01:20:29	6.57 pH	23.62 °C	771.90 µS/cm	0.02 mg/L	10.18 NTU	15.0 mV	14.10 ft	250.00 ml/min
7/13/2023 12:31 PM	01:25:29	6.57 pH	23.66 °C	776.24 µS/cm	0.02 mg/L	9.43 NTU	18.2 mV	14.10 ft	250.00 ml/min
7/13/2023 12:36 PM	01:30:29	6.57 pH	24.30 °C	779.12 µS/cm	0.02 mg/L	7.91 NTU	16.2 mV	14.10 ft	250.00 ml/min
7/13/2023 12:41 PM	01:35:29	6.57 pH	24.48 °C	779.77 µS/cm	0.02 mg/L	4.95 NTU	18.4 mV	14.10 ft	250.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-09	Grab.

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 7/13/2023 1:16:15 PM
Project: GW6581
Operator Name: Alana Neely

Location Name: PT-10 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 18 ft** **Total Depth: 28 ft** **Initial Depth to Water: 14 ft**	**Pump Type: Peri** **Tubing Type: Poly** **Pump Intake From TOC: 23 ft** **Estimated Total Volume Pumped: 12 L** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min Final Draw Down: 0.3 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 884187**

Test Notes:
Five bottles: Full App III and IV and Geochem

Weather Conditions:
73-91 deg F; sunny

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
7/13/2023 1:16 PM	00:00	7.05 pH	24.25 °C	808.38 µS/cm	0.31 mg/L	11.60 NTU	-135.4 mV	14.30 ft	200.00 ml/min
7/13/2023 1:21 PM	04:45	7.04 pH	22.90 °C	832.12 µS/cm	0.49 mg/L	20.60 NTU	-134.8 mV	14.30 ft	200.00 ml/min
7/13/2023 1:25 PM	09:02	7.05 pH	22.36 °C	827.40 µS/cm	0.12 mg/L	18.10 NTU	-142.1 mV	14.30 ft	200.00 ml/min
7/13/2023 1:30 PM	14:02	7.04 pH	21.87 °C	835.53 µS/cm	0.10 mg/L	13.20 NTU	-136.6 mV	14.30 ft	200.00 ml/min
7/13/2023 1:35 PM	19:02	7.03 pH	22.00 °C	831.33 µS/cm	0.08 mg/L	12.47 NTU	-182.4 mV	14.30 ft	200.00 ml/min
7/13/2023 1:40 PM	24:02	7.03 pH	22.23 °C	834.62 µS/cm	0.06 mg/L	10.64 NTU	-179.2 mV	14.30 ft	200.00 ml/min
7/13/2023 1:45 PM	29:02	7.02 pH	21.83 °C	837.40 µS/cm	0.05 mg/L	9.54 NTU	-126.6 mV	14.30 ft	200.00 ml/min
7/13/2023 1:50 PM	34:02	7.02 pH	22.13 °C	840.48 µS/cm	0.05 mg/L	8.72 NTU	-173.7 mV	14.30 ft	200.00 ml/min
7/13/2023 1:55 PM	39:02	7.02 pH	21.98 °C	834.18 µS/cm	0.04 mg/L	7.59 NTU	-122.1 mV	14.30 ft	200.00 ml/min
7/13/2023 2:00 PM	44:02	7.01 pH	21.89 °C	840.03 µS/cm	0.04 mg/L	6.56 NTU	-118.7 mV	14.30 ft	200.00 ml/min
7/13/2023 2:05 PM	49:02	7.01 pH	22.10 °C	840.92 µS/cm	0.03 mg/L	5.64 NTU	-163.8 mV	14.30 ft	200.00 ml/min
7/13/2023 2:10 PM	54:02	7.01 pH	21.95 °C	842.15 µS/cm	0.03 mg/L	4.94 NTU	-161.5 mV	14.30 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-10	Grab.

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/9/2023 3:28:27 PM
Project: GP-Plant Hammond
Operator Name: Elisabeth McDonnelll

Location Name: MW-53 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 26.6 ft** **Total Depth: 36.35 ft** **Initial Depth to Water: 16.0 ft**	**Pump Type: Peri** **Tubing Type: Poly** **Pump Intake From TOC: 31.6 ft** **Estimated Total Volume Pumped: 15 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.08 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 989630**

Test Notes:
One bottle: Boron and Molybdenum

Weather Conditions:
Sunny, 72 Degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
8/9/2023 3:28 PM	00:00	6.58 pH	21.50 °C	811.88 µS/cm	1.19 mg/L	4.93 NTU	46.9 mV	16.07 ft	200.00 ml/min
8/9/2023 3:33 PM	05:00	6.63 pH	21.32 °C	834.15 µS/cm	0.84 mg/L	3.37 NTU	46.6 mV	16.08 ft	200.00 ml/min
8/9/2023 3:38 PM	10:00	6.63 pH	21.42 °C	836.69 µS/cm	1.03 mg/L	1.67 NTU	47.1 mV	16.06 ft	200.00 ml/min
8/9/2023 3:43 PM	15:00	6.64 pH	21.24 °C	839.10 µS/cm	0.93 mg/L	1.01 NTU	58.2 mV	16.07 ft	200.00 ml/min
8/9/2023 3:48 PM	20:00	6.63 pH	21.28 °C	836.21 µS/cm	0.84 mg/L	0.45 NTU	47.3 mV	16.07 ft	200.00 ml/min
8/9/2023 3:53 PM	25:00	6.63 pH	20.90 °C	837.24 µS/cm	0.54 mg/L	0.78 NTU	59.3 mV	16.07 ft	200.00 ml/min
8/9/2023 3:58 PM	30:00	6.63 pH	21.19 °C	835.68 µS/cm	1.45 mg/L	0.29 NTU	60.3 mV	16.08 ft	200.00 ml/min
8/9/2023 4:03 PM	35:00	6.64 pH	21.06 °C	833.61 µS/cm	0.78 mg/L	0.04 NTU	60.1 mV	16.08 ft	200.00 ml/min
8/9/2023 4:08 PM	40:00	6.63 pH	21.03 °C	828.43 µS/cm	1.29 mg/L	0.00 NTU	60.7 mV	16.08 ft	200.00 ml/min
8/9/2023 4:13 PM	45:00	6.63 pH	20.94 °C	827.95 µS/cm	0.65 mg/L	0.04 NTU	60.6 mV	16.08 ft	200.00 ml/min
8/9/2023 4:18 PM	50:00	6.63 pH	20.17 °C	756.61 µS/cm	2.48 mg/L	0.00 NTU	49.0 mV	16.07 ft	200.00 ml/min
8/9/2023 4:23 PM	55:00	6.65 pH	19.90 °C	754.42 µS/cm	1.81 mg/L	0.00 NTU	48.3 mV	16.08 ft	200.00 ml/min
8/9/2023 4:28 PM	01:00:00	6.63 pH	19.72 °C	846.76 µS/cm	0.35 mg/L	0.00 NTU	59.5 mV	16.08 ft	200.00 ml/min
8/9/2023 4:33 PM	01:05:00	6.63 pH	19.64 °C	847.37 µS/cm	0.29 mg/L	0.01 NTU	47.3 mV	16.07 ft	200.00 ml/min
8/9/2023 4:38 PM	01:10:00	6.63 pH	19.60 °C	848.27 µS/cm	0.24 mg/L		57.3 mV	16.08 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-MW-53	Grab.

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/9/2023 3:26:03 PM
Project: GP-Plant Hammond
Operator Name: Thomas Kessler

Location Name: MW-54 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 28.3 ft** **Total Depth: 38.30 ft** **Initial Depth to Water: 24.15 ft**	**Pump Type: Peri** **Tubing Type: Poly** **Pump Intake From TOC: 33.3 ft** **Estimated Total Volume Pumped: 9 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 100 ml/min** **Final Draw Down: 0.1ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850724**

Test Notes:
One bottle: Boron and Arsenic

Weather Conditions:
Sunny, 85 Degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
8/9/2023 3:26 PM	00:00	5.01 pH	26.69 °C	329.38 µS/cm	1.73 mg/L	5.12 NTU	171.8 mV	24.25 ft	100.00 ml/min
8/9/2023 3:31 PM	05:00	4.98 pH	25.95 °C	330.64 µS/cm	1.70 mg/L	6.87 NTU	149.1 mV	24.25 ft	100.00 ml/min
8/9/2023 3:36 PM	10:00	4.99 pH	25.33 °C	330.08 µS/cm	1.65 mg/L	6.29 NTU	185.3 mV	24.25 ft	100.00 ml/min
8/9/2023 3:41 PM	15:00	5.02 pH	24.97 °C	332.29 µS/cm	1.57 mg/L	5.76 NTU	180.6 mV	24.25 ft	100.00 ml/min
8/9/2023 3:46 PM	20:00	5.03 pH	24.61 °C	330.02 µS/cm	1.53 mg/L	6.69 NTU	176.5 mV	24.25 ft	100.00 ml/min
8/9/2023 3:51 PM	25:00	5.10 pH	23.90 °C	331.08 µS/cm	1.45 mg/L	4.98 NTU	172.1 mV	24.25 ft	100.00 ml/min
8/9/2023 3:56 PM	30:00	5.18 pH	23.88 °C	334.85 µS/cm	1.41 mg/L	4.23 NTU	132.1 mV	24.25 ft	100.00 ml/min
8/9/2023 4:01 PM	35:00	5.31 pH	23.56 °C	342.94 µS/cm	1.32 mg/L	4.00 NTU	158.5 mV	24.25 ft	100.00 ml/min
8/9/2023 4:06 PM	40:00	5.50 pH	23.74 °C	361.26 µS/cm	1.20 mg/L	3.98 NTU	152.1 mV	24.25 ft	100.00 ml/min
8/9/2023 4:11 PM	45:00	5.67 pH	23.43 °C	382.99 µS/cm	1.07 mg/L	3.50 NTU	112.1 mV	24.25 ft	100.00 ml/min
8/9/2023 4:16 PM	50:00	5.80 pH	23.60 °C	406.33 µS/cm	0.95 mg/L	3.57 NTU	136.0 mV	24.25 ft	100.00 ml/min
8/9/2023 4:21 PM	55:00	5.89 pH	23.28 °C	422.58 µS/cm	0.86 mg/L	1.33 NTU	132.8 mV	24.25 ft	100.00 ml/min
8/9/2023 4:26 PM	01:00:00	5.98 pH	23.21 °C	439.54 µS/cm	0.78 mg/L	1.25 NTU	99.6 mV	24.25 ft	100.00 ml/min

8/9/2023 4:31 PM	01:05:00	6.04 pH	23.07 °C	456.26 µS/cm	0.73 mg/L	1.31 NTU	124.2 mV	24.25 ft	100.00 ml/min
8/9/2023 4:36 PM	01:10:00	6.10 pH	23.02 °C	466.92 µS/cm	0.68 mg/L	1.12 NTU	95.3 mV	24.25 ft	100.00 ml/min
8/9/2023 4:41 PM	01:15:00	6.15 pH	22.89 °C	476.56 µS/cm	0.63 mg/L	0.86 NTU	118.0 mV	24.25 ft	100.00 ml/min
8/9/2023 4:46 PM	01:20:00	6.18 pH	22.86 °C	488.16 µS/cm	0.60 mg/L	0.36 NTU	117.5 mV	24.25 ft	100.00 ml/min

Samples

Sample ID:	Description:
HAM-MW-54	Grab.

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/9/2023 5:24:44 PM
Project: GP-Plant Hammond
Operator Name: Thomas Kessler

Location Name: PT-07 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 38.6 ft** **Total Depth: 47.94 ft** **Initial Depth to Water: 25.05 ft**	**Pump Type: Peri** **Tubing Type: Poly** **Pump Intake From TOC: 43.8 ft** **Estimated Total Volume Pumped: 8 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.05 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850724**

Test Notes:
Five bottles: Baseline Sampling and Major Ions

Weather Conditions:
Cloudy, 80 Degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
8/9/2023 5:24 PM	00:00	6.69 pH	22.70 °C	979.72 µS/cm	0.65 mg/L	6.30 NTU	-88.9 mV	25.10 ft	200.00 ml/min
8/9/2023 5:29 PM	05:00	6.73 pH	21.85 °C	986.58 µS/cm	0.43 mg/L	4.87 NTU	-89.0 mV	25.10 ft	200.00 ml/min
8/9/2023 5:34 PM	10:00	6.76 pH	21.55 °C	992.34 µS/cm	0.48 mg/L	4.83 NTU	-89.8 mV	25.10 ft	200.00 ml/min
8/9/2023 5:39 PM	15:00	6.78 pH	21.44 °C	993.38 µS/cm	0.33 mg/L	5.08 NTU	-107.7 mV	25.10 ft	200.00 ml/min
8/9/2023 5:44 PM	20:00	6.79 pH	21.42 °C	1,008.3 µS/cm	0.41 mg/L	1.91 NTU	-90.6 mV	25.10 ft	200.00 ml/min
8/9/2023 5:49 PM	25:00	6.80 pH	21.36 °C	1,010.3 µS/cm	0.30 mg/L	0.80 NTU	-90.8 mV	25.10 ft	200.00 ml/min
8/9/2023 5:54 PM	30:00	6.82 pH	21.19 °C	1,012.4 µS/cm	0.40 mg/L	0.18 NTU	-90.9 mV	25.10 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-07	Grab.

Low-Flow Test Report:

Test Date / Time: 8/9/2023 10:03:54 AM
Project: GP-Plant Hammond
Operator Name: Elisabeth McDonnell

Location Name: PT-08 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 28.8 ft** **Total Depth: 42.0 ft** **Initial Depth to Water: 23.6 ft**	**Pump Type: Bladder pump** **Tubing Type: Peri** **Pump Intake From TOC: 37.3 ft** **Estimated Total Volume Pumped: 8 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 160 ml/min** **Final Draw Down: 0.04 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 989630**

Test Notes:
Five bottles: Baseline Sampling and Major Ions

Weather Conditions:
Cloudy, 80 Degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
8/9/2023 10:03 AM	00:00	6.80 pH	20.72 °C	943.04 µS/cm	2.15 mg/L	15.50 NTU	-57.8 mV	23.64 ft	160.00 ml/min
8/9/2023 10:08 AM	05:00	6.81 pH	20.71 °C	915.43 µS/cm	1.51 mg/L	10.90 NTU	-60.5 mV	23.63 ft	160.00 ml/min
8/9/2023 10:13 AM	10:00	6.81 pH	20.73 °C	905.45 µS/cm	1.62 mg/L	7.91 NTU	-61.7 mV	23.65 ft	160.00 ml/min
8/9/2023 10:18 AM	15:00	6.82 pH	20.59 °C	908.95 µS/cm	2.77 mg/L	4.08 NTU	-82.5 mV	23.64 ft	160.00 ml/min
8/9/2023 10:23 AM	20:00	6.82 pH	20.63 °C	911.77 µS/cm	1.38 mg/L	4.45 NTU	-84.8 mV	23.64 ft	160.00 ml/min
8/9/2023 10:28 AM	25:00	6.82 pH	20.57 °C	907.31 µS/cm	1.20 mg/L	4.04 NTU	-64.7 mV	23.63 ft	160.00 ml/min
8/9/2023 10:33 AM	30:00	6.83 pH	20.52 °C	905.19 µS/cm	0.97 mg/L	2.96 NTU	-85.5 mV	23.63 ft	160.00 ml/min
8/9/2023 10:38 AM	35:00	6.83 pH	20.58 °C	911.05 µS/cm	0.84 mg/L	3.40 NTU	-64.5 mV	23.63 ft	160.00 ml/min
8/9/2023 10:43 AM	40:00	6.82 pH	20.60 °C	909.15 µS/cm	0.94 mg/L	3.98 NTU	-84.4 mV	23.64 ft	160.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-08	Grab.
HAM-AP1-FD-06	Grab.

Low-Flow Test Report:

Test Date / Time: 8/9/2023 1:27:10 PM
Project: GP-Plant Hammond
Operator Name: Elisabeth McDonnell

Location Name: PT-09 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 28.8 ft** **Total Depth: 30.75 ft** **Initial Depth to Water: 14.99 ft**	**Pump Type: Peri** **Tubing Type: Poly** **Pump Intake From TOC: 26 ft** **Estimated Total Volume Pumped: 1.5 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 989630**

Test Notes:
Five bottles: Baseline Sampling and Major Ions

Weather Conditions:
Cloudy, 80 Degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
8/9/2023 1:27 PM	00:00	6.76 pH	21.93 °C	745.27 µS/cm	4.47 mg/L	2.02 NTU	56.2 mV	14.99 ft	200.00 ml/min
8/9/2023 1:32 PM	05:00	6.81 pH	21.68 °C	771.52 µS/cm	3.35 mg/L	1.11 NTU	52.3 mV	14.99 ft	200.00 ml/min
8/9/2023 1:37 PM	10:00	6.85 pH	21.44 °C	786.50 µS/cm	2.58 mg/L	1.46 NTU	28.7 mV	14.99 ft	200.00 ml/min
8/9/2023 1:42 PM	15:00	6.86 pH	21.30 °C	797.33 µS/cm	6.17 mg/L	2.12 NTU	16.0 mV	14.99 ft	200.00 ml/min
8/9/2023 1:47 PM	20:00	6.87 pH	21.28 °C	797.79 µS/cm	2.58 mg/L	2.86 NTU	19.9 mV	14.99 ft	200.00 ml/min
8/9/2023 1:52 PM	25:00	6.88 pH	21.32 °C	806.94 µS/cm	3.88 mg/L	3.70 NTU	15.9 mV	14.99 ft	200.00 ml/min
8/9/2023 1:57 PM	30:00	6.88 pH	21.25 °C	797.98 µS/cm	0.84 mg/L	3.86 NTU	11.7 mV	14.99 ft	200.00 ml/min
8/9/2023 2:02 PM	35:00	6.88 pH	21.20 °C	794.19 µS/cm	0.80 mg/L	3.31 NTU	10.9 mV	14.99 ft	200.00 ml/min
8/9/2023 2:07 PM	40:00	6.88 pH	21.03 °C	791.25 µS/cm	1.44 mg/L	2.06 NTU	10.4 mV	14.99 ft	200.00 ml/min
8/9/2023 2:12 PM	45:00	6.89 pH	20.96 °C	770.10 µS/cm	0.72 mg/L	1.72 NTU	9.1 mV	14.99 ft	200.00 ml/min
8/9/2023 2:17 PM	50:00	6.88 pH	20.97 °C	792.63 µS/cm	0.55 mg/L	0.98 NTU	9.9 mV	14.99 ft	200.00 ml/min
8/9/2023 2:22 PM	55:00	6.89 pH	21.06 °C	791.96 µS/cm	1.03 mg/L	1.51 NTU	1.0 mV	14.99 ft	200.00 ml/min
8/9/2023 2:27 PM	01:00:00	6.89 pH	21.29 °C	791.26 µS/cm	0.63 mg/L	0.62 NTU	12.2 mV	14.99 ft	200.00 ml/min
8/9/2023 2:32 PM	01:05:00	6.89 pH	21.71 °C	825.29 µS/cm	0.44 mg/L	0.44 NTU	14.1 mV	14.99 ft	200.00 ml/min
8/9/2023 2:37 PM	01:10:00	6.89 pH	21.59 °C	826.86 µS/cm	0.58 mg/L	0.56 NTU	14.4 mV	14.99 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-09	Grab.

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/9/2023 12:22:52 PM
Project: GP-Plant Hammond
Operator Name: Elisabeth McDonnell

Location Name: PT-10 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 20 ft** **Total Depth: 31.75 ft** **Initial Depth to Water: 15.05 ft**	**Pump Type: Peri** **Tubing Type: Poly** **Pump Intake From TOC: 25 ft** **Estimated Total Volume Pumped: 5.8 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 160 ml/min** **Final Draw Down: 0.13 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 989630**

Test Notes:
Five bottles: Baseline Sampling and Major Ions

Weather Conditions:
Cloudy, 80 Degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
8/9/2023 12:22 PM	00:00	7.14 pH	22.18 °C	811.17 µS/cm	1.15 mg/L	24.10 NTU	-75.4 mV	15.18 ft	160.00 ml/min
8/9/2023 12:27 PM	05:00	7.15 pH	22.04 °C	798.04 µS/cm	0.38 mg/L	16.60 NTU	-75.5 mV	15.18 ft	160.00 ml/min
8/9/2023 12:32 PM	10:00	7.16 pH	21.96 °C	800.28 µS/cm	0.37 mg/L	11.80 NTU	-99.1 mV	15.18 ft	160.00 ml/min
8/9/2023 12:37 PM	15:00	7.16 pH	22.00 °C	793.73 µS/cm	0.33 mg/L	4.09 NTU	-78.0 mV	15.18 ft	160.00 ml/min
8/9/2023 12:42 PM	20:00	7.17 pH	21.46 °C	790.02 µS/cm	0.24 mg/L	4.11 NTU	-101.9 mV	15.18 ft	160.00 ml/min
8/9/2023 12:47 PM	25:00	7.18 pH	21.86 °C	782.36 µS/cm	0.16 mg/L	2.36 NTU	-81.4 mV	15.18 ft	160.00 ml/min
8/9/2023 12:52 PM	30:00	7.18 pH	21.79 °C	770.46 µS/cm	0.12 mg/L	4.55 NTU	-80.9 mV	15.18 ft	160.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-10	Grab.

Low-Flow Test Report:

Test Date / Time: 5/2/2024 1:35:02 PM
Project: Plant Hammond
Operator Name: Zain Webb

Location Name: INW-04 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 34.95 ft** **Total Depth: 44.95 ft** **Initial Depth to Water: 24.73 ft**	**Pump Type: Bladder** **Tubing Type: Poly** **Pump Intake From TOC: 39.95 ft** **Estimated Total Volume Pumped: 9 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.67 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 966105**

Test Notes:
Full App. III and IV and Major Ions (no RADs).
Fe2+ = 6 mg/L.

Weather Conditions:
Clear, 70 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
5/2/2024 1:35 PM	00:00	6.74 pH	20.32 °C	671.78 µS/cm	0.54 mg/L	23.40 NTU	-103.0 mV	25.40 ft	200.00 ml/min
5/2/2024 1:40 PM	05:00	6.75 pH	20.43 °C	671.91 µS/cm	0.62 mg/L	11.80 NTU	-101.3 mV	25.40 ft	200.00 ml/min
5/2/2024 1:45 PM	10:00	6.76 pH	20.48 °C	673.75 µS/cm	0.65 mg/L	9.63 NTU	-101.9 mV	25.40 ft	200.00 ml/min
5/2/2024 1:50 PM	15:00	6.76 pH	20.45 °C	673.00 µS/cm	0.69 mg/L	8.21 NTU	-99.9 mV	25.40 ft	200.00 ml/min
5/2/2024 1:55 PM	20:00	6.77 pH	20.61 °C	672.37 µS/cm	0.67 mg/L	8.39 NTU	-99.5 mV	25.40 ft	200.00 ml/min
5/2/2024 2:00 PM	25:00	6.77 pH	20.66 °C	673.40 µS/cm	0.82 mg/L	5.71 NTU	-95.5 mV	25.40 ft	200.00 ml/min
5/2/2024 2:05 PM	30:00	6.78 pH	20.70 °C	674.20 µS/cm	0.76 mg/L	5.80 NTU	-97.4 mV	25.40 ft	200.00 ml/min
5/2/2024 2:10 PM	35:00	6.78 pH	20.39 °C	673.60 µS/cm	0.73 mg/L	5.17 NTU	-96.2 mV	25.40 ft	200.00 ml/min
5/2/2024 2:15 PM	40:00	6.78 pH	20.57 °C	674.04 µS/cm	0.72 mg/L	4.11 NTU	-96.1 mV	25.40 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-INW-04	Grab.

Low-Flow Test Report:

Test Date / Time: 5/2/2024 9:20:40 AM
Project: Plant Hammond
Operator Name: Zain Webb

Location Name: INW-05 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 34.65 ft** **Total Depth: 44.65 ft** **Initial Depth to Water: 24.81 ft**	**Pump Type: Bladder** **Tubing Type: Poly** **Pump Intake From TOC: 39.65 ft** **Estimated Total Volume Pumped: 7 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.04 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 966105**

Test Notes:
Full App. III and IV and Major Ions (no RADs).
Fe2+ > 10 mg/L.

Weather Conditions:
Clear, 70 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
5/2/2024 9:20 AM	00:00	6.82 pH	18.40 °C	705.59 µS/cm	0.18 mg/L	30.80 NTU	-112.4 mV	24.85 ft	200.00 ml/min
5/2/2024 9:25 AM	05:00	6.85 pH	18.26 °C	706.64 µS/cm	0.15 mg/L	17.10 NTU	-123.7 mV	24.85 ft	200.00 ml/min
5/2/2024 9:30 AM	10:00	6.87 pH	18.25 °C	708.86 µS/cm	0.12 mg/L	11.10 NTU	-125.7 mV	24.85 ft	200.00 ml/min
5/2/2024 9:35 AM	15:00	6.88 pH	18.26 °C	707.77 µS/cm	0.10 mg/L	7.39 NTU	-120.8 mV	24.85 ft	200.00 ml/min
5/2/2024 9:40 AM	20:00	6.88 pH	18.25 °C	706.48 µS/cm	0.09 mg/L	5.67 NTU	-126.4 mV	24.85 ft	200.00 ml/min
5/2/2024 9:45 AM	25:00	6.87 pH	18.16 °C	708.47 µS/cm	0.07 mg/L	4.21 NTU	-126.6 mV	24.85 ft	200.00 ml/min
5/2/2024 9:50 AM	30:00	6.87 pH	18.17 °C	706.51 µS/cm	0.06 mg/L	4.15 NTU	-120.9 mV	24.85 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-INW-05	Grab.

Low-Flow Test Report:

Test Date / Time: 5/2/2024 9:29:36 AM
Project: Plant Hammond
Operator Name: Elisabeth Russell

Location Name: PT-08 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 31.93 ft** **Total Depth: 41.93 ft** **Initial Depth to Water: 25.45 ft**	**Pump Type: Bladder** **Tubing Type: Poly** **Pump Intake From TOC: 36 ft** **Estimated Total Volume Pumped: 38 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.01 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 883546**

Test Notes:
Full App. III and IV and Major Ions (no RADs).
Fe2+ = 6 mg/L.

Weather Conditions:
Clear, 70 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
5/2/2024 9:29 AM	00:00	6.35 pH	24.56 °C	582.44 µS/cm	1.54 mg/L	24.60 NTU	134.4 mV	25.45 ft	200.00 ml/min
5/2/2024 9:34 AM	05:00	6.44 pH	22.45 °C	606.19 µS/cm	2.15 mg/L	22.00 NTU	137.5 mV	25.46 ft	200.00 ml/min
5/2/2024 9:39 AM	10:00	6.48 pH	21.66 °C	613.75 µS/cm	2.38 mg/L	19.20 NTU	139.2 mV	25.46 ft	200.00 ml/min
5/2/2024 9:44 AM	15:00	6.51 pH	21.55 °C	618.36 µS/cm	2.47 mg/L	17.20 NTU	145.2 mV	25.46 ft	200.00 ml/min
5/2/2024 9:49 AM	20:00	6.53 pH	21.04 °C	637.76 µS/cm	2.53 mg/L	11.90 NTU	148.4 mV	25.46 ft	200.00 ml/min
5/2/2024 9:54 AM	25:00	6.54 pH	20.95 °C	632.45 µS/cm	2.73 mg/L	10.86 NTU	152.0 mV	25.46 ft	200.00 ml/min
5/2/2024 9:59 AM	30:00	6.52 pH	20.55 °C	644.03 µS/cm	2.33 mg/L	11.83 NTU	154.4 mV	25.46 ft	200.00 ml/min
5/2/2024 10:04 AM	35:00	6.51 pH	20.60 °C	646.21 µS/cm	2.05 mg/L	10.99 NTU	157.7 mV	25.46 ft	200.00 ml/min
5/2/2024 10:09 AM	40:00	6.50 pH	20.67 °C	656.01 µS/cm	1.48 mg/L	11.17 NTU	161.7 mV	25.46 ft	200.00 ml/min
5/2/2024 10:14 AM	45:00	6.51 pH	20.73 °C	662.60 µS/cm	1.68 mg/L	8.91 NTU	164.0 mV	25.46 ft	200.00 ml/min
5/2/2024 10:19 AM	50:00	6.53 pH	20.77 °C	662.47 µS/cm	2.04 mg/L	9.98 NTU	160.1 mV	25.46 ft	200.00 ml/min
5/2/2024 10:24 AM	55:00	6.54 pH	20.83 °C	664.54 µS/cm	2.24 mg/L	9.44 NTU	159.7 mV	25.46 ft	200.00 ml/min
5/2/2024 10:29 AM	01:00:00	6.55 pH	20.90 °C	664.65 µS/cm	2.35 mg/L	9.50 NTU	155.9 mV	25.46 ft	200.00 ml/min
5/2/2024 10:34 AM	01:05:00	6.55 pH	20.93 °C	668.54 µS/cm	2.35 mg/L	9.41 NTU	159.4 mV	25.46 ft	200.00 ml/min
5/2/2024 10:39 AM	01:10:00	6.56 pH	20.99 °C	669.88 µS/cm	2.36 mg/L	9.23 NTU	158.5 mV	25.46 ft	200.00 ml/min

5/2/2024 10:44 AM	01:15:00	6.56 pH	20.99 °C	671.50 µS/cm	2.38 mg/L	7.89 NTU	158.0 mV	25.46 ft	200.00 ml/min
5/2/2024 10:49 AM	01:20:00	6.56 pH	21.02 °C	675.48 µS/cm	2.38 mg/L	8.83 NTU	157.0 mV	25.46 ft	200.00 ml/min
5/2/2024 10:54 AM	01:25:00	6.56 pH	21.08 °C	672.45 µS/cm	2.44 mg/L	8.09 NTU	156.4 mV	25.46 ft	200.00 ml/min
5/2/2024 10:59 AM	01:30:00	6.57 pH	21.08 °C	676.50 µS/cm	2.41 mg/L	8.17 NTU	161.1 mV	25.46 ft	200.00 ml/min
5/2/2024 11:02 AM	01:32:52	6.57 pH	21.23 °C	675.23 µS/cm	2.42 mg/L	8.20 NTU	153.9 mV	25.46 ft	200.00 ml/min
5/2/2024 11:07 AM	01:37:52	6.57 pH	21.16 °C	677.88 µS/cm	2.45 mg/L	8.05 NTU	156.3 mV	25.46 ft	200.00 ml/min
5/2/2024 11:12 AM	01:42:52	6.58 pH	21.20 °C	679.81 µS/cm	2.45 mg/L	7.99 NTU	151.9 mV	25.46 ft	200.00 ml/min
5/2/2024 11:17 AM	01:47:52	6.56 pH	21.26 °C	675.06 µS/cm	2.45 mg/L	7.87 NTU	157.4 mV	25.46 ft	200.00 ml/min
5/2/2024 11:22 AM	01:52:52	6.55 pH	21.23 °C	675.85 µS/cm	2.14 mg/L	7.41 NTU	157.0 mV	25.46 ft	200.00 ml/min
5/2/2024 11:27 AM	01:57:52	6.53 pH	21.26 °C	675.02 µS/cm	1.84 mg/L	7.03 NTU	156.1 mV	25.46 ft	200.00 ml/min
5/2/2024 11:32 AM	02:02:52	6.53 pH	21.22 °C	677.94 µS/cm	1.62 mg/L	6.98 NTU	156.0 mV	25.46 ft	200.00 ml/min
5/2/2024 11:37 AM	02:07:52	6.52 pH	21.23 °C	678.86 µS/cm	1.38 mg/L	6.76 NTU	156.6 mV	25.46 ft	200.00 ml/min
5/2/2024 11:42 AM	02:12:52	6.53 pH	21.24 °C	681.47 µS/cm	1.32 mg/L	7.27 NTU	158.1 mV	25.46 ft	200.00 ml/min
5/2/2024 11:47 AM	02:17:52	6.53 pH	21.25 °C	680.18 µS/cm	1.22 mg/L	6.49 NTU	152.3 mV	25.46 ft	200.00 ml/min
5/2/2024 11:52 AM	02:22:52	6.53 pH	21.26 °C	683.39 µS/cm	1.12 mg/L	6.78 NTU	150.0 mV	25.46 ft	200.00 ml/min
5/2/2024 11:57 AM	02:27:52	6.53 pH	21.33 °C	684.53 µS/cm	0.97 mg/L	7.09 NTU	150.6 mV	25.46 ft	200.00 ml/min
5/2/2024 12:01 PM	02:31:27	6.52 pH	21.44 °C	683.50 µS/cm	0.93 mg/L	6.89 NTU	153.2 mV	25.46 ft	200.00 ml/min
5/2/2024 12:06 PM	02:36:27	6.53 pH	21.37 °C	686.70 µS/cm	0.89 mg/L	7.03 NTU	154.3 mV	25.46 ft	200.00 ml/min
5/2/2024 12:11 PM	02:41:27	6.53 pH	21.44 °C	686.68 µS/cm	0.84 mg/L	7.99 NTU	157.8 mV	25.46 ft	200.00 ml/min
5/2/2024 12:16 PM	02:46:27	6.53 pH	21.42 °C	687.58 µS/cm	0.80 mg/L	6.26 NTU	155.5 mV	25.46 ft	200.00 ml/min
5/2/2024 12:21 PM	02:51:27	6.52 pH	21.36 °C	686.79 µS/cm	0.83 mg/L	6.77 NTU	158.3 mV	25.46 ft	200.00 ml/min
5/2/2024 12:26 PM	02:56:27	6.53 pH	21.35 °C	687.71 µS/cm	0.96 mg/L	7.03 NTU	151.0 mV	25.46 ft	200.00 ml/min
5/2/2024 12:31 PM	03:01:27	6.53 pH	21.27 °C	691.07 µS/cm	1.01 mg/L	8.60 NTU	154.4 mV	25.46 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-08	Grab.

Low-Flow Test Report:

Test Date / Time: 5/2/2024 11:06:29 AM
Project: Plant Hammond
Operator Name: Zain Webb

Location Name: PT-14 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 34.65 ft** **Total Depth: 44.65 ft** **Initial Depth to Water: 25.1 ft**	**Pump Type: Bladder** **Tubing Type: Poly** **Pump Intake From TOC: 39.65 ft** **Estimated Total Volume Pumped: 12 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 966105**

Test Notes:
Full App. III and IV and Major Ions (no RADs).
Fe2+ = 6 mg/L.

Weather Conditions:
Clear, 70 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
5/2/2024 11:06 AM	00:00	6.71 pH	22.40 °C	594.65 µS/cm	0.45 mg/L	49.50 NTU	-88.9 mV	25.10 ft	200.00 ml/min
5/2/2024 11:11 AM	05:00	6.76 pH	19.29 °C	630.14 µS/cm	0.19 mg/L	41.80 NTU	-99.5 mV	25.10 ft	200.00 ml/min
5/2/2024 11:16 AM	10:00	6.79 pH	19.21 °C	631.68 µS/cm	0.16 mg/L	31.20 NTU	-108.1 mV	25.10 ft	200.00 ml/min
5/2/2024 11:21 AM	15:00	6.81 pH	19.12 °C	633.14 µS/cm	0.13 mg/L	14.60 NTU	-109.5 mV	25.10 ft	200.00 ml/min
5/2/2024 11:26 AM	20:00	6.82 pH	19.06 °C	633.47 µS/cm	0.11 mg/L	11.80 NTU	-111.6 mV	25.10 ft	200.00 ml/min
5/2/2024 11:31 AM	25:00	6.82 pH	19.03 °C	632.62 µS/cm	0.08 mg/L	8.39 NTU	-112.2 mV	25.10 ft	200.00 ml/min
5/2/2024 11:36 AM	30:00	6.83 pH	19.02 °C	634.27 µS/cm	0.08 mg/L	7.05 NTU	-113.7 mV	25.10 ft	200.00 ml/min
5/2/2024 11:41 AM	35:00	6.83 pH	19.01 °C	635.47 µS/cm	0.07 mg/L	9.44 NTU	-114.8 mV	25.10 ft	200.00 ml/min
5/2/2024 11:46 AM	40:00	6.83 pH	19.01 °C	635.06 µS/cm	0.06 mg/L	6.59 NTU	-115.5 mV	25.10 ft	200.00 ml/min
5/2/2024 11:51 AM	45:00	6.83 pH	19.13 °C	634.75 µS/cm	0.07 mg/L	8.16 NTU	-116.0 mV	25.10 ft	200.00 ml/min
5/2/2024 11:56 AM	50:00	6.83 pH	19.10 °C	636.34 µS/cm	0.05 mg/L	5.51 NTU	-116.3 mV	25.10 ft	200.00 ml/min
5/2/2024 12:01 PM	55:00	6.83 pH	19.09 °C	636.04 µS/cm	0.05 mg/L	4.27 NTU	-116.5 mV	25.10 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-14	Grab.
HAM-AP1-FD-01	Grab.

Low-Flow Test Report:

Test Date / Time: 5/2/2024 2:09:59 PM
Project: Plant Hammond
Operator Name: Elisabeth Russell

Location Name: PT-15 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 34.54 ft** **Total Depth: 44.54 ft** **Initial Depth to Water: 25.05 ft**	**Pump Type: Bladder** **Tubing Type: Poly** **Pump Intake From TOC: 35 ft** **Estimated Total Volume Pumped: 19.5 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 250 ml/min** **Final Draw Down: 0.05 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 883546**

Test Notes:
Full App. III and IV and Major Ions (no RADs).
Fe2+ = 3 mg/L.

Weather Conditions:
Clear, 70 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
5/2/2024 2:09 PM	00:00	6.94 pH	24.23 °C	853.70 µS/cm	0.24 mg/L	32.40 NTU	85.0 mV	25.05 ft	200.00 ml/min
5/2/2024 2:14 PM	05:00	6.93 pH	22.42 °C	874.49 µS/cm	0.15 mg/L	17.40 NTU	98.0 mV	25.07 ft	200.00 ml/min
5/2/2024 2:19 PM	10:00	6.94 pH	22.11 °C	874.61 µS/cm	0.12 mg/L	12.18 NTU	106.1 mV	25.10 ft	200.00 ml/min
5/2/2024 2:24 PM	15:00	6.95 pH	22.02 °C	874.12 µS/cm	0.09 mg/L	12.24 NTU	109.4 mV	25.10 ft	200.00 ml/min
5/2/2024 2:29 PM	20:00	6.95 pH	22.09 °C	875.98 µS/cm	0.07 mg/L	10.40 NTU	108.5 mV	25.10 ft	200.00 ml/min
5/2/2024 2:34 PM	25:00	6.95 pH	22.18 °C	872.33 µS/cm	0.06 mg/L	10.34 NTU	108.1 mV	25.10 ft	200.00 ml/min
5/2/2024 2:39 PM	30:00	6.95 pH	22.40 °C	870.02 µS/cm	0.05 mg/L	9.37 NTU	104.0 mV	25.10 ft	200.00 ml/min
5/2/2024 2:44 PM	35:00	6.95 pH	22.51 °C	864.36 µS/cm	0.04 mg/L	8.99 NTU	102.7 mV	25.10 ft	200.00 ml/min
5/2/2024 2:49 PM	40:00	6.95 pH	22.46 °C	862.10 µS/cm	0.03 mg/L	9.39 NTU	103.2 mV	25.10 ft	200.00 ml/min
5/2/2024 2:54 PM	45:00	6.95 pH	22.50 °C	860.83 µS/cm	0.01 mg/L	9.03 NTU	99.8 mV	25.10 ft	200.00 ml/min
5/2/2024 2:59 PM	50:00	6.95 pH	22.27 °C	864.40 µS/cm	0.01 mg/L	8.88 NTU	99.3 mV	25.10 ft	200.00 ml/min
5/2/2024 3:04 PM	55:00	6.95 pH	22.21 °C	865.32 µS/cm	0.01 mg/L	8.36 NTU	98.5 mV	25.10 ft	200.00 ml/min
5/2/2024 3:09 PM	01:00:00	6.96 pH	21.94 °C	864.66 µS/cm	0.00 mg/L	8.70 NTU	94.2 mV	25.10 ft	250.00 ml/min
5/2/2024 3:14 PM	01:05:00	6.95 pH	21.49 °C	869.85 µS/cm	-0.02 mg/L	6.73 NTU	96.4 mV	25.10 ft	250.00 ml/min
5/2/2024 3:19 PM	01:10:00	6.95 pH	21.74 °C	869.26 µS/cm	-0.02 mg/L	5.29 NTU	90.9 mV	25.10 ft	250.00 ml/min

5/2/2024 3:24 PM	01:15:00	6.95 pH	21.80 °C	868.16 µS/cm	-0.03 mg/L	4.37 NTU	93.6 mV	25.10 ft	250.00 ml/min
5/2/2024 3:29 PM	01:20:00	6.95 pH	21.84 °C	866.31 µS/cm	-0.03 mg/L	3.78 NTU	93.8 mV	25.10 ft	250.00 ml/min
5/2/2024 3:34 PM	01:25:00	6.95 pH	21.71 °C	868.60 µS/cm	-0.03 mg/L	2.99 NTU	93.8 mV	25.10 ft	250.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-15	Grab

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 5/9/2024 2:23:35 PM
Project: Plant Hammond
Operator Name: Anthony Szwast

Location Name: PT-07 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 37.75 ft** **Total Depth: 47.75 ft** **Initial Depth to Water: 25.32 ft**	**Pump Type: Bladder** **Tubing Type: Poly** **Pump Intake From TOC: 42.75 ft** **Estimated Total Volume Pumped: 4 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 100 ml/min** **Final Draw Down: 0.03 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850751**

Test Notes:
Full App. III and IV and Major Ions (no RADs).
Total Fe > 10 mg/L.
Fe2+ = 3.5 mg/L.

Weather Conditions:
Cloudy, 70 deg. F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
5/9/2024 2:23 PM	00:00	6.75 pH	20.49 °C	666.44 µS/cm	2.66 mg/L	30.60 NTU	-78.1 mV	25.26 ft	100.00 ml/min
5/9/2024 2:28 PM	05:00	6.76 pH	20.66 °C	661.58 µS/cm	3.13 mg/L	25.00 NTU	-81.9 mV	25.34 ft	100.00 ml/min
5/9/2024 2:33 PM	10:00	6.77 pH	20.43 °C	663.91 µS/cm	2.04 mg/L	8.90 NTU	-89.2 mV	25.35 ft	100.00 ml/min
5/9/2024 2:38 PM	15:00	6.82 pH	20.28 °C	664.46 µS/cm	0.56 mg/L	1.83 NTU	-100.2 mV	25.35 ft	100.00 ml/min
5/9/2024 2:43 PM	20:00	6.85 pH	19.99 °C	665.10 µS/cm	0.38 mg/L	0.87 NTU	-108.4 mV	25.35 ft	100.00 ml/min
5/9/2024 2:48 PM	25:00	6.86 pH	20.06 °C	665.95 µS/cm	0.35 mg/L	1.04 NTU	-100.8 mV	25.35 ft	100.00 ml/min
5/9/2024 2:53 PM	30:00	6.86 pH	20.53 °C	665.99 µS/cm	0.37 mg/L	1.06 NTU	-100.6 mV	25.35 ft	100.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-07	Grab.

Low-Flow Test Report:

Test Date / Time: 5/9/2024 4:10:09 PM
Project: Plant Hammond
Operator Name: Anthony Szwast

Location Name: PT-13 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 35 ft** **Total Depth: 45 ft** **Initial Depth to Water: 24.85 ft**	**Pump Type: Bladder** **Tubing Type: Poly** **Pump Intake From TOC: 40 ft** **Estimated Total Volume Pumped: 3.5 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 100 ml/min** **Final Draw Down: 0.01 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850751**

Test Notes:
Full App. III and IV and Major Ions (no RADs).
Total Fe > 10 mg/L.
Fe2+ = 4.0 mg/L.

Weather Conditions:
Partly cloudy, 75 deg. F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
5/9/2024 4:10 PM	00:00	6.76 pH	25.40 °C	658.97 µS/cm	0.92 mg/L	62.20 NTU	-109.5 mV	24.84 ft	100.00 ml/min
5/9/2024 4:15 PM	05:00	6.81 pH	22.00 °C	665.97 µS/cm	0.50 mg/L	21.30 NTU	-106.4 mV	24.87 ft	100.00 ml/min
5/9/2024 4:20 PM	10:00	6.83 pH	21.25 °C	672.24 µS/cm	0.34 mg/L	11.00 NTU	-113.2 mV	24.84 ft	100.00 ml/min
5/9/2024 4:25 PM	15:00	6.84 pH	21.06 °C	669.58 µS/cm	0.28 mg/L	8.58 NTU	-112.5 mV	24.84 ft	100.00 ml/min
5/9/2024 4:30 PM	20:00	6.84 pH	20.87 °C	670.23 µS/cm	0.22 mg/L	2.95 NTU	-105.5 mV	24.85 ft	100.00 ml/min
5/9/2024 4:35 PM	25:00	6.84 pH	20.77 °C	668.65 µS/cm	0.18 mg/L	2.98 NTU	-104.6 mV	24.86 ft	100.00 ml/min
5/9/2024 4:40 PM	30:00	6.84 pH	20.75 °C	670.23 µS/cm	0.16 mg/L	2.27 NTU	-104.0 mV	24.86 ft	100.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-13	Grab.

Low-Flow Test Report:

Test Date / Time: 5/14/2024 1:18:17 PM
Project: Plant Hammond
Operator Name: Jamie Newsome

Location Name: AS-01 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 17 ft** **Total Depth: 27 ft** **Initial Depth to Water: 11.52 ft**	**Pump Type: Peri** **Tubing Type: Poly** **Pump Intake From TOC: 22 ft** **Estimated Total Volume Pumped: 10 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 966105**

Test Notes:
Full App. III and IV and Major Ions (no RADs).

Weather Conditions:
Light rain, 70F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
5/14/2024 1:18 PM	00:00	7.66 pH	18.05 °C	863.23 µS/cm	0.18 mg/L	11.20 NTU	52.6 mV	11.52 ft	200.00 ml/min
5/14/2024 1:23 PM	05:00	7.78 pH	18.12 °C	805.31 µS/cm	0.23 mg/L	11.40 NTU	36.3 mV	11.52 ft	200.00 ml/min
5/14/2024 1:28 PM	10:00	7.88 pH	18.26 °C	798.68 µS/cm	0.26 mg/L	18.70 NTU	37.4 mV	11.52 ft	200.00 ml/min
5/14/2024 1:33 PM	15:00	7.83 pH	18.39 °C	795.31 µS/cm	0.24 mg/L	18.60 NTU	37.6 mV	11.52 ft	200.00 ml/min
5/14/2024 1:38 PM	20:00	8.01 pH	18.47 °C	798.28 µS/cm	0.39 mg/L	25.40 NTU	31.3 mV	11.52 ft	200.00 ml/min
5/14/2024 1:43 PM	25:00	8.04 pH	18.55 °C	802.11 µS/cm	0.43 mg/L	16.50 NTU	31.1 mV	11.52 ft	200.00 ml/min
5/14/2024 1:48 PM	30:00	7.85 pH	18.88 °C	801.55 µS/cm	0.30 mg/L	17.70 NTU	38.0 mV	11.52 ft	200.00 ml/min
5/14/2024 1:53 PM	35:00	7.77 pH	19.24 °C	812.68 µS/cm	0.24 mg/L	11.30 NTU	41.2 mV	11.52 ft	200.00 ml/min
5/14/2024 1:58 PM	40:00	7.72 pH	19.05 °C	816.72 µS/cm	0.23 mg/L	8.73 NTU	42.0 mV	11.52 ft	200.00 ml/min
5/14/2024 2:03 PM	45:00	7.68 pH	18.77 °C	835.04 µS/cm	0.25 mg/L	4.98 NTU	43.0 mV	11.52 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-AS-01	Grab.

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 5/15/2024 12:20:04 PM
Project: Plant Hammond
Operator Name: Jamie Newsome

Location Name: INW-04 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 35 ft** **Total Depth: 45 ft** **Initial Depth to Water: 24.75 ft**	**Pump Type: Bladder** **Tubing Type: Poly** **Pump Intake From TOC: 40 ft** **Estimated Total Volume Pumped: 12.5 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 100 ml/min** **Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 966105**

Test Notes:
Full App. III and IV and Major Ions (no RADs).
Fe2+ = 2.5 mg/L.

Weather Conditions:
Partly cloudy, 75F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
5/15/2024 12:20 PM	00:00	6.94 pH	20.68 °C	691.70 µS/cm	0.65 mg/L	7.97 NTU	-90.5 mV	24.75 ft	100.00 ml/min
5/15/2024 12:25 PM	05:00	6.94 pH	20.71 °C	692.40 µS/cm	0.53 mg/L	9.88 NTU	-92.0 mV	24.75 ft	100.00 ml/min
5/15/2024 12:30 PM	10:00	6.94 pH	20.48 °C	695.78 µS/cm	0.49 mg/L	22.80 NTU	-95.6 mV	24.75 ft	100.00 ml/min
5/15/2024 12:35 PM	15:00	6.96 pH	20.38 °C	719.95 µS/cm	0.43 mg/L	92.90 NTU	-97.0 mV	24.75 ft	100.00 ml/min
5/15/2024 12:40 PM	20:00	6.97 pH	20.48 °C	721.53 µS/cm	0.31 mg/L	91.00 NTU	-98.8 mV	24.75 ft	100.00 ml/min
5/15/2024 12:45 PM	25:00	6.97 pH	19.90 °C	718.94 µS/cm	0.26 mg/L	72.20 NTU	-99.3 mV	24.75 ft	100.00 ml/min
5/15/2024 12:50 PM	30:00	6.96 pH	19.99 °C	717.86 µS/cm	0.21 mg/L	56.00 NTU	-100.6 mV	24.75 ft	100.00 ml/min
5/15/2024 12:55 PM	35:00	6.95 pH	20.69 °C	712.72 µS/cm	0.19 mg/L	42.90 NTU	-103.1 mV	24.75 ft	100.00 ml/min
5/15/2024 1:00 PM	40:00	6.96 pH	20.37 °C	705.43 µS/cm	0.17 mg/L	32.10 NTU	-104.2 mV	24.75 ft	100.00 ml/min
5/15/2024 1:05 PM	45:00	6.95 pH	20.21 °C	703.72 µS/cm	0.14 mg/L	23.80 NTU	-105.1 mV	24.75 ft	100.00 ml/min
5/15/2024 1:10 PM	50:00	6.95 pH	19.95 °C	702.71 µS/cm	0.14 mg/L	19.30 NTU	-105.3 mV	24.75 ft	100.00 ml/min
5/15/2024 1:15 PM	55:00	6.95 pH	20.15 °C	702.02 µS/cm	0.13 mg/L	14.80 NTU	-105.9 mV	24.75 ft	100.00 ml/min
5/15/2024 1:20 PM	01:00:00	6.94 pH	20.64 °C	698.75 µS/cm	0.13 mg/L	13.50 NTU	-107.2 mV	24.75 ft	100.00 ml/min

5/15/2024 1:25 PM	01:05:00	6.94 pH	20.04 °C	698.46 µS/cm	0.12 mg/L	11.20 NTU	-104.7 mV	24.75 ft	100.00 ml/min
5/15/2024 1:30 PM	01:10:00	6.95 pH	19.74 °C	698.67 µS/cm	0.12 mg/L	12.80 NTU	-103.9 mV	24.75 ft	100.00 ml/min
5/15/2024 1:35 PM	01:15:00	6.94 pH	19.74 °C	697.18 µS/cm	0.14 mg/L	9.88 NTU	-103.4 mV	24.75 ft	100.00 ml/min
5/15/2024 1:40 PM	01:20:00	6.94 pH	20.21 °C	699.40 µS/cm	0.20 mg/L	9.75 NTU	-103.7 mV	24.75 ft	100.00 ml/min
5/15/2024 1:45 PM	01:25:00	6.94 pH	20.16 °C	696.60 µS/cm	0.30 mg/L	8.87 NTU	-102.2 mV	24.75 ft	100.00 ml/min
5/15/2024 1:50 PM	01:30:00	6.93 pH	20.48 °C	695.91 µS/cm	0.38 mg/L	8.23 NTU	-100.0 mV	24.75 ft	100.00 ml/min
5/15/2024 1:55 PM	01:35:00	6.94 pH	19.87 °C	693.32 µS/cm	0.45 mg/L	7.28 NTU	-99.9 mV	24.75 ft	100.00 ml/min
5/15/2024 2:00 PM	01:40:00	6.94 pH	20.08 °C	696.43 µS/cm	0.51 mg/L	7.16 NTU	-98.7 mV	24.75 ft	100.00 ml/min
5/15/2024 2:05 PM	01:45:00	6.94 pH	20.13 °C	694.50 µS/cm	0.48 mg/L	6.23 NTU	-98.5 mV	24.75 ft	100.00 ml/min
5/15/2024 2:10 PM	01:50:00	6.94 pH	20.33 °C	694.16 µS/cm	0.46 mg/L	5.46 NTU	-98.5 mV	24.75 ft	100.00 ml/min
5/15/2024 2:15 PM	01:55:00	6.94 pH	19.86 °C	693.25 µS/cm	0.48 mg/L	4.92 NTU	-97.4 mV	24.75 ft	100.00 ml/min

Samples

Sample ID:	Description:
HAM-INW-04	Grab.
HAM-AP1-FD-02	Grab.

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 5/15/2024 10:00:05 AM
Project: Plant Hammond
Operator Name: Jamie Newsome

Location Name: INW-05 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 35 ft** **Total Depth: 45 ft** **Initial Depth to Water: 24.48 ft**	**Pump Type: Bladder** **Tubing Type: Poly** **Pump Intake From TOC: 40 ft** **Estimated Total Volume Pumped: 8 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 100 ml/min** **Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 966105**

Test Notes:
Full App. III and IV and Major Ions (no RADs).

Weather Conditions:
Cloudy, 70F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
5/15/2024 10:00 AM	00:00	6.98 pH	18.46 °C	689.27 µS/cm	0.33 mg/L	11.60 NTU	-132.4 mV	24.48 ft	100.00 ml/min
5/15/2024 10:05 AM	05:00	7.00 pH	18.48 °C	697.86 µS/cm	0.32 mg/L	43.30 NTU	-131.6 mV	24.48 ft	100.00 ml/min
5/15/2024 10:10 AM	10:00	7.01 pH	18.45 °C	695.52 µS/cm	0.25 mg/L	107.50 NTU	-137.8 mV	24.48 ft	100.00 ml/min
5/15/2024 10:15 AM	15:00	7.02 pH	18.47 °C	692.19 µS/cm	0.28 mg/L	88.60 NTU	-137.3 mV	24.48 ft	100.00 ml/min
5/15/2024 10:20 AM	20:00	7.02 pH	18.49 °C	689.46 µS/cm	0.27 mg/L	67.00 NTU	-131.7 mV	24.48 ft	100.00 ml/min
5/15/2024 10:25 AM	25:00	7.02 pH	18.46 °C	687.15 µS/cm	0.25 mg/L	50.10 NTU	-131.2 mV	24.48 ft	100.00 ml/min
5/15/2024 10:30 AM	30:00	7.02 pH	18.54 °C	685.31 µS/cm	0.27 mg/L	35.40 NTU	-129.5 mV	24.48 ft	100.00 ml/min
5/15/2024 10:35 AM	35:00	7.01 pH	18.56 °C	682.72 µS/cm	0.34 mg/L	21.40 NTU	-129.9 mV	24.48 ft	100.00 ml/min
5/15/2024 10:40 AM	40:00	7.01 pH	18.70 °C	681.19 µS/cm	0.36 mg/L	16.40 NTU	-127.8 mV	24.48 ft	100.00 ml/min
5/15/2024 10:45 AM	45:00	7.01 pH	18.66 °C	680.55 µS/cm	0.37 mg/L	13.30 NTU	-126.5 mV	24.48 ft	100.00 ml/min
5/15/2024 10:50 AM	50:00	7.01 pH	18.73 °C	679.58 µS/cm	0.36 mg/L	11.50 NTU	-126.1 mV	24.48 ft	100.00 ml/min
5/15/2024 10:55 AM	55:00	7.01 pH	18.74 °C	679.78 µS/cm	0.38 mg/L	11.77 NTU	-125.5 mV	24.48 ft	100.00 ml/min
5/15/2024 11:00 AM	01:00:00	7.01 pH	18.97 °C	676.34 µS/cm	0.37 mg/L	9.57 NTU	-121.8 mV	24.48 ft	100.00 ml/min

5/15/2024 11:05 AM	01:05:00	7.01 pH	18.82 °C	676.61 µS/cm	0.39 mg/L	8.42 NTU	-124.0 mV	24.48 ft	100.00 ml/min
5/15/2024 11:10 AM	01:10:00	7.01 pH	19.09 °C	677.40 µS/cm	0.37 mg/L	6.83 NTU	-124.4 mV	24.48 ft	100.00 ml/min
5/15/2024 11:15 AM	01:15:00	7.01 pH	19.19 °C	675.78 µS/cm	0.36 mg/L	4.97 NTU	-124.3 mV	24.48 ft	100.00 ml/min

Samples

Sample ID:	Description:
HAM-INW-05	Grab.

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 5/16/2024 9:12:40 AM
Project: Plant Hammond
Operator Name: Jamie Newsome

Location Name: PT-07 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 37.6 ft** **Total Depth: 47.6 ft** **Initial Depth to Water: 25.1 ft**	**Pump Type: Bladder** **Tubing Type: Poly** **Pump Intake From TOC: 42.6 ft** **Estimated Total Volume Pumped: 32 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 100 ml/min** **Final Draw Down: 0.05 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 966105**

Test Notes:
Full App. III and IV and Major Ions (no RADs).
Fe2+ = 2.0 mg/L.

Weather Conditions:
Sunny, 70F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
5/16/2024 9:12 AM	00:00	6.95 pH	18.01 °C	667.33 µS/cm	4.16 mg/L	10.89 NTU	-80.3 mV	25.10 ft	200.00 ml/min
5/16/2024 9:17 AM	05:00	6.97 pH	17.99 °C	668.59 µS/cm	4.23 mg/L	8.81 NTU	-80.6 mV	25.15 ft	200.00 ml/min
5/16/2024 9:22 AM	10:00	6.98 pH	17.99 °C	670.91 µS/cm	4.11 mg/L	8.09 NTU	-82.0 mV	25.15 ft	200.00 ml/min
5/16/2024 9:27 AM	15:00	7.00 pH	18.03 °C	671.58 µS/cm	4.06 mg/L	7.64 NTU	-83.3 mV	25.15 ft	200.00 ml/min
5/16/2024 9:32 AM	20:00	7.01 pH	18.03 °C	673.36 µS/cm	4.08 mg/L	8.05 NTU	-84.4 mV	25.15 ft	200.00 ml/min
5/16/2024 9:37 AM	25:00	7.01 pH	17.99 °C	675.11 µS/cm	3.95 mg/L	7.74 NTU	-85.5 mV	25.15 ft	200.00 ml/min
5/16/2024 9:42 AM	30:00	7.01 pH	18.03 °C	675.27 µS/cm	3.87 mg/L	8.09 NTU	-86.3 mV	25.15 ft	200.00 ml/min
5/16/2024 9:47 AM	35:00	7.01 pH	18.07 °C	674.61 µS/cm	3.86 mg/L	7.14 NTU	-86.8 mV	25.15 ft	200.00 ml/min
5/16/2024 9:52 AM	40:00	7.01 pH	18.08 °C	675.60 µS/cm	3.95 mg/L	7.99 NTU	-89.0 mV	25.15 ft	200.00 ml/min
5/16/2024 9:57 AM	45:00	7.01 pH	18.08 °C	676.64 µS/cm	3.80 mg/L	8.51 NTU	-89.9 mV	25.15 ft	200.00 ml/min
5/16/2024 10:02 AM	50:00	7.01 pH	18.21 °C	673.83 µS/cm	3.80 mg/L	10.10 NTU	-87.7 mV	25.15 ft	200.00 ml/min
5/16/2024 10:07 AM	55:00	7.01 pH	18.27 °C	675.26 µS/cm	3.76 mg/L	10.34 NTU	-88.6 mV	25.15 ft	200.00 ml/min
5/16/2024 10:12 AM	01:00:00	7.01 pH	18.27 °C	674.83 µS/cm	3.88 mg/L	9.86 NTU	-88.6 mV	25.15 ft	200.00 ml/min

5/16/2024 10:17 AM	01:05:00	7.01 pH	18.52 °C	671.23 µS/cm	3.83 mg/L	13.27 NTU	-88.0 mV	25.15 ft	200.00 ml/min
5/16/2024 10:22 AM	01:10:00	7.01 pH	18.44 °C	675.80 µS/cm	3.67 mg/L	11.80 NTU	-89.1 mV	25.15 ft	200.00 ml/min
5/16/2024 10:27 AM	01:15:00	7.00 pH	18.34 °C	672.95 µS/cm	3.69 mg/L	11.10 NTU	-88.6 mV	25.15 ft	200.00 ml/min
5/16/2024 10:32 AM	01:20:00	7.01 pH	18.19 °C	672.92 µS/cm	3.81 mg/L	11.30 NTU	-88.5 mV	25.15 ft	200.00 ml/min
5/16/2024 10:37 AM	01:25:00	7.01 pH	18.34 °C	673.83 µS/cm	3.81 mg/L	11.50 NTU	-88.7 mV	25.15 ft	200.00 ml/min
5/16/2024 10:42 AM	01:30:00	7.01 pH	18.47 °C	674.23 µS/cm	3.91 mg/L	11.80 NTU	-88.9 mV	25.15 ft	200.00 ml/min
5/16/2024 10:47 AM	01:35:00	7.01 pH	18.52 °C	673.88 µS/cm	3.74 mg/L	12.10 NTU	-89.0 mV	25.15 ft	200.00 ml/min
5/16/2024 10:52 AM	01:40:00	7.01 pH	18.49 °C	672.98 µS/cm	3.88 mg/L	11.50 NTU	-89.1 mV	25.15 ft	200.00 ml/min
5/16/2024 10:57 AM	01:45:00	7.01 pH	18.40 °C	674.82 µS/cm	3.77 mg/L	11.10 NTU	-89.3 mV	25.15 ft	200.00 ml/min
5/16/2024 11:02 AM	01:50:00	7.00 pH	18.57 °C	673.12 µS/cm	3.87 mg/L	11.50 NTU	-90.4 mV	25.15 ft	200.00 ml/min
5/16/2024 11:07 AM	01:55:00	7.01 pH	18.52 °C	674.19 µS/cm	3.78 mg/L	11.30 NTU	-90.7 mV	25.15 ft	200.00 ml/min
5/16/2024 11:12 AM	02:00:00	7.00 pH	18.52 °C	673.98 µS/cm	3.75 mg/L	11.10 NTU	-90.7 mV	25.15 ft	200.00 ml/min
5/16/2024 11:17 AM	02:05:00	7.00 pH	18.57 °C	674.73 µS/cm	3.95 mg/L	11.20 NTU	-88.9 mV	25.15 ft	200.00 ml/min
5/16/2024 11:22 AM	02:10:00	7.00 pH	18.52 °C	673.25 µS/cm	3.84 mg/L	11.40 NTU	-88.8 mV	25.15 ft	200.00 ml/min
5/16/2024 11:27 AM	02:15:00	6.99 pH	19.07 °C	676.19 µS/cm	3.35 mg/L	11.50 NTU	-90.3 mV	25.15 ft	100.00 ml/min
5/16/2024 11:32 AM	02:20:00	6.99 pH	19.17 °C	676.75 µS/cm	2.38 mg/L	10.89 NTU	-95.8 mV	25.15 ft	100.00 ml/min
5/16/2024 11:37 AM	02:25:00	7.00 pH	19.24 °C	677.74 µS/cm	2.42 mg/L	12.30 NTU	-96.1 mV	25.15 ft	100.00 ml/min
5/16/2024 11:42 AM	02:30:00	6.99 pH	19.35 °C	673.31 µS/cm	2.26 mg/L	13.42 NTU	-93.9 mV	25.15 ft	100.00 ml/min
5/16/2024 11:47 AM	02:35:00	6.98 pH	19.50 °C	674.30 µS/cm	2.41 mg/L	12.50 NTU	-92.9 mV	25.15 ft	100.00 ml/min
5/16/2024 11:52 AM	02:40:00	6.98 pH	19.29 °C	671.44 µS/cm	2.39 mg/L		-92.2 mV	25.15 ft	100.00 ml/min
5/16/2024 11:57 AM	02:45:00	6.98 pH	19.34 °C	669.89 µS/cm	2.70 mg/L	13.20 NTU	-90.9 mV	25.15 ft	100.00 ml/min
5/16/2024 12:02 PM	02:50:00	6.98 pH	19.28 °C	670.02 µS/cm	2.34 mg/L	13.70 NTU	-92.0 mV	25.15 ft	100.00 ml/min
5/16/2024 12:07 PM	02:55:00	6.98 pH	19.28 °C	670.24 µS/cm	2.41 mg/L	14.20 NTU	-91.6 mV	25.15 ft	100.00 ml/min
5/16/2024 12:12 PM	03:00:00	6.98 pH	19.39 °C	671.25 µS/cm	2.33 mg/L	13.80 NTU	-91.9 mV	25.15 ft	100.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-07	Grab.
HAM-PT-07-TS-WG-05162024	Grab.

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 5/16/2024 9:17:05 AM
Project: Plant Hammond
Operator Name: Anthony Szwast

Location Name: PT-08 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 31.93 ft** **Total Depth: 41.93 ft** **Initial Depth to Water: 24.91 ft**	**Pump Type: Bladder** **Tubing Type: Poly** **Pump Intake From TOC: 36.93 ft** **Estimated Total Volume Pumped: 16 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850751**

Test Notes:
Full App. III and IV and Major Ions (no RADs).
Total Fe > 7 mg/L.
Fe2+ = 5.6 mg/L.

Weather Conditions:
Sunny, 70 deg. F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
5/16/2024 9:17 AM	00:00	6.41 pH	19.46 °C	607.47 µS/cm	0.66 mg/L	54.40 NTU	-29.9 mV	24.90 ft	200.00 ml/min
5/16/2024 9:22 AM	05:00	6.40 pH	19.10 °C	610.29 µS/cm	0.90 mg/L	44.50 NTU	-27.9 mV	24.91 ft	200.00 ml/min
5/16/2024 9:27 AM	10:00	6.41 pH	19.07 °C	613.25 µS/cm	0.91 mg/L	28.20 NTU	-26.9 mV	24.93 ft	200.00 ml/min
5/16/2024 9:32 AM	15:00	6.41 pH	19.06 °C	611.66 µS/cm	1.18 mg/L	20.20 NTU	-23.7 mV	24.91 ft	200.00 ml/min
5/16/2024 9:37 AM	20:00	6.42 pH	18.97 °C	613.21 µS/cm	1.22 mg/L	16.10 NTU	-23.0 mV	24.91 ft	200.00 ml/min
5/16/2024 9:42 AM	25:00	6.42 pH	19.10 °C	612.36 µS/cm	1.15 mg/L	14.60 NTU	-23.7 mV	24.91 ft	200.00 ml/min
5/16/2024 9:47 AM	30:00	6.42 pH	19.10 °C	614.95 µS/cm	1.03 mg/L	13.00 NTU	-22.8 mV	24.91 ft	200.00 ml/min
5/16/2024 9:52 AM	35:00	6.43 pH	19.15 °C	616.67 µS/cm	0.97 mg/L	12.70 NTU	-23.4 mV	24.91 ft	200.00 ml/min
5/16/2024 9:57 AM	40:00	6.44 pH	19.12 °C	617.80 µS/cm	0.96 mg/L	7.13 NTU	-25.5 mV	24.91 ft	200.00 ml/min
5/16/2024 10:02 AM	45:00	6.44 pH	19.09 °C	618.77 µS/cm	0.93 mg/L	6.82 NTU	-24.1 mV	24.91 ft	200.00 ml/min
5/16/2024 10:07 AM	50:00	6.45 pH	19.15 °C	618.51 µS/cm	0.94 mg/L	5.84 NTU	-23.8 mV	24.91 ft	200.00 ml/min
5/16/2024 10:12 AM	55:00	6.45 pH	19.26 °C	620.25 µS/cm	0.93 mg/L	5.45 NTU	-24.1 mV	24.91 ft	200.00 ml/min
5/16/2024 10:17 AM	01:00:00	6.46 pH	19.29 °C	621.61 µS/cm	0.81 mg/L	5.28 NTU	-25.1 mV	24.91 ft	200.00 ml/min

5/16/2024 10:22 AM	01:05:00	6.47 pH	19.30 °C	622.51 µS/cm	0.70 mg/L	4.66 NTU	-26.0 mV	24.91 ft	200.00 ml/min
5/16/2024 10:27 AM	01:10:00	6.47 pH	19.10 °C	625.69 µS/cm	0.54 mg/L	4.58 NTU	-29.4 mV	24.91 ft	200.00 ml/min
5/16/2024 10:32 AM	01:15:00	6.49 pH	19.16 °C	626.30 µS/cm	0.51 mg/L	4.10 NTU	-29.0 mV	24.91 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-08	Grab.
HAM-PT-08-TS-WG-05162024	Grab.

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 5/14/2024 9:20:06 AM
Project: Plant Hammond
Operator Name: Jamie Newsome

Location Name: PT-09 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 17.15 ft** **Total Depth: 27.15 ft** **Initial Depth to Water: 14.82 ft**	**Pump Type: Peri** **Tubing Type: Poly** **Pump Intake From TOC: 19.15 ft** **Estimated Total Volume Pumped: 16 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.03 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 966105**

Test Notes:
Full App. III and IV and Major Ions (no RADs).

Weather Conditions:
Cloudy, 64F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
5/14/2024 9:20 AM	00:00	6.99 pH	17.49 °C	706.91 µS/cm	0.18 mg/L	823.00 NTU	105.6 mV	14.82 ft	200.00 ml/min
5/14/2024 9:25 AM	05:00	7.06 pH	17.45 °C	716.68 µS/cm	0.43 mg/L	40.60 NTU	85.0 mV	14.82 ft	200.00 ml/min
5/14/2024 9:30 AM	10:00	7.16 pH	17.54 °C	711.82 µS/cm	0.09 mg/L	634.00 NTU	65.8 mV	14.82 ft	200.00 ml/min
5/14/2024 9:35 AM	15:00	7.18 pH	17.61 °C	705.63 µS/cm	0.07 mg/L	147.00 NTU	48.7 mV	14.82 ft	200.00 ml/min
5/14/2024 9:40 AM	20:00	7.17 pH	17.63 °C	700.13 µS/cm	0.06 mg/L	150.00 NTU	46.3 mV	14.82 ft	200.00 ml/min
5/14/2024 9:45 AM	25:00	7.17 pH	17.67 °C	693.99 µS/cm	0.05 mg/L	85.90 NTU	54.4 mV	14.82 ft	200.00 ml/min
5/14/2024 9:50 AM	30:00	7.17 pH	17.67 °C	691.39 µS/cm	0.05 mg/L	66.80 NTU	54.7 mV	14.85 ft	200.00 ml/min
5/14/2024 9:55 AM	35:00	7.16 pH	17.69 °C	689.18 µS/cm	0.05 mg/L	39.40 NTU	54.3 mV	14.85 ft	200.00 ml/min
5/14/2024 10:00 AM	40:00	7.16 pH	17.75 °C	686.92 µS/cm	0.05 mg/L	28.50 NTU	54.0 mV	14.85 ft	200.00 ml/min
5/14/2024 10:05 AM	45:00	7.15 pH	17.76 °C	685.36 µS/cm	0.06 mg/L	21.00 NTU	53.5 mV	14.85 ft	200.00 ml/min
5/14/2024 10:10 AM	50:00	7.15 pH	17.76 °C	685.00 µS/cm	0.06 mg/L	12.60 NTU	53.1 mV	14.85 ft	200.00 ml/min
5/14/2024 10:15 AM	55:00	7.15 pH	17.77 °C	684.26 µS/cm	0.06 mg/L	11.50 NTU	52.3 mV	14.85 ft	200.00 ml/min
5/14/2024 10:20 AM	01:00:00	7.15 pH	17.76 °C	683.86 µS/cm	0.07 mg/L	11.60 NTU	51.6 mV	14.85 ft	200.00 ml/min

5/14/2024 10:25 AM	01:05:00	7.16 pH	17.77 °C	684.36 µS/cm	0.05 mg/L	7.81 NTU	51.0 mV	14.85 ft	200.00 ml/min
5/14/2024 10:30 AM	01:10:00	7.16 pH	17.75 °C	682.89 µS/cm	0.05 mg/L	6.15 NTU	50.4 mV	14.85 ft	200.00 ml/min
5/14/2024 10:35 AM	01:15:00	7.16 pH	17.76 °C	681.69 µS/cm	0.04 mg/L	4.98 NTU	49.9 mV	14.85 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-09	Grab.

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 5/15/2024 10:12:45 AM
Project: Plant Hammond
Operator Name: Anthony Szwast

Location Name: PT-10 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 20.45 ft** **Total Depth: 30.45 ft** **Initial Depth to Water: 15.11 ft**	**Pump Type: Peri** **Tubing Type: Poly** **Pump Intake From TOC: 25.45 ft** **Estimated Total Volume Pumped: 20 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.05 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850751**

Test Notes:
Full App. III and IV and Major Ions (no RADs).
Total Fe = 0 mg/L.
Fe2+ = 0 mg/L.

Weather Conditions:
Cloudy, 67 deg. F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
5/15/2024 10:12 AM	00:00	6.88 pH	19.14 °C	744.43 µS/cm	0.41 mg/L	65.60 NTU	-23.7 mV	15.14 ft	200.00 ml/min
5/15/2024 10:17 AM	05:00	6.90 pH	18.86 °C	738.89 µS/cm	0.38 mg/L	72.30 NTU	-12.8 mV	15.14 ft	200.00 ml/min
5/15/2024 10:22 AM	10:00	6.86 pH	18.82 °C	728.49 µS/cm	0.38 mg/L	55.40 NTU	-5.8 mV	15.14 ft	200.00 ml/min
5/15/2024 10:27 AM	15:00	6.89 pH	18.79 °C	713.40 µS/cm	0.34 mg/L	50.40 NTU	4.9 mV	15.14 ft	200.00 ml/min
5/15/2024 10:32 AM	20:00	6.87 pH	18.76 °C	716.36 µS/cm	0.35 mg/L	35.20 NTU	6.4 mV	15.14 ft	200.00 ml/min
5/15/2024 10:37 AM	25:00	6.92 pH	18.98 °C	714.92 µS/cm	0.36 mg/L	32.00 NTU	10.5 mV	15.14 ft	200.00 ml/min
5/15/2024 10:42 AM	30:00	6.91 pH	18.99 °C	721.19 µS/cm	0.34 mg/L	25.70 NTU	8.1 mV	15.15 ft	200.00 ml/min
5/15/2024 10:47 AM	35:00	6.88 pH	19.08 °C	719.67 µS/cm	0.31 mg/L	22.90 NTU	9.9 mV	15.15 ft	200.00 ml/min
5/15/2024 10:52 AM	40:00	6.92 pH	19.06 °C	716.50 µS/cm	0.34 mg/L	19.30 NTU	11.9 mV	15.15 ft	200.00 ml/min
5/15/2024 10:57 AM	45:00	6.89 pH	19.05 °C	716.11 µS/cm	0.33 mg/L	16.00 NTU	12.2 mV	15.15 ft	200.00 ml/min
5/15/2024 11:02 AM	50:00	6.92 pH	19.51 °C	719.47 µS/cm	0.33 mg/L	12.70 NTU	10.8 mV	15.15 ft	200.00 ml/min
5/15/2024 11:07 AM	55:00	6.92 pH	19.28 °C	715.52 µS/cm	0.37 mg/L	12.84 NTU	12.5 mV	15.15 ft	200.00 ml/min
5/15/2024 11:12 AM	01:00:00	6.91 pH	19.68 °C	713.72 µS/cm	0.33 mg/L	10.77 NTU	14.3 mV	15.15 ft	200.00 ml/min

5/15/2024 11:17 AM	01:05:00	6.90 pH	19.82 °C	716.90 µS/cm	0.32 mg/L	9.98 NTU	11.8 mV	15.15 ft	200.00 ml/min
5/15/2024 11:22 AM	01:10:00	6.91 pH	19.77 °C	709.96 µS/cm	0.30 mg/L	8.56 NTU	16.1 mV	15.16 ft	200.00 ml/min
5/15/2024 11:27 AM	01:15:00	6.91 pH	20.03 °C	712.22 µS/cm	0.28 mg/L	7.72 NTU	16.1 mV	15.16 ft	200.00 ml/min
5/15/2024 11:32 AM	01:20:00	6.92 pH	20.09 °C	712.26 µS/cm	0.28 mg/L	6.32 NTU	14.0 mV	15.16 ft	200.00 ml/min
5/15/2024 11:37 AM	01:25:00	6.93 pH	19.90 °C	717.20 µS/cm	0.28 mg/L	6.86 NTU	14.2 mV	15.16 ft	200.00 ml/min
5/15/2024 11:42 AM	01:30:00	6.92 pH	20.22 °C	709.75 µS/cm	0.25 mg/L	3.57 NTU	17.3 mV	15.16 ft	200.00 ml/min
5/15/2024 11:47 AM	01:35:00	6.92 pH	20.00 °C	707.36 µS/cm	0.25 mg/L	4.92 NTU	20.1 mV	15.16 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-10	Grab.
HAM-AP1-FD-01	Grab.

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 5/14/2024 2:45:08 PM
Project: Plant Hammond
Operator Name: Jamie Newsome

Location Name: PT-11 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 17 ft** **Total Depth: 27 ft** **Initial Depth to Water: 11.37 ft**	**Pump Type: Peri** **Tubing Type: Poly** **Pump Intake From TOC: 22 ft** **Estimated Total Volume Pumped: 7 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.03 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 966105**

Test Notes:
Full App. III and IV and Major Ions (no RADs).

Weather Conditions:
Light rain, 70F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
5/14/2024 2:45 PM	00:00	7.02 pH	18.01 °C	675.49 µS/cm	0.18 mg/L	4.88 NTU	45.5 mV	11.37 ft	200.00 ml/min
5/14/2024 2:50 PM	05:00	6.98 pH	17.98 °C	675.33 µS/cm	0.12 mg/L	1.54 NTU	35.9 mV	11.37 ft	200.00 ml/min
5/14/2024 2:55 PM	10:00	6.97 pH	17.96 °C	678.01 µS/cm	0.10 mg/L	1.27 NTU	32.2 mV	11.37 ft	200.00 ml/min
5/14/2024 3:00 PM	15:00	6.97 pH	17.85 °C	677.20 µS/cm	0.09 mg/L	1.10 NTU	30.6 mV	11.37 ft	200.00 ml/min
5/14/2024 3:05 PM	20:00	6.97 pH	17.94 °C	676.22 µS/cm	0.08 mg/L	1.02 NTU	29.6 mV	11.40 ft	200.00 ml/min
5/14/2024 3:10 PM	25:00	6.98 pH	18.00 °C	673.82 µS/cm	0.09 mg/L	1.15 NTU	27.1 mV	11.40 ft	200.00 ml/min
5/14/2024 3:15 PM	30:00	6.98 pH	18.11 °C	676.01 µS/cm	0.07 mg/L	1.43 NTU	28.7 mV	11.40 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-11	Grab.

Low-Flow Test Report:

Test Date / Time: 5/14/2024 11:30:05 AM
Project: Plant Hammond
Operator Name: Jamie Newsome

Location Name: PT-12 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 17 ft** **Total Depth: 27 ft** **Initial Depth to Water: 11.25 ft**	**Pump Type: Peri** **Tubing Type: Poly** **Pump Intake From TOC: 22 ft** **Estimated Total Volume Pumped: 5.5 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 100 ml/min** **Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 966105**

Test Notes:
Full App. III and IV and Major Ions (no RADs).

Weather Conditions:
Cloudy, 65F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
5/14/2024 11:30 AM	00:00	6.58 pH	17.76 °C	679.33 µS/cm	0.20 mg/L	6.24 NTU	61.4 mV	11.25 ft	200.00 ml/min
5/14/2024 11:35 AM	05:00	6.57 pH	17.95 °C	689.70 µS/cm	0.21 mg/L	6.40 NTU	49.5 mV	11.25 ft	200.00 ml/min
5/14/2024 11:40 AM	10:00	6.57 pH	18.08 °C	689.22 µS/cm	0.19 mg/L	5.87 NTU	59.3 mV	11.25 ft	200.00 ml/min
5/14/2024 11:45 AM	15:00	6.57 pH	18.30 °C	688.05 µS/cm	0.22 mg/L	4.72 NTU	59.4 mV	11.25 ft	200.00 ml/min
5/14/2024 11:50 AM	20:00	6.57 pH	18.43 °C	688.65 µS/cm	0.22 mg/L	5.20 NTU	59.0 mV	11.25 ft	100.00 ml/min
5/14/2024 11:55 AM	25:00	6.58 pH	18.66 °C	687.32 µS/cm	0.27 mg/L	4.84 NTU	58.7 mV	11.25 ft	100.00 ml/min
5/14/2024 12:00 PM	30:00	6.58 pH	18.81 °C	685.68 µS/cm	0.32 mg/L	4.71 NTU	58.8 mV	11.25 ft	100.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-12	Grab.

Low-Flow Test Report:

Test Date / Time: 5/15/2024 5:25:06 PM
Project: Plant Hammond
Operator Name: Jamie Newsome

Location Name: PT-13 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 35 ft** **Total Depth: 45 ft** **Initial Depth to Water: 24.57 ft**	**Pump Type: Bladder** **Tubing Type: Poly** **Pump Intake From TOC: 40 ft** **Estimated Total Volume Pumped: 8.2 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 100 ml/min** **Final Draw Down: 0.04 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 966105**

Test Notes:
Full App. III and IV and Major Ions (no RADs).
Fe2+ = 2.5 mg/L.

Weather Conditions:
Partly cloudy, 75F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
5/15/2024 5:25 PM	00:00	6.90 pH	19.68 °C	677.73 µS/cm	0.88 mg/L	11.20 NTU	-90.6 mV	24.57 ft	100.00 ml/min
5/15/2024 5:30 PM	05:00	6.93 pH	19.23 °C	680.71 µS/cm	1.02 mg/L	9.34 NTU	-99.0 mV	24.57 ft	100.00 ml/min
5/15/2024 5:35 PM	10:00	6.94 pH	19.10 °C	681.15 µS/cm	1.21 mg/L	7.75 NTU	-97.5 mV	24.57 ft	100.00 ml/min
5/15/2024 5:40 PM	15:00	6.93 pH	19.10 °C	681.34 µS/cm	1.20 mg/L	7.13 NTU	-99.3 mV	24.57 ft	100.00 ml/min
5/15/2024 5:45 PM	20:00	6.93 pH	18.94 °C	681.37 µS/cm	1.35 mg/L	13.62 NTU	-95.9 mV	24.57 ft	100.00 ml/min
5/15/2024 5:50 PM	25:00	6.93 pH	18.83 °C	683.12 µS/cm	1.15 mg/L	12.36 NTU	-96.7 mV	24.57 ft	100.00 ml/min
5/15/2024 5:55 PM	30:00	6.94 pH	18.78 °C	682.89 µS/cm	1.01 mg/L	9.89 NTU	-100.1 mV	24.57 ft	100.00 ml/min
5/15/2024 6:00 PM	35:00	6.94 pH	18.79 °C	682.69 µS/cm	1.10 mg/L	8.97 NTU	-99.3 mV	24.57 ft	100.00 ml/min
5/15/2024 6:05 PM	40:00	6.93 pH	18.97 °C	682.73 µS/cm	1.12 mg/L	8.12 NTU	-99.2 mV	24.57 ft	100.00 ml/min
5/15/2024 6:10 PM	45:00	6.93 pH	19.07 °C	682.16 µS/cm	1.04 mg/L	7.17 NTU	-99.9 mV	24.61 ft	100.00 ml/min
5/15/2024 6:15 PM	50:00	6.93 pH	19.12 °C	681.98 µS/cm	1.08 mg/L	6.67 NTU	-99.6 mV	24.61 ft	100.00 ml/min
5/15/2024 6:20 PM	55:00	6.93 pH	18.91 °C	682.48 µS/cm	1.10 mg/L	6.27 NTU	-96.8 mV	24.61 ft	100.00 ml/min
5/15/2024 6:25 PM	01:00:00	6.93 pH	18.74 °C	682.62 µS/cm	1.29 mg/L	6.95 NTU	-95.4 mV	24.61 ft	100.00 ml/min

5/15/2024 6:30 PM	01:05:00	6.93 pH	18.74 °C	682.98 µS/cm	1.03 mg/L	6.16 NTU	-96.6 mV	24.61 ft	100.00 ml/min
5/15/2024 6:35 PM	01:10:00	6.93 pH	18.65 °C	683.56 µS/cm	0.97 mg/L	5.40 NTU	-99.2 mV	24.61 ft	100.00 ml/min
5/15/2024 6:40 PM	01:15:00	6.93 pH	18.64 °C	683.83 µS/cm	1.10 mg/L	4.82 NTU	-98.3 mV	24.61 ft	100.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-13	Grab.

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 5/15/2024 5:02:23 PM
Project: Plant Hammond
Operator Name: Anthony Szwast

Location Name: PT-14 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 35 ft** **Total Depth: 45 ft** **Initial Depth to Water: 24.48 ft**	**Pump Type: Bladder** **Tubing Type: Poly** **Pump Intake From TOC: 40 ft** **Estimated Total Volume Pumped: 15.4 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.05 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850751**

Test Notes:
Full App. III and IV and Major Ions (no RADs).
Fe2+ = 3.0 mg/L.

Weather Conditions:
Sunny, 70 deg. F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
5/15/2024 5:02 PM	00:00	6.63 pH	21.21 °C	654.87 µS/cm	0.86 mg/L	93.20 NTU	-126.0 mV	24.49 ft	100.00 ml/min
5/15/2024 5:07 PM	05:00	6.71 pH	19.85 °C	665.04 µS/cm	0.48 mg/L	89.10 NTU	-127.2 mV	24.49 ft	100.00 ml/min
5/15/2024 5:12 PM	10:00	6.73 pH	19.06 °C	667.24 µS/cm	0.33 mg/L	69.30 NTU	-126.1 mV	24.51 ft	200.00 ml/min
5/15/2024 5:17 PM	15:00	6.75 pH	19.28 °C	664.55 µS/cm	0.23 mg/L	44.50 NTU	-120.4 mV	24.51 ft	200.00 ml/min
5/15/2024 5:22 PM	20:00	6.75 pH	19.00 °C	667.67 µS/cm	0.18 mg/L	30.90 NTU	-119.3 mV	24.51 ft	200.00 ml/min
5/15/2024 5:27 PM	25:00	6.76 pH	18.88 °C	668.74 µS/cm	0.15 mg/L	20.40 NTU	-118.2 mV	24.52 ft	200.00 ml/min
5/15/2024 5:32 PM	30:00	6.85 pH	19.53 °C	0.72 µS/cm	5.30 mg/L	16.20 NTU	-62.3 mV	24.52 ft	200.00 ml/min
5/15/2024 5:37 PM	35:00	6.74 pH	18.97 °C	670.06 µS/cm	0.30 mg/L	96.20 NTU	-106.1 mV	24.52 ft	200.00 ml/min
5/15/2024 5:42 PM	40:00	6.76 pH	18.88 °C	671.64 µS/cm	0.15 mg/L	57.80 NTU	-109.6 mV	24.52 ft	200.00 ml/min
5/15/2024 5:47 PM	45:00	6.76 pH	18.84 °C	670.94 µS/cm	0.12 mg/L	35.70 NTU	-111.0 mV	24.52 ft	200.00 ml/min
5/15/2024 5:52 PM	50:00	6.77 pH	18.78 °C	671.50 µS/cm	0.10 mg/L	21.40 NTU	-111.7 mV	24.53 ft	200.00 ml/min
5/15/2024 5:57 PM	55:00	6.77 pH	18.72 °C	671.66 µS/cm	0.09 mg/L	18.90 NTU	-111.6 mV	24.51 ft	200.00 ml/min
5/15/2024 6:02 PM	01:00:00	6.77 pH	18.77 °C	671.48 µS/cm	0.08 mg/L	11.90 NTU	-111.5 mV	24.53 ft	200.00 ml/min

5/15/2024 6:07 PM	01:05:00	6.78 pH	18.88 °C	670.46 µS/cm	0.07 mg/L	9.45 NTU	-111.1 mV	24.53 ft	200.00 ml/min
5/15/2024 6:12 PM	01:10:00	6.78 pH	19.10 °C	668.71 µS/cm	0.06 mg/L	7.68 NTU	-110.7 mV	24.53 ft	200.00 ml/min
5/15/2024 6:17 PM	01:15:00	6.78 pH	18.88 °C	671.20 µS/cm	0.06 mg/L	5.68 NTU	-110.1 mV	24.53 ft	200.00 ml/min
5/15/2024 6:22 PM	01:20:00	6.78 pH	18.75 °C	671.71 µS/cm	0.05 mg/L	4.99 NTU	-110.0 mV	24.53 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-14	Grab.

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 5/15/2024 3:35:08 PM
Project: Plant Hammond
Operator Name: Jamie Newsome

Location Name: PT-15 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 35 ft** **Total Depth: 45 ft** **Initial Depth to Water: 24.42 ft**	**Pump Type: Bladder** **Tubing Type: Poly** **Pump Intake From TOC: 40 ft** **Estimated Total Volume Pumped: 4 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 100 ml/min** **Final Draw Down: 0.03 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 966105**

Test Notes:
Full App. III and IV and Major Ions (no RADs).
Fe 2+ = 2.5 mg/L.

Weather Conditions:
Partly cloudy, 75F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 3 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
5/15/2024 3:35 PM	00:00	7.00 pH	19.78 °C	776.12 µS/cm	0.19 mg/L	1.38 NTU	-123.5 mV	24.42 ft	100.00 ml/min
5/15/2024 3:40 PM	05:00	7.00 pH	19.63 °C	779.55 µS/cm	0.18 mg/L	0.69 NTU	-125.7 mV	24.42 ft	100.00 ml/min
5/15/2024 3:45 PM	10:00	6.99 pH	20.21 °C	789.34 µS/cm	0.17 mg/L	0.28 NTU	-125.6 mV	24.42 ft	100.00 ml/min
5/15/2024 3:50 PM	15:00	7.00 pH	20.44 °C	839.74 µS/cm	0.14 mg/L	1.61 NTU	-122.9 mV	24.42 ft	100.00 ml/min
5/15/2024 3:55 PM	20:00	7.01 pH	20.04 °C	849.30 µS/cm	0.12 mg/L	1.83 NTU	-120.1 mV	24.42 ft	100.00 ml/min
5/15/2024 4:00 PM	25:00	7.01 pH	20.21 °C	859.17 µS/cm	0.11 mg/L	0.93 NTU	-118.7 mV	24.45 ft	100.00 ml/min
5/15/2024 4:05 PM	30:00	7.01 pH	20.45 °C	863.09 µS/cm	0.10 mg/L	0.77 NTU	-118.3 mV	24.45 ft	100.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-15	Grab.

Low-Flow Test Report:

Test Date / Time: 5/29/2024 12:44:33 PM
Project: Plant Hammond
Operator Name: Zain Webb

Location Name: AS-01 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 17 ft** **Total Depth: 27 ft** **Initial Depth to Water: 11.38 ft**	**Pump Type: Peristaltic** **Tubing Type: Polyethylene** **Pump Intake From TOC: 22 ft** **Estimated Total Volume Pumped: 14.25 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 150 ml/min** **Final Draw Down: 0.11 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965586**

Test Notes:
Appendix III and IV and Major Ions (no RADs).
Fe2+ = 0 mg/L.
Fe = 0 mg/L.

Weather Conditions:
Sunny, 80 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
5/29/2024 12:44 PM	00:00	7.53 pH	20.88 °C	840.04 µS/cm	2.98 mg/L	2.99 NTU	-77.5 mV	11.38 ft	150.00 ml/min
5/29/2024 12:49 PM	05:00	7.54 pH	19.80 °C	863.27 µS/cm	0.91 mg/L	2.57 NTU	-57.4 mV	11.47 ft	150.00 ml/min
5/29/2024 12:54 PM	10:00	7.52 pH	19.85 °C	854.17 µS/cm	1.57 mg/L	2.12 NTU	-59.5 mV	11.48 ft	150.00 ml/min
5/29/2024 12:59 PM	15:00	7.49 pH	19.76 °C	865.61 µS/cm	1.23 mg/L	1.73 NTU	-83.2 mV	11.49 ft	150.00 ml/min
5/29/2024 1:04 PM	20:00	7.46 pH	19.86 °C	872.27 µS/cm	1.14 mg/L	1.07 NTU	-49.7 mV	11.49 ft	150.00 ml/min
5/29/2024 1:09 PM	25:00	7.45 pH	19.91 °C	872.76 µS/cm	2.09 mg/L	0.99 NTU	-76.1 mV	11.49 ft	150.00 ml/min
5/29/2024 1:14 PM	30:00	7.42 pH	19.99 °C	870.17 µS/cm	0.44 mg/L	0.76 NTU	-44.0 mV	11.49 ft	150.00 ml/min
5/29/2024 1:19 PM	35:00	7.41 pH	20.03 °C	884.25 µS/cm	0.47 mg/L	0.40 NTU	-44.2 mV	11.49 ft	150.00 ml/min
5/29/2024 1:24 PM	40:00	7.40 pH	19.96 °C	866.45 µS/cm	2.21 mg/L	0.43 NTU	-41.6 mV	11.49 ft	150.00 ml/min
5/29/2024 1:29 PM	45:00	7.40 pH	20.01 °C	880.70 µS/cm	0.57 mg/L	0.50 NTU	-39.8 mV	11.49 ft	150.00 ml/min
5/29/2024 1:34 PM	50:00	7.38 pH	20.13 °C	875.48 µS/cm	1.63 mg/L	0.87 NTU	-37.9 mV	11.49 ft	150.00 ml/min
5/29/2024 1:39 PM	55:00	7.37 pH	20.21 °C	865.85 µS/cm	0.38 mg/L	0.44 NTU	-35.9 mV	11.49 ft	150.00 ml/min
5/29/2024 1:44 PM	01:00:00	7.37 pH	19.90 °C	868.81 µS/cm	0.48 mg/L	0.48 NTU	-33.5 mV	11.49 ft	150.00 ml/min

5/29/2024 1:47 PM	01:02:29	7.37 pH	20.03 °C	818.62 µS/cm	0.50 mg/L	0.48 NTU	-32.7 mV	11.49 ft	150.00 ml/min
5/29/2024 1:52 PM	01:07:29	7.36 pH	20.03 °C	875.39 µS/cm	0.53 mg/L	0.17 NTU	-30.6 mV	11.49 ft	150.00 ml/min
5/29/2024 1:54 PM	01:10:21	7.35 pH	20.21 °C	795.78 µS/cm	0.49 mg/L	0.28 NTU	-29.2 mV	11.49 ft	150.00 ml/min
5/29/2024 1:59 PM	01:15:21	7.35 pH	20.22 °C	833.20 µS/cm	0.54 mg/L	0.30 NTU	-29.8 mV	11.49 ft	150.00 ml/min
5/29/2024 2:04 PM	01:20:21	7.35 pH	20.11 °C	848.09 µS/cm	0.68 mg/L	0.11 NTU	-28.7 mV	11.49 ft	150.00 ml/min
5/29/2024 2:09 PM	01:25:21	7.36 pH	20.17 °C	864.90 µS/cm	0.61 mg/L	0.56 NTU	-26.7 mV	11.49 ft	150.00 ml/min

Samples

Sample ID:	Description:
HAM-AS-01	Grab.

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 5/30/2024 9:07:43 AM
Project: Plant Hammond
Operator Name: Zain Webb

Location Name: PT-09 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 20.47 ft** **Total Depth: 30.47 ft** **Initial Depth to Water: 14.94 ft**	**Pump Type: Peristaltic** **Tubing Type: Polyethylene** **Pump Intake From TOC: 25.47 ft** **Estimated Total Volume Pumped: 24.75 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 150 ml/min** **Final Draw Down: 0.01 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965586**

Test Notes:
Appendix III and IV, Major Ions, and Treatability Study Sample (no RADs).
Fe2+ = 0 mg/L.
Fe = 0 mg/L.

Weather Conditions:
Sunny, 75 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
5/30/2024 9:07 AM	00:00	6.83 pH	18.39 °C	688.12 µS/cm	0.22 mg/L	++++	47.0 mV	14.94 ft	150.00 ml/min
5/30/2024 9:12 AM	05:00	6.84 pH	18.47 °C	760.88 µS/cm	0.14 mg/L	++++	66.3 mV	14.95 ft	150.00 ml/min
5/30/2024 9:17 AM	10:00	6.86 pH	18.61 °C	742.55 µS/cm	0.12 mg/L	++++	60.1 mV	14.95 ft	150.00 ml/min
5/30/2024 9:22 AM	15:00	6.87 pH	18.72 °C	747.90 µS/cm	0.10 mg/L	++++	76.1 mV	14.95 ft	150.00 ml/min
5/30/2024 9:27 AM	20:00	6.88 pH	18.78 °C	730.72 µS/cm	0.09 mg/L	++++	65.2 mV	14.95 ft	150.00 ml/min
5/30/2024 9:32 AM	25:00	6.89 pH	18.88 °C	735.76 µS/cm	0.09 mg/L	++++	82.7 mV	14.95 ft	150.00 ml/min
5/30/2024 9:37 AM	30:00	6.91 pH	18.99 °C	727.93 µS/cm	0.08 mg/L	++++	70.3 mV	14.95 ft	150.00 ml/min
5/30/2024 9:42 AM	35:00	6.91 pH	19.14 °C	729.82 µS/cm	0.07 mg/L	++++	91.2 mV	14.95 ft	150.00 ml/min
5/30/2024 9:47 AM	40:00	6.91 pH	19.23 °C	716.96 µS/cm	0.07 mg/L	99.40 NTU	77.0 mV	14.95 ft	150.00 ml/min
5/30/2024 9:52 AM	45:00	6.92 pH	19.19 °C	722.21 µS/cm	0.07 mg/L	82.60 NTU	99.4 mV	14.95 ft	150.00 ml/min
5/30/2024 9:57 AM	50:00	6.92 pH	19.23 °C	723.97 µS/cm	0.07 mg/L	80.60 NTU	80.6 mV	14.95 ft	150.00 ml/min
5/30/2024 10:02 AM	55:00	6.93 pH	19.25 °C	723.61 µS/cm	0.07 mg/L	68.90 NTU	102.3 mV	14.95 ft	150.00 ml/min
5/30/2024 10:07 AM	01:00:00	6.94 pH	19.44 °C	719.47 µS/cm	0.08 mg/L	66.00 NTU	82.5 mV	14.95 ft	150.00 ml/min

5/30/2024 10:12 AM	01:05:00	6.95 pH	19.41 °C	717.41 µS/cm	0.08 mg/L	54.90 NTU	105.8 mV	14.95 ft	150.00 ml/min
5/30/2024 10:17 AM	01:10:00	6.97 pH	19.41 °C	712.56 µS/cm	0.08 mg/L	43.60 NTU	83.8 mV	14.95 ft	150.00 ml/min
5/30/2024 10:22 AM	01:15:00	6.97 pH	19.35 °C	716.02 µS/cm	0.07 mg/L	37.50 NTU	79.8 mV	14.95 ft	150.00 ml/min
5/30/2024 10:27 AM	01:20:00	6.99 pH	19.41 °C	715.33 µS/cm	0.07 mg/L	31.30 NTU	103.2 mV	14.95 ft	150.00 ml/min
5/30/2024 10:32 AM	01:25:00	6.97 pH	19.46 °C	712.25 µS/cm	0.07 mg/L	28.20 NTU	82.3 mV	14.95 ft	150.00 ml/min
5/30/2024 10:37 AM	01:30:00	6.97 pH	19.39 °C	718.79 µS/cm	0.07 mg/L	25.50 NTU	102.1 mV	14.95 ft	150.00 ml/min
5/30/2024 10:42 AM	01:35:00	6.99 pH	19.45 °C	715.90 µS/cm	0.06 mg/L	22.50 NTU	105.8 mV	14.95 ft	150.00 ml/min
5/30/2024 10:47 AM	01:40:00	6.98 pH	19.46 °C	711.90 µS/cm	0.06 mg/L	20.60 NTU	80.9 mV	14.95 ft	150.00 ml/min
5/30/2024 10:52 AM	01:45:00	7.00 pH	19.44 °C	712.95 µS/cm	0.06 mg/L	19.30 NTU	101.1 mV	14.95 ft	150.00 ml/min
5/30/2024 10:57 AM	01:50:00	7.02 pH	19.46 °C	707.88 µS/cm	0.06 mg/L	16.70 NTU	79.5 mV	14.95 ft	150.00 ml/min
5/30/2024 11:02 AM	01:55:00	7.02 pH	19.35 °C	713.67 µS/cm	0.06 mg/L	13.40 NTU	76.7 mV	14.95 ft	150.00 ml/min
5/30/2024 11:07 AM	02:00:00	7.04 pH	19.45 °C	712.10 µS/cm	0.06 mg/L	12.90 NTU	100.6 mV	14.95 ft	150.00 ml/min
5/30/2024 11:12 AM	02:05:00	7.04 pH	19.43 °C	705.54 µS/cm	0.05 mg/L	10.33 NTU	81.4 mV	14.95 ft	150.00 ml/min
5/30/2024 11:17 AM	02:10:00	7.05 pH	19.48 °C	708.45 µS/cm	0.05 mg/L	9.76 NTU	78.9 mV	14.95 ft	150.00 ml/min
5/30/2024 11:22 AM	02:15:00	7.04 pH	19.50 °C	711.64 µS/cm	0.05 mg/L	7.94 NTU	102.9 mV	14.95 ft	150.00 ml/min
5/30/2024 11:27 AM	02:20:00	7.06 pH	19.50 °C	705.54 µS/cm	0.05 mg/L	6.92 NTU	81.5 mV	14.95 ft	150.00 ml/min
5/30/2024 11:32 AM	02:25:00	7.07 pH	19.47 °C	706.63 µS/cm	0.05 mg/L	6.48 NTU	103.6 mV	14.95 ft	150.00 ml/min
5/30/2024 11:37 AM	02:30:00	7.05 pH	19.49 °C	702.56 µS/cm	0.05 mg/L	6.24 NTU	82.7 mV	14.95 ft	150.00 ml/min
5/30/2024 11:42 AM	02:35:00	7.05 pH	19.58 °C	707.31 µS/cm	0.05 mg/L	5.41 NTU	106.4 mV	14.95 ft	150.00 ml/min
5/30/2024 11:47 AM	02:40:00	7.06 pH	19.69 °C	703.83 µS/cm	0.05 mg/L	4.71 NTU	83.4 mV	14.95 ft	150.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-09	Grab.
HAM-AP1-FD-01	Grab.
HAM-PT-09-TS-WG-05302024	Grab.

Low-Flow Test Report:

Test Date / Time: 5/30/2024 2:05:29 PM
Project: Plant Hammond
Operator Name: Zain Webb

Location Name: PT-10 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 20.45 ft** **Total Depth: 30.45 ft** **Initial Depth to Water: 14.98 ft**	**Pump Type: Peristaltic** **Tubing Type: Polyethylene** **Pump Intake From TOC: 25.45 ft** **Estimated Total Volume Pumped: 5.25 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 150 ml/min** **Final Draw Down: 0.1 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965586**

Test Notes:
Appendix III and IV, Major Ions, and Treatability Study Sample (no RADs).
Fe2+ = 0 mg/L.
Fe = 0 mg/L.

Weather Conditions:
Sunny, 80 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
5/30/2024 2:05 PM	00:00	6.75 pH	20.31 °C	641.23 µS/cm	0.51 mg/L	16.10 NTU	33.4 mV	14.98 ft	150.00 ml/min
5/30/2024 2:10 PM	05:00	6.87 pH	20.03 °C	691.81 µS/cm	0.51 mg/L	8.38 NTU	15.2 mV	15.08 ft	150.00 ml/min
5/30/2024 2:15 PM	10:00	6.96 pH	20.24 °C	710.77 µS/cm	0.53 mg/L	6.54 NTU	21.4 mV	15.08 ft	150.00 ml/min
5/30/2024 2:20 PM	15:00	6.86 pH	20.12 °C	701.76 µS/cm	0.46 mg/L	4.46 NTU	30.0 mV	15.08 ft	150.00 ml/min
5/30/2024 2:25 PM	20:00	6.85 pH	20.21 °C	695.18 µS/cm	0.43 mg/L	3.92 NTU	34.9 mV	15.08 ft	150.00 ml/min
5/30/2024 2:30 PM	25:00	6.83 pH	20.17 °C	672.75 µS/cm	0.46 mg/L	3.28 NTU	40.0 mV	15.08 ft	150.00 ml/min
5/30/2024 2:35 PM	30:00	6.81 pH	20.16 °C	664.75 µS/cm	0.43 mg/L	3.01 NTU	52.5 mV	15.08 ft	150.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-10	Grab.
HAM-PT-10-TS-WG-05302024	Grab.

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 5/29/2024 3:32:11 PM
Project: Plant Hammond
Operator Name: Zain Webb

Location Name: PT-11 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 17 ft** **Total Depth: 27 ft** **Initial Depth to Water: 11.3 ft**	**Pump Type: Peristaltic** **Tubing Type: Polyethylene** **Pump Intake From TOC: 22 ft** **Estimated Total Volume Pumped: 10.65 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 150 ml/min** **Final Draw Down: 0.04 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965586**

Test Notes:
Appendix III and IV and Major Ions (no RADs).
Fe2+ = 0 mg/L.
Fe = 0 mg/L.

Weather Conditions:
Sunny, 80 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
5/29/2024 3:32 PM	00:00	7.18 pH	25.73 °C	609.75 µS/cm	0.72 mg/L	21.20 NTU	76.3 mV	11.30 ft	150.00 ml/min
5/29/2024 3:37 PM	05:00	6.96 pH	19.68 °C	728.70 µS/cm	0.41 mg/L	20.60 NTU	100.5 mV	11.32 ft	150.00 ml/min
5/29/2024 3:42 PM	10:00	6.94 pH	19.36 °C	726.23 µS/cm	0.40 mg/L	18.10 NTU	143.3 mV	11.33 ft	150.00 ml/min
5/29/2024 3:47 PM	15:00	6.97 pH	19.48 °C	727.51 µS/cm	0.37 mg/L	13.60 NTU	160.6 mV	11.33 ft	150.00 ml/min
5/29/2024 3:52 PM	20:00	6.97 pH	19.52 °C	726.39 µS/cm	0.36 mg/L	10.41 NTU	172.6 mV	11.34 ft	150.00 ml/min
5/29/2024 3:57 PM	25:00	6.98 pH	19.47 °C	706.81 µS/cm	0.44 mg/L	9.50 NTU	181.0 mV	11.34 ft	150.00 ml/min
5/29/2024 4:02 PM	30:00	6.99 pH	19.62 °C	722.22 µS/cm	0.39 mg/L	9.07 NTU	142.9 mV	11.34 ft	150.00 ml/min
5/29/2024 4:07 PM	35:00	7.00 pH	19.52 °C	713.02 µS/cm	0.39 mg/L	8.97 NTU	138.6 mV	11.34 ft	150.00 ml/min
5/29/2024 4:12 PM	40:00	6.99 pH	19.45 °C	642.62 µS/cm	0.38 mg/L	9.32 NTU	137.8 mV	11.34 ft	150.00 ml/min
5/29/2024 4:17 PM	45:00	7.00 pH	19.27 °C	724.99 µS/cm	0.39 mg/L	8.07 NTU	135.3 mV	11.34 ft	150.00 ml/min
5/29/2024 4:22 PM	50:00	7.00 pH	19.37 °C	693.70 µS/cm	0.42 mg/L	---	129.9 mV	11.34 ft	150.00 ml/min
5/29/2024 4:22 PM	50:48	7.01 pH	19.31 °C	640.95 µS/cm	0.40 mg/L	6.80 NTU	112.9 mV	11.34 ft	150.00 ml/min
5/29/2024 4:27 PM	55:48	7.01 pH	19.41 °C	713.33 µS/cm	0.49 mg/L	5.95 NTU	122.6 mV	11.34 ft	150.00 ml/min

5/29/2024 4:32 PM	01:00:48	7.00 pH	19.23 °C	707.15 µS/cm	0.43 mg/L	4.70 NTU	158.4 mV	11.34 ft	150.00 ml/min
5/29/2024 4:37 PM	01:05:48	7.00 pH	19.15 °C	708.73 µS/cm	0.42 mg/L	3.84 NTU	161.9 mV	11.34 ft	150.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-11	Grab.

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 5/29/2024 10:52:59 AM
Project: Plant Hammond
Operator Name: Zain Webb

Location Name: PT-12 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 17 ft** **Total Depth: 27 ft** **Initial Depth to Water: 11.14 ft**	**Pump Type: Peristaltic** **Tubing Type: Polyethylene** **Pump Intake From TOC: 22 ft** **Estimated Total Volume Pumped: 10.5 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 150 ml/min** **Final Draw Down: 0.03 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965586**

Test Notes:
Appendix III and IV and Major Ions (No RADs).
Fe2+ = 0 mg/L.
Fe = 0 mg/L.

Weather Conditions:
Sunny, 75 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
5/29/2024 10:52 AM	00:00	6.61 pH	19.85 °C	675.59 µS/cm	0.52 mg/L	12.30 NTU	75.5 mV	11.14 ft	150.00 ml/min
5/29/2024 10:57 AM	05:00	6.64 pH	19.25 °C	659.00 µS/cm	0.45 mg/L	8.33 NTU	81.4 mV	11.16 ft	150.00 ml/min
5/29/2024 11:02 AM	10:00	6.66 pH	19.32 °C	687.80 µS/cm	0.55 mg/L	9.76 NTU	102.1 mV	11.16 ft	150.00 ml/min
5/29/2024 11:07 AM	15:00	6.67 pH	19.27 °C	683.39 µS/cm	1.16 mg/L	8.75 NTU	86.7 mV	11.16 ft	150.00 ml/min
5/29/2024 11:12 AM	20:00	6.69 pH	19.31 °C	683.56 µS/cm	0.83 mg/L	5.99 NTU	87.0 mV	11.17 ft	150.00 ml/min
5/29/2024 11:17 AM	25:00	6.71 pH	19.40 °C	678.81 µS/cm	0.26 mg/L	4.57 NTU	85.5 mV	11.17 ft	150.00 ml/min
5/29/2024 11:22 AM	30:00	6.71 pH	19.44 °C	678.62 µS/cm	1.58 mg/L	4.49 NTU	85.5 mV	11.17 ft	150.00 ml/min
5/29/2024 11:27 AM	35:00	6.76 pH	19.38 °C	673.69 µS/cm	0.52 mg/L	2.84 NTU	84.0 mV	11.17 ft	150.00 ml/min
5/29/2024 11:32 AM	40:00	6.76 pH	19.44 °C	669.07 µS/cm	0.29 mg/L	2.40 NTU	85.5 mV	11.17 ft	150.00 ml/min
5/29/2024 11:37 AM	45:00	6.76 pH	19.32 °C	676.74 µS/cm	0.79 mg/L	1.56 NTU	82.6 mV	11.17 ft	150.00 ml/min
5/29/2024 11:42 AM	50:00	6.79 pH	19.38 °C	676.53 µS/cm	1.37 mg/L	1.35 NTU	81.5 mV	11.17 ft	150.00 ml/min
5/29/2024 11:47 AM	55:00	6.81 pH	19.38 °C	673.08 µS/cm	0.88 mg/L	1.26 NTU	102.2 mV	11.17 ft	150.00 ml/min
5/29/2024 11:52 AM	01:00:00	6.81 pH	19.32 °C	669.80 µS/cm	0.80 mg/L	1.28 NTU	84.9 mV	11.17 ft	150.00 ml/min

5/29/2024 11:57 AM	01:05:00	6.82 pH	19.36 °C	678.21 µS/cm	0.71 mg/L	0.73 NTU	81.4 mV	11.17 ft	150.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-12	Grab.

Created using VuSitu from In-Situ, Inc.

Calibration Forms

Geosyntec consultants

EQUIPMENT CALIBRATION LOG

Field Technician: Mana Neely

Date: 7/13/23

Time (start): 0850 Time (finish): 0910

smarTroll SN: 884187

Turbidity Meter Type: LaMote 2020we

SN: 7009-1416

Weather Conditions: 73-91, sunny

Facility and Unit: Plant Hammond

Project No.: GW6581

Calibration log

	Standard Lot # / Date of Expiration	Temp of Standard (°C)	Value of Standard	Initial Reading	Post-Cal Reading	Acceptable Range	Pass?	Comments
Specific Conductance (µS/cm)	222501 53 11/23	25.72	4490	4122.4	4487.6	+/- 5 %	(Yes) No	
pH (4)			4.00	4.02	4.00	+/- 0.1 SU	(Yes) No	
Mid-Day pH (4) check	–	–	4.00	–	–	+/- 0.1 SU	Yes No	
pH (7)	22168893 11/23	25.7	7.00	7.35	7.00	+/- 0.1 SU	(Yes) No	
Mid-Day pH (7) check	–	–	7.00	–	–	+/- 0.1 SU	Yes No	
pH (10)	21320202 12/23	25.5	10.00	10.3	10.0	+/- 0.1 SU	(Yes) No	
Mid-Day pH (10) check	–	–	10.00	–	–	+/- 0.1 SU	Yes No	
ORP (mV)	21390144 11/23	24.72	228	215.4	227.7	+/- 20mV	(Yes) No	
DO (%) (1pt, 100% water saturated air cal)	[redacted]		100	101.11%	100.00%	+/- 6 % saturation	(Yes) No	
Turbidity 0 NTU			0	0.20	0.06	+/- 0.5 NTU	(Yes) No	
Turbidity 1 NTU			1.00	0.71	0.81	+/- 0.5 NTU	(Yes) No	
Turbidity 10 NTU			10.00	11.36	9.99	+/- 0.5 NTU	(Yes) No	

Geosyntec consultants

EQUIPMENT CALIBRATION LOG

Field Technician: Alana Neely | Date: 7/14/23 | Time (start): 0730 | Time (finish): 0745

smarTroll SN: 884187 | Turbidity Meter Type: LaMote 2020we | SN: 7009-1416

Weather Conditions: 73-93°, Cloudy | Facility and Unit: plant Hammond | Project No.: GW6581

Calibration log

	Standard Lot # / Date of Expiration	Temp of Standard (°C)	Value of Standard	Initial Reading	Post-Cal Reading	Acceptable Range	Pass?	Comments
Specific Conductance (µS/cm)	22250153 11/23	27.25	4490	4508.8	4486.0	+/- 5 %	(Yes) No	
pH (4)			4.00	4.03	4.00	+/- 0.1 SU	(Yes) No	
Mid-Day pH (4) check	-	-	4.00	-	-	+/- 0.1 SU	Yes No	
pH (7)	22168933 11/23	27.01	7.00	7.36	6.99	+/- 0.1 SU	(Yes) No	
Mid-Day pH (7) check	-	-	7.00	-	-	+/- 0.1 SU	Yes No	
pH (10)	21320202 12/23	26.31	10.00	9.73	10.00	+/- 0.1 SU	(Yes) No	
Mid-Day pH (10) check	-	-	10.00	-	-	+/- 0.1 SU	Yes No	
ORP (mV)	21390144 11/23	25.73	228	222.6	228.1	+/- 20mV	(Yes) No	
DO (%) (1pt, 100% water saturated air cal)	[redacted]		100	98.43%	100.54%	+/- 6 % saturation	(Yes) No	
Turbidity 0 NTU			0	0.21	0.01	+/- 0.5 NTU	(Yes) No	
Turbidity 1 NTU			1.00	0.55	0.70	+/- 0.5 NTU	(Yes) No	
Turbidity 10 NTU			10.00	11.53	10.01	+/- 0.5 NTU	(Yes) No	

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EQUIPMENT CALIBRATION LOG

Field Technician: Alana Kelly | Date: 7/17/23 | Time (start): 0855 | Time (finish): 0915

smarTroll SN: 884187 | Turbidity Meter Type: LaMote 2020we | SN: 7009-1416

Weather Conditions: 66-93°, sunny | Facility and Unit: Plant Hammond | Project No.: GW6581

Calibration log

	Standard Lot # / Date of Expiration	Temp of Standard (°C)	Value of Standard	Initial Reading	Post-Cal Reading	Acceptable Range	Pass?	Comments
Specific Conductance (µS/cm)	22250153 11123	25.52	4490	4440.8	4492.1	+/- 5 %	(Yes) No	
pH (4)			4.00	4.05	4.00	+/- 0.1 SU	(Yes) No	
Mid-Day pH (4) check	–	–	4.00	–	–	+/- 0.1 SU	Yes No	
pH (7)	22160893 11123	25.45	7.00	7.32	7.00	+/- 0.1 SU	(Yes) No	
Mid-Day pH (7) check	–	–	7.00	–	–	+/- 0.1 SU	Yes No	
pH (10)	21320W2 12123	24.03	10.00	9.03	10.00	+/- 0.1 SU	(Yes) No	
Mid-Day pH (10) check	–	–	10.00	–	–	+/- 0.1 SU	Yes No	
ORP (mV)	2139.0144 11123	23.02	228	227.0	228.0	+/- 20mV	(Yes) No	
DO (%) (1pt, 100% water saturated air cal)	[redacted]		100	100.42	100.25	+/- 6 % saturation	(Yes) No	
Turbidity 0 NTU	[redacted]		0	0.14	0.01	+/- 0.5 NTU	(Yes) No	
Turbidity 1 NTU	[redacted]		1.00	0.70	0.95	+/- 0.5 NTU	(Yes) No	
Turbidity 10 NTU	[redacted]		10.00	11.51	10.01	+/- 0.5 NTU	(Yes) No	

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EQUIPMENT CALIBRATION LOG

Field Technician: Mana Neely

Date: 7/18/23

Time (start): 0755

Time (finish): 0810

smarTroll SN: 884187

Turbidity Meter Type: LaMote 2020we

SN: 7009-1416

Weather Conditions: 67-93° sunny

Facility and Unit: Plant Hammond

Project No.: GW6581

Calibration log

	Standard Lot # / Date of Expiration	Temp of Standard (°C)	Value of Standard	Initial Reading	Post-Cal Reading	Acceptable Range	Pass?	Comments
Specific Conductance (µS/cm)	22250153 11/23	23.95	4490	4490.7	4490.8	+/- 5 %	(Yes) No	
pH (4)			4.00	4.04	4.00	+/- 0.1 SU	(Yes) No	
Mid-Day pH (4) check	–	–	4.00	–	–	+/- 0.1 SU	Yes No	
pH (7)	22168931 11/23	23.68	7.00	7.35	7.00	+/- 0.1 SU	(Yes) No	
Mid-Day pH (7) check	–	–	7.00	–	–	+/- 0.1 SU	Yes No	
pH (10)	21320202 12/23	23.28	10.00	9.68	10.00	+/- 0.1 SU	(Yes) No	
Mid-Day pH (10) check	–	–	10.00	–	–	+/- 0.1 SU	Yes No	
ORP (mV)	21390144 11/23	22.72	228	226.3	228.1	+/- 20mV	(Yes) No	
DO (%) (1pt, 100% water saturated air cal)			100	100.00%	100.00%	+/- 6 % saturation	(Yes) No	
Turbidity 0 NTU			0	0.22	0.06	+/- 0.5 NTU	(Yes) No	
Turbidity 1 NTU			1.00	0.60	0.96	+/- 0.5 NTU	(Yes) No	
Turbidity 10 NTU			10.00	11.38	9.96	+/- 0.5 NTU	(Yes) No	

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EQUIPMENT CALIBRATION LOG

Field Technician: Mana Nelly

Date: 7/19/23

Time (start): 0745

Time (finish): 0800

smarTroll SN: 884187

Turbidity Meter Type: LaMote 2020we

SN: 7009-1416

Weather Conditions: 68-93° cloudy

Facility and Unit: Plant Hammond

Project No.: GW6581

Calibration log

	Standard Lot # / Date of Expiration	Temp of Standard (°C)	Value of Standard	Initial Reading	Post-Cal Reading	Acceptable Range	Pass?	Comments
Specific Conductance (µS/cm)	22250153 11/23	24.77	4490	4479.0	4485.6	+/- 5 %	(Yes) No	
pH (4)			4.00	4.03	3.99	+/- 0.1 SU	(Yes) No	
Mid-Day pH (4) check	–	–	4.00	–	–	+/- 0.1 SU	Yes No	
pH (7)	22168933 11/23	24.65	7.00	7.38	7.00	+/- 0.1 SU	(Yes) No	
Mid-Day pH (7) check	–	–	7.00	–	–	+/- 0.1 SU	Yes No	
pH (10)	21320202 12/23	24.27	10.00	9.64	10.00	+/- 0.1 SU	(Yes) No	
Mid-Day pH (10) check	–	–	10.00	–	–	+/- 0.1 SU	Yes No	
ORP (mV)	21390144 11/23	23.89	228	222.5	228.1	+/- 20mV	(Yes) No	
DO (%) (1pt, 100% water saturated air cal)	[redacted]		100	98%	100.01%	+/- 6 % saturation	(Yes) No	
Turbidity 0 NTU			0	0.44	0.00	+/- 0.5 NTU	(Yes) No	
Turbidity 1 NTU			1.00	0.69	0.94	+/- 0.5 NTU	(Yes) No	
Turbidity 10 NTU			10.00	11.08	9.99	+/- 0.5 NTU	(Yes) No	

Geosyntec consultants

EQUIPMENT CALIBRATION LOG

Field Technician: C-CAIN | Date: 8/9/23 | Time (start): 0815 | Time (finish): 0845

smarTroll SN: 883553 | Turbidity Meter Type: LaMotte 2020 | SN: 4121-7623

Weather Conditions: fog 68 | Facility and Unit: Plant Hammond | Project No.: GW6581

Calibration log

	Standard Lot # / Date of Expiration	Temp of Standard (°C)	Value of Standard	Initial Reading	Post-Cal Reading	Acceptable Range	Pass?	Comments
Specific Conductance (µS/cm)	22250153 11/23	22.78	~~4573.8~~ 4490 8/9/23	4573.5	4490	+/- 5 %	(Yes) No	
pH (4)			4.0	4.07	4.0	+/- 0.1 SU	Yes No	
Mid-Day pH (4) check	// //		4.0	4.02		+/- 0.1 SU	Yes No	
pH (7)	22C8993 11/23	23.43	7.0	7.05	7.0	+/- 0.1 SU	(Yes) No	
Mid-Day pH (7) check	// //		7.0	7.0		+/- 0.1 SU	Yes No	
pH (10)	22110130 8/23	23.75	10.0	10.05	10	+/- 0.1 SU	Yes No	
Mid-Day pH (10) check	// //		10.0	10.03		+/- 0.1 SU	Yes No	
ORP (mV)	21390144 11/23	23.81	228	227.1	228	+/- 20mV	Yes No	
DO (%) (1pt, 100% water saturated air cal)			100	95.23	100	+/- 6 % saturation	(Yes) No	
Turbidity 0 NTU			0	0.00	0.00	+/- 0.5 NTU	(Yes) No	
Turbidity 1 NTU			1	1.43	1.13	+/- 0.5 NTU	(Yes) No	
Turbidity 10 NTU			10	10.75	10	+/- 0.5 NTU	(Yes) No	

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EQUIPMENT CALIBRATION LOG

Field Technician: A. Szwast | Date: 8/9/2023 | Time (start): 1145 | Time (finish): 1205

smarTroll SN: 883530 | Turbidity Meter Type: LaMotte 2020t | SN: 4139-2623

Weather Conditions: Partly cloudy, 73°F | Facility and Unit: Plant Hammond | Project No.: GW6581

Calibration log

	Standard Lot # / Date of Expiration	Temp of Standard (°C)	Value of Standard	Initial Reading	Post-Cal Reading	Acceptable Range	Pass?	Comments
Specific Conductance (µS/cm)	22250153 11/2023	24.50	4,490	4250.9	4490.0	+/- 5 %	(Yes) No	
pH (4)			4.00	4.45	4.00	+/- 0.1 SU	(Yes) No	
Mid-Day pH (4) check						+/- 0.1 SU	Yes No	
pH (7)	2216893 11/2023	24.85	7.00	7.32	7.00	+/- 0.1 SU	(Yes) No	
Mid-Day pH (7) check						+/- 0.1 SU	Yes No	
pH (10)	21320202 12/2023	25.05	10.00	10.54	10.00	+/- 0.1 SU	(Yes) No	
Mid-Day pH (10) check						+/- 0.1 SU	Yes No	
ORP (mV)	21390144 11/2023	25.06	228.0	225.9	228.0	+/- 20mV	(Yes) No	
DO (%) (1pt, 100% water saturated air cal)	[redacted]	[redacted]	~~101.24~~ 100.00 8-9-2023	101.24	100.0	+/- 6 % saturation	(Yes) No	
Turbidity 0 NTU	[redacted]	[redacted]	0.00	0.00	—	+/- 0.5 NTU	(Yes) No	
Turbidity 1 NTU	[redacted]	[redacted]	1.00	1.08	—	+/- 0.5 NTU	(Yes) No	
Turbidity 10 NTU	[redacted]	[redacted]	10.00	10.7	9.89	+/- 0.5 NTU	(Yes) No	

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EQUIPMENT CALIBRATION LOG

Field Technician: Elisabeth McDonnell | Date: 8/9/23 | Time (start): 830 | Time (finish): 850

smarTroll SN: 989630 | Turbidity Meter Type: La Motte 2020t | SN: 4109-2623

Weather Conditions: 70, cloudy | Facility and Unit: Plant Hammond | Project No.: GW6581

Calibration log

	Standard Lot # / Date of Expiration	Temp of Standard (°C)	Value of Standard	Initial Reading	Post-Cal Reading	Acceptable Range	Pass?	Comments
Specific Conductance (µS/cm)	22250153 11/23	23.18				+/- 5 %	Yes No	
pH (4)	↓		4.00	3.94	4.00	+/- 0.1 SU	(Yes) No	
Mid-Day pH (4) check						+/- 0.1 SU	Yes No	
pH (7)	2216893 11/23	23.48	7.0	6.85	7.0	+/- 0.1 SU	(Yes) No	
Mid-Day pH (7) check	↓					+/- 0.1 SU	Yes No	
pH (10)	21320202 12/23	23.70	10.0	10.6	10.0	+/- 0.1 SU	(Yes) No	
Mid-Day pH (10) check	↓					+/- 0.1 SU	Yes No	
ORP (mV)	21390149 11/23	23.85	228	230.90	228	+/- 20mV	(Yes) No	
DO (%) (1pt, 100% water saturated air cal)			100 %	102.36 %	100 %	+/- 6 % saturation	(Yes) No	
Turbidity 0 NTU			0.0	0.0	0.0	+/- 0.5 NTU	(Yes) No	
Turbidity 1 NTU			1.0	1.0	1.0	+/- 0.5 NTU	(Yes) No	
Turbidity 10 NTU			10.0	11.1	10.4	+/- 0.5 NTU	(Yes) No	

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EQUIPMENT CALIBRATION LOG

Field Technician: Thomas Hessler | Date: 8/9/23 | Time (start): 0800 | Time (finish): 0825

smarTroll SN: 650729 | Turbidity Meter Type: LaMotte 2020we | SN: 1475-21011

Weather Conditions: Sergeant 75° | Facility and Unit: Plant Hammond | Project No: 610585

Calibration log

	Standard Lot # / Date of Expiration	Temp of Standard (°C)	Value of Standard	Initial Reading	Post-Cal Reading	Acceptable Range	Pass?	Comments
Specific Conductance (µS/cm)	22250853 11/23	21.91	4490	4562	4490	+/- 5 %	Yes / No	
pH (4)			4	4.04	4.0	+/- 0.1 SU	Yes / No	
Mid-Day pH (4) check	↓	22	4	4.03	—	+/- 0.1 SU	Yes / No	
pH (7)	22K6873 11/23	22.77	~~7.06~~ 7.00	7.05	7.00	+/- 0.1 SU	Yes / No	
Mid-Day pH (7) check	↓	22	7	6.98	—	+/- 0.1 SU	Yes / No	
pH (10)	21320202 12/23	22.62	10.00	10.01	10.0	+/- 0.1 SU	Yes / No	
Mid-Day pH (10) check	↓	22	10	9.91	—	+/- 0.1 SU	Yes / No	
ORP (mV)	22760085 8/23		278	277.7	278	+/- 20mV	Yes / No	
DO (%) (1pt, 100% water saturated air cal)	[redacted]		100	99.08	100	+/- 6 % saturation	Yes / No	
Turbidity 0 NTU	[redacted]		0	.53	0	+/- 0.5 NTU	Yes / No	
Turbidity 1 NTU	[redacted]		1	.56	.93	+/- 0.5 NTU	Yes / No	
Turbidity 10 NTU	[redacted]		10	10.35	10.1	+/- 0.5 NTU	Yes / No	

Site Name: Hammond

Field Instrumentation Calibration Form

Date: 5/2/23

Calibrated By: EF

Field Conditions: 60-80 sunny

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aqua Troll 400	183546
Turbidity Meter	Hanna 2020	1511-911

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24005393	12/24	APW
pH (SU)	4.00	24004993	12/23	APW
pH (SU)	7.00	24004517	12/24	APW
pH (SU)	10.00	24000083	12/24	APW
D.O. (%)	N/A	—	~~12/23~~	APW
ORP (mV)	228.0	24006405	12/24	APW

Calibration					
Time Start 815		Time Finish 847			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4490	19.86	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	~~20.59~~ 28.15	± 0.1	GWMP
pH (SU)	7.00	7.00	27.30	± 0.1	GWMP
pH (SU)	10.00	10.00	26.99	± 0.1	GWMP
D.O. (%)	N/A	100.1	27.22	± 10%	NA
ORP (mV)	228.0	228	26.57	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0	± 10% of standard	EPA 2023
	1	91		
	10	9.91		
	—	—		

Calibration Check					
Time Start 1315		Time Finish 1340			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4490	30.09	± 10% of standard	EPA 2023
pH (SU)	4.00	4	34.13	± 0.1	GWMP
pH (SU)	7.00	7	33.21	± 0.1	GWMP
pH (SU)	10.00	10	31.94	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0	± 10% of standard	EPA 2023
	1	.97		
	10	9.71		
	—	—		

Notes:

Site Name: Plant Hammond

Field Instrumentation Calibration Form

Date: 6-2-24

Calibrated By: Zain W.

Field Conditions: Clear, 70°F

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 600	916183
Turbidity Meter	LaMotte	7009-1416

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (uS/cm)	4,490	24005593	12/24	ATR
pH (SU)	4 00	24005595	12/24	
pH (SU)	7 00	24004511	12/24	
pH (SU)	10 00	24000085	12/24	
D.O (%)	N/A	—	—	
ORP (mV)	228.0	24006903	12/24	

Calibration					
Time Start 0828		Time Finish 1348			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (uS/cm)	4,490	4490	22.01	± 10% of standard	EPA 2023
pH (SU)	4 00	4.0	22.17	± 0 1	GWMP
pH (SU)	7 00	7.0	22.33	± 0 1	GWMP
pH (SU)	10 00	10.0	22.35	± 0 1	GWMP
D O (%)	N/A	—	97.56	± 10%	NA
ORP (mV)	228.0	228.0	22.19	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0	± 10% of standard	EPA 2023
	1	1		
	10	10		
	—	—		

Calibration Check					
Time Start 1510		Time Finish 1523			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (uS/cm)	4,490	4490	26.05	± 10% of standard	EPA 2023
pH (SU)	4 00	4.0	26.33	± 0 1	GWMP
pH (SU)	7 00	7.0	25.26	± 0 1	GWMP
pH (SU)	10.00	10.0	24.38	± 0 1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0	± 10% of standard	EPA 2023
	1	1		
	10	10		
	—	—		

Notes: Had problem w/ conductivity; solved by restoring factory calibration

Site Name: Plant Hammond

Field Instrumentation Calibration Form

Date: 5-9-2024

Calibrated By: A. Szwast

Field Conditions: Thunderstorms, 66°F

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	850751
Turbidity Meter	La Motte 2020e	7009-1416

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24040693	12/2024	AIR
pH (SU)	4.00	24011593	12/2024	AIR
pH (SU)	7.00	24003597	11/2024	AIR
pH (SU)	10.00	24014996	11/2024	AIR
D.O. (%)	N/A	—	—	—
ORP (mV)	228.0	24006903	11/2024	AIR

Calibration					
Time Start 1020		Time Finish 1040			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4490.0	23.34	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	23.54	± 0.1	GWMP
pH (SU)	7.00	7.00	23.52	± 0.1	GWMP
pH (SU)	10.00	10.00	23.57	± 0.1	GWMP
D.O. (%)	N/A	99.7 100%	23.04	± 10%	NA
ORP (mV)	228.0	228.0	23.45	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0.00	± 10% of standard	EPA 2023
	1	0.70		
	10	10.12		
	—	—		

Calibration Check					
Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490			± 10% of standard	EPA 2023
pH (SU)	4.00			± 0.1	GWMP
pH (SU)	7.00			± 0.1	GWMP
pH (SU)	10.00			± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)			± 10% of standard	EPA 2023

Notes:

Site Name: GP Plant Hammond

Field Instrumentation Calibration Form

Date: 5/13 & 14/24

Calibrated By: J. Newsome

Field Conditions: Cloudy, 60's

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll	966105
Turbidity Meter	LaMotte 2020 we	1511- 4111

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24005593	12/2024	AIR
pH (SU)	4 00	24005593	12/2024	AIR
pH (SU)	7 00	24050457	12/2024	AIR
pH (SU)	10 00	24 001085	12/2024	AIR
D O (%)	N/A	—	—	—
ORP (mV)	228 0	24003903	12/2024	AIR

Calibration					
Time Start	0750	Time Finish	820		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4491.4	19.05	± 10% of standard	EPA 2023
pH (SU)	4 00	4.04	19.14	± 0 1	GWMP
pH (SU)	7.00	7.04	19.24	± 0 1	GWMP
pH (SU)	10 00	10.03	19.33 30	± 0 1	GWMP
D O (%)	N/A	99.75	19.24	± 10%	NA
ORP (mV)	228 0	228.5	19.32	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0.01	± 10% of standard	EPA 2023
	1	1.01		
	10	9.98		
	—	—		

Calibration Check					
Time Start	1230	Time Finish	1245		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4490.91	20.12	± 10% of standard	EPA 2023
pH (SU)	4 00	4.03	20.12	± 0.1	GWMP
pH (SU)	7 00	7.02	19.103	± 0.1	GWMP
pH (SU)	10 00	10.04	20.05	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0	± 10% of standard	EPA 2023
	1	1.01		
	10	10		
	—	—		

Notes:

Site Name: Plant Hammond

Field Instrumentation Calibration Form

Date: 5-15-2024

Calibrated By: A. Szwast

Field Conditions: Cloudy, 70°F

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	850751
Turbidity Meter	LaMotte 2020e	5008-1816

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24005593	12/2024	AIR
pH (SU)	4 00	24005593	12/2024	AIR
pH (SU)	7 00	24003597	11/2024	AIR
pH (SU)	10 00	24004496	11/2024	AIR
D O (%)	N/A	—	—	—
ORP (mV)	228.0	24006403	11/2024	AIR

Calibration					
Time Start 745		Time Finish 810			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (uS/cm)	4,490	4490.0	18.97	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	19.15	± 0 1	GWMP
pH (SU)	7 00	7.00	19.33	± 0 1	GWMP
pH (SU)	10 00	10.00	19.47	± 0 1	GWMP
D.O (%)	N/A	100.00	18.62	± 10%	NA
ORP (mV)	228.0	229.0	19.46	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0.00	± 10% of standard	EPA 2023
	1	0.77		
	10	9.47		
	—	—		

Calibration Check					
Time Start 1630		Time Finish 1640			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (uS/cm)	4,490	4490.0	30.19	± 10% of standard	EPA 2023
pH (SU)	4 00	4.00	29.82	± 0 1	GWMP
pH (SU)	7 00	7.00	28.04	± 0 1	GWMP
pH (SU)	10.00	10.00	27.03	± 0 1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0.02	± 10% of standard	EPA 2023
	1	0.83		
	10	10.08		
	—	—		

Notes:

Site Name: Port Hammond

Field Instrumentation Calibration Form

Date: 5/15/24

Calibrated By: T Newsome

Field Conditions: Cloudy, 60° F

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aqua troll	966105
Turbidity Meter	LaMotte 2020e	17111-4111

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24105593	12/2024	AIR2
pH (SU)	4.00	24105493	12/20/24	AIR
pH (SU)	7.00	24004514	12/2024	AIR2
pH (SU)	10.00	24000065	12/2024	AIR2
D.O. (%)	N/A	—	—	—
ORP (mV)	228.0	24070905	12/2024	AIR2

Calibration					
Time Start	0750	Time Finish	0810		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4034.6	20.20	± 10% of standard	EPA 2023
pH (SU)	4.00	4.02	20.35	± 0.1	GWMP
pH (SU)	7.00	7.03	20.30	± 0.1	GWMP
pH (SU)	10.00	10.05	21.01	± 0.1	GWMP
D.O. (%)	N/A	100.1	20.27	± 10%	NA
ORP (mV)	228.0	232.6	20.94	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0	± 10% of standard	EPA 2023
	1	0.96		
	10	10.01		
	—	—		

Calibration Check					
Time Start	1445	Time Finish	1455		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4109.7	22.4	± 10% of standard	EPA 2023
pH (SU)	4.00	4.02	22.4	± 0.1	GWMP
pH (SU)	7.00	7.03	21.6	± 0.1	GWMP
pH (SU)	10.00	10.0	22.7	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0	± 10% of standard	EPA 2023
	1	1.01		
	—	—		

Notes:

Site Name: Plant Hammond

Calibrated By: A. Sennett

Field Instrumentation Calibration Form

Date: 5-16-2024

Field Conditions: Sunny, 70°F

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	550751
Turbidity Meter	LaMotte 2020e	2009-1416

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4.490	24005593	12/2024	AIR
pH (SU)	4.00	24005593	12/2024	AIR
pH (SU)	7.00	24003594	11/2024	AIR
pH (SU)	10.00	24004996	11/2024	AIR
D.O. (%)	N/A	~	~	~
ORP (mV)	228.0	24006903	11/2024	AIR

Calibration					
Time Start 800		Time Finish 830			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4.490	4420.0	20.04	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	20.02	± 0.1	GWMP
pH (SU)	7.00	7.00	20.13	± 0.1	GWMP
pH (SU)	10.00	10.00	20.20	± 0.1	GWMP
D.O. (%)	N/A	100.00	20.04	± 10%	NA
ORP (mV)	228.0	228.0	20.09	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0.00	± 10% of standard	EPA 2023
	1	0.81		
	10	10.10		
	~	~		

Calibration Check					
Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4.490			± 10% of standard	EPA 2023
pH (SU)	4.00			± 0.1	GWMP
pH (SU)	7.00			± 0.1	GWMP
pH (SU)	10.00			± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)			± 10% of standard	EPA 2023

Notes:

Site Name: Plant Hammond

Field Instrumentation Calibration Form

Date: 5/14/24

Calibrated By: J Nelson Sc Mc

Field Conditions: Sunny, 100°F

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll	710105
Turbidity Meter	LaMotte 2020w	1511-1111

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24005593	12/2024	AIR
pH (SU)	4 00	24 005593	12/2024	AIR
pH (SU)	7 00	24 004517	12/2024	AIR
pH (SU)	10.00	24000085	12/2024	AIR
D O (%)	N/A	—	—	—
ORP (mV)	228 0	24006903	12/2024	AIR

Calibration					
Time Start	740	Time Finish	0800		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4493.9	19.9	± 10% of standard	EPA 2023
pH (SU)	4 00	4.00	20.17	± 0.1	GWMP
pH (SU)	7 00	6.97	20.25	± 0 1	GWMP
pH (SU)	10 00	10.02	20.29	± 0 1	GWMP
D O (%)	N/A	100.53	20.3	± 10%	NA
ORP (mV)	228 0	234.7	20.52	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0.00	± 10% of standard	EPA 2023
	1	0.97		
	10	9.99		
	—	—		

Calibration Check					
Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490			± 10% of standard	EPA 2023
pH (SU)	4 00			± 0 1	GWMP
pH (SU)	7 00			± 0 1	GWMP
pH (SU)	10 00			± 0 1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)			± 10% of standard	EPA 2023

Notes:

Site Name: Plant Hammond

Calibrated By: Zeiin Webb

Field Instrumentation Calibration Form

Date: 5-29-24

Field Conditions: Sunny, 75°F

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	In-Situ Aqua Troll 400	965586
Turbidity Meter	Orion Model 9510	—

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24005595	11/24	ATR
pH (SU)	4 00	24005593	12/24	ATR
pH (SU)	7 00	24003547	11/24	ATR
pH (SU)	10 00	24000085	12/24	ATR
D O (%)	N/A	—	—	ATR
ORP (mV)	228.0	24006903	12/24	ATR

Calibration					
Time Start 0937		Time Finish 0959			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (uS/cm)	4,490	4491	23.69	± 10% of standard	EPA 2023
pH (SU)	4 00	4.00	23.87	± 0.1	GWMP
pH (SU)	7 00	7.00	24.17	± 0 1	GWMP
pH (SU)	10 00	10 00	24.35	± 0.1	GWMP
D O (%)	N/A	—	24.51	± 10%	NA
ORP (mV)	228.0	228.0	24.31	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0	± 10% of standard	EPA 2023
	1	1		
	10	10		
	—	—		

Calibration Check					
Time Start 1500		Time Finish 1515			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4490	29.03	± 10% of standard	EPA 2023
pH (SU)	4 00	4.00	28.59	± 0 1	GWMP
pH (SU)	7 00	7.00	26.87	± 0 1	GWMP
pH (SU)	10 00	10.00	25.93	± 0 1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0	± 10% of standard	EPA 2023
	1	1		
	10	10		
	—	—		

Notes:

Site Name: Plant Hammond

Field Instrumentation Calibration Form

Date: 5-30-24

Calibrated By: Zain W.

Field Conditions: Sunny, 70°F

Instrument	Manufacturer/ Model	Serial Number
Water Quality Meter	Xylem Aqua Troll 600	665826
Turbidity Meter	LaMotte 2020i	—

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24005593	12/24	ATR
pH (SU)	4.00	24005593	12/24	↓
pH (SU)	7.00	24003597	11/24	
pH (SU)	10.00	24000085	12/24	
D.O. (%)	N/A	—	—	
ORP (mV)	228.0	24006903	12/24	↓

Calibration					
Time Start: 0819		Time Finish: 0844			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4490	20.32	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	20.75	± 0.1	GWMP
pH (SU)	7.00	7.00	21.90	± 0.1	GWMP
pH (SU)	10.00	10.00	22.55	± 0.1	GWMP
D.O. (%)	N/A	100.2	22.21	± 10%	NA
ORP (mV)	228.0	228.0	22.68	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0	± 10% of standard	EPA 2023
	1	1		
	10	10		
	—	—		

Calibration Check					
Time Start: —		Time Finish: —			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	—	—	± 10% of standard	EPA 2023
pH (SU)	4.00	—	—	± 0.1	GWMP
pH (SU)	7.00	—	—	± 0.1	GWMP
pH (SU)	10.00	—	—	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	—	—	± 10% of standard	EPA 2023
	—	—		
	—	—		
	—	—		

Notes:

APPENDIX D

Screening Level Groundwater Analytical Laboratory Results and Field Sampling Forms

Laboratory Analytical Reports

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Kip Gray
Geosyntec Consultants Inc
1255 Roberts Blvd. NW
Suite 200
Kennesaw, Georgia 30144

Generated 9/12/2024 6:52:08 PM

JOB DESCRIPTION

Plant Hammond

JOB NUMBER

705-6691-1

Eurofins Atlanta
3080 Presidential Dr
Atlanta GA 30340

See page two for job notes and contact information.

my EOL

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization

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Authorized for release by
David Fuller, Project Manager
David.Fuller@et.eurofinsus.com
(770)344-8986

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Definitions/Glossary

Client: Geosyntec Consultants Inc
Job ID: 705-6691-1
Project/Site: Plant Hammond

Qualifiers

Metals

Qualifier	Qualifier Description
^2	Calibration Blank (ICB and/or CCB) is outside acceptance limits.
B	Compound was found in the blank and sample.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Eurofins Atlanta
3080 Presidential Dr
Atlanta, GA 30340
Phone: 770-457-8177 Fax: 770-457-8188

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: A. Akbari	Lab PM: Fuller, David	Carrier Tracking No(s):	COC No: 705-3725-1686.2
Client Contact: Kip Gray	Phone: 6269222765	E-Mail: David.Fuller@et.eurofinsus.com	State of Origin:	Page: Page 2 of 3
Company: Geosyntec Consultants Inc	PWSID:	Analysis Requested		Job #:
Address: 1255 Roberts Blvd. NW Suite 200	Due Date Requested:			Preservation Codes:
City: Kennesaw	TAT Requested (days):			
State, Zip: GA, 30144	Compliance Project: Δ Yes Δ No			705-6691 COC
Phone	PO #: 100061163			
Email: Kip.Gray@Geosyntec.com	WO #: Project# GW6581G			Other:
Project Name: Plant Hammond	Project #: 70500911			
Site:	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010D-Total Boron	6020 B-Total Arsenic/Iron	6020 B-Dissolve Arsenic/Iron	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
HAM-PT7-09-10-(i)-UNF	9-10-24	1045	G	Water			X	X			
HAM-PT7-09-10-(i)-FIL	9-10-24	1045	G	Water					X		
HAM-PT7-09-10-(ii)-UNF	9-10-24	1235	G	Water			X	X			
HAM-PT7-09-10-(ii)-FIL	9-10-24	1235	G	Water					X		
HAM-PT13-09-10-UNF	9-10-24	1245	G	Water			X	X			
HAM-PT13-09-10-FIL	9-10-24	1245	G	Water					X		
				Water							
				Water							
				Water							
				Water							
				Water							

Possible Hazard Identification
☐ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* ☐ *Poison B* ☐ *Unknown* ☐ *Radiological*

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For _____ Months*

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	9/10/2024 1530	Geosyntec	[signature]	9-10-24 5:30	
[signature]	9-11-24 6:15		[signature]	9/11/24 805	EUR
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 0.2 2665

Job Narrative
705-6691-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Receipt
The samples were received on 9/11/2024 8:05 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.2°C.

Receipt Exceptions
For the PT13 samples, it was determined that the Unfiltered water was placed in the bottle labeled Filtered, while the Filtered water for this sample was put in the bottle labeled Unfiltered. For this reason, the Client Sample IDs were swapped for the fifth & sixth samples on this submittal so analytical results are more accurately presented.

Metals
Method 6010D: The method blank for preparation batch 705-11351 and analytical batch 705-11414 contained Boron above the method reporting limit (RL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

Method 6010D: A deviation from the Standard Operating Procedure (SOP) was authorized by client request. Samples were not processed by prep method 3010 and analyzed straight from the bottle.

Method 6010D: The method blank for preparation batch 705-11351 and analytical batch 705-11617 contained Boron above the reporting limit (RL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

Method 6020B - Total Recoverable: A deviation from the Standard Operating Procedure (SOP) was authorized by client request: Samples with a prep date & time of 9/11/24 @ 11:38 and 9/11/24 @ 16:06 were not processed by prep method 3005 and analyzed straight from the bottle.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-6691-1

Client Sample ID: HAM-PT7-09-10-(i)-UNF

Lab Sample ID: 705-6691-1

Date Collected: 09/10/24 10:45
Matrix: Water
Date Received: 09/11/24 08:05

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.60	B	0.040	0.026	mg/L		09/11/24 12:10	09/11/24 14:39	1
Iron	6.9		0.10	0.035	mg/L		09/11/24 12:10	09/11/24 14:39	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.16		0.0050	0.0013	mg/L		09/11/24 11:38	09/11/24 16:36	1
Arsenic	0.11		0.0050	0.0013	mg/L		09/11/24 16:06	09/11/24 16:57	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-6691-1

Client Sample ID: HAM-PT7-09-10-(i)-FIL
Date Collected: 09/10/24 10:45
Date Received: 09/11/24 08:05

Lab Sample ID: 705-6691-2
Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic, Dissolved	**0.016**		0.0050	0.0013	mg/L			09/11/24 14:02	1
Iron, Dissolved	ND		0.040	0.018	mg/L			09/11/24 14:02	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-6691-1

Client Sample ID: HAM-PT7-09-10-(ii)-UNF

Lab Sample ID: 705-6691-3

Date Collected: 09/10/24 12:35

Matrix: Water

Date Received: 09/11/24 08:05

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.60	B	0.040	0.026	mg/L		09/11/24 12:10	09/11/24 14:42	1
Iron	1.0		0.10	0.035	mg/L		09/11/24 12:10	09/11/24 14:42	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.055		0.0050	0.0013	mg/L		09/11/24 11:38	09/11/24 16:54	1
Arsenic	0.060		0.0050	0.0013	mg/L		09/12/24 07:01	09/12/24 13:39	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-6691-1

Client Sample ID: HAM-PT7-09-10-(ii)-FIL

Lab Sample ID: 705-6691-4

Date Collected: 09/10/24 12:35
Matrix: Water
Date Received: 09/11/24 08:05

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic, Dissolved	**0.032**		0.0050	0.0013	mg/L			09/11/24 14:04	1
Iron, Dissolved	ND		0.040	0.018	mg/L			09/11/24 14:04	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-6691-1

Client Sample ID: HAM-PT13-09-10-FIL
Date Collected: 09/10/24 12:45
Date Received: 09/11/24 08:05

Lab Sample ID: 705-6691-5
Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic, Dissolved	0.038		0.0050	0.0013	mg/L			09/11/24 16:52	1
Iron, Dissolved	1.2		0.040	0.018	mg/L			09/11/24 16:52	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-6691-1

Client Sample ID: HAM-PT13-09-10-UNF

Lab Sample ID: 705-6691-6

Date Collected: 09/10/24 12:45

Matrix: Water

Date Received: 09/11/24 08:05

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.72	B ^2	0.040	0.026	mg/L		09/12/24 07:15	09/12/24 13:55	1
Iron	15		0.10	0.035	mg/L		09/12/24 07:15	09/12/24 13:55	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.059		0.0050	0.0013	mg/L		09/11/24 16:06	09/11/24 13:51	1
Arsenic	0.073		0.0050	0.0013	mg/L		09/12/24 07:15	09/12/24 13:41	1

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 705-11351/1-A
Matrix: Water
Analysis Batch: 11414

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 11351

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.0549		0.040	0.026	mg/L		09/11/24 12:10	09/11/24 14:30	1
Iron	ND		0.10	0.035	mg/L		09/11/24 12:10	09/11/24 14:30	1

Lab Sample ID: LCS 705-11351/2-A
Matrix: Water
Analysis Batch: 11414

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 11351

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1.00	0.997		mg/L		100	80 - 120
Iron	10.0	9.23		mg/L		92	80 - 120

Lab Sample ID: LCSD 705-11351/3-A
Matrix: Water
Analysis Batch: 11414

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 11351

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron	1.00	0.984		mg/L		98	80 - 120	1	20
Iron	10.0	9.11		mg/L		91	80 - 120	1	20

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 705-11348/1-A
Matrix: Water
Analysis Batch: 11459

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 11348

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0050	0.0013	mg/L		09/11/24 11:38	09/11/24 16:25	1

Lab Sample ID: LCS 705-11348/2-A
Matrix: Water
Analysis Batch: 11459

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 11348

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.100	0.0941		mg/L		94	80 - 120

Lab Sample ID: 705-6691-A-5-E MS
Matrix: Water
Analysis Batch: 11459

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 11348

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.038		0.100	0.131		mg/L		93	75 - 125

Lab Sample ID: 705-6691-A-5-F MSD
Matrix: Water
Analysis Batch: 11459

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 11348

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	0.038		0.100	0.134		mg/L		96	75 - 125	2	20

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 705-11357/1-A
Matrix: Water
Analysis Batch: 11410

Client Sample ID: Method Blank
Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic, Dissolved	ND		0.0050	0.0013	mg/L			09/11/24 13:46	1
Iron, Dissolved	ND		0.040	0.018	mg/L			09/11/24 13:46	1

Lab Sample ID: LCS 705-11357/2-A
Matrix: Water
Analysis Batch: 11410

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic, Dissolved	0.100	0.0843		mg/L		84	80 - 120
Iron, Dissolved	1.00	0.813		mg/L		81	80 - 120

Lab Sample ID: 705-6691-A-6 MS
Matrix: Water
Analysis Batch: 11410

Client Sample ID: Matrix Spike
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic, Dissolved	0.059		0.100	0.145		mg/L		86	75 - 125
Iron, Dissolved	3.1		1.00	4.09		mg/L		95	75 - 125

Lab Sample ID: 705-6691-A-6 MSD
Matrix: Water
Analysis Batch: 11410

Client Sample ID: Matrix Spike Duplicate
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic, Dissolved	0.059		0.100	0.146		mg/L		88	75 - 125	1	20
Iron, Dissolved	3.1		1.00	4.07		mg/L		93	75 - 125	1	20

Lab Chronicle

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-6691-1

Client Sample ID: HAM-PT7-09-10-(i)-UNF

Lab Sample ID: 705-6691-1

Date Collected: 09/10/24 10:45
Matrix: Water
Date Received: 09/11/24 08:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3010A			11351	SA	EET ATL	09/11/24 12:10
Total/NA	Analysis	6010D		1	11414	DS	EET ATL	09/11/24 14:39
Total Recoverable	Prep	3005A			11348	SA	EET ATL	09/11/24 11:38
Total Recoverable	Analysis	6020B		1	11459	AD	EET ATL	09/11/24 16:36
Total Recoverable	Prep	3005A			11348	SA	EET ATL	09/11/24 16:06
Total Recoverable	Analysis	6020B		1	11459	AD	EET ATL	09/11/24 16:57

Client Sample ID: HAM-PT7-09-10-(i)-FIL

Lab Sample ID: 705-6691-2

Date Collected: 09/10/24 10:45
Matrix: Water
Date Received: 09/11/24 08:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Analysis	6020B		1	11410	AD	EET ATL	09/11/24 14:02

Client Sample ID: HAM-PT7-09-10-(ii)-UNF

Lab Sample ID: 705-6691-3

Date Collected: 09/10/24 12:35
Matrix: Water
Date Received: 09/11/24 08:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3010A			11351	SA	EET ATL	09/11/24 12:10
Total/NA	Analysis	6010D		1	11414	DS	EET ATL	09/11/24 14:42
Total Recoverable	Prep	3005A			11348	SA	EET ATL	09/11/24 11:38
Total Recoverable	Analysis	6020B		1	11459	AD	EET ATL	09/11/24 16:54
Total Recoverable	Prep	3005A			11348	SA	EET ATL	09/12/24 07:01
Total Recoverable	Analysis	6020B		1	11614	AD	EET ATL	09/12/24 13:39

Client Sample ID: HAM-PT7-09-10-(ii)-FIL

Lab Sample ID: 705-6691-4

Date Collected: 09/10/24 12:35
Matrix: Water
Date Received: 09/11/24 08:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Analysis	6020B		1	11410	AD	EET ATL	09/11/24 14:04

Client Sample ID: HAM-PT13-09-10-FIL

Lab Sample ID: 705-6691-5

Date Collected: 09/10/24 12:45
Matrix: Water
Date Received: 09/11/24 08:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Analysis	6020B		1	11688	TA	EET ATL	09/11/24 16:52

Lab Chronicle

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-6691-1

Client Sample ID: HAM-PT13-09-10-UNF

Lab Sample ID: 705-6691-6

Date Collected: 09/10/24 12:45

Matrix: Water

Date Received: 09/11/24 08:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3010A			11351	SA	EET ATL	09/12/24 07:15
Total/NA	Analysis	6010D		1	11617	DS	EET ATL	09/12/24 13:55
Total Recoverable	Analysis	6020B		1	11682	TA	EET ATL	09/11/24 13:51
Total Recoverable	Prep	3005A			11348	SA	EET ATL	09/11/24 16:06
Total Recoverable	Prep	3005A			11348	SA	EET ATL	09/12/24 07:15
Total Recoverable	Analysis	6020B		1	11614	AD	EET ATL	09/12/24 13:41

Laboratory References:

EET ATL = Eurofins Atlanta, 3080 Presidential Dr, Atlanta, GA 30340, TEL (770)457-8177

Accreditation/Certification Summary

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-6691-1

Laboratory: Eurofins Atlanta

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E87582	06-30-25

Method Summary

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-6691-1

Method	Method Description	Protocol	Laboratory
6010D	Metals (ICP)	SW846	EET ATL
6020B	Metals (ICP/MS)	SW846	EET ATL
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET ATL
3010A	Preparation, Total Metals	SW846	EET ATL

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET ATL = Eurofins Atlanta, 3080 Presidential Dr, Atlanta, GA 30340, TEL (770)457-8177

Sample Summary

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-6691-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
705-6691-1	HAM-PT7-09-10-(i)-UNF	Water	09/10/24 10:45	09/11/24 08:05
705-6691-2	HAM-PT7-09-10-(i)-FIL	Water	09/10/24 10:45	09/11/24 08:05
705-6691-3	HAM-PT7-09-10-(ii)-UNF	Water	09/10/24 12:35	09/11/24 08:05
705-6691-4	HAM-PT7-09-10-(ii)-FIL	Water	09/10/24 12:35	09/11/24 08:05
705-6691-5	HAM-PT13-09-10-FIL	Water	09/10/24 12:45	09/11/24 08:05
705-6691-6	HAM-PT13-09-10-UNF	Water	09/10/24 12:45	09/11/24 08:05

Login Sample Receipt Checklist

Client: Geosyntec Consultants Inc

Job Number: 705-6691-1

Login Number: 6691

List Source: Eurofins Atlanta

List Number: 1

Creator: Stephens, Andrena

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

END OF REPORT

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Kip Gray
Geosyntec Consultants Inc
1255 Roberts Blvd. NW
Suite 200
Kennesaw, Georgia 30144

Generated 9/12/2024 7:07:48 PM

JOB DESCRIPTION

Plant Hammond

JOB NUMBER

705-6851-1

Eurofins Atlanta
3080 Presidential Dr
Atlanta GA 30340

See page two for job notes and contact information.

my EOL

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization

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Authorized for release by
David Fuller, Project Manager
David.Fuller@et.eurofinsus.com
(770)344-8986

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Definitions/Glossary

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-6851-1

Qualifiers

Metals

Qualifier	Qualifier Description
^2	Calibration Blank (ICB and/or CCB) is outside acceptance limits.
B	Compound was found in the blank and sample.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Eurofins Atlanta
3080 Presidential Dr
Atlanta, GA 30340
Phone: 770-457-8177 Fax: 770-457-8188

Chain of Custody Record

eurofins
Environment Testing

Client Information	Sampler: Ali Akbari	Lab PM: Fuller, David	Carrier Tracking No(s):	COC No: 705-3932-1820.1
Client Contact: Kip Gray	Phone: 6269222765	E-Mail: David.Fuller@et.eurofinsus.com	State of Origin:	Page: Page 1 of 2
Company: Geosyntec Consultants Inc	PWSID:			Job #:
Address: 1255 Roberts Blvd. NW Suite 200	Due Date Requested:			
City: Kennesaw	TAT Requested (days): Sameday			
State, Zip: GA, 30144	Compliance Project: Δ Yes Δ No			
Phone:	PO #: 100061163			
Email: Kip.Gray@Geosyntec.com	WO #: Project# GW6581G			
Project Name: Plant Hammond	Project #: 70500911			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

705-6851 COC

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	total Boron	total Arsenic/iron	dissolved arsenic/iron	Total Number of containers	Special Instructions/Note:
Preservation Code:											
HAM-PT7-09-12-i-UNF	9112/24	950	G	Water			X	X			
HAM-PT7-09-12-i-FIL	↓	950	↓	Water					X		
HAM-PT7-09-12-ii-UNF	↓	1045	↓	Water			X	X			
HAM-PT7-09-12-ii-FIL		1045		Water					X		
				Water							
				Water							
				Water							
				Water							
				Water							
				Water							
				Water							

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment: Courier		
Relinquished by:	Date/Time: 09-12-24 700	Company Geosyntec	Received by:	Date/Time: 9-12-24 7:15	Company
Relinquished by:	Date/Time: 9-12-24 9:26	Company	Received by: Anna Neal	Date/Time: 9-12-24 9260	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 1.2°C #2927

Job Narrative
705-6851-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Receipt
The samples were received on 9/12/2024 9:26 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.2°C.

Receipt Exceptions
The date of collection on the container labels did not match the date on the Chain-of-Custody (COC). Laboratory used 9/11/2024.

Metals
Method 6010D: A deviation from the Standard Operating Procedure (SOP) was authorized by client request. Samples were not processed by prep method 3010A and analyzed straight from the bottle.

Method 6010D: The method blank for preparation batch 705-11351 and analytical batch 705-11414 contained Boron above the method reporting limit (RL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

Method 6020B - Total Recoverable: A deviation from the Standard Operating Procedure (SOP) was authorized by client request: Samples with an analysis time ealier than 14:00 were not processed by prep method 3005A and analyzed straight from the bottle.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-6851-1

Client Sample ID: HAM-PT7-09-11-i-UNF

Date Collected: 09/11/24 09:50
Date Received: 09/12/24 09:26

Lab Sample ID: 705-6851-1

Matrix: Water

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.63	B ^2	0.040	0.026	mg/L		09/12/24 10:41	09/12/24 13:58	1
Iron	1.9		0.10	0.035	mg/L		09/12/24 10:41	09/12/24 13:58	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.045		0.0050	0.0013	mg/L		09/12/24 10:50	09/12/24 13:55	1
Arsenic	0.071		0.0050	0.0013	mg/L		09/12/24 10:50	09/12/24 16:39	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-6851-1

Client Sample ID: HAM-PT7-09-11-i-FIL

Date Collected: 09/11/24 09:50
Date Received: 09/12/24 09:26

Lab Sample ID: 705-6851-2

Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic, Dissolved	**0.0065**		0.0050	0.0013	mg/L			09/12/24 13:34	1
Iron, Dissolved	ND		0.040	0.018	mg/L			09/12/24 13:34	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-6851-1

Client Sample ID: HAM-PT7-09-11-ii-UNF

Date Collected: 09/11/24 10:45
Date Received: 09/12/24 09:26

Lab Sample ID: 705-6851-3

Matrix: Water

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.65	B ^2	0.040	0.026	mg/L		09/12/24 10:41	09/12/24 14:01	1
Iron	6.6		0.10	0.035	mg/L		09/12/24 10:41	09/12/24 14:01	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.031		0.0050	0.0013	mg/L		09/12/24 10:50	09/12/24 13:57	1
Arsenic	0.035		0.0050	0.0013	mg/L		09/12/24 10:50	09/12/24 16:41	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-6851-1

Client Sample ID: HAM-PT7-09-11-ii-FIL

Date Collected: 09/11/24 10:45
Date Received: 09/12/24 09:26

Lab Sample ID: 705-6851-4

Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic, Dissolved	**0.019**		0.0050	0.0013	mg/L			09/12/24 13:37	1
Iron, Dissolved	ND		0.040	0.018	mg/L			09/12/24 13:37	1

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 705-11351/1-A
Matrix: Water
Analysis Batch: 11414

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 11351

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.0549		0.040	0.026	mg/L		09/11/24 12:10	09/11/24 14:30	1
Iron	ND		0.10	0.035	mg/L		09/11/24 12:10	09/11/24 14:30	1

Lab Sample ID: LCS 705-11351/2-A
Matrix: Water
Analysis Batch: 11414

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 11351

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1.00	0.997		mg/L		100	80 - 120
Iron	10.0	9.23		mg/L		92	80 - 120

Lab Sample ID: LCSD 705-11351/3-A
Matrix: Water
Analysis Batch: 11414

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 11351

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron	1.00	0.984		mg/L		98	80 - 120	1	20
Iron	10.0	9.11		mg/L		91	80 - 120	1	20

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 705-11348/1-A
Matrix: Water
Analysis Batch: 11459

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 11348

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0050	0.0013	mg/L		09/11/24 11:38	09/11/24 16:25	1

Lab Sample ID: LCS 705-11348/2-A
Matrix: Water
Analysis Batch: 11459

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 11348

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.100	0.0941		mg/L		94	80 - 120

Lab Sample ID: 705-6691-A-5-E MS
Matrix: Water
Analysis Batch: 11459

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 11348

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.038		0.100	0.131		mg/L		93	75 - 125

Lab Sample ID: 705-6691-A-5-F MSD
Matrix: Water
Analysis Batch: 11459

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 11348

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	0.038		0.100	0.134		mg/L		96	75 - 125	2	20

Lab Chronicle

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-6851-1

Client Sample ID: HAM-PT7-09-11-i-UNF
Lab Sample ID: 705-6851-1
Date Collected: 09/11/24 09:50
Matrix: Water
Date Received: 09/12/24 09:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3010A			11351	SA	EET ATL	09/12/24 10:41
Total/NA	Analysis	6010D		1	11617	DS	EET ATL	09/12/24 13:58
Total Recoverable	Prep	3005A			11348	SA	EET ATL	09/12/24 10:50
Total Recoverable	Analysis	6020B		1	11614	AD	EET ATL	09/12/24 13:55
Total Recoverable	Prep	3005A			11348	SA	EET ATL	09/12/24 10:50
Total Recoverable	Analysis	6020B		1	11667	AD	EET ATL	09/12/24 16:39

Client Sample ID: HAM-PT7-09-11-i-FIL
Lab Sample ID: 705-6851-2
Date Collected: 09/11/24 09:50
Matrix: Water
Date Received: 09/12/24 09:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Analysis	6020B		1	11644	AD	EET ATL	09/12/24 13:34

Client Sample ID: HAM-PT7-09-11-ii-UNF
Lab Sample ID: 705-6851-3
Date Collected: 09/11/24 10:45
Matrix: Water
Date Received: 09/12/24 09:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3010A			11351	SA	EET ATL	09/12/24 10:41
Total/NA	Analysis	6010D		1	11617	DS	EET ATL	09/12/24 14:01
Total Recoverable	Prep	3005A			11348	SA	EET ATL	09/12/24 10:50
Total Recoverable	Analysis	6020B		1	11614	AD	EET ATL	09/12/24 13:57
Total Recoverable	Prep	3005A			11348	SA	EET ATL	09/12/24 10:50
Total Recoverable	Analysis	6020B		1	11667	AD	EET ATL	09/12/24 16:41

Client Sample ID: HAM-PT7-09-11-ii-FIL
Lab Sample ID: 705-6851-4
Date Collected: 09/11/24 10:45
Matrix: Water
Date Received: 09/12/24 09:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Analysis	6020B		1	11644	AD	EET ATL	09/12/24 13:37

Laboratory References:

EET ATL = Eurofins Atlanta, 3080 Presidential Dr, Atlanta, GA 30340, TEL (770)457-8177

Accreditation/Certification Summary

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-6851-1

Laboratory: Eurofins Atlanta

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E87582	06-30-25

Method Summary

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-6851-1

Method	Method Description	Protocol	Laboratory
6010D	Metals (ICP)	SW846	EET ATL
6020B	Metals (ICP/MS)	SW846	EET ATL
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET ATL
3010A	Preparation, Total Metals	SW846	EET ATL

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET ATL = Eurofins Atlanta, 3080 Presidential Dr, Atlanta, GA 30340, TEL (770)457-8177

Sample Summary

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-6851-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
705-6851-1	HAM-PT7-09-11-i-UNF	Water	09/11/24 09:50	09/12/24 09:26
705-6851-2	HAM-PT7-09-11-i-FIL	Water	09/11/24 09:50	09/12/24 09:26
705-6851-3	HAM-PT7-09-11-ii-UNF	Water	09/11/24 10:45	09/12/24 09:26
705-6851-4	HAM-PT7-09-11-ii-FIL	Water	09/11/24 10:45	09/12/24 09:26

Login Sample Receipt Checklist

Client: Geosyntec Consultants Inc

Job Number: 705-6851-1

Login Number: 6851
List Number: 1
Creator: Ince, Sadie-Jane

List Source: Eurofins Atlanta

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	changed sample date references to 9/11
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	False	Limited volume received for dissolved metals
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

END OF REPORT

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Kip Gray
Geosyntec Consultants Inc
1255 Roberts Blvd. NW
Suite 200
Kennesaw, Georgia 30144

Generated 9/13/2024 5:16:29 PM

JOB DESCRIPTION

Plant Hammond

JOB NUMBER

705-7006-1

Eurofins Atlanta
3080 Presidential Dr
Atlanta GA 30340

See page two for job notes and contact information.

my EOL

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization

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Authorized for release by
David Fuller, Project Manager
David.Fuller@et.eurofinsus.com
(770)344-8986

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Client: Geosyntec Consultants Inc
Job ID: 705-7006-1
Project/Site: Plant Hammond

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Eurofins Atlanta
3080 Presidential Dr
Atlanta, GA 30340
Phone: 770-457-8177 Fax: 770-457-8188

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Ali Akbari	Lab PM: Fuller, David	Carrier Tracking No(s):	COC No: 705-3932-1820.2
Client Contact: Kip Gray	Phone: 6269222765	E-Mail: David.Fuller@et.eurofinsus.com	State of Origin:	Page: Page 2 of 2
Company: Geosyntec Consultants Inc	PWSID:			Job #:
Address: 1255 Roberts Blvd. NW Suite 200	Due Date Requested:			
City: Kennesaw	TAT Requested (days):			
State, Zip: GA, 30144	Compliance Project: Δ Yes Δ No			
Phone:	PO #: 100061163			
Email: Kip.Gray@Geosyntec.com	WO #: Project# GW6581G			
Project Name: Plant Hammond	Project #: 70500911			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

705-7006 COC

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	total boron	total arsenic - iron	dissolved arsenic-iron	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
HAM-PT7-09-12-FIL	09-12-24	1050	G	Water					X		
HAM-PT7-09-12-UNF	09-12-24	1050	G	Water			X	X			
HAM-PT14-09-12-FIL	09-12-24	1145	G	Water					X		
HAM-PT14-09-12-UNF	09-12-24	1145	G	Water			X	X			
				Water							
				Water							
				Water							
				Water							
				Water							

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Ali Akbari	09-13-24 1512	Geosyntec		9-13-24 1512	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	9-13-24 1859		Sadie Jane Ince	9-13-24 1002	Eurofins
Relinquished by:	Date/Time	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 0.3°C #2927

Job Narrative
705-7006-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Receipt
The samples were received on 9/13/2024 10:02 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.3°C.

Metals
Method 6010D: A deviation from the Standard Operating Procedure (SOP) was authorized by client request. Samples were not processed by prep method 3010A and analyzed straight from the bottle.

Method 6020B - Total Recoverable: A deviation from the Standard Operating Procedure (SOP) was authorized by client request: Samples with a Prepared date & time of 9/13/24 @ 10:25 were not processed by prep method 3005A and analyzed straight from the bottle.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-7006-1

Client Sample ID: HAM-PT7-09-12-FIL
Date Collected: 09/12/24 10:50
Date Received: 09/13/24 10:02

Lab Sample ID: 705-7006-1
Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic, Dissolved	**0.010**		0.0050	0.0013	mg/L			09/13/24 12:35	1
Iron, Dissolved	ND		0.040	0.018	mg/L			09/13/24 12:35	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-7006-1

Client Sample ID: HAM-PT7-09-12-UNF

Lab Sample ID: 705-7006-2

Date Collected: 09/12/24 10:50

Matrix: Water

Date Received: 09/13/24 10:02

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.61		0.040	0.026	mg/L		09/13/24 11:07	09/13/24 12:21	1
Iron	1.8		0.10	0.035	mg/L		09/13/24 11:07	09/13/24 12:21	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.018		0.0050	0.0013	mg/L		09/13/24 10:25	09/13/24 12:47	1
Arsenic	0.022		0.0050	0.0013	mg/L		09/13/24 10:49	09/13/24 16:05	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-7006-1

Client Sample ID: HAM-PT14-09-12-FIL
Date Collected: 09/12/24 11:45
Date Received: 09/13/24 10:02

Lab Sample ID: 705-7006-3
Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic, Dissolved	0.037		0.0050	0.0013	mg/L			09/13/24 12:38	1
Iron, Dissolved	4.4		0.040	0.018	mg/L			09/13/24 12:38	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-7006-1

Client Sample ID: HAM-PT14-09-12-UNF

Lab Sample ID: 705-7006-4

Date Collected: 09/12/24 11:45

Matrix: Water

Date Received: 09/13/24 10:02

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.74		0.040	0.026	mg/L		09/13/24 11:07	09/13/24 12:24	1
Iron	6.5		0.10	0.035	mg/L		09/13/24 11:07	09/13/24 12:24	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.043		0.0050	0.0013	mg/L		09/13/24 10:25	09/13/24 12:49	1
Arsenic	0.041		0.0050	0.0013	mg/L		09/13/24 10:49	09/13/24 16:17	1

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-7006-1

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 705-11749/1-A
Matrix: Water
Analysis Batch: 11792

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 11749

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	ND		0.040	0.026	mg/L		09/13/24 11:07	09/13/24 12:05	1
Iron	ND		0.10	0.035	mg/L		09/13/24 11:07	09/13/24 12:05	1

Lab Sample ID: LCS 705-11749/2-A
Matrix: Water
Analysis Batch: 11792

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 11749

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1.00	1.03		mg/L		103	80 - 120
Iron	10.0	10.3		mg/L		103	80 - 120

Lab Sample ID: LCSD 705-11749/3-A
Matrix: Water
Analysis Batch: 11792

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 11749

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron	1.00	1.02		mg/L		102	80 - 120	0	20
Iron	10.0	10.3		mg/L		103	80 - 120	0	20

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 705-11740/1-A
Matrix: Water
Analysis Batch: 11873

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 11740

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0050	0.0013	mg/L		09/13/24 10:49	09/13/24 16:01	1

Lab Sample ID: LCS 705-11740/2-A
Matrix: Water
Analysis Batch: 11873

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 11740

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.100	0.0884		mg/L		88	80 - 120

Lab Sample ID: 705-7006-2 MS
Matrix: Water
Analysis Batch: 11873

Client Sample ID: HAM-PT7-09-12-UNF
Prep Type: Total Recoverable
Prep Batch: 11740

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.022		0.100	0.107		mg/L		85	75 - 125

Lab Sample ID: 705-7006-2 MSD
Matrix: Water
Analysis Batch: 11873

Client Sample ID: HAM-PT7-09-12-UNF
Prep Type: Total Recoverable
Prep Batch: 11740

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	0.022		0.100	0.106		mg/L		84	75 - 125	2	20

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 705-11600/1-A
Matrix: Water
Analysis Batch: 11804

Client Sample ID: Method Blank
Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic, Dissolved	ND		0.0050	0.0013	mg/L			09/13/24 12:28	1
Iron, Dissolved	ND		0.040	0.018	mg/L			09/13/24 12:28	1

Lab Sample ID: LCS 705-11600/2-A
Matrix: Water
Analysis Batch: 11804

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Arsenic, Dissolved			0.100	0.0815		mg/L		81	80 - 120		
Iron, Dissolved			1.00	0.885		mg/L		88	80 - 120		

Lab Sample ID: LCSD 705-11600/3-A
Matrix: Water
Analysis Batch: 11804

Client Sample ID: Lab Control Sample Dup
Prep Type: Dissolved

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic, Dissolved			0.100	0.0828		mg/L		83	80 - 120	2	20
Iron, Dissolved			1.00	0.889		mg/L		89	80 - 120	0	20

Lab Chronicle

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-7006-1

Client Sample ID: HAM-PT7-09-12-FIL

Lab Sample ID: 705-7006-1

Date Collected: 09/12/24 10:50
Matrix: Water
Date Received: 09/13/24 10:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Analysis	6020B		1	11804	AD	EET ATL	09/13/24 12:35

Client Sample ID: HAM-PT7-09-12-UNF

Lab Sample ID: 705-7006-2

Date Collected: 09/12/24 10:50
Matrix: Water
Date Received: 09/13/24 10:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3010A			11749	SA	EET ATL	09/13/24 11:07
Total/NA	Analysis	6010D		1	11792	DS	EET ATL	09/13/24 12:21
Total Recoverable	Prep	3005A			11739	BL	EET ATL	09/13/24 10:25
Total Recoverable	Analysis	6020B		1	11805	AD	EET ATL	09/13/24 12:47
Total Recoverable	Prep	3005A			11740	BL	EET ATL	09/13/24 10:49
Total Recoverable	Analysis	6020B		1	11873	AD	EET ATL	09/13/24 16:05

Client Sample ID: HAM-PT14-09-12-FIL

Lab Sample ID: 705-7006-3

Date Collected: 09/12/24 11:45
Matrix: Water
Date Received: 09/13/24 10:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Analysis	6020B		1	11804	AD	EET ATL	09/13/24 12:38

Client Sample ID: HAM-PT14-09-12-UNF

Lab Sample ID: 705-7006-4

Date Collected: 09/12/24 11:45
Matrix: Water
Date Received: 09/13/24 10:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3010A			11749	SA	EET ATL	09/13/24 11:07
Total/NA	Analysis	6010D		1	11792	DS	EET ATL	09/13/24 12:24
Total Recoverable	Prep	3005A			11739	BL	EET ATL	09/13/24 10:25
Total Recoverable	Analysis	6020B		1	11805	AD	EET ATL	09/13/24 12:49
Total Recoverable	Prep	3005A			11740	BL	EET ATL	09/13/24 10:49
Total Recoverable	Analysis	6020B		1	11873	AD	EET ATL	09/13/24 16:17

Laboratory References:

EET ATL = Eurofins Atlanta, 3080 Presidential Dr, Atlanta, GA 30340, TEL (770)457-8177

Accreditation/Certification Summary

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-7006-1

Laboratory: Eurofins Atlanta

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E87582	06-30-25

Method Summary

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-7006-1

Method	Method Description	Protocol	Laboratory
6010D	Metals (ICP)	SW846	EET ATL
6020B	Metals (ICP/MS)	SW846	EET ATL
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET ATL
3010A	Preparation, Total Metals	SW846	EET ATL

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET ATL = Eurofins Atlanta, 3080 Presidential Dr, Atlanta, GA 30340, TEL (770)457-8177

Sample Summary

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-7006-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
705-7006-1	HAM-PT7-09-12-FIL	Water	09/12/24 10:50	09/13/24 10:02
705-7006-2	HAM-PT7-09-12-UNF	Water	09/12/24 10:50	09/13/24 10:02
705-7006-3	HAM-PT14-09-12-FIL	Water	09/12/24 11:45	09/13/24 10:02
705-7006-4	HAM-PT14-09-12-UNF	Water	09/12/24 11:45	09/13/24 10:02

Login Sample Receipt Checklist

Client: Geosyntec Consultants Inc

Job Number: 705-7006-1

Login Number: 7006

List Source: Eurofins Atlanta

List Number: 1

Creator: Ince, Sadie-Jane

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	False	Limited volume received for dissolved metals
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

END OF REPORT

ANALYTICAL REPORT

PREPARED FOR

Attn: Kip Gray
Geosyntec Consultants Inc
1255 Roberts Blvd. NW
Suite 200
Kennesaw, Georgia 30144

Generated 9/24/2024 2:51:16 PM

JOB DESCRIPTION

Plant Hammond

JOB NUMBER

705-7790-1

Eurofins Atlanta
3080 Presidential Dr
Atlanta GA 30340

See page two for job notes and contact information.

my EOL

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization

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Authorized for release by
David Fuller, Project Manager
David.Fuller@et.eurofinsus.com
(770)344-8986

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Definitions/Glossary

Client: Geosyntec Consultants Inc
Job ID: 705-7790-1
Project/Site: Plant Hammond

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Eurofins Atlanta
3080 Presidential Dr
Atlanta, GA 30340
Phone: 770-457-8177 Fax: 770-457-8188

Chain of Custody Record

eurofins Environment Testing

Client Information	Sampler: Ali Akbari	Lab PM: Fuller, David	Carrier Tracking No(s):	COC No: 705-4071-1881.3
Client Contact: Kip Gray	Phone:	E-Mail: David.Fuller@et.eurofinsus.com	State of Origin:	Page: Page 3 of 8
Company: Geosyntec Consultants Inc	PWSID:			Job #:
Address: 1255 Roberts Blvd. NW Suite 200	Due Date Requested:			
City: Kennesaw	TAT Requested (days): Same Day			
State, Zip: GA, 30144	Compliance Project: Δ Yes Δ No			
Phone:	PO #: 100061163			
Email: Kip.Gray@Geosyntec.com	WO #: Project# GW6581G			
Project Name: Plant Hammond	Project #: 70500911			
Site:	SSOW#:			

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010C - Boron, Iron - No metal Prep	6020E - Arsenic - No metal Prep	6020E - Total Arsenic	6020E - Dissolved Arsenic (Iron	Total Number of containers	Special Instructions/Note:
Preservation Code:												
HAM-PT14-09-20-FIL	09-20-24	1005	G	Water	Y					X		
HAM-PT14-09-20-UNF	09-20-24	1005	G	Water	N		X	X	X			
				Water								
				Water								
				Water								
				Water								
				Water								
				Water								
				Water								
				Water								
				Water								
				Water								

Preservation Codes:

705-7790 COC

Other:

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	9/20/24 1623	Geosyntec	Anna Neal	9-20-24 1623	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 2.4°C #2665

Job ID: 705-7790-1 — Eurofins Atlanta

Job Narrative
705-7790-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Receipt
The samples were received on 9/20/2024 4:23 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.4°C.

Metals
Method 6010D: A deviation from the Standard Operating Procedure (SOP) was authorized by client request. Samples were not processed by prep method 3010A and analyzed straight from the bottle.

Method 6020B - Total Recoverable: A deviation from the Standard Operating Procedure (SOP) was authorized by client request: Samples with a prep date & time of 9/23/24 @ 10:19 were not processed by prep method 3005A and analyzed straight from the bottle.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-7790-1

Client Sample ID: HAM-PT14-09-20-FIL

Lab Sample ID: 705-7790-1

Date Collected: 09/20/24 10:05

Matrix: Water

Date Received: 09/20/24 16:23

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic, Dissolved	0.0067		0.0050	0.0013	mg/L			09/23/24 15:59	1
Iron, Dissolved	1.5		0.040	0.018	mg/L			09/23/24 15:59	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-7790-1

Client Sample ID: HAM-PT14-09-20-UNF

Lab Sample ID: 705-7790-2

Date Collected: 09/20/24 10:05

Matrix: Water

Date Received: 09/20/24 16:23

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.58		0.040	0.026	mg/L		09/23/24 10:11	09/23/24 11:39	1
Iron	1.8		0.10	0.035	mg/L		09/23/24 10:11	09/23/24 11:39	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0069		0.0050	0.0013	mg/L		09/23/24 10:19	09/23/24 14:07	1
Arsenic	0.0078		0.0050	0.0013	mg/L		09/23/24 10:40	09/23/24 17:50	1

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 705-13058/1-A
Matrix: Water
Analysis Batch: 13250

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 13058

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0050	0.0013	mg/L		09/23/24 10:40	09/23/24 17:43	1

Lab Sample ID: LCS 705-13058/2-A
Matrix: Water
Analysis Batch: 13250

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 13058

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.100	0.0979		mg/L		98	80 - 120

Lab Sample ID: 705-7847-A-5-D MS
Matrix: Water
Analysis Batch: 13250

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 13058

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.0078		0.100	0.104		mg/L		96	75 - 125

Lab Sample ID: 705-7847-A-5-E MSD
Matrix: Water
Analysis Batch: 13250

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 13058

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	0.0078		0.100	0.104		mg/L		97	75 - 125	0	20

Lab Sample ID: MB 705-13047/1-A
Matrix: Water
Analysis Batch: 13192

Client Sample ID: Method Blank
Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic, Dissolved	ND		0.0050	0.0013	mg/L			09/23/24 15:39	1
Iron, Dissolved	ND		0.040	0.018	mg/L			09/23/24 15:39	1

Lab Sample ID: LCS 705-13047/2-A
Matrix: Water
Analysis Batch: 13192

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic, Dissolved	0.100	0.0946		mg/L		95	80 - 120
Iron, Dissolved	1.00	0.966		mg/L		97	80 - 120

Lab Sample ID: 705-7582-A-5 MS
Matrix: Water
Analysis Batch: 13192

Client Sample ID: Matrix Spike
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic, Dissolved	ND		0.100	0.0927		mg/L		93	75 - 125
Iron, Dissolved	ND		1.00	0.959		mg/L		96	75 - 125

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-7790-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 705-7582-A-5 MSD
Matrix: Water
Analysis Batch: 13192

Client Sample ID: Matrix Spike Duplicate
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic, Dissolved	ND		0.100	0.0899		mg/L		90	75 - 125	3	20
Iron, Dissolved	ND		1.00	0.908		mg/L		91	75 - 125	5	20

Lab Chronicle

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-7790-1

Client Sample ID: HAM-PT14-09-20-FIL

Lab Sample ID: 705-7790-1

Date Collected: 09/20/24 10:05
Matrix: Water
Date Received: 09/20/24 16:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Analysis	6020B		1	13192	IF	EET ATL	09/23/24 15:59

Client Sample ID: HAM-PT14-09-20-UNF

Lab Sample ID: 705-7790-2

Date Collected: 09/20/24 10:05
Matrix: Water
Date Received: 09/20/24 16:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3010A			13055	SA	EET ATL	09/23/24 10:11
Total/NA	Analysis	6010D		1	13095	DAB	EET ATL	09/23/24 11:39
Total Recoverable	Prep	3005A			13057	SA	EET ATL	09/23/24 10:19
Total Recoverable	Analysis	6020B		1	13154	AD	EET ATL	09/23/24 14:07
Total Recoverable	Prep	3005A			13058	BR	EET ATL	09/23/24 10:40
Total Recoverable	Analysis	6020B		1	13250	AD	EET ATL	09/23/24 17:50

Laboratory References:

EET ATL = Eurofins Atlanta, 3080 Presidential Dr, Atlanta, GA 30340, TEL (770)457-8177

Accreditation/Certification Summary

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-7790-1

Laboratory: Eurofins Atlanta

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E87582	06-30-25

Method Summary

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-7790-1

Method	Method Description	Protocol	Laboratory
6010D	Metals (ICP)	SW846	EET ATL
6020B	Metals (ICP/MS)	SW846	EET ATL
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET ATL
3010A	Preparation, Total Metals	SW846	EET ATL

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET ATL = Eurofins Atlanta, 3080 Presidential Dr, Atlanta, GA 30340, TEL (770)457-8177

Sample Summary

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-7790-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
705-7790-1	HAM-PT14-09-20-FIL	Water	09/20/24 10:05	09/20/24 16:23
705-7790-2	HAM-PT14-09-20-UNF	Water	09/20/24 10:05	09/20/24 16:23

Login Sample Receipt Checklist

Client: Geosyntec Consultants Inc

Job Number: 705-7790-1

Login Number: 7790

List Source: Eurofins Atlanta

List Number: 1

Creator: Ince, Sadie-Jane

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	False	Limited volume received.
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

END OF REPORT

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Kip Gray
Geosyntec Consultants Inc
1255 Roberts Blvd. NW
Suite 200
Kennesaw, Georgia 30144

Generated 9/24/2024 3:15:01 PM

JOB DESCRIPTION

Plant Hammond

JOB NUMBER

705-7847-1

Eurofins Atlanta
3080 Presidential Dr
Atlanta GA 30340

See page two for job notes and contact information.

my EOL

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

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Authorized for release by
David Fuller, Project Manager
David.Fuller@et.eurofinsus.com
(770)344-8986

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Definitions/Glossary

Client: Geosyntec Consultants Inc
Job ID: 705-7847-1
Project/Site: Plant Hammond

Qualifiers

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Eurofins Atlanta
3080 Presidential Dr
Atlanta, GA 30340
Phone: 770-457-8177 Fax: 770-457-8188

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Ali Akbari	Lab PM: Fuller, David	Carrier Tracking No(s):	COC No: 705-4071-1881.4
Client Contact: Kip Gray	Phone: 6209222705	E-Mail: David.Fuller@et.eurofinsus.com	State of Origin:	Page: Page 4 of 8
Company: Geosyntec Consultants Inc	PWSID:	Analysis Requested		Job #:
Address: 1255 Roberts Blvd. NW Suite 200	Due Date Requested:			Preservation Codes:
City: Kennesaw	TAT Requested (days):			
State, Zip: GA, 30144	Compliance Project: Δ Yes Δ No			
Phone:	PO #: 100061163			705-7847 COC
Email: Kip.Gray@Geosyntec.com	WO #: Project# GW6581G			
Project Name: Plant Hammond	Project #: 70500911			Other:
Site:	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Boron, Iron, 6020C / No prep	Arsenic, 6020C / Nomeas prep	Arsenic (total) - 6020C	Arsenic, Iron (dissolved) 6020C	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
HAM-PT7-09-21-UNF	09-21-24	1145	G	Water			X	X	X			
HAM-PT7-09-21-FIL		1145		Water	X					X		
HAM-PT8-09-21-UNF		1430		Water			X	X	X			
HAM-PT8-09-21-FIL		1430		Water	X					X		
HAM-PT13-09-21-UNF		1600		Water			X	X	X			
HAM-PT13-09-21-FIL		1600		Water	X					X		
HAM-PT14-09-21-UNF		1545		Water			X	X	X			
HAM-PT14-09-21-FIL		1545		Water	X					X		
HAM-PT15-09-21-FIL		1015		Water	X					X		
HAM-PT15-09-21-UNF		1015		Water			X	X	X			
				Water								

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment: Courier

Relinquished by:	Date/Time: 9/23/2024 1410	Company: Geosyntec	Received by:	Date/Time: 9-23-24 1550	Company
Relinquished by:	Date/Time: 9-23-24 1155	Company	Received by: Anna Neal	Date/Time: 9-23-24 1155	Company: Euro
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 2.2° #2665

Job Narrative
705-7847-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Receipt
The samples were received on 9/23/2024 11:55 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.2°C.

Metals
Method 6010D: A deviation from the Standard Operating Procedure (SOP) was authorized by client request. Samples were not processed by prep method 3010A and analyzed straight from the bottle.

Method 6020B - Total Recoverable: A deviation from the Standard Operating Procedure (SOP) was authorized by client request: Samples with a prep date & time of 9/23/24 @ 12:52 were not processed by prep method 3005A and analyzed straight from the bottle.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-7847-1

Client Sample ID: HAM-PT7-09-21-UNF

Lab Sample ID: 705-7847-1

Date Collected: 09/21/24 11:45

Matrix: Water

Date Received: 09/23/24 11:55

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.46		0.040	0.026	mg/L		09/23/24 12:38	09/23/24 16:08	1
Iron	0.13		0.10	0.035	mg/L		09/23/24 12:38	09/23/24 16:08	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.010		0.0050	0.0013	mg/L		09/23/24 13:10	09/23/24 17:59	1
Arsenic	0.0092		0.0050	0.0013	mg/L		09/23/24 12:52	09/23/24 14:09	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-7847-1

Client Sample ID: HAM-PT7-09-21-FIL
Date Collected: 09/21/24 11:45
Date Received: 09/23/24 11:55

Lab Sample ID: 705-7847-2
Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic, Dissolved	**0.0073**		0.0050	0.0013	mg/L			09/23/24 16:03	1
Iron, Dissolved	ND		0.040	0.018	mg/L			09/23/24 16:03	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-7847-1

Client Sample ID: HAM-PT8-09-21-UNF

Lab Sample ID: 705-7847-3

Date Collected: 09/21/24 14:30

Matrix: Water

Date Received: 09/23/24 11:55

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.64		0.040	0.026	mg/L		09/23/24 12:38	09/23/24 16:11	1
Iron	0.46		0.10	0.035	mg/L		09/23/24 12:38	09/23/24 16:11	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.019		0.0050	0.0013	mg/L		09/23/24 13:10	09/23/24 18:02	1
Arsenic	0.020		0.0050	0.0013	mg/L		09/23/24 12:52	09/23/24 14:11	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-7847-1

Client Sample ID: HAM-PT8-09-21-FIL
Date Collected: 09/21/24 14:30
Date Received: 09/23/24 11:55

Lab Sample ID: 705-7847-4
Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic, Dissolved	0.0055		0.0050	0.0013	mg/L			09/23/24 16:43	1
Iron, Dissolved	0.056		0.040	0.018	mg/L			09/23/24 16:43	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-7847-1

Client Sample ID: HAM-PT13-09-21-UNF

Lab Sample ID: 705-7847-5

Date Collected: 09/21/24 16:00

Matrix: Water

Date Received: 09/23/24 11:55

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.50		0.040	0.026	mg/L		09/23/24 12:38	09/23/24 16:19	1
Iron	1.7		0.10	0.035	mg/L		09/23/24 12:38	09/23/24 16:19	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0078		0.0050	0.0013	mg/L		09/23/24 13:10	09/23/24 17:57	1
Arsenic	0.0069		0.0050	0.0013	mg/L		09/23/24 12:52	09/23/24 14:14	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-7847-1

Client Sample ID: HAM-PT13-09-21-FIL
Date Collected: 09/21/24 16:00
Date Received: 09/23/24 11:55

Lab Sample ID: 705-7847-6
Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic, Dissolved	0.0028	J	0.0050	0.0013	mg/L			09/23/24 16:39	1
Iron, Dissolved	0.74		0.040	0.018	mg/L			09/23/24 16:39	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-7847-1

Client Sample ID: HAM-PT14-09-21-UNF

Lab Sample ID: 705-7847-7

Date Collected: 09/21/24 15:45

Matrix: Water

Date Received: 09/23/24 11:55

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.58		0.040	0.026	mg/L		09/23/24 12:38	09/23/24 16:22	1
Iron	3.3		0.10	0.035	mg/L		09/23/24 12:38	09/23/24 16:22	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0087		0.0050	0.0013	mg/L		09/23/24 13:10	09/23/24 18:04	1
Arsenic	0.0090		0.0050	0.0013	mg/L		09/23/24 12:52	09/23/24 14:16	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-7847-1

Client Sample ID: HAM-PT14-09-21-FIL

Lab Sample ID: 705-7847-8

Date Collected: 09/21/24 15:45

Matrix: Water

Date Received: 09/23/24 11:55

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic, Dissolved	0.0078		0.0050	0.0013	mg/L			09/23/24 16:07	1
Iron, Dissolved	2.8		0.040	0.018	mg/L			09/23/24 16:07	1

Client Sample Results

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-7847-1

Client Sample ID: HAM-PT15-09-21-FIL

Lab Sample ID: 705-7847-9

Date Collected: 09/21/24 10:15

Matrix: Water

Date Received: 09/23/24 11:55

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic, Dissolved	0.0052		0.0050	0.0013	mg/L			09/23/24 16:11	1
Iron, Dissolved	0.031	J	0.040	0.018	mg/L			09/23/24 16:11	1

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-7847-1

Client Sample ID: HAM-PT15-09-21-UNF

Lab Sample ID: 705-7847-10

Date Collected: 09/21/24 10:15

Matrix: Water

Date Received: 09/23/24 11:55

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.63		0.040	0.026	mg/L		09/23/24 12:38	09/23/24 16:25	1
Iron	0.090	J	0.10	0.035	mg/L		09/23/24 12:38	09/23/24 16:25	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0062		0.0050	0.0013	mg/L		09/23/24 13:10	09/23/24 18:06	1
Arsenic	0.0066		0.0050	0.0013	mg/L		09/23/24 12:52	09/23/24 14:18	1

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 705-13058/1-A
Matrix: Water
Analysis Batch: 13250

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 13058

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0050	0.0013	mg/L		09/23/24 10:40	09/23/24 17:43	1

Lab Sample ID: LCS 705-13058/2-A
Matrix: Water
Analysis Batch: 13250

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 13058

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.100	0.0979		mg/L		98	80 - 120

Lab Sample ID: 705-7847-5 MS
Matrix: Water
Analysis Batch: 13250

Client Sample ID: HAM-PT13-09-21-UNF
Prep Type: Total Recoverable
Prep Batch: 13058

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.0078		0.100	0.104		mg/L		96	75 - 125

Lab Sample ID: 705-7847-5 MSD
Matrix: Water
Analysis Batch: 13250

Client Sample ID: HAM-PT13-09-21-UNF
Prep Type: Total Recoverable
Prep Batch: 13058

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	0.0078		0.100	0.104		mg/L		97	75 - 125	0	20

Lab Sample ID: MB 705-13047/1-A
Matrix: Water
Analysis Batch: 13192

Client Sample ID: Method Blank
Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic, Dissolved	ND		0.0050	0.0013	mg/L			09/23/24 15:39	1
Iron, Dissolved	ND		0.040	0.018	mg/L			09/23/24 15:39	1

Lab Sample ID: LCS 705-13047/2-A
Matrix: Water
Analysis Batch: 13192

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic, Dissolved	0.100	0.0946		mg/L		95	80 - 120
Iron, Dissolved	1.00	0.966		mg/L		97	80 - 120

Lab Sample ID: 705-7582-A-5 MS
Matrix: Water
Analysis Batch: 13192

Client Sample ID: Matrix Spike
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic, Dissolved	ND		0.100	0.0927		mg/L		93	75 - 125
Iron, Dissolved	ND		1.00	0.959		mg/L		96	75 - 125

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-7847-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 705-7582-A-5 MSD
Matrix: Water
Analysis Batch: 13192

Client Sample ID: Matrix Spike Duplicate
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic, Dissolved	ND		0.100	0.0899		mg/L		90	75 - 125	3	20
Iron, Dissolved	ND		1.00	0.908		mg/L		91	75 - 125	5	20

Lab Chronicle

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-7847-1

Client Sample ID: HAM-PT7-09-21-UNF

Lab Sample ID: 705-7847-1

Date Collected: 09/21/24 11:45

Matrix: Water

Date Received: 09/23/24 11:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3010A			13055	SA	EET ATL	09/23/24 12:38
Total/NA	Analysis	6010D		1	13168	DAB	EET ATL	09/23/24 16:08
Total Recoverable	Prep	3005A			13057	SA	EET ATL	09/23/24 12:52
Total Recoverable	Analysis	6020B		1	13154	AD	EET ATL	09/23/24 14:09
Total Recoverable	Prep	3005A			13058	BR	EET ATL	09/23/24 13:10
Total Recoverable	Analysis	6020B		1	13250	AD	EET ATL	09/23/24 17:59

Client Sample ID: HAM-PT7-09-21-FIL

Lab Sample ID: 705-7847-2

Date Collected: 09/21/24 11:45

Matrix: Water

Date Received: 09/23/24 11:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Analysis	6020B		1	13192	IF	EET ATL	09/23/24 16:03

Client Sample ID: HAM-PT8-09-21-UNF

Lab Sample ID: 705-7847-3

Date Collected: 09/21/24 14:30

Matrix: Water

Date Received: 09/23/24 11:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3010A			13055	SA	EET ATL	09/23/24 12:38
Total/NA	Analysis	6010D		1	13168	DAB	EET ATL	09/23/24 16:11
Total Recoverable	Prep	3005A			13057	SA	EET ATL	09/23/24 12:52
Total Recoverable	Analysis	6020B		1	13154	AD	EET ATL	09/23/24 14:11
Total Recoverable	Prep	3005A			13058	BR	EET ATL	09/23/24 13:10
Total Recoverable	Analysis	6020B		1	13250	AD	EET ATL	09/23/24 18:02

Client Sample ID: HAM-PT8-09-21-FIL

Lab Sample ID: 705-7847-4

Date Collected: 09/21/24 14:30

Matrix: Water

Date Received: 09/23/24 11:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Analysis	6020B		1	13192	IF	EET ATL	09/23/24 16:43

Client Sample ID: HAM-PT13-09-21-UNF

Lab Sample ID: 705-7847-5

Date Collected: 09/21/24 16:00

Matrix: Water

Date Received: 09/23/24 11:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3010A			13055	SA	EET ATL	09/23/24 12:38
Total/NA	Analysis	6010D		1	13168	DAB	EET ATL	09/23/24 16:19
Total Recoverable	Prep	3005A			13057	SA	EET ATL	09/23/24 12:52
Total Recoverable	Analysis	6020B		1	13154	AD	EET ATL	09/23/24 14:14
Total Recoverable	Prep	3005A			13058	BR	EET ATL	09/23/24 13:10
Total Recoverable	Analysis	6020B		1	13250	AD	EET ATL	09/23/24 17:57

Lab Chronicle

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-7847-1

Client Sample ID: HAM-PT13-09-21-FIL
Lab Sample ID: 705-7847-6
Date Collected: 09/21/24 16:00
Matrix: Water
Date Received: 09/23/24 11:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Analysis	6020B		1	13192	IF	EET ATL	09/23/24 16:39

Client Sample ID: HAM-PT14-09-21-UNF
Lab Sample ID: 705-7847-7
Date Collected: 09/21/24 15:45
Matrix: Water
Date Received: 09/23/24 11:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3010A			13055	SA	EET ATL	09/23/24 12:38
Total/NA	Analysis	6010D		1	13168	DAB	EET ATL	09/23/24 16:22
Total Recoverable	Prep	3005A			13057	SA	EET ATL	09/23/24 12:52
Total Recoverable	Analysis	6020B		1	13154	AD	EET ATL	09/23/24 14:16
Total Recoverable	Prep	3005A			13058	BR	EET ATL	09/23/24 13:10
Total Recoverable	Analysis	6020B		1	13250	AD	EET ATL	09/23/24 18:04

Client Sample ID: HAM-PT14-09-21-FIL
Lab Sample ID: 705-7847-8
Date Collected: 09/21/24 15:45
Matrix: Water
Date Received: 09/23/24 11:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Analysis	6020B		1	13192	IF	EET ATL	09/23/24 16:07

Client Sample ID: HAM-PT15-09-21-FIL
Lab Sample ID: 705-7847-9
Date Collected: 09/21/24 10:15
Matrix: Water
Date Received: 09/23/24 11:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Dissolved	Analysis	6020B		1	13192	IF	EET ATL	09/23/24 16:11

Client Sample ID: HAM-PT15-09-21-UNF
Lab Sample ID: 705-7847-10
Date Collected: 09/21/24 10:15
Matrix: Water
Date Received: 09/23/24 11:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3010A			13055	SA	EET ATL	09/23/24 12:38
Total/NA	Analysis	6010D		1	13168	DAB	EET ATL	09/23/24 16:25
Total Recoverable	Prep	3005A			13057	SA	EET ATL	09/23/24 12:52
Total Recoverable	Analysis	6020B		1	13154	AD	EET ATL	09/23/24 14:18
Total Recoverable	Prep	3005A			13058	BR	EET ATL	09/23/24 13:10
Total Recoverable	Analysis	6020B		1	13250	AD	EET ATL	09/23/24 18:06

Laboratory References:

EET ATL = Eurofins Atlanta, 3080 Presidential Dr, Atlanta, GA 30340, TEL (770)457-8177

Accreditation/Certification Summary

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-7847-1

Laboratory: Eurofins Atlanta

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E87582	06-30-25

Method Summary

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-7847-1

Method	Method Description	Protocol	Laboratory
6010D	Metals (ICP)	SW846	EET ATL
6020B	Metals (ICP/MS)	SW846	EET ATL
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET ATL
3010A	Preparation, Total Metals	SW846	EET ATL

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET ATL = Eurofins Atlanta, 3080 Presidential Dr, Atlanta, GA 30340, TEL (770)457-8177

Sample Summary

Client: Geosyntec Consultants Inc
Project/Site: Plant Hammond

Job ID: 705-7847-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
705-7847-1	HAM-PT7-09-21-UNF	Water	09/21/24 11:45	09/23/24 11:55
705-7847-2	HAM-PT7-09-21-FIL	Water	09/21/24 11:45	09/23/24 11:55
705-7847-3	HAM-PT8-09-21-UNF	Water	09/21/24 14:30	09/23/24 11:55
705-7847-4	HAM-PT8-09-21-FIL	Water	09/21/24 14:30	09/23/24 11:55
705-7847-5	HAM-PT13-09-21-UNF	Water	09/21/24 16:00	09/23/24 11:55
705-7847-6	HAM-PT13-09-21-FIL	Water	09/21/24 16:00	09/23/24 11:55
705-7847-7	HAM-PT14-09-21-UNF	Water	09/21/24 15:45	09/23/24 11:55
705-7847-8	HAM-PT14-09-21-FIL	Water	09/21/24 15:45	09/23/24 11:55
705-7847-9	HAM-PT15-09-21-FIL	Water	09/21/24 10:15	09/23/24 11:55
705-7847-10	HAM-PT15-09-21-UNF	Water	09/21/24 10:15	09/23/24 11:55

Login Sample Receipt Checklist

Client: Geosyntec Consultants Inc

Job Number: 705-7847-1

Login Number: 7847

List Source: Eurofins Atlanta

List Number: 1

Creator: Pomuti, Carmen

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

END OF REPORT

Field Sampling Forms

Geosyntec consultants

GROUNDWATER SAMPLING LOG SHEET

Client: GP
Site: Plant Hammond
Well ID: PT-13
Total Depth (ft): 45
Depth to Water (ft): 28.70
Well Diameter (in): 2
Well Volume (gal) = 0.041d²h: 2.67 g
Well Volume (L) = gal * 3.785:
d = well diameter (inches); h = length of water column (feet)
Well Type: (Flush) Stick Up
Well Lock: Yes (No)
Well Cap Condition: (Good) Replace
Well Tag Present: Yes No

Project No.:
Location:
Pump Type/Model: Bladder
Tubing Material: Poly
Pump Intake Depth (ft): 40
Start/Stop Purge Time: 0950 / 1300
Purge Rate (mL/min): 300
Total Purge Volume (L):
Purge Method: Low-Flow Well Volume Other:
Sampling Method: Pump Discharge Other:

Sampling Date: 9/10/24
Sampler's Name: A. Akbar
Sample Collection Time: 1245
Sample Purge Rate (mL/min): 300
Sample ID: HAM-PT-13-09-10
Laboratory Analyses: Total Boron
Total As/Fe
Dissolved As/Fe
QA/QC Collected? NO
QA/QC I.D.

All sample containers requiring chemical preservation properly preserved prior to demob from well? Yes No

Time	pH (SU)	Spec. Cond. (µS/cm)	ORP (mV)	DO (mg/L)	Temp. (°C)	Turbidity (NTUs)	DTW (ft btoc)	Purge Rate (mL/min)	Purged Volume (L)	Notes (Purge method, water clarity, odor, purge rate, issues with pump/well/weather/etc.)
0958	6.77	0.00	69.8	6.85	30.75	1000+		300		
1003	6.90	751.62	53.4	8.09	20.58	1000+		300		
1033	6.65	772.10	43.8	4.18	19.98	1000+		300		
1103	6.62	772.78	34.8	3.94	20.12	1000+		300		
1133	6.58	776.34	25.1	3.56	20.20	1000+		300		
1203	6.59	778.42	22.1	3.18	20.30	1000+		300		
1233	6.56	779.86	16.3	2.64	20.38	1000+		300		Unfiltered
1248	6.56	781.46	12.3	2.69	20.48	712		300		Fe: 4x 3 mg/L, Fe^{2+}: 4x 0-0.5 mg/L Low Range As: 8 mg/L (10x) High Range As: 50 mg/L
										Filtered Fe: 2 mg/L, Fe^{2+}: 1.8 mg/L Low Range As: 4x 10 mg/L High Range As: 40 mg/L
Stabilizing Criteria	+/- 0.1 SU	+/- 5%		0.2 mg/L or 10% for DO > 0.5 mg/L (whichever is greater)		< 5 NTUs	< 0.3 ft	> 100 mL < 250 mL	> 3L	

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GROUNDWATER SAMPLING LOG SHEET

Client: GP
Site: Plant Hammond
Well ID: PT-07
Total Depth (ft): 47.6
Depth to Water (ft): 29.10
Well Diameter (in): 2
Well Volume (gal) = 0.041d²h: 3.0
Well Volume (L) = gal * 3.785:
d = well diameter (inches); h = length of water column (feet)
Well Type: (Flush) ~~Stick Up~~
Well Lock: Yes (No)
Well Cap Condition: (Good) Replace
Well Tag Present: Yes No

Project No.:
Location:
Pump Type/Model: Bladder
Tubing Material: POLY
Pump Intake Depth (ft): 42.6
Start/Stop Purge Time: 0906 / 1300
Purge Rate (mL/min): 300
Total Purge Volume (L):
Purge Method: Low-Flow Well Volume Other:
Sampling Method: Pump Discharge Other:

Sampling Date: 9/10/24
Samplers Name: A. Akbari
Sample Collection Time: (i) 1045 (ii) 1235
Sample Purge Rate (mL/min):
Sample ID: HAM-PT-07-0910
Laboratory Analyses: Total Boron
Total As and Fe
Dissolved As/Fe
QA/QC Collected? NO
QA/QC I.D.

All sample containers requiring chemical preservation properly preserved prior to demob from well? Yes No

Time	pH (SU)	Spec. Cond. (µS/cm)	ORP (mV)	DO (mg/L)	Temp. (°C)	Turbidity (NTUs)	DTW (ft btoc)	Purge Rate (mL/min)	Purged Volume (L)	Notes (Purge method, water clarity, odor, purge rate, issues with pump/well/weather/etc.)
0914	7.04	779.73	61.1	7.02	19.69	1000+		300		(i) → 1245 Sample
0919	7.06	766.22	57.6	6.01	20.35	1000+		300		Unfiltered
0949	7.09	744.29	57.9	6.04	21.16	1000+		300		Fe: 1.25 mg/L, Fe2+: 0 mg/L
1019	7.08	750.14	59.4	6.37	20.99	1000+		300		Low Range As: 6 mg/L (10X)
1045	7.03	722.53	58.9	5.94	22.83	1000+		300		High Range As: 50 mg/L
1235	6.78	~~1093.5~~ 762.91 (AF)	29.5	5.86	20.24	101		300		Filtered Fe: 2 mg/L, Fe2+: 0 mg/L Low Range As: not run High Range As: 10 mg/L
Stabilizing Criteria	**+/- 0.1 SU**	**+/- 5%**		0.2 mg/L or 10% for DO > 0.5 mg/L (whichever is greater)		**< 5 NTUs**	**< 0.3 ft**	**> 100 mL < 250 mL**	**> 3L**	

Geosyntec consultants

GROUNDWATER SAMPLING LOG SHEET

Client: GP
Site: Plant Hammond
Well ID: PT-07
Total Depth (ft): 47.6
Depth to Water (ft): 30.18
Well Diameter (in): 2
Well Volume (gal) = 0.041d²h: 2.87
Well Volume (L) = gal * 3.785:
d = well diameter (inches); h = length of water column (feet)
Well Type: Flush / Stick Up
Well Lock: Yes / No
Well Cap Condition: Good / Replace
Well Tag Present: Yes / No

Project No.:
Location:
Pump Type/Model: Bladder
Tubing Material: Poly
Pump Intake Depth (ft): 42.6'
Start/Stop Purge Time: 0747 /
Purge Rate (mL/min): 300
Total Purge Volume (L):
Purge Method: Low-Flow (Well Volume) Other:
Sampling Method: Pump Discharge Other:

Sampling Date: 9/11/2024
Samplers Name:
Sample Collection Time: 0950(i) 1045(ii)
Sample Purge Rate (mL/min): 300
Sample ID: HAM-PT-07-0911
Laboratory Analyses:
QA/QC Collected? NO
QA/QC I.D.

All sample containers requiring chemical preservation properly preserved prior to demob from well? Yes No

Time	pH (SU)	Spec. Cond. (µS/cm)	ORP (mV)	DO (mg/L)	Temp. (°C)	Turbidity (NTUs)	DTW (ft btoc)	Purge Rate (mL/min)	Purged Volume (L)	Notes (Purge method, water clarity, odor, purge rate, issues with pump/well/weather/etc.)
0747	6.74	769.42	82.7	9.60	20.83	1000+		300		(i) Unfiltered
0752	7.27	672.14	55.6	9.23	18.65	1000+		200		High Range AS: 40 mg/L
0817	7.28	773.75	37.8	9.59	18.60	546		300		Total Fe: 4 mg/L (2x)
0847	7.27	785.28	37.3	8.43	18.78	246		300		Ferrous Fe: 0 mg/L (2x)
0917	7.22	773.75	39.6	8.29	19.07	511		300		
0947	7.22	763.62	40.1	8.03	19.24	392		300		(i) Filtered
1017	7.23	773.87	40.5	8.58	19.36	181		300		High Range AS: 10 mg/L
1047	7.24	770.05	41.1	8.76	19.30	80.1		300		Total Fe: 0 mg/L
										Ferrous Fe: 0 mg/L
										(ii) Unfiltered
										High Range AS: 30 mg/L
										Total Fe: 1.5 mg/L (2x)
										Ferrous Fe: 0 mg/L (2x)
										(ii) Filtered
										High Range AS: 30 mg/L
										Total Fe: 0 mg/L
										Ferrous Fe: 0 mg/L
Stabilizing Criteria	**+/- 0.1 SU**	**+/- 5%**		0.2 mg/L or 10% for DO > 0.5 mg/L (whichever is greater)		**< 5 NTUs**	**< 0.3 ft**	**> 100 mL < 250 mL**	**> 3L**	

Geosyntec consultants

GROUNDWATER SAMPLING LOG SHEET

Client: GP
Site: Hammond
Well ID: PT-14
Total Depth (ft): 45
Depth to Water (ft):
Well Diameter (in): 2
Well Volume (gal) = 0.041d²h:
Well Volume (L) = gal * 3.785:
d = well diameter (inches); h = length of water column (feet)
Well Type: (Flush) Stick Up
Well Lock: Yes (No)
Well Cap Condition: (Good) Replace
Well Tag Present: Yes No

Project No.:
Location:
Pump Type/Model: Bladder
Tubing Material: Poly
Pump Intake Depth (ft): 40
Start/Stop Purge Time: 1118
Purge Rate (mL/min):
Total Purge Volume (L):
Purge Method: Low-Flow Well Volume Other:
Sampling Method: Pump Discharge Other:

Sampling Date: 9/12/2024
Sampler's Name: A. Akbari
Sample Collection Time: 1145
Sample Purge Rate (mL/min): ~~HA.~~ 300
Sample ID: HAM-PT-14-09-12
Laboratory Analyses:
QA/QC Collected? NO
QA/QC I.D.

All sample containers requiring chemical preservation properly preserved prior to demob from well? Yes No

Time	pH (SU)	Spec. Cond. (µS/cm)	ORP (mV)	DO (mg/L)	Temp. (°C)	Turbidity (NTUs)	DTW (ft btoc)	Purge Rate (mL/min)	Purged Volume (L)	Notes (Purge method, water clarity, odor, purge rate, issues with pump/well/weather/etc.)
1120	6.91	817.72	-58.7	1.30	20.07			300		unfiltered
1125	6.72	839.73	-62.9	0.40	18.71			300		Ferrous: 2-2.5 mg/L (2x)
1130	6.68	841.49	-63.9	0.31	18.62			300		Total: 2.5-3 mg/L (2x)
1135	6.70	836.59	-65.1	0.30	18.84			300		
1140	6.68	842.17	-65.6	0.14	18.68			300		filtered
1145	6.69	843.56	-64.8	0.14	18.60	14.3		300		Ferrous: 3 mg/L (1x)
										Total: 5.5 mg/L (1x)
										Ferrous: 1.5 mg/L (2x)
										Total: 1.5 mg/L (2x)
Stabilizing Criteria	**+/- 0.1 SU**	**+/- 5%**		0.2 mg/L or 10% for DO > 0.5 mg/L (whichever is greater)		**< 5 NTUs**	**< 0.3 ft**	**> 100 mL < 250 mL**	**> 3L**	

Geosyntec consultants

GROUNDWATER SAMPLING LOG SHEET

Client: GP
Site: Hammond
Well ID: PT-07
Total Depth (ft): 47.6
Depth to Water (ft):
Well Diameter (in): 2
Well Volume (gal) = 0.041d²h:
Well Volume (L) = gal * 3.785:
d = well diameter (inches); h = length of water column (feet)
Well Type: (Flush) Stick Up
Well Lock: Yes (No)
Well Cap Condition: (Good) (Replace)
Well Tag Present: Yes No

Project No.:
Location:
Pump Type/Model: Bladder
Tubing Material: PDY
Pump Intake Depth (ft): 42.6
Start/Stop Purge Time: 0916 / 1050
Purge Rate (mL/min): 300
Total Purge Volume (L):
Purge Method: Low-Flow Well Volume Other:
Sampling Method: Pump Discharge Other:

Sampling Date: 9/12/2024
Sampler's Name: A. Akbani
Sample Collection Time: 1050
Sample Purge Rate (mL/min): 300
Sample ID: HAM-PT-07-09-12
Laboratory Analyses:
QA/QC Collected? NO
QA/QC I.D.

All sample containers requiring chemical preservation properly preserved prior to demob from well? Yes No

Time	pH (SU)	Spec. Cond. (µS/cm)	ORP (mV)	DO (mg/L)	Temp. (°C)	Turbidity (NTUs)	DTW (ft btoc)	Purge Rate (mL/min)	Purged Volume (L)	Notes (Purge method, water clarity, odor, purge rate, issues with pump/well/weather/etc.)
0916	7.44	725.19	65.9	10.79	20.87			300		Unfiltered
0921	7.46	694.83	54.9	11.24	18.46			300		Ferrous: 0 mg/L
0946	7.49	727.93	50.2	11.58	18.26			300		Total: 1 mg/L
1016	7.44	737.12	49.4	11.16	18.30	131		300		
1046	7.41	733.66	49.7	10.90	18.31	46.8		300		Filtered
										Ferrous 0 mg/L
										Total: 0 mg/L
Stabilizing Criteria	**+/- 0.1 SU**	**+/- 5%**		0.2 mg/L or 10% for DO > 0.5 mg/L (whichever is greater)		**< 5 NTUs**	**< 0.3 ft**	**> 100 mL < 250 mL**	**> 3L**	

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GROUNDWATER SAMPLING LOG SHEET

Client: GP
Site: Hammond
Well ID: PT-15
Total Depth (ft): 45
Depth to Water (ft):
Well Diameter (in): 2
Well Volume (gal) = 0.041d²h:
Well Volume (L) = gal * 3.785:
d = well diameter (inches); h = length of water column (feet)
Well Type: Flush Stick Up
Well Lock: Yes No
Well Cap Condition: Good Replace
Well Tag Present: Yes No

Project No.:
Location:
Pump Type/Model: Bladder
Tubing Material: Poly
Pump Intake Depth (ft): 40
Start/Stop Purge Time: 1056 / 1130
Purge Rate (mL/min): 300
Total Purge Volume (L):
Purge Method: Low-Flow Well Volume Other:
Sampling Method: Pump Discharge Other:

Sampling Date: 9/13/2024
Sampler's Name: A. Akbari
Sample Collection Time: 1130
Sample Purge Rate (mL/min): 300
Sample ID: HAM-PT-15-09-13
Laboratory Analyses:
QA/QC Collected? NO
QA/QC I.D.

All sample containers requiring chemical preservation properly preserved prior to demob from well? Yes No

Time	pH (SU)	Spec. Cond. (µS/cm)	ORP (mV)	DO (mg/L)	Temp. (°C)	Turbidity (NTUs)	DTW (ft btoc)	Purge Rate (mL/min)	Purged Volume (L)	Notes (Purge method, water clarity, odor, purge rate, issues with pump/well/weather/etc.)
1057	6.61	707.03	40.1	3.57	20.82			300		Filtered
1102	6.68	732.89	36.0	2.26	19.24	110		300		Total Fe: 0.25 mg/L
1107	6.67	740.55	37.7	2.11	18.80	21.0		300		Ferrous: <0.1 mg/L
1112	6.68	735.68	37.5	2.04	18.83	7.56		300		High Range As: 20
1127	6.68	736.90	38.4	1.96	18.86	3.81		300		
										Unfiltered
										Total Fe: 0.25 mg/L
										Ferrous: 0 mg/L
										High Range As: 20
Stabilizing Criteria	**+/- 0.1 SU**	**+/- 5%**		0.2 mg/L or 10% for DO > 0.5 mg/L (whichever is greater)		**< 5 NTUs**	**< 0.3 ft**	**> 100 mL < 250 mL**	**> 3L**	

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GROUNDWATER SAMPLING LOG SHEET

Client: GP
Site: Hammond
Well ID: PT-08
Total Depth (ft): 42.2
Depth to Water (ft):
Well Diameter (in):
Well Volume (gal) = 0.041d²h:
Well Volume (L) = gal * 3.785:
d = well diameter (inches); h = length of water column (feet)
Well Type: Flush Stick Up
Well Lock: Yes No
Well Cap Condition: Good Replace
Well Tag Present: Yes No

Project No.:
Location:
Pump Type/Model: Bladder
Tubing Material: Poly
Pump Intake Depth (ft): 37.2
Start/Stop Purge Time: 0945 / 1050
Purge Rate (mL/min): 300
Total Purge Volume (L):
Purge Method: Low-Flow Well Volume Other:
Sampling Method: Pump Discharge Other:

Sampling Date: 9/13/2024
Sampler's Name: A Akbari
Sample Collection Time: 1050
Sample Purge Rate (mL/min): 300
Sample ID: HAM-PT-08-09-13
Laboratory Analyses:
QA/QC Collected? NO
QA/QC I.D.

All sample containers requiring chemical preservation properly preserved prior to demob from well? Yes No

Time	pH (SU)	Spec. Cond. (µS/cm)	ORP (mV)	DO (mg/L)	Temp. (°C)	Turbidity (NTUs)	DTW (ft btoc)	Purge Rate (mL/min)	Purged Volume (L)	Notes (Purge method, water clarity, odor, purge rate, issues with pump/well/weather/etc.)
0947	6.90	686.11	17.6	7.09	20.81			300		Filtered
0952	6.66	705.25	75.9	4.32	19.04	42.1		300		Ferrous: 0.25 mg/L
1017	6.58	719.46	49.2	2.34	18.81	48.7		300		Total Fe: 0.5 mg/L
1042	6.59	728.70	40.2	2.07	18.66	25.9		300		High range As: 30
										Unfiltered (#1)
										Ferrous: 0 mg/L *
										Total Fe: 0 mg/L *
										High range As: 40
										* Iron testing done 2 hours after sampling due to lightning.
Stabilizing Criteria	**+/- 0.1 SU**	**+/- 5%**		0.2 mg/L or 10% for DO > 0.5 mg/L (whichever is greater)		**< 5 NTUs**	**< 0.3 ft**	**> 100 mL < 250 mL**	**> 3L**	

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GROUNDWATER SAMPLING LOG SHEET

Client: GP
Site: Hammond
Well ID: PT-07
Total Depth (ft): 47.6
Depth to Water (ft):
Well Diameter (in):
Well Volume (gal) = 0.041d²h:
Well Volume (L) = gal * 3.785:
d = well diameter (inches); h = length of water column (feet)
Well Type: Flush Stick Up
Well Lock: Yes No
Well Cap Condition: Good Replace
Well Tag Present: Yes No

Project No.:
Location:
Pump Type/Model: Bladder
Tubing Material: Poly
Pump Intake Depth (ft): 42.6
Start/Stop Purge Time: 0741 / 0845
Purge Rate (mL/min): 300
Total Purge Volume (L):
Purge Method: Low-Flow Well Volume Other:
Sampling Method: Pump Discharge Other:

Sampling Date: 9/13/2024
Sampler's Name: A. Akbari
Sample Collection Time: 0845
Sample Purge Rate (mL/min): 300
Sample ID: HAM-PT-07-09-13
Laboratory Analyses:
QA/QC Collected? NO
QA/QC I.D.

All sample containers requiring chemical preservation properly preserved prior to demob from well? Yes No

Time	pH (SU)	Spec. Cond. (µS/cm)	ORP (mV)	DO (mg/L)	Temp. (°C)	Turbidity (NTUs)	DTW (ft btoc)	Purge Rate (mL/min)	Purged Volume (L)	Notes (Purge method, water clarity, odor, purge rate, issues with pump/well/weather/etc.)
0742	7.14	691.13	43.9	3.02	21.61			300		Filtered
0747	6.76	758.29	55.9	4.51	18.96			300		Ferrous: 0 mg/L
0817	6.73	771.20	43.7	4.15	18.80	79.0		300		Total Fe: 0 mg/L
0842	6.72	768.04	45.0	3.98	18.79	20.3		300		High range As: 10-20
										Unfiltered
										Ferrous: 0 mg/L
										Total Fe: 0.5 mg/L
										High range As: 20
Stabilizing Criteria	**+/- 0.1 SU**	**+/- 5%**		0.2 mg/L or 10% for DO > 0.5 mg/L (whichever is greater)		**< 5 NTUs**	**< 0.3 ft**	**> 100 mL < 250 mL**	**> 3L**	

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GROUNDWATER SAMPLING LOG SHEET

Client: GP
Site: Hammond
Well ID: PT-14
Total Depth (ft):
Depth to Water (ft):
Well Diameter (in): 2
Well Volume (gal) = 0.041d²h:
Well Volume (L) = gal * 3.785:
d = well diameter (inches); h = length of water column (feet)
Well Type: Flush Stick Up
Well Lock: Yes No
Well Cap Condition: Good Replace
Well Tag Present: Yes No

Project No.:
Location:
Pump Type/Model: Bladder
Tubing Material: Poly
Pump Intake Depth (ft):
Start/Stop Purge Time: 0750 / 0930
Purge Rate (mL/min): 160
Total Purge Volume (L):
Purge Method: Low-Flow Well Volume Other:
Sampling Method: Pump Discharge Other:

Sampling Date: 9/13/2024
Sampler's Name: A. Aitken
Sample Collection Time: 0930
Sample Purge Rate (mL/min): 160
Sample ID: HAM-PT-14-09-13
Laboratory Analyses:
QA/QC Collected? NO
QA/QC I.D.

All sample containers requiring chemical preservation properly preserved prior to demob from well? Yes No

Time	pH (SU)	Spec. Cond. (µS/cm)	ORP (mV)	DO (mg/L)	Temp. (°C)	Turbidity (NTUs)	DTW (ft btoc)	Purge Rate (mL/min)	Purged Volume (L)	Notes (Purge method, water clarity, odor, purge rate, issues with pump/well/weather/etc.)
0753	6.81	822.94	-45.0	8.74	22.62			160		Filtered
0758	6.71	830.28	-65.1	2.79	21.10			160		Total Fe: 4.5 (x2)
0823	6.74	840.79	-71.2	1.17	19.42	726		160		Ferrous Fe: 2.25 (x2)
0853	6.76	848.84	-81.0	1.16	18.93	170		160		High Range As: 80-100
0923	6.77	852.73	-81.4	0.73	18.79	47.9		160		
0930	6.77	853.32	-84.5	0.59	18.79	38.8		160		
										unfiltered
										Total Fe: 2.5 (x5)
										Ferrous Fe: 1.5 (x5)
										High Range As: 100-150
Stabilizing Criteria	**+/- 0.1 SU**	**+/- 5%**		0.2 mg/L or 10% for DO > 0.5 mg/L (whichever is greater)		**< 5 NTUs**	**< 0.3 ft**	**> 100 mL < 250 mL**	**> 3L**	

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GROUNDWATER SAMPLING LOG SHEET

Client: GP
Site: Hammond
Well ID: PT-13
Total Depth (ft): 45
Depth to Water (ft):
Well Diameter (in):
Well Volume (gal) = 0.041d²h:
Well Volume (L) = gal * 3.785:
d = well diameter (inches); h = length of water column (feet)
Well Type: Flush Stick Up
Well Lock: Yes No
Well Cap Condition: Good Replace
Well Tag Present: Yes No

Project No.:
Location:
Pump Type/Model: Bladder
Tubing Material: poly
Pump Intake Depth (ft): 40
Start/Stop Purge Time: 0921 / 1615
Purge Rate (mL/min): 300
Total Purge Volume (L):
Purge Method: Low-Flow Well Volume Other:
Sampling Method: Pump Discharge Other:

Sampling Date: 9/13/2024
Sampler's Name: A. Akbari
Sample Collection Time: 1615
Sample Purge Rate (mL/min): 300
Sample ID: HAM-PT-13-09-13
Laboratory Analyses:
QA/QC Collected? NO
QA/QC I.D.

All sample containers requiring chemical preservation properly preserved prior to demob from well? Yes No

Time	pH (SU)	Spec. Cond. (µS/cm)	ORP (mV)	DO (mg/L)	Temp. (°C)	Turbidity (NTUs)	DTW (ft btoc)	Purge Rate (mL/min)	Purged Volume (L)	Notes (Purge method, water clarity, odor, purge rate, issues with pump/well/weather/etc.)
0922	6.94	787.15	51.5	7.72	20.52	over range		300		Filtered
0952	6.63	780.62	41.7	5.19	18.98	overrange		300		Total: 2 mg/L
1022	6.62	777.48	34.1	5.50	18.99			300		Ferrous 1.75 mg/L
1122	6.58	768.29	28.9	4.84	19.07	486		300		High Range As: 5-10
1222	6.57	760.86	30.8	3.94	19.18	413		300		
1322	no	reading	as	iPad	died	231				
1424	6.55	761.36	25.9	2.97	19.28	185		300		Unfiltered
1524	6.54	763.61	21.8	2.66	19.69	141		300		Total: 2.5 mg/L
1615	6.55	765.18	20.6	2.69	19.85	44.3		300		Ferrous 1.5 mg/L
										High Range As: 10-20
Stabilizing Criteria	**+/- 0.1 SU**	**+/- 5%**		0.2 mg/L or 10% for DO > 0.5 mg/L (whichever is greater)		**< 5 NTUs**	**< 0.3 ft**	**> 100 mL < 250 mL**	**> 3L**	

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GROUNDWATER SAMPLING LOG SHEET

Client: SCS
Site: AP-1
Well ID: PT-14
Total Depth (ft): 45
Depth to Water (ft): 28.51
Well Diameter (in): 2
Well Volume (gal) = 0.041d²h: 2.7
Well Volume (L) = gal * 3.785: 10.49
d = well diameter (inches); h = length of water column (feet)
Well Type: (Flush) Stick Up
Well Lock: Yes (No)
Well Cap Condition: (Good) Replace
Well Tag Present: Yes (No)

Project No.: GW16581G
Location: GP plant Hammond
Pump Type/Model: Bladder
Tubing Material: polyethylene
Pump Intake Depth (ft): 340
Start/Stop Purge Time: 835/
Purge Rate (mL/min): 300
Total Purge Volume (L): 27
Purge Method: (Low-Flow) Well Volume Other: ——
Sampling Method: Pump Discharge Other: ——

Sampling Date: 9/20/24
Sampler's Name: J. Newsome
Sample Collection Time: 1005
Sample Purge Rate (mL/min): 300
Sample ID: HAM-PT-14-FIL; UNF
Laboratory Analyses: Metals
QA/QC Collected? No
QA/QC I.D. ——

All sample containers requiring chemical preservation properly preserved prior to demob from well? (Yes) No

Time	pH (SU)	Spec. Cond. (µS/cm)	ORP (mV)	DO (mg/L)	Temp. (°C)	Turbidity (NTUs)	DTW (ft btoc)	Purge Rate (mL/min)	Purged Volume (L)	Notes (Purge method, water clarity, odor, purge rate, issues with pump/well/weather/etc.)
									Ø	
840	6.53	668.83	-11.5	0.75	20.43	5.12	28.51	300	3	
850	6.52	678.57	-31.5	0.46	20.41	4.84	28.51	300	6	
900	6.52	683.58	-38.2	0.46	20.43		28.51	300	9	
910	6.52	688.88	-44.6	0.42	20.43		28.51	300	12	continuing purge in hopes of seeing signs of interface
920	6.53	691.66	-49.1	0.33	20.48		28.51	300	15	
930	6.53	696.87	-52.4	0.33	20.53	2.35	28.51	300	18	
940	6.53	697.52	-54.7	0.25	20.52		28.51	300	21	
950	6.53	699.58	-57.5	0.21	20.61		28.51	300	24	Fe = 12 mg/L
1000	6.54	701.69	-59.7	0.20	20.66		28.51	300	27	grab sample
1005										
							ON 9/20/24			Fin dl Fe = 2.0 mg/L Fe2+ = 20 ug/L
										As high range = 5.0 ppb As low = 7.5
Stabilizing Criteria	**+/- 0.1 SU**	**+/- 5%**		0.2 mg/L or 10% for DO > 0.5 mg/L (whichever is greater)		**< 5 NTUs**	**< 0.3 ft**	**> 100 mL < 250 mL**	**> 3L**	

Geosyntec consultants

GROUNDWATER SAMPLING LOG SHEET

Client: SCS
Site: AP-1
Well ID: PT-07
Total Depth (ft): 45.72
Depth to Water (ft):
Well Diameter (in): 2
Well Volume (gal) = 0.041d²h:
Well Volume (L) = gal * 3.785:
d = well diameter (inches); h = length of water column (feet)

Well Type: (Flush) Stick Up
Well Lock: Yes (No)
Well Cap Condition: (Good) Replace
Well Tag Present: Yes (No)

Project No.: GW0598.G
Location: Plant Hammond
Pump Type/Model: Bladder
Tubing Material: poly
Pump Intake Depth (ft): 40
Start/Stop Purge Time: 1029/1145
Purge Rate (mL/min): 200
Total Purge Volume (L): 12
Purge Method: (Low-Flow) Well Volume Other: —
Sampling Method: (Pump Discharge) Other: —

Sampling Date: 9/21/24
Sampler's Name: J. Newsome
Sample Collection Time: 1145
Sample Purge Rate (mL/min): 200
Sample ID: HAM-PT-07-FIL & HAM-PT-07-UNF
Laboratory Analyses: Metals
QA/QC Collected? No
QA/QC I.D. —

All sample containers requiring chemical preservation properly preserved prior to demob from well? (Yes) No

Time	pH (SU)	Spec. Cond. (µS/cm)	ORP (mV)	DO (mg/L)	Temp. (°C)	Turbidity (NTUs)	DTW (ft btoc)	Purge Rate (mL/min)	Purged Volume (L)	Notes (Purge method, water clarity, odor, purge rate, issues with pump/well/weather/etc.)
1029			~~60.8~~							pre purge
1034	6.95	621.63	67.3	6.73	22.15	119		200	1	
1044	6.86	624.40	62.3	6.51	22.31	33.0		200	2	
1054	6.87	620.37	75.2	6.45	22.19	17.4		200	4	
1104	6.86	620.30	62.8	6.27	22.33	13.1		200	6	
1124	6.86	621.88	63.2	6.17	22.45	10.4		200	10	
1134	6.85	620.75	62.4	6.09	22.55	7.01		200	12	
1145										grab sample
										Fe = Ø
										Fe^{2+} = Ø
										ASL): 2x 7=14 PPb
Stabilizing Criteria	**+/- 0.1 SU**	**+/- 5%**		0.2 mg/L or 10% for DO > 0.5 mg/L (whichever is greater)		**< 5 NTUs**	**< 0.3 ft**	**> 100 mL < 250 mL**	**> 3L**	

DN 9/21/24

Geosyntec consultants

GROUNDWATER SAMPLING LOG SHEET

Client: SCS
Site: 40-1
Well ID: PT-08
Total Depth (ft): 45
Depth to Water (ft):
Well Diameter (in): 2
Well Volume (gal) = 0.041d²h:
Well Volume (L) = gal * 3.785:
d = well diameter (inches); h = length of water column (feet)

Well Type: (Flush) Stick Up
Well Lock: Yes (No)
Well Cap Condition: (Good) Replace
Well Tag Present: Yes (No)

Project No.: GW6581G
Location: GP Plant Hammond
Pump Type/Model: Bladder
Tubing Material: poly
Pump Intake Depth (ft): 40
Start/Stop Purge Time: 1155 /
Purge Rate (mL/min): 300
Total Purge Volume (L):
Purge Method: (Low-Flow) Well Volume Other:
Sampling Method: (Pump Discharge) Other:

Sampling Date: 9/21/24
Sampler's Name: J. Newsome
Sample Collection Time: 1430
Sample Purge Rate (mL/min): 200
Sample ID: HAM-PT-08-FIL HAM-PT-08-UNF
Laboratory Analyses: Metals

QA/QC Collected? NO
QA/QC I.D.

All sample containers requiring chemical preservation properly preserved prior to demob from well? (Yes) No

Time	pH (SU)	Spec. Cond. (µS/cm)	ORP (mV)	DO (mg/L)	Temp. (°C)	Turbidity (NTUs)	DTW (ft btoc)	Purge Rate (mL/min)	Purged Volume (L)	Notes (Purge method, water clarity, odor, purge rate, issues with pump/well/weather/etc.)
1155										pre purge
1200	6.75	595.02	69.1	6.97	22.48	+++ +		300	1	
1210	6.44	598.23	99.5	6.45	21.55	751			3	
1220	6.40	608.33	100.1	5.53	21.73	350			5	
1230	6.59	620.08	99.0	4.71	21.60	198			7	
1240 1250	6.56	631.48	99.6	4.02	21.86	145			11	
1300	6.54	637.36	83.6	3.55	22.04	~~130~~ 123			13	
1310	6.56	637.39	65.4	3.36	22.10	91.7			15	
1320	6.56	644.73	70.9	3.15	21.95	58.6				FIL UNF
1330	6.56	649.09	63.0	2.98	22.13	30.1				Fe X 0.25 mg/L
1340	6.56	648.45	58.2	2.99	22.35	28.0				Fe^{2+} X 0.01 mg/L
1350	6.56	650.64	45.1	2.97	22.40	25.9				As 2x10=20 mg/L
1400	6.56	652.13	42.3	2.77	22.56	~~5.1~~ (RPD)				~~4x6=24~~
1410	6.56	654.15	38.0	2.69	22.55	15.1				
1420	6.57	652.53	35.3	2.65	22.35	10.4				
1430		Sampled								
Stabilizing Criteria	**+/- 0.1 SU**	**+/- 5%**		0.2 mg/L or 10% for DO > 0.5 mg/L (whichever is greater)		**< 5 NTUs**	**< 0.3 ft**	**> 100 mL < 250 mL**	**> 3L**	

Geosyntec consultants

GROUNDWATER SAMPLING LOG SHEET

Client: Hammond
Site: AP-1
Well ID: PT-13
Total Depth (ft): 45
Depth to Water (ft): ~~28.50~~ (APT) 26.56 ft
Well Diameter (in): 2
Well Volume (gal) = 0.041d²h:
Well Volume (L) = gal * 3.785:
d = well diameter (inches); h = length of water column (feet)
Well Type: (Flush) Stick Up
Well Lock: Yes (No)
Well Cap Condition: (Good) Replace
Well Tag Present: Yes No

Project No.:
Location: AP-1
Pump Type/Model: Bladder
Tubing Material: Poly
Pump Intake Depth (ft): 40
Start/Stop Purge Time: 0845/
Purge Rate (mL/min): 300
Total Purge Volume (L):
Purge Method: Low-Flow Well Volume Other:
Sampling Method: Pump Discharge Other:

Sampling Date: 9/21/2024
Sampler's Name: ATomlinson
Sample Collection Time: 1600
Sample Purge Rate (mL/min): 200
Sample ID: HAM-PT-13-09-24
Laboratory Analyses:
QA/QC Collected? NO
QA/QC I.D. —

All sample containers requiring chemical preservation properly preserved prior to demob from well? Yes No

Time	pH (SU)	Spec. Cond. (µS/cm)	ORP (mV)	DO (mg/L)	Temp. (°C)	Turbidity (NTUs)	DTW (ft btoc)	Purge Rate (mL/min)	Purged Volume (L)	Notes (Purge method, water clarity, odor, purge rate, issues with pump/well/weather/etc.)
0855	6.54	692.71	52.4	6.99	20.91	++++		300		
0900	6.54	693.43	71.6	7.16	20.96	++++		300		reset stabilizing criteria
0927	6.55	660.57	40.9	7.68	20.67	++++		300		
0957	6.54	653.60	23.0	7.75	20.78	804		300		
1027	6.55	649.39	15.7	7.86	20.92	325		300		
1057	6.56	648.64	12.2	7.70	21.01	237		300		
1127	6.57	651.98	12.7	7.52	21.09	203		300		
1157	6.51	654.60	13.7	6.45	21.27	427		300		
1227	6.50	654.40	11.1	6.00	21.27	189		300		
1257	6.52	658.17	12.7	6.13	21.40	391		300		
1327	6.51	658.10	13.4	6.19	21.35	576		300		UNF
1357	6.53	658.36	11.8	6.33	21.45	235		300		Fe 2x1=2 mg/L
1427	6.53	659.88	6.3	5.80	21.44	108		300		Fe^{2+} 1x1=1
1457	6.54	658.89	3.3	5.42	21.54	91.1		300		As 2x4.5=9.0
1527	6.50	659.00	3.2	4.88	21.49	40.0		300		
1557						23.7		300		
1600						sampled				
Stabilizing Criteria	**+/- 0.1 SU**	**+/- 5%**		0.2 mg/L or 10% for DO > 0.5 mg/L (whichever is greater)		**< 5 NTUs**	**< 0.3 ft**	**> 100 mL < 250 mL**	**> 3L**	

Geosyntec consultants

GROUNDWATER SAMPLING LOG SHEET

Client: _____
Site: _____
Well ID: PT-14
Total Depth (ft): 45
Depth to Water (ft): _____
Well Diameter (in): _____
Well Volume (gal) = 0.041d²h: _____
Well Volume (L) = gal * 3.785: _____
d = well diameter (inches); h = length of water column (feet)
Well Type: Flush Stick Up
Well Lock: Yes No
Well Cap Condition: Good Replace
Well Tag Present: Yes No

Project No.: _____
Location: _____
Pump Type/Model: Bladder
Tubing Material: poly
Pump Intake Depth (ft): 40
Start/Stop Purge Time: 1447
Purge Rate (mL/min): 300
Total Purge Volume (L): _____
Purge Method: (Low-Flow) Well Volume Other: —
Sampling Method: (Pump Discharge) Other: —

Sampling Date: 9/21/2024
Sampler's Name: A Tommasini
Sample Collection Time: 1545
Sample Purge Rate (mL/min): 300
Sample ID: HAM-PT-14
Laboratory Analyses: Metals
QA/QC Collected? —
QA/QC I.D. —

All sample containers requiring chemical preservation properly preserved prior to demob from well? Yes No

Time	pH (SU)	Spec. Cond. (µS/cm)	ORP (mV)	DO (mg/L)	Temp. (°C)	Turbidity (NTUs)	DTW (ft btoc)	Purge Rate (mL/min)	Purged Volume (L)	Notes (Purge method, water clarity, odor, purge rate, issues with pump/well/weather/etc.)
1447	7.04	0.77	51.4	7.04	34.08	~~19~~ ABS		300		> water not flowing through cell
1452	7.14	0.64	65.7	6.59	37.80	13		300		
1502	6.64	753.60	-84.2	0.12	22.17	—		300		
1512	6.62	756.15	-86.4	0.08	21.86	—		300		
1522	6.62	757.17	-88.5	0.05	21.86	—		300		
1532	6.63	758.64	-89.6	0.04	21.59	~~3~~ Horiba		300		
1542	6.63	765.51	-91.0	.03	21.77	3.46		300		
										UNF
										Fe 1x(3-3.5)= 3.25 mg/L
										Fe2+ 1x3 =3.0
										AS 5x2.0=10 ppb
										AS FIL 4x2.0=8 ppb
Stabilizing Criteria	**+/- 0.1 SU**	**+/- 5%**		0.2 mg/L or 10% for DO > 0.5 mg/L (whichever is greater)		**< 5 NTUs**	**< 0.3 ft**	**> 100 mL < 250 mL**	**> 3L**	

Geosyntec consultants

GROUNDWATER SAMPLING LOG SHEET

Client: TS
Site: ~~#~~ AP-1
Well ID: PT-15
Total Depth (ft): 45
Depth to Water (ft): ~~30~~ 27.14
Well Diameter (in): 2
Well Volume (gal) = 0.041d²h: 2.93
Well Volume (L) = gal * 3.785: 11.09
d = well diameter (inches); h = length of water column (feet)
Well Type: (Flush) Stick Up
Well Lock: Yes (No)
Well Cap Condition: (Good) Replace
Well Tag Present: Yes (No)

Project No.: GW0585G
Location: Plant Hammond
Pump Type/Model: Bladder
Tubing Material: poly
Pump Intake Depth (ft): 40
Start/Stop Purge Time: 935/1010
Purge Rate (mL/min): 200
Total Purge Volume (L): 4
Purge Method: (Low-Flow) Well Volume Other: ——
Sampling Method: Pump Discharge Other: ——

Sampling Date: 9/21/24
Sampler's Name: J. Newsome
Sample Collection Time: 1015
Sample Purge Rate (mL/min): 200
Sample ID: ~~HA-M-FIL~~ PT-15-DNF
Laboratory Analyses: Metals
QA/QC Collected? No
QA/QC I.D. ——

All sample containers requiring chemical preservation properly preserved prior to demob from well? (Yes) No

Time	pH (SU)	Spec. Cond. (µS/cm)	ORP (mV)	DO (mg/L)	Temp. (°C)	Turbidity (NTUs)	DTW (ft btoc)	Purge Rate (mL/min)	Purged Volume (L)	Notes (Purge method, water clarity, odor, purge rate, issues with pump/well/weather/etc.)
935										pre purge five min
940	6.80	652.60	75.0	3.16	20.08	7.28	27.14	200	1	
945	6.77	644.86	39.4	3.16	19.84	45.2		200	2	
950	6.76	643.24	28.1	3.13	19.77			200	3	
1000	6.76	644.16	27.1	3.06	19.74	16.3		200	4	
1005	6.75	646.59	27.2	3.10	19.71	4.39		200	5	
1010	6.75	646.59	27.2	3.10	19.71	4.40		200	6	
1015										grab sample
										Fe FIL ∅ VNF 0.4mg
										MS TOTC ∅ 10/12 µg/L
										Fe2+ ∅ ∅
										As(H): 10 ppb (5-20)
										As(L) = 3x4 = 12 ppb
							JM	9/21/24		
Stabilizing Criteria	**+/- 0.1 SU**	**+/- 5%**		0.2 mg/L or 10% for DO > 0.5 mg/L (whichever is greater)		**< 5 NTUs**	**< 0.3 ft**	**> 100 mL < 250 mL**	**> 3L**	

Calibration Forms

Site Name: Plant Hammond **Field Instrumentation Calibration Form**

Date: 9/9/2024

Calibrated By: A. Akbari

Field Conditions: 74°F, Sunny

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AQUA TROLL 400	850791
Turbidity Meter		

1118075

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24010943	5/2025	MR AUTO CAL
pH (SU)	4.00	24010943	5/2025	MR AUTO CAL
pH (SU)	7.00	24004517	12/2024	MR
pH (SU)	10.00	24000085	12/2024	MR
D.O. (%)	N/A			
ORP (mV)	228.0	24006905	12/2024	MR

Calibration					
Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4291.7	23.93	± 10% of standard	EPA 2023
pH (SU)	4.00	4.04	24.06	± 0.1	GWMP
pH (SU)	7.00	7.02	23.93	± 0.1	GWMP
pH (SU)	10.00	10.01	23.64	± 0.1	GWMP
D.O. (%)	N/A	100.5 %Sat	23.21	± 10%	NA
ORP (mV)	228.0	227.0	23.25	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)			± 10% of standard	EPA 2023

Calibration Check					
Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490			± 10% of standard	EPA 2023
pH (SU)	4.00			± 0.1	GWMP
pH (SU)	7.00			± 0.1	GWMP
pH (SU)	10.00			± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)			± 10% of standard	EPA 2023

Notes:

Site Name: Plant Hammond **Field Instrumentation Calibration Form** Date: 9/9/2024

Calibrated By: A. Tomlinson Field Conditions: 72°F, Sunny

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTROLL 400	1079634
Turbidity Meter		

1193604 → 1080307

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24010943	5/2025	AIR AUTOCAL
pH (SU)	4.00	24010943	5/2025	AIR AUTOCAL
pH (SU)	7.00	24004517	12/2024	AIR
pH (SU)	10.00	24000085	12/2024	AIR
D.O. (%)	N/A			
ORP (mV)	228.0	24006908	12/2024	AIR

Calibration					
Time Start 1056		Time Finish 1110			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4486.6	23.51	± 10% of standard	EPA 2023
pH (SU)	4.00	4.04	23.75	± 0.1	GWMP
pH (SU)	7.00	7.05	23.80	± 0.1	GWMP
pH (SU)	10.00	10.01	23.44	± 0.1	GWMP
D.O. (%)	N/A	108.74%	24.33	± 10%	NA
ORP (mV)	228.0	227.1	23.88	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)			± 10% of standard	EPA 2023

Calibration Check					
Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490			± 10% of standard	EPA 2023
pH (SU)	4.00			± 0.1	GWMP
pH (SU)	7.00			± 0.1	GWMP
pH (SU)	10.00			± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)			± 10% of standard	EPA 2023

Notes:

Site Name:_____

Field Instrumentation Calibration Form

Date: 9/10/24

Calibrated By: A. Tammen

Field Conditions: 64°F, sunny

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter		
Turbidity Meter	Hach 2100Q	23601D000344

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	4,490			
pH (SU)	4.00			
pH (SU)	7.00			
pH (SU)	10.00			
D.O. (%)	N/A			
ORP (mV)	228.0			

Calibration					
Time Start 0915		**Time Finish**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490			± 10% of standard	EPA 2023
pH (SU)	4.00			± 0.1	GWMP
pH (SU)	7.00			± 0.1	GWMP
pH (SU)	10.00			± 0.1	GWMP
D.O. (%)	N/A			± 10%	NA
ORP (mV)	228.0			± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	20	19.6	± 10% of standard	EPA 2023
	100	111		
	800	823		
	10	10.5		

Calibration Check					
Time Start		**Time Finish**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490			± 10% of standard	EPA 2023
pH (SU)	4.00			± 0.1	GWMP
pH (SU)	7.00			± 0.1	GWMP
pH (SU)	10.00			± 0.1	GWMP

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)			± 10% of standard	EPA 2023

Notes:

Site Name: Plant Hammond

Field Instrumentation Calibration Form

Date: 9/16/24

Calibrated By: J. Newsom

Field Conditions: Sunny, 80F

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquaread	168037
Turbidity Meter		

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24 010943	5/2025	YSI
pH (SU)	4.00	"	"	
pH (SU)	7.00	24 004817	12/2024	
pH (SU)	10.00	24 0000 85	12/2024	
D.O. (%)	N/A			
ORP (mV)	228.0	24 004905	12/2024	YSI

Calibration					
Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4490	29.81	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	29.96	± 0.1	GWMP
pH (SU)	7.00	7.00	28.71	± 0.1	GWMP
pH (SU)	10.00	10.01	27.44	± 0.1	GWMP
D.O. (%)	N/A	100	28.75	± 10%	NA
ORP (mV)	228.0	228.0	28.76	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)			± 10% of standard	EPA 2023

Calibration Check					
Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490			± 10% of standard	EPA 2023
pH (SU)	4.00			± 0.1	GWMP
pH (SU)	7.00			± 0.1	GWMP
pH (SU)	10.00			± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)			± 10% of standard	EPA 2023

Notes:

Site Name: GP Plant Hammond

Field Instrumentation Calibration Form

Date: 9/19/24

Calibrated By: J. Newsom

Field Conditions: Clear, 90F

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll	9616105
Turbidity Meter		

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24010943	05/2025	AIR
pH (SU)	4.00	"	"	"
pH (SU)	7.00	24004517	12/2024	"
pH (SU)	10.00	24000085	12/2024	"
D.O. (%)	N/A			
ORP (mV)	228.0	24001690	12/2024	AIR

Calibration					
Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4490	21.55	± 10% of standard	EPA 2023
pH (SU)	4.00	4.06	21.73	± 0.1	GWMP
pH (SU)	7.00	7.00	22.13	± 0.1	GWMP
pH (SU)	10.00	10.00	22.15	± 0.1	GWMP
D.O. (%)	N/A	111.0	21.41	± 10%	NA
ORP (mV)	228.0	228.0	21.54	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)			± 10% of standard	EPA 2023

Calibration Check					
Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490			± 10% of standard	EPA 2023
pH (SU)	4.00			± 0.1	GWMP
pH (SU)	7.00			± 0.1	GWMP
pH (SU)	10.00			± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)			± 10% of standard	EPA 2023

Notes:

Site Name: GP Plant Hammond

Field Instrumentation Calibration Form

Date: 9/19/24

Calibrated By: J. Newsome

Field Conditions: Sunny, 90F

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquaread	10B0307
Turbidity Meter		

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24010943	05/2025	Aqua
pH (SU)	4.00	"	"	"
pH (SU)	7.00	24004517	12/2024	
pH (SU)	10.00	24000985	12/2024	
D.O. (%)	N/A			
ORP (mV)	228.0	24000903	12/2024	Aqua

Calibration					
Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4490	21.54	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	21.84	± 0.1	GWMP
pH (SU)	7.00	7.00	21.13	± 0.1	GWMP
pH (SU)	10.00	10.00	22.20	± 0.1	GWMP
D.O. (%)	N/A	100	20.65	± 10%	NA
ORP (mV)	228.0	228.0	21.89	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)			± 10% of standard	EPA 2023

Calibration Check					
Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490			± 10% of standard	EPA 2023
pH (SU)	4.00			± 0.1	GWMP
pH (SU)	7.00			± 0.1	GWMP
pH (SU)	10.00			± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)			± 10% of standard	EPA 2023

Notes:

APPENDIX E

Post-injection Performance Monitoring Groundwater Analytical Laboratory Results and Field Sampling Forms

Laboratory Analytical Reports

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

August 19, 2024

Kristen Jurinko
Southern Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, GA 30308

RE: Project: Hammond AP-1 (CA)
Pace Project No.: 92745452

Dear Kristen Jurinko:

Enclosed are the analytical results for sample(s) received by the laboratory on August 02, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Asheville
- Pace Analytical Services - Peachtree Corners, GA

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Bonnie Vang
bonnie.vang@pacelabs.com
704-977-0968
Project Manager

Enclosures

cc: Kip Gray, Geosyntec
Christine Hug, Geosyntec Consultants, Inc.
Thomas Kessler, Geosyntec Consultants
Whitney Law, Geosyntec Consultants
Laura Midkiff, Southern Company
Caroline Nelson, Geosyntec Consultants, Inc
Jamie Newsome, Geosyntec Consultants
Zain Webb, Geosyntec Consultants

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CERTIFICATIONS

Project: Hammond AP-1 (CA)
Pace Project No.: 92745452

Pace Analytical Services Asheville
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Laboratory ID: 99030
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners
110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812
North Carolina Certification #: 381
South Carolina Certification #: 98011001
Virginia Certification #: 460204

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SAMPLE SUMMARY

Project: Hammond AP-1 (CA)
Pace Project No.: 92745452

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92745452001	**HAM-PT-07**	Water	08/01/24 13:43	08/02/24 14:00
92745452002	**HAM-PT-08**	Water	08/01/24 14:55	08/02/24 14:00
92745452003	**HAM-PT-09**	Water	07/31/24 13:33	08/02/24 14:00
92745452004	**HAM-PT-10**	Water	07/31/24 10:07	08/02/24 14:00
92745452005	**HAM-PT-11**	Water	07/31/24 16:46	08/02/24 14:00
92745452006	**HAM-PT-12**	Water	07/31/24 18:05	08/02/24 14:00
92745452007	**HAM-PT-13**	Water	08/01/24 12:47	08/02/24 14:00
92745452008	**HAM-PT-14**	Water	08/01/24 16:45	08/02/24 14:00
92745452009	**HAM-PT-15**	Water	08/01/24 10:47	08/02/24 14:00
92745452010	**HAM-AP1-FD-01**	Water	07/31/24 00:00	08/02/24 14:00
92745452011	**HAM-AP1-FB-01**	Water	08/01/24 12:00	08/02/24 14:00
92745452012	**HAM-AP1-EB-01**	Water	08/01/24 12:00	08/02/24 14:00

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SAMPLE ANALYTE COUNT

Project: Hammond AP-1 (CA)
Pace Project No.: 92745452

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92745452001	**HAM-PT-07**	EPA 6010D	MJS2	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92745452002	**HAM-PT-08**	EPA 6010D	MJS2	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92745452003	**HAM-PT-09**	EPA 6010D	MJS2	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92745452004	**HAM-PT-10**	EPA 6010D	MJS2	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92745452005	**HAM-PT-11**	EPA 6010D	MJS2	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92745452006	**HAM-PT-12**	EPA 6010D	MJS2	6
		EPA 6020B	CW1	13

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SAMPLE ANALYTE COUNT

Project: Hammond AP-1 (CA)
Pace Project No.: 92745452

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92745452007	**HAM-PT-13**	EPA 6010D	MJS2	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92745452008	**HAM-PT-14**	EPA 6010D	MJS2	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92745452009	**HAM-PT-15**	EPA 6010D	MJS2	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92745452010	**HAM-AP1-FD-01**	EPA 6010D	MJS2	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92745452011	**HAM-AP1-FB-01**	EPA 6010D	MJS2	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1

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SAMPLE ANALYTE COUNT

Project: Hammond AP-1 (CA)
Pace Project No.: 92745452

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92745452012	**HAM-AP1-EB-01**	EPA 6010D	MJS2	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	JCM	3

PASI-A = Pace Analytical Services - Asheville
PASI-GA = Pace Analytical Services - Peachtree Corners, GA

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SUMMARY OF DETECTION

Project: Hammond AP-1 (CA)
Pace Project No.: 92745452

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92745452001	**HAM-PT-07**					
EPA 6010D	Iron	13.2	mg/L	0.040	08/07/24 17:06	M1
EPA 6010D	Manganese	4.2	mg/L	0.040	08/07/24 17:06	
EPA 6010D	Potassium	5.7	mg/L	0.50	08/07/24 17:06	
EPA 6010D	Sodium	8.6	mg/L	1.0	08/07/24 17:06	
EPA 6010D	Calcium	123	mg/L	1.0	08/07/24 17:06	M1
EPA 6010D	Magnesium	17.8	mg/L	0.050	08/07/24 17:06	M1
EPA 6020B	Arsenic	0.11	mg/L	0.025	08/08/24 10:28	
EPA 6020B	Barium	0.049	mg/L	0.0050	08/07/24 17:20	
EPA 6020B	Beryllium	0.00019J	mg/L	0.00050	08/07/24 17:20	
EPA 6020B	Boron	0.57	mg/L	0.20	08/08/24 10:28	
EPA 6020B	Cobalt	0.056	mg/L	0.0050	08/07/24 17:20	
EPA 6020B	Lithium	0.056	mg/L	0.030	08/07/24 17:20	
EPA 6020B	Molybdenum	0.0047J	mg/L	0.010	08/07/24 17:20	
EPA 6020B	Thallium	0.00050J	mg/L	0.0010	08/07/24 17:20	
SM 2540C-2015	Total Dissolved Solids	578	mg/L	25.0	08/05/24 16:28	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	119	mg/L	5.0	08/06/24 13:15	
SM 2320B-2011	Alkalinity, Total as CaCO3	119	mg/L	5.0	08/06/24 13:15	
EPA 300.0 Rev 2.1 1993	Chloride	16.7	mg/L	1.0	08/03/24 12:38	
EPA 300.0 Rev 2.1 1993	Fluoride	0.22	mg/L	0.10	08/03/24 12:38	
EPA 300.0 Rev 2.1 1993	Sulfate	223	mg/L	5.0	08/03/24 23:50	M1
92745452002	**HAM-PT-08**					
EPA 6010D	Iron	14.5	mg/L	0.040	08/07/24 17:26	
EPA 6010D	Manganese	4.1	mg/L	0.040	08/07/24 17:26	
EPA 6010D	Potassium	5.0	mg/L	0.50	08/07/24 17:26	
EPA 6010D	Sodium	6.8	mg/L	1.0	08/07/24 17:26	
EPA 6010D	Calcium	85.2	mg/L	1.0	08/07/24 17:26	
EPA 6010D	Magnesium	11.9	mg/L	0.050	08/07/24 17:26	
EPA 6020B	Arsenic	0.26	mg/L	0.025	08/08/24 10:32	
EPA 6020B	Barium	0.044	mg/L	0.0050	08/07/24 17:23	
EPA 6020B	Beryllium	0.000098J	mg/L	0.00050	08/07/24 17:23	
EPA 6020B	Boron	0.63	mg/L	0.20	08/08/24 10:32	
EPA 6020B	Cobalt	0.073	mg/L	0.0050	08/07/24 17:23	
EPA 6020B	Lithium	0.022J	mg/L	0.030	08/07/24 17:23	
EPA 6020B	Molybdenum	0.012	mg/L	0.010	08/07/24 17:23	
SM 2540C-2015	Total Dissolved Solids	443	mg/L	25.0	08/05/24 16:29	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	76.4	mg/L	5.0	08/06/24 13:38	
SM 2320B-2011	Alkalinity, Total as CaCO3	76.4	mg/L	5.0	08/06/24 13:38	
EPA 300.0 Rev 2.1 1993	Chloride	14.0	mg/L	1.0	08/03/24 13:18	
EPA 300.0 Rev 2.1 1993	Fluoride	0.16	mg/L	0.10	08/03/24 13:18	
EPA 300.0 Rev 2.1 1993	Sulfate	176	mg/L	4.0	08/04/24 00:31	
92745452003	**HAM-PT-09**					
EPA 6010D	Iron	0.13	mg/L	0.040	08/07/24 17:30	
EPA 6010D	Manganese	0.47	mg/L	0.040	08/07/24 17:30	
EPA 6010D	Potassium	6.1	mg/L	0.50	08/07/24 17:30	
EPA 6010D	Sodium	6.6	mg/L	1.0	08/07/24 17:30	
EPA 6010D	Calcium	96.9	mg/L	1.0	08/07/24 17:30	

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(704)875-9092

SUMMARY OF DETECTION

Project: Hammond AP-1 (CA)
Pace Project No.: 92745452

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92745452003	**HAM-PT-09**					
EPA 6010D	Magnesium	24.5	mg/L	0.050	08/07/24 17:30	
EPA 6020B	Antimony	0.0010J	mg/L	0.0030	08/07/24 17:38	
EPA 6020B	Barium	0.072	mg/L	0.0050	08/07/24 17:38	
EPA 6020B	Beryllium	0.00013J	mg/L	0.00050	08/07/24 17:38	
EPA 6020B	Boron	1.1	mg/L	0.040	08/08/24 11:09	
EPA 6020B	Cadmium	0.00028J	mg/L	0.00050	08/07/24 17:38	
EPA 6020B	Cobalt	0.0037J	mg/L	0.0050	08/07/24 17:38	
EPA 6020B	Lithium	0.0019J	mg/L	0.030	08/07/24 17:38	
EPA 6020B	Molybdenum	0.24	mg/L	0.010	08/07/24 17:38	
SM 2540C-2015	Total Dissolved Solids	500	mg/L	25.0	08/05/24 12:42	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	119	mg/L	5.0	08/06/24 13:59	
SM 2320B-2011	Alkalinity, Total as CaCO3	119	mg/L	5.0	08/06/24 13:59	
EPA 300.0 Rev 2.1 1993	Chloride	29.3	mg/L	1.0	08/03/24 13:32	
EPA 300.0 Rev 2.1 1993	Fluoride	0.33	mg/L	0.10	08/03/24 13:32	
EPA 300.0 Rev 2.1 1993	Sulfate	172	mg/L	4.0	08/04/24 00:45	
92745452004	**HAM-PT-10**					
EPA 6010D	Manganese	0.48	mg/L	0.040	08/07/24 17:34	
EPA 6010D	Potassium	6.7	mg/L	0.50	08/07/24 17:34	
EPA 6010D	Sodium	8.8	mg/L	1.0	08/07/24 17:34	
EPA 6010D	Calcium	102	mg/L	1.0	08/07/24 17:34	
EPA 6010D	Magnesium	13.7	mg/L	0.050	08/07/24 17:34	
EPA 6020B	Barium	0.046	mg/L	0.0050	08/07/24 17:42	
EPA 6020B	Boron	1.6	mg/L	0.040	08/08/24 11:13	
EPA 6020B	Cadmium	0.00012J	mg/L	0.00050	08/07/24 17:42	
EPA 6020B	Cobalt	0.0015J	mg/L	0.0050	08/07/24 17:42	
EPA 6020B	Molybdenum	0.15	mg/L	0.010	08/07/24 17:42	
SM 2540C-2015	Total Dissolved Solids	535	mg/L	25.0	08/05/24 12:42	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	133	mg/L	5.0	08/06/24 14:17	
SM 2320B-2011	Alkalinity, Total as CaCO3	133	mg/L	5.0	08/06/24 14:17	
EPA 300.0 Rev 2.1 1993	Chloride	46.4	mg/L	1.0	08/03/24 13:45	
EPA 300.0 Rev 2.1 1993	Fluoride	0.22	mg/L	0.10	08/03/24 13:45	
EPA 300.0 Rev 2.1 1993	Sulfate	117	mg/L	3.0	08/04/24 00:59	
92745452005	**HAM-PT-11**					
EPA 6010D	Iron	0.66	mg/L	0.040	08/07/24 17:38	
EPA 6010D	Manganese	1.3	mg/L	0.040	08/07/24 17:38	
EPA 6010D	Potassium	5.6	mg/L	0.50	08/07/24 17:38	
EPA 6010D	Sodium	7.5	mg/L	1.0	08/07/24 17:38	
EPA 6010D	Calcium	90.6	mg/L	1.0	08/07/24 17:38	
EPA 6010D	Magnesium	19.0	mg/L	0.050	08/07/24 17:38	
EPA 6020B	Antimony	0.00086J	mg/L	0.0030	08/07/24 17:45	
EPA 6020B	Barium	0.068	mg/L	0.0050	08/07/24 17:45	
EPA 6020B	Boron	1.4	mg/L	0.040	08/08/24 11:17	
EPA 6020B	Cadmium	0.00027J	mg/L	0.00050	08/07/24 17:45	
EPA 6020B	Cobalt	0.019	mg/L	0.0050	08/07/24 17:45	
EPA 6020B	Lithium	0.0060J	mg/L	0.030	08/07/24 17:45	
EPA 6020B	Molybdenum	0.074	mg/L	0.010	08/07/24 17:45	

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SUMMARY OF DETECTION

Project: Hammond AP-1 (CA)
Pace Project No.: 92745452

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92745452005	**HAM-PT-11**					
SM 2540C-2015	Total Dissolved Solids	464	mg/L	25.0	08/05/24 12:42	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	112	mg/L	5.0	08/06/24 14:27	
SM 2320B-2011	Alkalinity, Total as CaCO3	112	mg/L	5.0	08/06/24 14:27	
EPA 300.0 Rev 2.1 1993	Chloride	33.6	mg/L	1.0	08/03/24 13:58	
EPA 300.0 Rev 2.1 1993	Fluoride	0.26	mg/L	0.10	08/03/24 13:58	
EPA 300.0 Rev 2.1 1993	Sulfate	141	mg/L	3.0	08/04/24 01:14	
92745452006	**HAM-PT-12**					
EPA 6010D	Iron	0.16	mg/L	0.040	08/07/24 17:42	
EPA 6010D	Manganese	0.77	mg/L	0.040	08/07/24 17:42	
EPA 6010D	Potassium	6.0	mg/L	0.50	08/07/24 17:42	
EPA 6010D	Sodium	7.9	mg/L	1.0	08/07/24 17:42	
EPA 6010D	Calcium	94.9	mg/L	1.0	08/07/24 17:42	
EPA 6010D	Magnesium	21.8	mg/L	0.050	08/07/24 17:42	
EPA 6020B	Barium	0.064	mg/L	0.0050	08/07/24 18:13	
EPA 6020B	Boron	1.3	mg/L	0.040	08/08/24 11:21	
EPA 6020B	Cadmium	0.00022J	mg/L	0.00050	08/07/24 18:13	
EPA 6020B	Cobalt	0.0032J	mg/L	0.0050	08/07/24 18:13	
EPA 6020B	Molybdenum	0.16	mg/L	0.010	08/07/24 18:13	
SM 2540C-2015	Total Dissolved Solids	470	mg/L	25.0	08/05/24 12:42	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	124	mg/L	5.0	08/06/24 14:36	
SM 2320B-2011	Alkalinity, Total as CaCO3	124	mg/L	5.0	08/06/24 14:36	
EPA 300.0 Rev 2.1 1993	Chloride	30.2	mg/L	1.0	08/03/24 14:12	
EPA 300.0 Rev 2.1 1993	Fluoride	0.26	mg/L	0.10	08/03/24 14:12	
EPA 300.0 Rev 2.1 1993	Sulfate	157	mg/L	4.0	08/04/24 01:28	
92745452007	**HAM-PT-13**					
EPA 6010D	Iron	25.6	mg/L	0.040	08/07/24 17:46	
EPA 6010D	Manganese	4.3	mg/L	0.040	08/07/24 17:46	
EPA 6010D	Potassium	5.3	mg/L	0.50	08/07/24 17:46	
EPA 6010D	Sodium	8.2	mg/L	1.0	08/07/24 17:46	
EPA 6010D	Calcium	111	mg/L	1.0	08/07/24 17:46	
EPA 6010D	Magnesium	15.5	mg/L	0.050	08/07/24 17:46	
EPA 6020B	Arsenic	0.20	mg/L	0.025	08/08/24 10:44	
EPA 6020B	Barium	0.043	mg/L	0.0050	08/07/24 18:16	
EPA 6020B	Boron	0.51	mg/L	0.20	08/08/24 10:44	
EPA 6020B	Cobalt	0.040	mg/L	0.0050	08/07/24 18:16	
EPA 6020B	Lithium	0.058	mg/L	0.030	08/07/24 18:16	
EPA 6020B	Molybdenum	0.0052J	mg/L	0.010	08/07/24 18:16	
SM 2540C-2015	Total Dissolved Solids	549	mg/L	25.0	08/05/24 16:29	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	115	mg/L	5.0	08/06/24 14:45	
SM 2320B-2011	Alkalinity, Total as CaCO3	115	mg/L	5.0	08/06/24 14:45	
EPA 300.0 Rev 2.1 1993	Chloride	15.5	mg/L	1.0	08/03/24 14:25	
EPA 300.0 Rev 2.1 1993	Fluoride	0.26	mg/L	0.10	08/03/24 14:25	
EPA 300.0 Rev 2.1 1993	Sulfate	229	mg/L	5.0	08/04/24 02:09	
92745452008	**HAM-PT-14**					
EPA 6010D	Iron	17.5	mg/L	0.040	08/07/24 17:50	
EPA 6010D	Manganese	3.4	mg/L	0.040	08/07/24 17:50	

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SUMMARY OF DETECTION

Project: Hammond AP-1 (CA)
Pace Project No.: 92745452

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92745452008	**HAM-PT-14**					
EPA 6010D	Potassium	5.9	mg/L	0.50	08/07/24 17:50	
EPA 6010D	Sodium	8.8	mg/L	1.0	08/07/24 17:50	
EPA 6010D	Calcium	123	mg/L	1.0	08/07/24 17:50	
EPA 6010D	Magnesium	18.7	mg/L	0.050	08/07/24 17:50	
EPA 6020B	Arsenic	0.15	mg/L	0.025	08/08/24 10:48	
EPA 6020B	Barium	0.045	mg/L	0.0050	08/07/24 18:20	
EPA 6020B	Boron	0.55	mg/L	0.20	08/08/24 10:48	
EPA 6020B	Cobalt	0.025	mg/L	0.0050	08/07/24 18:20	
EPA 6020B	Lithium	0.049	mg/L	0.030	08/07/24 18:20	
EPA 6020B	Molybdenum	0.011	mg/L	0.010	08/07/24 18:20	
SM 2540C-2015	Total Dissolved Solids	599	mg/L	25.0	08/05/24 16:29	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	153	mg/L	5.0	08/06/24 14:55	
SM 2320B-2011	Alkalinity, Total as CaCO3	153	mg/L	5.0	08/06/24 14:55	
EPA 300.0 Rev 2.1 1993	Chloride	17.8	mg/L	1.0	08/03/24 14:39	
EPA 300.0 Rev 2.1 1993	Fluoride	0.22	mg/L	0.10	08/03/24 14:39	
EPA 300.0 Rev 2.1 1993	Sulfate	224	mg/L	5.0	08/04/24 02:23	
92745452009	**HAM-PT-15**					
EPA 6010D	Iron	13.4	mg/L	0.040	08/07/24 17:53	
EPA 6010D	Manganese	5.4	mg/L	0.040	08/07/24 17:53	
EPA 6010D	Potassium	5.4	mg/L	0.50	08/07/24 17:53	
EPA 6010D	Sodium	7.7	mg/L	1.0	08/07/24 17:53	
EPA 6010D	Calcium	117	mg/L	1.0	08/07/24 17:53	
EPA 6010D	Magnesium	14.5	mg/L	0.050	08/07/24 17:53	
EPA 6020B	Arsenic	0.42	mg/L	0.025	08/08/24 10:53	
EPA 6020B	Barium	0.042	mg/L	0.0050	08/07/24 18:24	
EPA 6020B	Boron	0.63	mg/L	0.20	08/08/24 10:53	
EPA 6020B	Cobalt	0.056	mg/L	0.0050	08/07/24 18:24	
EPA 6020B	Lithium	0.050	mg/L	0.030	08/07/24 18:24	
EPA 6020B	Molybdenum	0.013	mg/L	0.010	08/07/24 18:24	
SM 2540C-2015	Total Dissolved Solids	544	mg/L	25.0	08/05/24 16:29	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	129	mg/L	5.0	08/06/24 15:06	
SM 2320B-2011	Alkalinity, Total as CaCO3	129	mg/L	5.0	08/06/24 15:06	
EPA 300.0 Rev 2.1 1993	Chloride	14.4	mg/L	1.0	08/03/24 15:19	
EPA 300.0 Rev 2.1 1993	Fluoride	0.29	mg/L	0.10	08/03/24 15:19	
EPA 300.0 Rev 2.1 1993	Sulfate	206	mg/L	5.0	08/04/24 02:36	
92745452010	**HAM-AP1-FD-01**					
EPA 6010D	Iron	0.20	mg/L	0.040	08/07/24 18:56	
EPA 6010D	Manganese	0.81	mg/L	0.040	08/07/24 18:56	
EPA 6010D	Potassium	6.0	mg/L	0.50	08/07/24 18:56	
EPA 6010D	Sodium	8.1	mg/L	1.0	08/07/24 18:56	
EPA 6010D	Calcium	94.9	mg/L	1.0	08/07/24 18:56	
EPA 6010D	Magnesium	21.9	mg/L	0.050	08/07/24 18:56	
EPA 6020B	Barium	0.064	mg/L	0.0050	08/07/24 18:31	
EPA 6020B	Boron	1.2	mg/L	0.040	08/08/24 11:25	
EPA 6020B	Cadmium	0.00023J	mg/L	0.00050	08/07/24 18:31	
EPA 6020B	Cobalt	0.0032J	mg/L	0.0050	08/07/24 18:31	

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SUMMARY OF DETECTION

Project: Hammond AP-1 (CA)
Pace Project No.: 92745452

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92745452010	**HAM-AP1-FD-01**					
EPA 6020B	Molybdenum	0.15	mg/L	0.010	08/07/24 18:31	
SM 2540C-2015	Total Dissolved Solids	462	mg/L	25.0	08/05/24 12:45	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	124	mg/L	5.0	08/06/24 15:16	
SM 2320B-2011	Alkalinity, Total as CaCO3	124	mg/L	5.0	08/06/24 15:16	
EPA 300.0 Rev 2.1 1993	Chloride	30.6	mg/L	1.0	08/03/24 15:33	
EPA 300.0 Rev 2.1 1993	Fluoride	0.26	mg/L	0.10	08/03/24 15:33	
EPA 300.0 Rev 2.1 1993	Sulfate	155	mg/L	4.0	08/04/24 02:50	

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CA)
Pace Project No.: 92745452

Sample: HAM-PT-07 **Lab ID: 92745452001** Collected: 08/01/24 13:43 Received: 08/02/24 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**13.2**	mg/L	0.040	0.025	1	08/07/24 11:36	08/07/24 17:06	7439-89-6	M1
Manganese	**4.2**	mg/L	0.040	0.011	1	08/07/24 11:36	08/07/24 17:06	7439-96-5	
Potassium	**5.7**	mg/L	0.50	0.15	1	08/07/24 11:36	08/07/24 17:06	7440-09-7	
Sodium	**8.6**	mg/L	1.0	0.58	1	08/07/24 11:36	08/07/24 17:06	7440-23-5	
Calcium	**123**	mg/L	1.0	0.12	1	08/07/24 11:36	08/07/24 17:06	7440-70-2	M1
Magnesium	**17.8**	mg/L	0.050	0.012	1	08/07/24 11:36	08/07/24 17:06	7439-95-4	M1
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	08/07/24 11:55	08/07/24 17:20	7440-36-0	
Arsenic	**0.11**	mg/L	0.025	0.0042	5	08/07/24 11:55	08/08/24 10:28	7440-38-2	
Barium	**0.049**	mg/L	0.0050	0.00047	1	08/07/24 11:55	08/07/24 17:20	7440-39-3	
Beryllium	**0.00019J**	mg/L	0.00050	0.000094	1	08/07/24 11:55	08/07/24 17:20	7440-41-7	
Boron	**0.57**	mg/L	0.20	0.060	5	08/07/24 11:55	08/08/24 10:28	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	08/07/24 11:55	08/07/24 17:20	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/07/24 11:55	08/07/24 17:20	7440-47-3	
Cobalt	**0.056**	mg/L	0.0050	0.00032	1	08/07/24 11:55	08/07/24 17:20	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/07/24 11:55	08/07/24 17:20	7439-92-1	
Lithium	**0.056**	mg/L	0.030	0.0016	1	08/07/24 11:55	08/07/24 17:20	7439-93-2	
Molybdenum	**0.0047J**	mg/L	0.010	0.00062	1	08/07/24 11:55	08/07/24 17:20	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	08/07/24 11:55	08/07/24 17:20	7782-49-2	
Thallium	**0.00050J**	mg/L	0.0010	0.00038	1	08/07/24 11:55	08/07/24 17:20	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	08/14/24 10:30	08/14/24 14:50	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**578**	mg/L	25.0	25.0	1		08/05/24 16:28		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**119**	mg/L	5.0	5.0	1		08/06/24 13:15		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		08/06/24 13:15		
Alkalinity, Total as CaCO3	**119**	mg/L	5.0	5.0	1		08/06/24 13:15		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		08/03/24 03:16	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**16.7**	mg/L	1.0	0.60	1		08/03/24 12:38	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CA)
Pace Project No.: 92745452

Sample: HAM-PT-07 **Lab ID: 92745452001** Collected: 08/01/24 13:43 Received: 08/02/24 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.22**	mg/L	0.10	0.050	1		08/03/24 12:38	16984-48-8	
Sulfate	**223**	mg/L	5.0	2.5	5		08/03/24 23:50	14808-79-8	M1

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CA)
Pace Project No.: 92745452

Sample: HAM-PT-08 **Lab ID: 92745452002** Collected: 08/01/24 14:55 Received: 08/02/24 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**14.5**	mg/L	0.040	0.025	1	08/07/24 11:36	08/07/24 17:26	7439-89-6	
Manganese	**4.1**	mg/L	0.040	0.011	1	08/07/24 11:36	08/07/24 17:26	7439-96-5	
Potassium	**5.0**	mg/L	0.50	0.15	1	08/07/24 11:36	08/07/24 17:26	7440-09-7	
Sodium	**6.8**	mg/L	1.0	0.58	1	08/07/24 11:36	08/07/24 17:26	7440-23-5	
Calcium	**85.2**	mg/L	1.0	0.12	1	08/07/24 11:36	08/07/24 17:26	7440-70-2	
Magnesium	**11.9**	mg/L	0.050	0.012	1	08/07/24 11:36	08/07/24 17:26	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	08/07/24 11:55	08/07/24 17:23	7440-36-0	
Arsenic	**0.26**	mg/L	0.025	0.0042	5	08/07/24 11:55	08/08/24 10:32	7440-38-2	
Barium	**0.044**	mg/L	0.0050	0.00047	1	08/07/24 11:55	08/07/24 17:23	7440-39-3	
Beryllium	**0.000098J**	mg/L	0.00050	0.000094	1	08/07/24 11:55	08/07/24 17:23	7440-41-7	
Boron	**0.63**	mg/L	0.20	0.060	5	08/07/24 11:55	08/08/24 10:32	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	08/07/24 11:55	08/07/24 17:23	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/07/24 11:55	08/07/24 17:23	7440-47-3	
Cobalt	**0.073**	mg/L	0.0050	0.00032	1	08/07/24 11:55	08/07/24 17:23	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/07/24 11:55	08/07/24 17:23	7439-92-1	
Lithium	**0.022J**	mg/L	0.030	0.0016	1	08/07/24 11:55	08/07/24 17:23	7439-93-2	
Molybdenum	**0.012**	mg/L	0.010	0.00062	1	08/07/24 11:55	08/07/24 17:23	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	08/07/24 11:55	08/07/24 17:23	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/07/24 11:55	08/07/24 17:23	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	08/14/24 10:30	08/14/24 15:06	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**443**	mg/L	25.0	25.0	1		08/05/24 16:29		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**76.4**	mg/L	5.0	5.0	1		08/06/24 13:38		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		08/06/24 13:38		
Alkalinity, Total as CaCO3	**76.4**	mg/L	5.0	5.0	1		08/06/24 13:38		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		08/03/24 03:17	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**14.0**	mg/L	1.0	0.60	1		08/03/24 13:18	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CA)
Pace Project No.: 92745452

Sample: HAM-PT-08 **Lab ID: 92745452002** Collected: 08/01/24 14:55 Received: 08/02/24 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.16**	mg/L	0.10	0.050	1		08/03/24 13:18	16984-48-8	
Sulfate	**176**	mg/L	4.0	2.0	4		08/04/24 00:31	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CA)
Pace Project No.: 92745452

Sample: HAM-PT-09 **Lab ID: 92745452003** Collected: 07/31/24 13:33 Received: 08/02/24 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.13**	mg/L	0.040	0.025	1	08/07/24 11:36	08/07/24 17:30	7439-89-6	
Manganese	**0.47**	mg/L	0.040	0.011	1	08/07/24 11:36	08/07/24 17:30	7439-96-5	
Potassium	**6.1**	mg/L	0.50	0.15	1	08/07/24 11:36	08/07/24 17:30	7440-09-7	
Sodium	**6.6**	mg/L	1.0	0.58	1	08/07/24 11:36	08/07/24 17:30	7440-23-5	
Calcium	**96.9**	mg/L	1.0	0.12	1	08/07/24 11:36	08/07/24 17:30	7440-70-2	
Magnesium	**24.5**	mg/L	0.050	0.012	1	08/07/24 11:36	08/07/24 17:30	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.0010J**	mg/L	0.0030	0.00054	1	08/07/24 11:55	08/07/24 17:38	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	08/07/24 11:55	08/08/24 11:09	7440-38-2	
Barium	**0.072**	mg/L	0.0050	0.00047	1	08/07/24 11:55	08/07/24 17:38	7440-39-3	
Beryllium	**0.00013J**	mg/L	0.00050	0.000094	1	08/07/24 11:55	08/07/24 17:38	7440-41-7	
Boron	**1.1**	mg/L	0.040	0.012	1	08/07/24 11:55	08/08/24 11:09	7440-42-8	
Cadmium	**0.00028J**	mg/L	0.00050	0.00010	1	08/07/24 11:55	08/07/24 17:38	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/07/24 11:55	08/07/24 17:38	7440-47-3	
Cobalt	**0.0037J**	mg/L	0.0050	0.00032	1	08/07/24 11:55	08/07/24 17:38	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/07/24 11:55	08/07/24 17:38	7439-92-1	
Lithium	**0.0019J**	mg/L	0.030	0.0016	1	08/07/24 11:55	08/07/24 17:38	7439-93-2	
Molybdenum	**0.24**	mg/L	0.010	0.00062	1	08/07/24 11:55	08/07/24 17:38	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	08/07/24 11:55	08/07/24 17:38	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/07/24 11:55	08/07/24 17:38	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	08/14/24 10:30	08/14/24 15:09	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**500**	mg/L	25.0	25.0	1		08/05/24 12:42		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**119**	mg/L	5.0	5.0	1		08/06/24 13:59		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		08/06/24 13:59		
Alkalinity, Total as CaCO3	**119**	mg/L	5.0	5.0	1		08/06/24 13:59		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		08/03/24 03:11	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**29.3**	mg/L	1.0	0.60	1		08/03/24 13:32	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CA)
Pace Project No.: 92745452

Sample: HAM-PT-09 **Lab ID: 92745452003** Collected: 07/31/24 13:33 Received: 08/02/24 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.33**	mg/L	0.10	0.050	1		08/03/24 13:32	16984-48-8	
Sulfate	**172**	mg/L	4.0	2.0	4		08/04/24 00:45	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CA)
Pace Project No.: 92745452

Sample: HAM-PT-10 **Lab ID: 92745452004** Collected: 07/31/24 10:07 Received: 08/02/24 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	08/07/24 11:36	08/07/24 17:34	7439-89-6	
Manganese	**0.48**	mg/L	0.040	0.011	1	08/07/24 11:36	08/07/24 17:34	7439-96-5	
Potassium	**6.7**	mg/L	0.50	0.15	1	08/07/24 11:36	08/07/24 17:34	7440-09-7	
Sodium	**8.8**	mg/L	1.0	0.58	1	08/07/24 11:36	08/07/24 17:34	7440-23-5	
Calcium	**102**	mg/L	1.0	0.12	1	08/07/24 11:36	08/07/24 17:34	7440-70-2	
Magnesium	**13.7**	mg/L	0.050	0.012	1	08/07/24 11:36	08/07/24 17:34	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	08/07/24 11:55	08/07/24 17:42	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	08/07/24 11:55	08/08/24 11:13	7440-38-2	
Barium	**0.046**	mg/L	0.0050	0.00047	1	08/07/24 11:55	08/07/24 17:42	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	08/07/24 11:55	08/07/24 17:42	7440-41-7	
Boron	**1.6**	mg/L	0.040	0.012	1	08/07/24 11:55	08/08/24 11:13	7440-42-8	
Cadmium	**0.00012J**	mg/L	0.00050	0.00010	1	08/07/24 11:55	08/07/24 17:42	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/07/24 11:55	08/07/24 17:42	7440-47-3	
Cobalt	**0.0015J**	mg/L	0.0050	0.00032	1	08/07/24 11:55	08/07/24 17:42	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/07/24 11:55	08/07/24 17:42	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	08/07/24 11:55	08/07/24 17:42	7439-93-2	
Molybdenum	**0.15**	mg/L	0.010	0.00062	1	08/07/24 11:55	08/07/24 17:42	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	08/07/24 11:55	08/07/24 17:42	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/07/24 11:55	08/07/24 17:42	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	08/14/24 10:30	08/14/24 15:11	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**535**	mg/L	25.0	25.0	1		08/05/24 12:42		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**133**	mg/L	5.0	5.0	1		08/06/24 14:17		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		08/06/24 14:17		
Alkalinity, Total as CaCO3	**133**	mg/L	5.0	5.0	1		08/06/24 14:17		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		08/03/24 03:12	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**46.4**	mg/L	1.0	0.60	1		08/03/24 13:45	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CA)
Pace Project No.: 92745452

Sample: HAM-PT-10 **Lab ID: 92745452004** Collected: 07/31/24 10:07 Received: 08/02/24 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.22**	mg/L	0.10	0.050	1		08/03/24 13:45	16984-48-8	
Sulfate	**117**	mg/L	3.0	1.5	3		08/04/24 00:59	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CA)
Pace Project No.: 92745452

Sample: HAM-PT-11 **Lab ID: 92745452005** Collected: 07/31/24 16:46 Received: 08/02/24 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.66**	mg/L	0.040	0.025	1	08/07/24 11:36	08/07/24 17:38	7439-89-6	
Manganese	**1.3**	mg/L	0.040	0.011	1	08/07/24 11:36	08/07/24 17:38	7439-96-5	
Potassium	**5.6**	mg/L	0.50	0.15	1	08/07/24 11:36	08/07/24 17:38	7440-09-7	
Sodium	**7.5**	mg/L	1.0	0.58	1	08/07/24 11:36	08/07/24 17:38	7440-23-5	
Calcium	**90.6**	mg/L	1.0	0.12	1	08/07/24 11:36	08/07/24 17:38	7440-70-2	
Magnesium	**19.0**	mg/L	0.050	0.012	1	08/07/24 11:36	08/07/24 17:38	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.00086J**	mg/L	0.0030	0.00054	1	08/07/24 11:55	08/07/24 17:45	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	08/07/24 11:55	08/08/24 11:17	7440-38-2	
Barium	**0.068**	mg/L	0.0050	0.00047	1	08/07/24 11:55	08/07/24 17:45	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	08/07/24 11:55	08/07/24 17:45	7440-41-7	
Boron	**1.4**	mg/L	0.040	0.012	1	08/07/24 11:55	08/08/24 11:17	7440-42-8	
Cadmium	**0.00027J**	mg/L	0.00050	0.00010	1	08/07/24 11:55	08/07/24 17:45	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/07/24 11:55	08/07/24 17:45	7440-47-3	
Cobalt	**0.019**	mg/L	0.0050	0.00032	1	08/07/24 11:55	08/07/24 17:45	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/07/24 11:55	08/07/24 17:45	7439-92-1	
Lithium	**0.0060J**	mg/L	0.030	0.0016	1	08/07/24 11:55	08/07/24 17:45	7439-93-2	
Molybdenum	**0.074**	mg/L	0.010	0.00062	1	08/07/24 11:55	08/07/24 17:45	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	08/07/24 11:55	08/07/24 17:45	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/07/24 11:55	08/07/24 17:45	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	08/14/24 10:30	08/14/24 15:14	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**464**	mg/L	25.0	25.0	1		08/05/24 12:42		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**112**	mg/L	5.0	5.0	1		08/06/24 14:27		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		08/06/24 14:27		
Alkalinity, Total as CaCO3	**112**	mg/L	5.0	5.0	1		08/06/24 14:27		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		08/03/24 03:13	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**33.6**	mg/L	1.0	0.60	1		08/03/24 13:58	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CA)
Pace Project No.: 92745452

Sample: HAM-PT-11 **Lab ID: 92745452005** Collected: 07/31/24 16:46 Received: 08/02/24 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.26**	mg/L	0.10	0.050	1		08/03/24 13:58	16984-48-8	
Sulfate	**141**	mg/L	3.0	1.5	3		08/04/24 01:14	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CA)
Pace Project No.: 92745452

Sample: HAM-PT-12 **Lab ID: 92745452006** Collected: 07/31/24 18:05 Received: 08/02/24 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.16**	mg/L	0.040	0.025	1	08/07/24 11:36	08/07/24 17:42	7439-89-6	
Manganese	**0.77**	mg/L	0.040	0.011	1	08/07/24 11:36	08/07/24 17:42	7439-96-5	
Potassium	**6.0**	mg/L	0.50	0.15	1	08/07/24 11:36	08/07/24 17:42	7440-09-7	
Sodium	**7.9**	mg/L	1.0	0.58	1	08/07/24 11:36	08/07/24 17:42	7440-23-5	
Calcium	**94.9**	mg/L	1.0	0.12	1	08/07/24 11:36	08/07/24 17:42	7440-70-2	
Magnesium	**21.8**	mg/L	0.050	0.012	1	08/07/24 11:36	08/07/24 17:42	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	08/07/24 11:55	08/07/24 18:13	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	08/07/24 11:55	08/08/24 11:21	7440-38-2	
Barium	**0.064**	mg/L	0.0050	0.00047	1	08/07/24 11:55	08/07/24 18:13	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	08/07/24 11:55	08/07/24 18:13	7440-41-7	
Boron	**1.3**	mg/L	0.040	0.012	1	08/07/24 11:55	08/08/24 11:21	7440-42-8	
Cadmium	**0.00022J**	mg/L	0.00050	0.00010	1	08/07/24 11:55	08/07/24 18:13	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/07/24 11:55	08/07/24 18:13	7440-47-3	
Cobalt	**0.0032J**	mg/L	0.0050	0.00032	1	08/07/24 11:55	08/07/24 18:13	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/07/24 11:55	08/07/24 18:13	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	08/07/24 11:55	08/07/24 18:13	7439-93-2	
Molybdenum	**0.16**	mg/L	0.010	0.00062	1	08/07/24 11:55	08/07/24 18:13	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	08/07/24 11:55	08/07/24 18:13	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/07/24 11:55	08/07/24 18:13	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	08/14/24 10:30	08/14/24 15:17	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**470**	mg/L	25.0	25.0	1		08/05/24 12:42		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**124**	mg/L	5.0	5.0	1		08/06/24 14:36		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		08/06/24 14:36		
Alkalinity, Total as CaCO3	**124**	mg/L	5.0	5.0	1		08/06/24 14:36		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		08/03/24 03:13	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**30.2**	mg/L	1.0	0.60	1		08/03/24 14:12	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CA)
Pace Project No.: 92745452

Sample: HAM-PT-12 **Lab ID: 92745452006** Collected: 07/31/24 18:05 Received: 08/02/24 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.26**	mg/L	0.10	0.050	1		08/03/24 14:12	16984-48-8	
Sulfate	**157**	mg/L	4.0	2.0	4		08/04/24 01:28	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CA)
Pace Project No.: 92745452

Sample: HAM-PT-13 **Lab ID: 92745452007** Collected: 08/01/24 12:47 Received: 08/02/24 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**25.6**	mg/L	0.040	0.025	1	08/07/24 11:36	08/07/24 17:46	7439-89-6	
Manganese	**4.3**	mg/L	0.040	0.011	1	08/07/24 11:36	08/07/24 17:46	7439-96-5	
Potassium	**5.3**	mg/L	0.50	0.15	1	08/07/24 11:36	08/07/24 17:46	7440-09-7	
Sodium	**8.2**	mg/L	1.0	0.58	1	08/07/24 11:36	08/07/24 17:46	7440-23-5	
Calcium	**111**	mg/L	1.0	0.12	1	08/07/24 11:36	08/07/24 17:46	7440-70-2	
Magnesium	**15.5**	mg/L	0.050	0.012	1	08/07/24 11:36	08/07/24 17:46	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	08/07/24 11:55	08/07/24 18:16	7440-36-0	
Arsenic	**0.20**	mg/L	0.025	0.0042	5	08/07/24 11:55	08/08/24 10:44	7440-38-2	
Barium	**0.043**	mg/L	0.0050	0.00047	1	08/07/24 11:55	08/07/24 18:16	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	08/07/24 11:55	08/07/24 18:16	7440-41-7	
Boron	**0.51**	mg/L	0.20	0.060	5	08/07/24 11:55	08/08/24 10:44	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	08/07/24 11:55	08/07/24 18:16	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/07/24 11:55	08/07/24 18:16	7440-47-3	
Cobalt	**0.040**	mg/L	0.0050	0.00032	1	08/07/24 11:55	08/07/24 18:16	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/07/24 11:55	08/07/24 18:16	7439-92-1	
Lithium	**0.058**	mg/L	0.030	0.0016	1	08/07/24 11:55	08/07/24 18:16	7439-93-2	
Molybdenum	**0.0052J**	mg/L	0.010	0.00062	1	08/07/24 11:55	08/07/24 18:16	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	08/07/24 11:55	08/07/24 18:16	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/07/24 11:55	08/07/24 18:16	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	08/14/24 10:30	08/14/24 15:19	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**549**	mg/L	25.0	25.0	1		08/05/24 16:29		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**115**	mg/L	5.0	5.0	1		08/06/24 14:45		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		08/06/24 14:45		
Alkalinity, Total as CaCO3	**115**	mg/L	5.0	5.0	1		08/06/24 14:45		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		08/03/24 03:18	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**15.5**	mg/L	1.0	0.60	1		08/03/24 14:25	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CA)
Pace Project No.: 92745452

Sample: HAM-PT-13 **Lab ID: 92745452007** Collected: 08/01/24 12:47 Received: 08/02/24 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.26**	mg/L	0.10	0.050	1		08/03/24 14:25	16984-48-8	
Sulfate	**229**	mg/L	5.0	2.5	5		08/04/24 02:09	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CA)
Pace Project No.: 92745452

Sample: HAM-PT-14 **Lab ID: 92745452008** Collected: 08/01/24 16:45 Received: 08/02/24 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**17.5**	mg/L	0.040	0.025	1	08/07/24 11:36	08/07/24 17:50	7439-89-6	
Manganese	**3.4**	mg/L	0.040	0.011	1	08/07/24 11:36	08/07/24 17:50	7439-96-5	
Potassium	**5.9**	mg/L	0.50	0.15	1	08/07/24 11:36	08/07/24 17:50	7440-09-7	
Sodium	**8.8**	mg/L	1.0	0.58	1	08/07/24 11:36	08/07/24 17:50	7440-23-5	
Calcium	**123**	mg/L	1.0	0.12	1	08/07/24 11:36	08/07/24 17:50	7440-70-2	
Magnesium	**18.7**	mg/L	0.050	0.012	1	08/07/24 11:36	08/07/24 17:50	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	08/07/24 11:55	08/07/24 18:20	7440-36-0	
Arsenic	**0.15**	mg/L	0.025	0.0042	5	08/07/24 11:55	08/08/24 10:48	7440-38-2	
Barium	**0.045**	mg/L	0.0050	0.00047	1	08/07/24 11:55	08/07/24 18:20	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	08/07/24 11:55	08/07/24 18:20	7440-41-7	
Boron	**0.55**	mg/L	0.20	0.060	5	08/07/24 11:55	08/08/24 10:48	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	08/07/24 11:55	08/07/24 18:20	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/07/24 11:55	08/07/24 18:20	7440-47-3	
Cobalt	**0.025**	mg/L	0.0050	0.00032	1	08/07/24 11:55	08/07/24 18:20	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/07/24 11:55	08/07/24 18:20	7439-92-1	
Lithium	**0.049**	mg/L	0.030	0.0016	1	08/07/24 11:55	08/07/24 18:20	7439-93-2	
Molybdenum	**0.011**	mg/L	0.010	0.00062	1	08/07/24 11:55	08/07/24 18:20	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	08/07/24 11:55	08/07/24 18:20	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/07/24 11:55	08/07/24 18:20	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	08/14/24 10:30	08/14/24 15:22	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**599**	mg/L	25.0	25.0	1		08/05/24 16:29		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**153**	mg/L	5.0	5.0	1		08/06/24 14:55		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		08/06/24 14:55		
Alkalinity, Total as CaCO3	**153**	mg/L	5.0	5.0	1		08/06/24 14:55		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		08/03/24 03:18	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**17.8**	mg/L	1.0	0.60	1		08/03/24 14:39	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CA)
Pace Project No.: 92745452

Sample: HAM-PT-14 **Lab ID: 92745452008** Collected: 08/01/24 16:45 Received: 08/02/24 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.22**	mg/L	0.10	0.050	1		08/03/24 14:39	16984-48-8	
Sulfate	**224**	mg/L	5.0	2.5	5		08/04/24 02:23	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CA)
Pace Project No.: 92745452

Sample: HAM-PT-15 **Lab ID: 92745452009** Collected: 08/01/24 10:47 Received: 08/02/24 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**13.4**	mg/L	0.040	0.025	1	08/07/24 11:36	08/07/24 17:53	7439-89-6	
Manganese	**5.4**	mg/L	0.040	0.011	1	08/07/24 11:36	08/07/24 17:53	7439-96-5	
Potassium	**5.4**	mg/L	0.50	0.15	1	08/07/24 11:36	08/07/24 17:53	7440-09-7	
Sodium	**7.7**	mg/L	1.0	0.58	1	08/07/24 11:36	08/07/24 17:53	7440-23-5	
Calcium	**117**	mg/L	1.0	0.12	1	08/07/24 11:36	08/07/24 17:53	7440-70-2	
Magnesium	**14.5**	mg/L	0.050	0.012	1	08/07/24 11:36	08/07/24 17:53	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	08/07/24 11:55	08/07/24 18:24	7440-36-0	
Arsenic	**0.42**	mg/L	0.025	0.0042	5	08/07/24 11:55	08/08/24 10:53	7440-38-2	
Barium	**0.042**	mg/L	0.0050	0.00047	1	08/07/24 11:55	08/07/24 18:24	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	08/07/24 11:55	08/07/24 18:24	7440-41-7	
Boron	**0.63**	mg/L	0.20	0.060	5	08/07/24 11:55	08/08/24 10:53	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	08/07/24 11:55	08/07/24 18:24	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/07/24 11:55	08/07/24 18:24	7440-47-3	
Cobalt	**0.056**	mg/L	0.0050	0.00032	1	08/07/24 11:55	08/07/24 18:24	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/07/24 11:55	08/07/24 18:24	7439-92-1	
Lithium	**0.050**	mg/L	0.030	0.0016	1	08/07/24 11:55	08/07/24 18:24	7439-93-2	
Molybdenum	**0.013**	mg/L	0.010	0.00062	1	08/07/24 11:55	08/07/24 18:24	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	08/07/24 11:55	08/07/24 18:24	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/07/24 11:55	08/07/24 18:24	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	08/14/24 10:30	08/14/24 15:25	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**544**	mg/L	25.0	25.0	1		08/05/24 16:29		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**129**	mg/L	5.0	5.0	1		08/06/24 15:06		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		08/06/24 15:06		
Alkalinity, Total as CaCO3	**129**	mg/L	5.0	5.0	1		08/06/24 15:06		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		08/03/24 03:19	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**14.4**	mg/L	1.0	0.60	1		08/03/24 15:19	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CA)
Pace Project No.: 92745452

Sample: HAM-PT-15 **Lab ID: 92745452009** Collected: 08/01/24 10:47 Received: 08/02/24 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.29**	mg/L	0.10	0.050	1		08/03/24 15:19	16984-48-8	
Sulfate	**206**	mg/L	5.0	2.5	5		08/04/24 02:36	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CA)
Pace Project No.: 92745452

Sample: HAM-AP1-FD-01 **Lab ID: 92745452010** Collected: 07/31/24 00:00 Received: 08/02/24 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.20**	mg/L	0.040	0.025	1	08/07/24 11:36	08/07/24 18:56	7439-89-6	
Manganese	**0.81**	mg/L	0.040	0.011	1	08/07/24 11:36	08/07/24 18:56	7439-96-5	
Potassium	**6.0**	mg/L	0.50	0.15	1	08/07/24 11:36	08/07/24 18:56	7440-09-7	
Sodium	**8.1**	mg/L	1.0	0.58	1	08/07/24 11:36	08/07/24 18:56	7440-23-5	
Calcium	**94.9**	mg/L	1.0	0.12	1	08/07/24 11:36	08/07/24 18:56	7440-70-2	
Magnesium	**21.9**	mg/L	0.050	0.012	1	08/07/24 11:36	08/07/24 18:56	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	08/07/24 11:55	08/07/24 18:31	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	08/07/24 11:55	08/08/24 11:25	7440-38-2	
Barium	**0.064**	mg/L	0.0050	0.00047	1	08/07/24 11:55	08/07/24 18:31	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	08/07/24 11:55	08/07/24 18:31	7440-41-7	
Boron	**1.2**	mg/L	0.040	0.012	1	08/07/24 11:55	08/08/24 11:25	7440-42-8	
Cadmium	**0.00023J**	mg/L	0.00050	0.00010	1	08/07/24 11:55	08/07/24 18:31	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/07/24 11:55	08/07/24 18:31	7440-47-3	
Cobalt	**0.0032J**	mg/L	0.0050	0.00032	1	08/07/24 11:55	08/07/24 18:31	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/07/24 11:55	08/07/24 18:31	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	08/07/24 11:55	08/07/24 18:31	7439-93-2	
Molybdenum	**0.15**	mg/L	0.010	0.00062	1	08/07/24 11:55	08/07/24 18:31	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	08/07/24 11:55	08/07/24 18:31	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/07/24 11:55	08/07/24 18:31	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	08/14/24 10:30	08/14/24 15:32	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**462**	mg/L	25.0	25.0	1		08/05/24 12:45		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**124**	mg/L	5.0	5.0	1		08/06/24 15:16		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		08/06/24 15:16		
Alkalinity, Total as CaCO3	**124**	mg/L	5.0	5.0	1		08/06/24 15:16		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		08/03/24 03:15	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**30.6**	mg/L	1.0	0.60	1		08/03/24 15:33	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CA)
Pace Project No.: 92745452

Sample: HAM-AP1-FD-01 **Lab ID: 92745452010** Collected: 07/31/24 00:00 Received: 08/02/24 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.26**	mg/L	0.10	0.050	1		08/03/24 15:33	16984-48-8	
Sulfate	**155**	mg/L	4.0	2.0	4		08/04/24 02:50	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CA)
Pace Project No.: 92745452

Sample: HAM-AP1-FB-01 **Lab ID: 92745452011** Collected: 08/01/24 12:00 Received: 08/02/24 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	08/07/24 11:36	08/07/24 19:00	7439-89-6	
Manganese	ND	mg/L	0.040	0.011	1	08/07/24 11:36	08/07/24 19:00	7439-96-5	
Potassium	ND	mg/L	0.50	0.15	1	08/07/24 11:36	08/07/24 19:00	7440-09-7	
Sodium	ND	mg/L	1.0	0.58	1	08/07/24 11:36	08/07/24 19:00	7440-23-5	
Calcium	ND	mg/L	1.0	0.12	1	08/07/24 11:36	08/07/24 19:00	7440-70-2	
Magnesium	ND	mg/L	0.050	0.012	1	08/07/24 11:36	08/07/24 19:00	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	08/07/24 11:55	08/07/24 18:35	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	08/07/24 11:55	08/08/24 10:09	7440-38-2	
Barium	ND	mg/L	0.0050	0.00047	1	08/07/24 11:55	08/07/24 18:35	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	08/07/24 11:55	08/07/24 18:35	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	08/07/24 11:55	08/08/24 10:09	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	08/07/24 11:55	08/07/24 18:35	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/07/24 11:55	08/07/24 18:35	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	08/07/24 11:55	08/07/24 18:35	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/07/24 11:55	08/07/24 18:35	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	08/07/24 11:55	08/07/24 18:35	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	08/07/24 11:55	08/07/24 18:35	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	08/07/24 11:55	08/07/24 18:35	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/07/24 11:55	08/07/24 18:35	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	08/14/24 10:30	08/14/24 15:35	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		08/05/24 16:29		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		08/06/24 15:25		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		08/06/24 15:25		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		08/06/24 15:25		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		08/03/24 03:19	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		08/03/24 10:23	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CA)
Pace Project No.: 92745452

Sample: HAM-AP1-FB-01 **Lab ID: 92745452011** Collected: 08/01/24 12:00 Received: 08/02/24 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	ND	mg/L	0.10	0.050	1		08/03/24 10:23	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		08/03/24 10:23	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CA)
Pace Project No.: 92745452

Sample: HAM-AP1-EB-01 **Lab ID: 92745452012** Collected: 08/01/24 12:00 Received: 08/02/24 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	08/07/24 11:36	08/07/24 19:04	7439-89-6	
Manganese	ND	mg/L	0.040	0.011	1	08/07/24 11:36	08/07/24 19:04	7439-96-5	
Potassium	ND	mg/L	0.50	0.15	1	08/07/24 11:36	08/07/24 19:04	7440-09-7	
Sodium	ND	mg/L	1.0	0.58	1	08/07/24 11:36	08/07/24 19:04	7440-23-5	
Calcium	ND	mg/L	1.0	0.12	1	08/07/24 11:36	08/07/24 19:04	7440-70-2	
Magnesium	ND	mg/L	0.050	0.012	1	08/07/24 11:36	08/07/24 19:04	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	08/07/24 11:55	08/07/24 18:38	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	08/07/24 11:55	08/08/24 10:13	7440-38-2	
Barium	ND	mg/L	0.0050	0.00047	1	08/07/24 11:55	08/07/24 18:38	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	08/07/24 11:55	08/07/24 18:38	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	08/07/24 11:55	08/08/24 10:13	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	08/07/24 11:55	08/07/24 18:38	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/07/24 11:55	08/07/24 18:38	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	08/07/24 11:55	08/07/24 18:38	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/07/24 11:55	08/07/24 18:38	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	08/07/24 11:55	08/07/24 18:38	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	08/07/24 11:55	08/07/24 18:38	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	08/07/24 11:55	08/07/24 18:38	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/07/24 11:55	08/07/24 18:38	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	08/14/24 10:30	08/14/24 15:38	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		08/05/24 16:30		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		08/06/24 15:29		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		08/06/24 15:29		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		08/06/24 15:29		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		08/03/24 03:20	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		08/03/24 11:04	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CA)
Pace Project No.: 92745452

Sample: HAM-AP1-EB-01 **Lab ID: 92745452012** Collected: 08/01/24 12:00 Received: 08/02/24 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	ND	mg/L	0.10	0.050	1		08/03/24 11:04	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		08/03/24 11:04	14808-79-8	

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QUALITY CONTROL DATA

Project: Hammond AP-1 (CA)
Pace Project No.: 92745452

QC Batch: 873657
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92745452001, 92745452002, 92745452003, 92745452004, 92745452005, 92745452006, 92745452007, 92745452008, 92745452009, 92745452010, 92745452011, 92745452012

METHOD BLANK: 4500486 Matrix: Water
Associated Lab Samples: 92745452001, 92745452002, 92745452003, 92745452004, 92745452005, 92745452006, 92745452007, 92745452008, 92745452009, 92745452010, 92745452011, 92745452012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	08/07/24 17:00	
Iron	mg/L	ND	0.040	0.025	08/07/24 17:00	
Magnesium	mg/L	ND	0.050	0.012	08/07/24 17:00	
Manganese	mg/L	ND	0.040	0.011	08/07/24 17:00	
Potassium	mg/L	ND	0.50	0.15	08/07/24 17:00	
Sodium	mg/L	ND	1.0	0.58	08/07/24 17:00	

LABORATORY CONTROL SAMPLE: 4500487

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0	103	80-120	
Iron	mg/L	1	1.0	104	80-120	
Magnesium	mg/L	1	1.0	103	80-120	
Manganese	mg/L	1	1.1	105	80-120	
Potassium	mg/L	1	1.0	101	80-120	
Sodium	mg/L	1	1.1	109	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4500488 4500489

Parameter	Units	92745452001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	123	1	1	122	122	-90	-79	75-125	0	20	M1
Iron	mg/L	13.2	1	1	13.9	14.0	73	86	75-125	1	20	M1
Magnesium	mg/L	17.8	1	1	18.6	18.6	74	78	75-125	0	20	M1
Manganese	mg/L	4.2	1	1	5.1	5.1	91	96	75-125	1	20	
Potassium	mg/L	5.7	1	1	6.5	6.5	76	81	75-125	1	20	
Sodium	mg/L	8.6	1	1	9.4	9.4	79	83	75-125	0	20	

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QUALITY CONTROL DATA

Project: Hammond AP-1 (CA)
Pace Project No.: 92745452

QC Batch: 873910
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92745452001, 92745452002, 92745452003, 92745452004, 92745452005, 92745452006, 92745452007, 92745452008, 92745452009, 92745452010, 92745452011, 92745452012

METHOD BLANK: 4501702 Matrix: Water
Associated Lab Samples: 92745452001, 92745452002, 92745452003, 92745452004, 92745452005, 92745452006, 92745452007, 92745452008, 92745452009, 92745452010, 92745452011, 92745452012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00054	08/07/24 17:12	
Arsenic	mg/L	ND	0.0050	0.00084	08/08/24 10:01	
Barium	mg/L	ND	0.0050	0.00047	08/07/24 17:12	
Beryllium	mg/L	ND	0.00050	0.000094	08/07/24 17:12	
Boron	mg/L	ND	0.040	0.012	08/08/24 10:01	
Cadmium	mg/L	ND	0.00050	0.00010	08/07/24 17:12	
Chromium	mg/L	ND	0.0050	0.0019	08/07/24 17:12	
Cobalt	mg/L	ND	0.0050	0.00032	08/07/24 17:12	
Lead	mg/L	ND	0.0010	0.00016	08/07/24 17:12	
Lithium	mg/L	ND	0.030	0.0016	08/07/24 17:12	
Molybdenum	mg/L	ND	0.010	0.00062	08/07/24 17:12	
Selenium	mg/L	ND	0.0050	0.00096	08/07/24 17:12	
Thallium	mg/L	ND	0.0010	0.00038	08/07/24 17:12	

LABORATORY CONTROL SAMPLE: 4501703

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.10	103	80-120	
Arsenic	mg/L	0.1	0.10	102	80-120	
Barium	mg/L	0.1	0.098	98	80-120	
Beryllium	mg/L	0.1	0.10	101	80-120	
Boron	mg/L	1	1.0	101	80-120	
Cadmium	mg/L	0.1	0.098	98	80-120	
Chromium	mg/L	0.1	0.10	100	80-120	
Cobalt	mg/L	0.1	0.097	97	80-120	
Lead	mg/L	0.1	0.10	101	80-120	
Lithium	mg/L	0.1	0.10	103	80-120	
Molybdenum	mg/L	0.1	0.10	105	80-120	
Selenium	mg/L	0.1	0.10	102	80-120	
Thallium	mg/L	0.1	0.10	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4501704 4501705

Parameter	Units	92745452002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.10	0.10	101	100	75-125	1	20	

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QUALITY CONTROL DATA

Project: Hammond AP-1 (CA)
Pace Project No.: 92745452

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4501704 4501705

Parameter	Units	92745452002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	0.26	0.1	0.1	0.35	0.35	97	93	75-125	1	20	
Barium	mg/L	0.044	0.1	0.1	0.14	0.14	101	100	75-125	1	20	
Beryllium	mg/L	0.000098J	0.1	0.1	0.092	0.089	92	89	75-125	3	20	
Boron	mg/L	0.63	1	1	1.6	1.6	97	93	75-125	3	20	
Cadmium	mg/L	ND	0.1	0.1	0.098	0.098	98	98	75-125	0	20	
Chromium	mg/L	ND	0.1	0.1	0.094	0.091	94	91	75-125	3	20	
Cobalt	mg/L	0.073	0.1	0.1	0.17	0.16	92	90	75-125	1	20	
Lead	mg/L	ND	0.1	0.1	0.095	0.096	95	96	75-125	1	20	
Lithium	mg/L	0.022J	0.1	0.1	0.11	0.11	93	93	75-125	0	20	
Molybdenum	mg/L	0.012	0.1	0.1	0.11	0.11	100	97	75-125	3	20	
Selenium	mg/L	ND	0.1	0.1	0.10	0.10	101	99	75-125	1	20	
Thallium	mg/L	ND	0.1	0.1	0.095	0.097	95	97	75-125	2	20	

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QUALITY CONTROL DATA

Project: Hammond AP-1 (CA)
Pace Project No.: 92745452

QC Batch: 875505 | Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A | Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92745452001, 92745452002, 92745452003, 92745452004, 92745452005, 92745452006, 92745452007, 92745452008, 92745452009, 92745452010, 92745452011, 92745452012

METHOD BLANK: 4509737 Matrix: Water
Associated Lab Samples: 92745452001, 92745452002, 92745452003, 92745452004, 92745452005, 92745452006, 92745452007, 92745452008, 92745452009, 92745452010, 92745452011, 92745452012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	08/14/24 14:45	

LABORATORY CONTROL SAMPLE: 4509738

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0025	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4509739 4509740

Parameter	Units	92745452001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0025	0.0025	100	100	75-125	0	20	

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QUALITY CONTROL DATA

Project: Hammond AP-1 (CA)
Pace Project No.: 92745452

QC Batch: 873350 | Analysis Method: SM 2540C-2015
QC Batch Method: SM 2540C-2015 | Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92745452003, 92745452004, 92745452005, 92745452006, 92745452010

METHOD BLANK: 4498843 Matrix: Water
Associated Lab Samples: 92745452003, 92745452004, 92745452005, 92745452006, 92745452010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	08/05/24 12:39	

LABORATORY CONTROL SAMPLE: 4498844

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	479	120	80-120	

SAMPLE DUPLICATE: 4498845

Parameter	Units	92745459001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	239	232	3	10	

SAMPLE DUPLICATE: 4498846

Parameter	Units	92745452006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	470	489	4	10	

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QUALITY CONTROL DATA

Project: Hammond AP-1 (CA)
Pace Project No.: 92745452

QC Batch: 873411 | Analysis Method: SM 2540C-2015
QC Batch Method: SM 2540C-2015 | Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92745452001, 92745452002, 92745452007, 92745452008, 92745452009, 92745452011, 92745452012

METHOD BLANK: 4499128 Matrix: Water
Associated Lab Samples: 92745452001, 92745452002, 92745452007, 92745452008, 92745452009, 92745452011, 92745452012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	08/05/24 16:11	

LABORATORY CONTROL SAMPLE: 4499129

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	407	102	80-120	

SAMPLE DUPLICATE: 4499130

Parameter	Units	92745459017 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	166	166	0	10	

SAMPLE DUPLICATE: 4499131

Parameter	Units	92745452011 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	ND	ND		10	

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QUALITY CONTROL DATA

Project: Hammond AP-1 (CA)
Pace Project No.: 92745452

QC Batch: 873172 — Analysis Method: SM 2320B-2011
QC Batch Method: SM 2320B-2011 — Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92745452001, 92745452002, 92745452003, 92745452004, 92745452005, 92745452006, 92745452007, 92745452008, 92745452009, 92745452010, 92745452011, 92745452012

METHOD BLANK: 4498414 — Matrix: Water
Associated Lab Samples: 92745452001, 92745452002, 92745452003, 92745452004, 92745452005, 92745452006, 92745452007, 92745452008, 92745452009, 92745452010, 92745452011, 92745452012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	08/06/24 12:56	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	08/06/24 12:56	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	08/06/24 12:56	

LABORATORY CONTROL SAMPLE: 4498415

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	52.8	106	80-120	

LABORATORY CONTROL SAMPLE: 4498416

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	52.1	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4498417 — 4498418

Parameter	Units	92745452001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	119	50	50	165	168	93	98	80-120	1	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4498419 — 4498420

Parameter	Units	92745452002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	76.4	50	50	127	126	101	100	80-120	0	25	

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QUALITY CONTROL DATA

Project: Hammond AP-1 (CA)
Pace Project No.: 92745452

QC Batch: 873142 — Analysis Method: SM 4500-S2D-2011
QC Batch Method: SM 4500-S2D-2011 — Analysis Description: 4500S2D Sulfide Water
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92745452001, 92745452002, 92745452003, 92745452004, 92745452005, 92745452006, 92745452007, 92745452008, 92745452009, 92745452010, 92745452011, 92745452012

METHOD BLANK: 4498333 — Matrix: Water
Associated Lab Samples: 92745452001, 92745452002, 92745452003, 92745452004, 92745452005, 92745452006, 92745452007, 92745452008, 92745452009, 92745452010, 92745452011, 92745452012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	0.022	08/03/24 03:06	

LABORATORY CONTROL SAMPLE: 4498334

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	0.53	107	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4498335 4498336

Parameter	Units	92745068001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.48	0.50	94	98	80-120	4	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4498337 4498338

Parameter	Units	92745452006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.49	0.51	98	102	80-120	4	10	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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(704)875-9092

QUALITY CONTROL DATA

Project: Hammond AP-1 (CA)
Pace Project No.: 92745452

QC Batch: 873156
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92745452001, 92745452002, 92745452003, 92745452004, 92745452005, 92745452006, 92745452007, 92745452008, 92745452009, 92745452010, 92745452011, 92745452012

METHOD BLANK: 4498354 Matrix: Water
Associated Lab Samples: 92745452001, 92745452002, 92745452003, 92745452004, 92745452005, 92745452006, 92745452007, 92745452008, 92745452009, 92745452010, 92745452011, 92745452012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	08/03/24 09:56	
Fluoride	mg/L	ND	0.10	0.050	08/03/24 09:56	
Sulfate	mg/L	ND	1.0	0.50	08/03/24 09:56	

LABORATORY CONTROL SAMPLE: 4498355

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.4	99	90-110	
Fluoride	mg/L	2.5	2.5	101	90-110	
Sulfate	mg/L	50	48.8	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4498356 4498357

Parameter	Units	92745452001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	16.7	50	50	65.1	65.7	97	98	90-110	1	10	
Fluoride	mg/L	0.22	2.5	2.5	2.6	2.6	95	96	90-110	1	10	
Sulfate	mg/L	223	50	50	265	266	83	84	90-110	0	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4498358 4498359

Parameter	Units	92745452011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	ND	50	50	48.6	48.3	97	96	90-110	1	10	
Fluoride	mg/L	ND	2.5	2.5	2.4	2.4	96	95	90-110	2	10	
Sulfate	mg/L	ND	50	50	47.9	47.6	96	95	90-110	1	10	

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QUALIFIERS

Project: Hammond AP-1 (CA)
Pace Project No.: 92745452

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Hammond AP-1 (CA)
Pace Project No.: 92745452

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92745452001	**HAM-PT-07**	EPA 3010A	873657	EPA 6010D	873965
92745452002	**HAM-PT-08**	EPA 3010A	873657	EPA 6010D	873965
92745452003	**HAM-PT-09**	EPA 3010A	873657	EPA 6010D	873965
92745452004	**HAM-PT-10**	EPA 3010A	873657	EPA 6010D	873965
92745452005	**HAM-PT-11**	EPA 3010A	873657	EPA 6010D	873965
92745452006	**HAM-PT-12**	EPA 3010A	873657	EPA 6010D	873965
92745452007	**HAM-PT-13**	EPA 3010A	873657	EPA 6010D	873965
92745452008	**HAM-PT-14**	EPA 3010A	873657	EPA 6010D	873965
92745452009	**HAM-PT-15**	EPA 3010A	873657	EPA 6010D	873965
92745452010	**HAM-AP1-FD-01**	EPA 3010A	873657	EPA 6010D	873965
92745452011	**HAM-AP1-FB-01**	EPA 3010A	873657	EPA 6010D	873965
92745452012	**HAM-AP1-EB-01**	EPA 3010A	873657	EPA 6010D	873965
92745452001	**HAM-PT-07**	EPA 3005A	873910	EPA 6020B	874022
92745452002	**HAM-PT-08**	EPA 3005A	873910	EPA 6020B	874022
92745452003	**HAM-PT-09**	EPA 3005A	873910	EPA 6020B	874022
92745452004	**HAM-PT-10**	EPA 3005A	873910	EPA 6020B	874022
92745452005	**HAM-PT-11**	EPA 3005A	873910	EPA 6020B	874022
92745452006	**HAM-PT-12**	EPA 3005A	873910	EPA 6020B	874022
92745452007	**HAM-PT-13**	EPA 3005A	873910	EPA 6020B	874022
92745452008	**HAM-PT-14**	EPA 3005A	873910	EPA 6020B	874022
92745452009	**HAM-PT-15**	EPA 3005A	873910	EPA 6020B	874022
92745452010	**HAM-AP1-FD-01**	EPA 3005A	873910	EPA 6020B	874022
92745452011	**HAM-AP1-FB-01**	EPA 3005A	873910	EPA 6020B	874022
92745452012	**HAM-AP1-EB-01**	EPA 3005A	873910	EPA 6020B	874022
92745452001	**HAM-PT-07**	EPA 7470A	875505	EPA 7470A	875591
92745452002	**HAM-PT-08**	EPA 7470A	875505	EPA 7470A	875591
92745452003	**HAM-PT-09**	EPA 7470A	875505	EPA 7470A	875591
92745452004	**HAM-PT-10**	EPA 7470A	875505	EPA 7470A	875591
92745452005	**HAM-PT-11**	EPA 7470A	875505	EPA 7470A	875591
92745452006	**HAM-PT-12**	EPA 7470A	875505	EPA 7470A	875591
92745452007	**HAM-PT-13**	EPA 7470A	875505	EPA 7470A	875591
92745452008	**HAM-PT-14**	EPA 7470A	875505	EPA 7470A	875591
92745452009	**HAM-PT-15**	EPA 7470A	875505	EPA 7470A	875591
92745452010	**HAM-AP1-FD-01**	EPA 7470A	875505	EPA 7470A	875591
92745452011	**HAM-AP1-FB-01**	EPA 7470A	875505	EPA 7470A	875591
92745452012	**HAM-AP1-EB-01**	EPA 7470A	875505	EPA 7470A	875591
92745452001	**HAM-PT-07**	SM 2540C-2015	873411		
92745452002	**HAM-PT-08**	SM 2540C-2015	873411		
92745452003	**HAM-PT-09**	SM 2540C-2015	873350		
92745452004	**HAM-PT-10**	SM 2540C-2015	873350		
92745452005	**HAM-PT-11**	SM 2540C-2015	873350		
92745452006	**HAM-PT-12**	SM 2540C-2015	873350		
92745452007	**HAM-PT-13**	SM 2540C-2015	873411		
92745452008	**HAM-PT-14**	SM 2540C-2015	873411		
92745452009	**HAM-PT-15**	SM 2540C-2015	873411		
92745452010	**HAM-AP1-FD-01**	SM 2540C-2015	873350		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Hammond AP-1 (CA)
Pace Project No.: 92745452

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92745452011	**HAM-AP1-FB-01**	SM 2540C-2015	873411		
92745452012	**HAM-AP1-EB-01**	SM 2540C-2015	873411		
92745452001	**HAM-PT-07**	SM 2320B-2011	873172		
92745452002	**HAM-PT-08**	SM 2320B-2011	873172		
92745452003	**HAM-PT-09**	SM 2320B-2011	873172		
92745452004	**HAM-PT-10**	SM 2320B-2011	873172		
92745452005	**HAM-PT-11**	SM 2320B-2011	873172		
92745452006	**HAM-PT-12**	SM 2320B-2011	873172		
92745452007	**HAM-PT-13**	SM 2320B-2011	873172		
92745452008	**HAM-PT-14**	SM 2320B-2011	873172		
92745452009	**HAM-PT-15**	SM 2320B-2011	873172		
92745452010	**HAM-AP1-FD-01**	SM 2320B-2011	873172		
92745452011	**HAM-AP1-FB-01**	SM 2320B-2011	873172		
92745452012	**HAM-AP1-EB-01**	SM 2320B-2011	873172		
92745452001	**HAM-PT-07**	SM 4500-S2D-2011	873142		
92745452002	**HAM-PT-08**	SM 4500-S2D-2011	873142		
92745452003	**HAM-PT-09**	SM 4500-S2D-2011	873142		
92745452004	**HAM-PT-10**	SM 4500-S2D-2011	873142		
92745452005	**HAM-PT-11**	SM 4500-S2D-2011	873142		
92745452006	**HAM-PT-12**	SM 4500-S2D-2011	873142		
92745452007	**HAM-PT-13**	SM 4500-S2D-2011	873142		
92745452008	**HAM-PT-14**	SM 4500-S2D-2011	873142		
92745452009	**HAM-PT-15**	SM 4500-S2D-2011	873142		
92745452010	**HAM-AP1-FD-01**	SM 4500-S2D-2011	873142		
92745452011	**HAM-AP1-FB-01**	SM 4500-S2D-2011	873142		
92745452012	**HAM-AP1-EB-01**	SM 4500-S2D-2011	873142		
92745452001	**HAM-PT-07**	EPA 300.0 Rev 2.1 1993	873156		
92745452002	**HAM-PT-08**	EPA 300.0 Rev 2.1 1993	873156		
92745452003	**HAM-PT-09**	EPA 300.0 Rev 2.1 1993	873156		
92745452004	**HAM-PT-10**	EPA 300.0 Rev 2.1 1993	873156		
92745452005	**HAM-PT-11**	EPA 300.0 Rev 2.1 1993	873156		
92745452006	**HAM-PT-12**	EPA 300.0 Rev 2.1 1993	873156		
92745452007	**HAM-PT-13**	EPA 300.0 Rev 2.1 1993	873156		
92745452008	**HAM-PT-14**	EPA 300.0 Rev 2.1 1993	873156		
92745452009	**HAM-PT-15**	EPA 300.0 Rev 2.1 1993	873156		
92745452010	**HAM-AP1-FD-01**	EPA 300.0 Rev 2.1 1993	873156		
92745452011	**HAM-AP1-FB-01**	EPA 300.0 Rev 2.1 1993	873156		
92745452012	**HAM-AP1-EB-01**	EPA 300.0 Rev 2.1 1993	873156		

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WO# : 92745452

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CHAIN-OF-CUSTODY / Analytical Request Documen 92745452

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Geosyntec Contacts	Company Name:	
				Address:	
Email To:	SCS Contacts	Purchase Order No.:	GPC82474-0001	Pace Quote Reference:	
Phone:	Fax:	Project Name:	Hammond AP-1	Pace Project Manager:	Bonnie Vang
Requested Due Date/TAT:	5 day	Project Number:		Pace Profile #:	10839

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER CCR

Site Location STATE: GA

Requested Analysis Filtered (Y/N)

ITEM #	Section D Required Client Information: SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	Valid Matrix Codes: MATRIX / CODE (DRINKING WATER DW WT; WATER WW; WASTE WATER P; PRODUCT SL; SOIL/SOLID OL; OIL WP; WIPE AR; AIR CT; OTHER TS; TISSUE)	MATRIX CODE (see valid codes to le	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE DATE	COLLECTED COMPOSITE TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N	Analysis Test: Chloride, Fluoride, Sulfate	Full App III and IV metals	Major Ions (Profile 10839-2)	TDS									Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
																			Y/N	N	N	N	N										
1	HAM-PT-07		WG	G	8/1/24	1343			18	5	3		1				1			X	X	X	X									N	
2	HAM-PT-08		WG	G	8/1/24	1455			23	5	3		1				1			X	X	X	X									N	
3	HAM-PT-09		WG	G	7/31/24	1333			20	5	3		1				1			X	X	X	X									N	
4	HAM-PT-10		WG	G	7/31/24	1007			17	5	3		1				1			X	X	X	X									N	
5	HAM-PT-11		WG	G	7/31/24	1646			18	5	3		1				1			X	X	X	X									N	
6	HAM-PT-12		WG	G	7/31/24	1805			19	5	3		1				1			X	X	X	X									N	
7	HAM-PT-13		WG	G	8/1/24	1247	8/2/24		24	5	3		1				1			X	X	X	X									N	
8	HAM-PT-14		WG	G	8/1/24	1545			19	5	3		1				1			X	X	X	X									N	
9	HAM-PT-15		WG	G	8/1/24	1047			24	5	3		1				1			X	X	X	X									N	
10	HAM-AP-1-FD-01		WG	G	7/31/24	0000			19	5	3		1				1			X	X	X	X									N	
11	HAM-AP-1-FB-01		WQ	G	8/1/24	1200			19	5	3		1				1			X	X	X	X									N	
12	HAM-AP-1-EB-01		WQ	G	8/1/24	1200			19	5	3		1				1			X	X	X	X									N	

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Task Code: HAM-CCR-CA-20240801	Thomas Kessler / Geosyntec	8/1/24	1800	Jamie Newsome / Geosyntec	8/1/24	1800	
	Jamie Newsome / Geosyntec	8/2/24	0952	Ryan Williams / Pace	8/1/24	0952	
	Ryan Williams / Pace	8/2/24	1400	/ Pace	8/2/24	1400	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jacob Tracy, Thomas Kessler / Geosyntec Consultants, Inc.

SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY): 8/1/24

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #: **WO#: 92745452**

PM: BV **Due Date: 08/09/24**

CLIENT: 92- GP-HAM

Courier: ☐ Commercial ☑ Pace ☐ Fed Ex ☐ UPS ☐ USPS ☐ Other: ☐ Client

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No ☑ N/A

Date/Initials Person Examining Contents: JM 8/7/24

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 214

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 5.6 Correction Factor: Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 5.6

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: WT	☑ Yes	☐ No	☐ N/A	9.
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

Qualtrax ID: 69614

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg
**Bottom half of box is to list number of bottles
***Check all unpreserved Nitrates for chlorine

Project #

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Client_____ Profile/EZ (Circle one)_____ Notes_____

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)		BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG9A-40 mL Amber NH4Cl (N/A) (Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per Kit)-VPH/Gas Kit: (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH4)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
CC																													
1		2	1																										
2		2	1																										
3		2	1																										
4		2	1																										
5		2	1																										
6		2	1																										
7		2	1																										
8		2	1																										
9		2	1																										
10		2	1																										
11		2	1																										
12		2	1																										

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

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(704)875-9092

August 26, 2024

Kristen Jurinko
Southern Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, GA 30308

RE: Project: Hammond AP-1 (CA)-20240807
Pace Project No.: 92746280

Dear Kristen Jurinko:

Enclosed are the analytical results for sample(s) received by the laboratory between August 07, 2024 and August 14, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Asheville
- Pace Analytical Services - Peachtree Corners, GA

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Bonnie Vang
bonnie.vang@pacelabs.com
704-977-0968
Project Manager

Enclosures

cc: Kip Gray, Geosyntec
Christine Hug, Geosyntec Consultants, Inc.
Thomas Kessler, Geosyntec Consultants
Whitney Law, Geosyntec Consultants
Laura Midkiff, Southern Company
Caroline Nelson, Geosyntec Consultants, Inc
Jamie Newsome, Geosyntec Consultants
Zain Webb, Geosyntec Consultants

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CERTIFICATIONS

Project: Hammond AP-1 (CA)-20240807
Pace Project No.: 92746280

Pace Analytical Services Asheville
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Laboratory ID: 99030
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners
110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812
North Carolina Certification #: 381
South Carolina Certification #: 98011001
Virginia Certification #: 460204

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SAMPLE SUMMARY

Project: Hammond AP-1 (CA)-20240807
Pace Project No.: 92746280

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92746280001	**HAM-PT-09**	Water	08/06/24 11:10	08/07/24 12:25
92746280002	**HAM-PT-12**	Water	08/06/24 16:20	08/07/24 12:25
92746280003	**HAM-AP1-FD-01**	Water	08/06/24 00:00	08/07/24 12:25
92746280004	**HAM-PT-08**	Water	08/08/24 18:10	08/09/24 14:15
92746280005	**HAM-PT-11**	Water	08/07/24 10:30	08/09/24 14:15
92746280006	**HAM-PT-14**	Water	08/08/24 13:21	08/09/24 14:15
92746280007	**HAM-PT-15**	Water	08/09/24 10:10	08/12/24 12:10
92746280008	**HAM-PT-07**	Water	08/09/24 12:15	08/12/24 12:10
92746280009	**HAM-PT-13**	Water	08/09/24 14:05	08/12/24 12:10
92746280010	**HAM-AP1-EB-01**	Water	08/09/24 14:40	08/12/24 12:10
92746280011	**HAM-AP1-FB-01**	Water	08/09/24 14:50	08/12/24 12:10
92746280012	**HAM-MW-53**	Water	08/12/24 14:45	08/14/24 16:35
92746280013	**HAM-MW-54**	Water	08/12/24 12:35	08/14/24 14:40
92746282001	**HAM-PT-10**	Water	08/05/24 17:02	08/07/24 12:25

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SAMPLE ANALYTE COUNT

Project: Hammond AP-1 (CA)-20240807
Pace Project No.: 92746280

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92746280001	**HAM-PT-09**	EPA 6010D	MJS2	1
		EPA 6020B	CW1	2
92746280002	**HAM-PT-12**	EPA 6010D	MJS2	1
		EPA 6020B	CW1	2
92746280003	**HAM-AP1-FD-01**	EPA 6010D	MJS2	1
		EPA 6020B	CW1	3
92746280004	**HAM-PT-08**	EPA 6010D	MT1	1
		EPA 6020B	CW1	2
92746280005	**HAM-PT-11**	EPA 6010D	MT1	1
		EPA 6020B	CW1	2
92746280006	**HAM-PT-14**	EPA 6010D	MT1	1
		EPA 6020B	CW1	2
92746280007	**HAM-PT-15**	EPA 6010D	AJM	1
		EPA 6020B	CW1	2
92746280008	**HAM-PT-07**	EPA 6010D	AJM	1
		EPA 6020B	CW1	2
92746280009	**HAM-PT-13**	EPA 6010D	AJM	1
		EPA 6020B	CW1	2
92746280010	**HAM-AP1-EB-01**	EPA 6010D	AJM	1
		EPA 6020B	CW1	3
92746280011	**HAM-AP1-FB-01**	EPA 6010D	MJS2	1
		EPA 6020B	CW1	3
92746280012	**HAM-MW-53**	EPA 6010D	MJS2	5
		EPA 6020B	CW1	2
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
92746280013	**HAM-MW-54**	EPA 6010D	MJS2	5
		EPA 6020B	CW1	2
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
92746282001	**HAM-PT-10**	EPA 6010D	MJS2	1
		EPA 6020B	CW1	2

PASI-A = Pace Analytical Services - Asheville
PASI-GA = Pace Analytical Services - Peachtree Corners, GA

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SUMMARY OF DETECTION

Project: Hammond AP-1 (CA)-20240807
Pace Project No.: 92746280

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92746280001	**HAM-PT-09**					
EPA 6010D	Iron	0.31	mg/L	0.040	08/15/24 22:36	
EPA 6020B	Boron	1.1	mg/L	0.040	08/13/24 19:02	
EPA 6020B	Molybdenum	0.24	mg/L	0.010	08/13/24 19:02	
92746280002	**HAM-PT-12**					
EPA 6010D	Iron	0.33	mg/L	0.040	08/15/24 22:40	
EPA 6020B	Boron	1.1	mg/L	0.040	08/13/24 19:05	
EPA 6020B	Molybdenum	0.20	mg/L	0.010	08/13/24 19:05	
92746280003	**HAM-AP1-FD-01**					
EPA 6010D	Iron	0.28	mg/L	0.040	08/15/24 22:43	
EPA 6020B	Boron	0.052	mg/L	0.040	08/13/24 19:09	
EPA 6020B	Molybdenum	0.00067J	mg/L	0.010	08/13/24 19:09	
92746280004	**HAM-PT-08**					
EPA 6010D	Iron	16.7	mg/L	0.040	08/16/24 17:23	
EPA 6020B	Arsenic	0.32	mg/L	0.0050	08/15/24 18:43	
EPA 6020B	Boron	0.55	mg/L	0.040	08/15/24 18:43	
92746280005	**HAM-PT-11**					
EPA 6010D	Iron	0.36	mg/L	0.040	08/16/24 17:26	
EPA 6020B	Boron	1.3	mg/L	0.040	08/15/24 18:47	
EPA 6020B	Molybdenum	0.086	mg/L	0.010	08/15/24 18:47	
92746280006	**HAM-PT-14**					
EPA 6010D	Iron	17.3	mg/L	0.040	08/16/24 17:30	
EPA 6020B	Arsenic	0.22	mg/L	0.0050	08/15/24 18:51	
EPA 6020B	Boron	0.55	mg/L	0.040	08/15/24 18:51	
92746280007	**HAM-PT-15**					
EPA 6010D	Iron	14.5	mg/L	0.040	08/18/24 19:52	
EPA 6020B	Arsenic	0.43	mg/L	0.0050	08/19/24 16:56	
EPA 6020B	Boron	0.60	mg/L	0.040	08/19/24 16:56	
92746280008	**HAM-PT-07**					
EPA 6010D	Iron	18.3	mg/L	0.040	08/18/24 20:02	
EPA 6020B	Arsenic	0.21	mg/L	0.0050	08/19/24 17:00	
EPA 6020B	Boron	0.54	mg/L	0.040	08/19/24 17:00	
92746280009	**HAM-PT-13**					
EPA 6010D	Iron	24.0	mg/L	0.040	08/18/24 20:05	
EPA 6020B	Arsenic	0.26	mg/L	0.0050	08/19/24 17:04	
EPA 6020B	Boron	0.52	mg/L	0.040	08/19/24 17:04	
92746280012	**HAM-MW-53**					
EPA 6010D	Iron	0.13	mg/L	0.040	08/22/24 17:42	
EPA 6010D	Manganese	8.8	mg/L	0.040	08/22/24 17:42	
EPA 6010D	Potassium	6.9	mg/L	0.50	08/22/24 17:42	
EPA 6010D	Sodium	17.1	mg/L	1.0	08/22/24 17:42	
EPA 6010D	Magnesium	40.2	mg/L	0.050	08/22/24 17:42	
EPA 6020B	Boron	8.8	mg/L	0.040	08/21/24 17:19	

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SUMMARY OF DETECTION

Project: Hammond AP-1 (CA)-20240807
Pace Project No.: 92746280

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92746280013	**HAM-MW-54**					
EPA 6010D	Iron	0.11	mg/L	0.040	08/22/24 17:53	
EPA 6010D	Manganese	8.6	mg/L	0.040	08/22/24 17:53	
EPA 6010D	Potassium	6.4	mg/L	0.50	08/22/24 17:53	
EPA 6010D	Sodium	15.8	mg/L	1.0	08/22/24 17:53	
EPA 6010D	Magnesium	37.8	mg/L	0.050	08/22/24 17:53	
EPA 6020B	Arsenic	0.0077	mg/L	0.0050	08/21/24 17:30	
EPA 6020B	Boron	8.8	mg/L	0.040	08/21/24 17:30	
92746282001	**HAM-PT-10**					
EPA 6010D	Iron	0.11	mg/L	0.040	08/15/24 22:47	
EPA 6020B	Boron	0.015J	mg/L	0.040	08/13/24 19:20	

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CA)-20240807
Pace Project No.: 92746280

Sample: HAM-PT-09 **Lab ID: 92746280001** Collected: 08/06/24 11:10 Received: 08/07/24 12:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.31**	mg/L	0.040	0.025	1	08/09/24 11:23	08/15/24 22:36	7439-89-6	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Boron	**1.1**	mg/L	0.040	0.012	1	08/08/24 10:02	08/13/24 19:02	7440-42-8	
Molybdenum	**0.24**	mg/L	0.010	0.00062	1	08/08/24 10:02	08/13/24 19:02	7439-98-7	

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CA)-20240807
Pace Project No.: 92746280

Sample: HAM-PT-12 **Lab ID: 92746280002** Collected: 08/06/24 16:20 Received: 08/07/24 12:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.33**	mg/L	0.040	0.025	1	08/09/24 11:23	08/15/24 22:40	7439-89-6	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Boron	**1.1**	mg/L	0.040	0.012	1	08/08/24 10:02	08/13/24 19:05	7440-42-8	
Molybdenum	**0.20**	mg/L	0.010	0.00062	1	08/08/24 10:02	08/13/24 19:05	7439-98-7	

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CA)-20240807
Pace Project No.: 92746280

Sample: HAM-AP1-FD-01 **Lab ID: 92746280003** Collected: 08/06/24 00:00 Received: 08/07/24 12:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.28**	mg/L	0.040	0.025	1	08/09/24 11:23	08/15/24 22:43	7439-89-6	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Arsenic	ND	mg/L	0.0050	0.00084	1	08/08/24 10:02	08/13/24 19:09	7440-38-2	
Boron	**0.052**	mg/L	0.040	0.012	1	08/08/24 10:02	08/13/24 19:09	7440-42-8	
Molybdenum	**0.00067J**	mg/L	0.010	0.00062	1	08/08/24 10:02	08/13/24 19:09	7439-98-7	

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CA)-20240807
Pace Project No.: 92746280

Sample: HAM-PT-08 **Lab ID: 92746280004** Collected: 08/08/24 18:10 Received: 08/09/24 14:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**16.7**	mg/L	0.040	0.025	1	08/15/24 17:37	08/16/24 17:23	7439-89-6	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Arsenic	**0.32**	mg/L	0.0050	0.00084	1	08/15/24 12:41	08/15/24 18:43	7440-38-2	
Boron	**0.55**	mg/L	0.040	0.012	1	08/15/24 12:41	08/15/24 18:43	7440-42-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CA)-20240807
Pace Project No.: 92746280

Sample: HAM-PT-11 **Lab ID: 92746280005** Collected: 08/07/24 10:30 Received: 08/09/24 14:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.36**	mg/L	0.040	0.025	1	08/15/24 17:37	08/16/24 17:26	7439-89-6	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Boron	**1.3**	mg/L	0.040	0.012	1	08/15/24 12:41	08/15/24 18:47	7440-42-8	
Molybdenum	**0.086**	mg/L	0.010	0.00062	1	08/15/24 12:41	08/15/24 18:47	7439-98-7	

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CA)-20240807
Pace Project No.: 92746280

Sample: HAM-PT-14 **Lab ID: 92746280006** Collected: 08/08/24 13:21 Received: 08/09/24 14:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**17.3**	mg/L	0.040	0.025	1	08/15/24 17:37	08/16/24 17:30	7439-89-6	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Arsenic	**0.22**	mg/L	0.0050	0.00084	1	08/15/24 12:41	08/15/24 18:51	7440-38-2	
Boron	**0.55**	mg/L	0.040	0.012	1	08/15/24 12:41	08/15/24 18:51	7440-42-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CA)-20240807
Pace Project No.: 92746280

Sample: HAM-PT-15 **Lab ID: 92746280007** Collected: 08/09/24 10:10 Received: 08/12/24 12:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**14.5**	mg/L	0.040	0.025	1	08/16/24 15:57	08/18/24 19:52	7439-89-6	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Arsenic	**0.43**	mg/L	0.0050	0.00084	1	08/15/24 13:30	08/19/24 16:56	7440-38-2	
Boron	**0.60**	mg/L	0.040	0.012	1	08/15/24 13:30	08/19/24 16:56	7440-42-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CA)-20240807
Pace Project No.: 92746280

Sample: HAM-PT-07 **Lab ID: 92746280008** Collected: 08/09/24 12:15 Received: 08/12/24 12:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**18.3**	mg/L	0.040	0.025	1	08/16/24 15:57	08/18/24 20:02	7439-89-6	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Arsenic	**0.21**	mg/L	0.0050	0.00084	1	08/15/24 13:30	08/19/24 17:00	7440-38-2	
Boron	**0.54**	mg/L	0.040	0.012	1	08/15/24 13:30	08/19/24 17:00	7440-42-8	

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Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Hammond AP-1 (CA)-20240807
Pace Project No.: 92746280

Sample: HAM-PT-13 **Lab ID: 92746280009** Collected: 08/09/24 14:05 Received: 08/12/24 12:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**24.0**	mg/L	0.040	0.025	1	08/16/24 15:57	08/18/24 20:05	7439-89-6	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Arsenic	**0.26**	mg/L	0.0050	0.00084	1	08/15/24 13:30	08/19/24 17:04	7440-38-2	
Boron	**0.52**	mg/L	0.040	0.012	1	08/15/24 13:30	08/19/24 17:04	7440-42-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CA)-20240807
Pace Project No.: 92746280

Sample: HAM-AP1-EB-01 **Lab ID: 92746280010** Collected: 08/09/24 14:40 Received: 08/12/24 12:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	08/16/24 15:57	08/18/24 20:11	7439-89-6	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Arsenic	ND	mg/L	0.0050	0.00084	1	08/15/24 13:30	08/19/24 17:08	7440-38-2	
Boron	ND	mg/L	0.040	0.012	1	08/15/24 13:30	08/19/24 17:08	7440-42-8	
Molybdenum	ND	mg/L	0.010	0.00062	1	08/15/24 13:30	08/19/24 17:08	7439-98-7	

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CA)-20240807
Pace Project No.: 92746280

Sample: HAM-AP1-FB-01 **Lab ID: 92746280011** Collected: 08/09/24 14:50 Received: 08/12/24 12:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	08/21/24 13:18	08/22/24 14:21	7439-89-6	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Arsenic	ND	mg/L	0.0050	0.00084	1	08/15/24 13:30	08/19/24 17:22	7440-38-2	
Boron	ND	mg/L	0.040	0.012	1	08/15/24 13:30	08/19/24 17:22	7440-42-8	
Molybdenum	ND	mg/L	0.010	0.00062	1	08/15/24 13:30	08/19/24 17:22	7439-98-7	

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CA)-20240807
Pace Project No.: 92746280

Sample: HAM-MW-53 **Lab ID: 92746280012** Collected: 08/12/24 14:45 Received: 08/14/24 16:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.13**	mg/L	0.040	0.025	1	08/21/24 13:41	08/22/24 17:42	7439-89-6	
Manganese	**8.8**	mg/L	0.040	0.011	1	08/21/24 13:41	08/22/24 17:42	7439-96-5	
Potassium	**6.9**	mg/L	0.50	0.15	1	08/21/24 13:41	08/22/24 17:42	7440-09-7	
Sodium	**17.1**	mg/L	1.0	0.58	1	08/21/24 13:41	08/22/24 17:42	7440-23-5	
Magnesium	**40.2**	mg/L	0.050	0.012	1	08/21/24 13:41	08/22/24 17:42	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Boron	**8.8**	mg/L	0.040	0.012	1	08/17/24 10:09	08/21/24 17:19	7440-42-8	
Molybdenum	ND	mg/L	0.010	0.00062	1	08/17/24 10:09	08/21/24 17:19	7439-98-7	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		08/15/24 20:52		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		08/15/24 20:52		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		08/15/24 20:52		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		08/17/24 04:13	18496-25-8	M1

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CA)-20240807
Pace Project No.: 92746280

Sample: HAM-MW-54 **Lab ID: 92746280013** Collected: 08/12/24 12:35 Received: 08/14/24 14:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.11**	mg/L	0.040	0.025	1	08/21/24 13:41	08/22/24 17:53	7439-89-6	
Manganese	**8.6**	mg/L	0.040	0.011	1	08/21/24 13:41	08/22/24 17:53	7439-96-5	
Potassium	**6.4**	mg/L	0.50	0.15	1	08/21/24 13:41	08/22/24 17:53	7440-09-7	
Sodium	**15.8**	mg/L	1.0	0.58	1	08/21/24 13:41	08/22/24 17:53	7440-23-5	
Magnesium	**37.8**	mg/L	0.050	0.012	1	08/21/24 13:41	08/22/24 17:53	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Arsenic	**0.0077**	mg/L	0.0050	0.00084	1	08/17/24 10:09	08/21/24 17:30	7440-38-2	
Boron	**8.8**	mg/L	0.040	0.012	1	08/17/24 10:09	08/21/24 17:30	7440-42-8	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		08/15/24 20:55		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		08/15/24 20:55		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		08/15/24 20:55		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		08/17/24 04:15	18496-25-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CA)-20240807
Pace Project No.: 92746280

Sample: HAM-PT-10 **Lab ID: 92746282001** Collected: 08/05/24 17:02 Received: 08/07/24 12:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.11**	mg/L	0.040	0.025	1	08/09/24 11:23	08/15/24 22:47	7439-89-6	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Boron	**0.015J**	mg/L	0.040	0.012	1	08/08/24 10:02	08/13/24 19:20	7440-42-8	
Molybdenum	ND	mg/L	0.010	0.00062	1	08/08/24 10:02	08/13/24 19:20	7439-98-7	

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QUALITY CONTROL DATA

Project: Hammond AP-1 (CA)-20240807
Pace Project No.: 92746280

QC Batch: 874538 | Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A | Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92746280001, 92746280002, 92746280003, 92746282001

METHOD BLANK: 4505177 Matrix: Water
Associated Lab Samples: 92746280001, 92746280002, 92746280003, 92746282001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Iron	mg/L	ND	0.040	0.025	08/15/24 21:56	

LABORATORY CONTROL SAMPLE: 4505178

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron	mg/L	1	1.0	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4505179 4505180

Parameter	Units	92746435001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Iron	mg/L	242 ug/L	1	1	1.3	1.2	101	100	75-125	1	20	

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QUALITY CONTROL DATA

Project: Hammond AP-1 (CA)-20240807
Pace Project No.: 92746280

QC Batch: 875958
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92746280004, 92746280005, 92746280006

METHOD BLANK: 4512108 Matrix: Water
Associated Lab Samples: 92746280004, 92746280005, 92746280006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Iron	mg/L	ND	0.040	0.025	08/16/24 15:49	

LABORATORY CONTROL SAMPLE: 4512109

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron	mg/L	1	0.98	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4512110 4512111

Parameter	Units	92746891009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Iron	mg/L	2.7	1	1	3.6	3.5	98	83	75-125	4	20	

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QUALITY CONTROL DATA

Project: Hammond AP-1 (CA)-20240807
Pace Project No.: 92746280

QC Batch: 876300
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92746280007, 92746280008, 92746280009, 92746280010

METHOD BLANK: 4514148 Matrix: Water
Associated Lab Samples: 92746280007, 92746280008, 92746280009, 92746280010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Iron	mg/L	ND	0.040	0.025	08/18/24 18:19	

LABORATORY CONTROL SAMPLE: 4514149

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron	mg/L	1	1.1	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4514150 4514151

Parameter	Units	92746288005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Iron	mg/L	2.8	1	1	3.8	3.9	99	112	75-125	3	20	

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QUALITY CONTROL DATA

Project: Hammond AP-1 (CA)-20240807
Pace Project No.: 92746280

QC Batch: 877200
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92746280011

METHOD BLANK: 4518173 Matrix: Water
Associated Lab Samples: 92746280011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Iron	mg/L	ND	0.040	0.025	08/22/24 14:14	

LABORATORY CONTROL SAMPLE: 4518174

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron	mg/L	1	1.2	115	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4518175 4518176

Parameter	Units	92747047001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Iron	mg/L	2.1	1	1	3.1	3.1	107	105	75-125	0	20	

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QUALITY CONTROL DATA

Project: Hammond AP-1 (CA)-20240807
Pace Project No.: 92746280

QC Batch: 877202
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92746280012, 92746280013

METHOD BLANK: 4518182 Matrix: Water
Associated Lab Samples: 92746280012, 92746280013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Iron	mg/L	ND	0.040	0.025	08/22/24 16:05	
Magnesium	mg/L	ND	0.050	0.012	08/22/24 16:05	
Manganese	mg/L	ND	0.040	0.011	08/22/24 16:05	
Potassium	mg/L	ND	0.50	0.15	08/22/24 16:05	
Sodium	mg/L	ND	1.0	0.58	08/22/24 16:05	

LABORATORY CONTROL SAMPLE: 4518183

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron	mg/L	1	1.2	119	80-120	
Magnesium	mg/L	1	1.2	118	80-120	
Manganese	mg/L	1	1.1	110	80-120	
Potassium	mg/L	1	1.1	113	80-120	
Sodium	mg/L	1	1.2	116	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4518184 4518185

Parameter	Units	92746783017 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Iron	mg/L	ND	1	1	1.1	1.1	111	110	75-125	2	20	
Magnesium	mg/L	7.0	1	1	8.1	8.1	107	110	75-125	0	20	
Manganese	mg/L	ND	1	1	1.1	1.1	107	108	75-125	0	20	
Potassium	mg/L	1.8	1	1	2.8	2.8	104	103	75-125	0	20	
Sodium	mg/L	1.9	1	1	2.9	3.0	105	112	75-125	3	20	

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QUALITY CONTROL DATA

Project: Hammond AP-1 (CA)-20240807
Pace Project No.: 92746280

QC Batch: 874191
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92746280001, 92746280002, 92746280003, 92746282001

METHOD BLANK: 4503331 Matrix: Water
Associated Lab Samples: 92746280001, 92746280002, 92746280003, 92746282001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	mg/L	ND	0.0050	0.00084	08/13/24 17:51	
Boron	mg/L	ND	0.040	0.012	08/13/24 17:51	
Molybdenum	mg/L	ND	0.010	0.00062	08/13/24 17:51	

LABORATORY CONTROL SAMPLE: 4503332

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	0.1	0.095	95	80-120	
Boron	mg/L	1	0.92	92	80-120	
Molybdenum	mg/L	0.1	0.099	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4503333 4503334

Parameter	Units	92745465009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	ND	0.1	0.1	0.098	0.097	98	97	75-125	1	20	
Boron	mg/L	ND	1	1	0.95	0.96	95	96	75-125	1	20	
Molybdenum	mg/L	ND	0.1	0.1	0.099	0.10	99	99	75-125	1	20	

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QUALITY CONTROL DATA

Project: Hammond AP-1 (CA)-20240807
Pace Project No.: 92746280

QC Batch: 875890
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92746280004, 92746280005, 92746280006

METHOD BLANK: 4511665 Matrix: Water
Associated Lab Samples: 92746280004, 92746280005, 92746280006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	mg/L	ND	0.0050	0.00084	08/15/24 17:33	
Boron	mg/L	ND	0.040	0.012	08/15/24 17:33	
Molybdenum	mg/L	ND	0.010	0.00062	08/15/24 17:33	

LABORATORY CONTROL SAMPLE: 4511666

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	0.1	0.098	98	80-120	
Boron	mg/L	1	0.95	95	80-120	
Molybdenum	mg/L	0.1	0.10	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4511667 4511668

Parameter	Units	92746891014 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	ND	0.1	0.1	0.098	0.10	98	100	75-125	2	20	
Boron	mg/L	0.61	1	1	1.6	1.6	99	100	75-125	1	20	
Molybdenum	mg/L	0.046	0.1	0.1	0.14	0.14	99	99	75-125	0	20	

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QUALITY CONTROL DATA

Project: Hammond AP-1 (CA)-20240807
Pace Project No.: 92746280

QC Batch: 875892
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92746280007, 92746280008, 92746280009, 92746280010, 92746280011

METHOD BLANK: 4511675 Matrix: Water
Associated Lab Samples: 92746280007, 92746280008, 92746280009, 92746280010, 92746280011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	mg/L	ND	0.0050	0.00084	08/19/24 15:35	
Boron	mg/L	ND	0.040	0.012	08/19/24 15:35	
Molybdenum	mg/L	ND	0.010	0.00062	08/19/24 15:35	

LABORATORY CONTROL SAMPLE: 4511676

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	0.1	0.099	99	80-120	
Boron	mg/L	1	0.96	96	80-120	
Molybdenum	mg/L	0.1	0.10	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4511677 4511678

Parameter	Units	92746288009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	ND	0.1	0.1	0.10	0.10	101	103	75-125	2	20	
Boron	mg/L	0.59	1	1	1.6	1.6	101	105	75-125	2	20	
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.10	104	102	75-125	1	20	

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REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Hammond AP-1 (CA)-20240807
Pace Project No.: 92746280

QC Batch: 876406
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92746280012, 92746280013

METHOD BLANK: 4514719 Matrix: Water
Associated Lab Samples: 92746280012, 92746280013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	mg/L	ND	0.0050	0.00084	08/21/24 16:00	
Boron	mg/L	ND	0.040	0.012	08/21/24 16:00	
Molybdenum	mg/L	ND	0.010	0.00062	08/21/24 16:00	

LABORATORY CONTROL SAMPLE: 4514720

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	0.1	0.099	99	80-120	
Boron	mg/L	1	0.98	98	80-120	
Molybdenum	mg/L	0.1	0.10	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4514743 4514744

Parameter	Units	92747503015 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	ND	0.1	0.1	0.099	0.099	99	99	75-125	0	20	
Boron	mg/L	ND	1	1	0.87	0.86	87	86	75-125	1	20	
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.10	101	101	75-125	1	20	

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QUALITY CONTROL DATA

Project: Hammond AP-1 (CA)-20240807
Pace Project No.: 92746280

QC Batch: 875982
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92746280012, 92746280013

METHOD BLANK: 4512446 Matrix: Water
Associated Lab Samples: 92746280012, 92746280013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	08/15/24 19:45	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	08/15/24 19:45	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	08/15/24 19:45	

LABORATORY CONTROL SAMPLE: 4512447

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	52.5	105	80-120	

LABORATORY CONTROL SAMPLE: 4512448

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	53.1	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4512449 4512450

Parameter	Units	92747221005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	62.0	50	50	107	112	91	101	80-120	5	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4512451 4512452

Parameter	Units	92747221006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	ND	50	50	41.0	39.5	82	79	80-120	4	25	M1

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Huntersville, NC 28078
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QUALITY CONTROL DATA

Project: Hammond AP-1 (CA)-20240807
Pace Project No.: 92746280

QC Batch: 876099
QC Batch Method: SM 4500-S2D-2011
Analysis Method: SM 4500-S2D-2011
Analysis Description: 4500S2D Sulfide Water
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92746280012, 92746280013

METHOD BLANK: 4513327 Matrix: Water
Associated Lab Samples: 92746280012, 92746280013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	0.022	08/17/24 04:12	

LABORATORY CONTROL SAMPLE: 4513328

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	0.52	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4513329 4513330

Parameter	Units	92746280012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.41	0.39	82	77	80-120	6	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4513331 4513332

Parameter	Units	92747679002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.52	0.54	103	108	80-120	5	10	

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Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: Hammond AP-1 (CA)-20240807
Pace Project No.: 92746280

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Hammond AP-1 (CA)-20240807
Pace Project No.: 92746280

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92746280001	**HAM-PT-09**	EPA 3010A	874538	EPA 6010D	874645
92746280002	**HAM-PT-12**	EPA 3010A	874538	EPA 6010D	874645
92746280003	**HAM-AP1-FD-01**	EPA 3010A	874538	EPA 6010D	874645
92746282001	**HAM-PT-10**	EPA 3010A	874538	EPA 6010D	874645
92746280004	**HAM-PT-08**	EPA 3010A	875958	EPA 6010D	876036
92746280005	**HAM-PT-11**	EPA 3010A	875958	EPA 6010D	876036
92746280006	**HAM-PT-14**	EPA 3010A	875958	EPA 6010D	876036
92746280007	**HAM-PT-15**	EPA 3010A	876300	EPA 6010D	876355
92746280008	**HAM-PT-07**	EPA 3010A	876300	EPA 6010D	876355
92746280009	**HAM-PT-13**	EPA 3010A	876300	EPA 6010D	876355
92746280010	**HAM-AP1-EB-01**	EPA 3010A	876300	EPA 6010D	876355
92746280011	**HAM-AP1-FB-01**	EPA 3010A	877200	EPA 6010D	877281
92746280012	**HAM-MW-53**	EPA 3010A	877202	EPA 6010D	877299
92746280013	**HAM-MW-54**	EPA 3010A	877202	EPA 6010D	877299
92746280001	**HAM-PT-09**	EPA 3005A	874191	EPA 6020B	874323
92746280002	**HAM-PT-12**	EPA 3005A	874191	EPA 6020B	874323
92746280003	**HAM-AP1-FD-01**	EPA 3005A	874191	EPA 6020B	874323
92746282001	**HAM-PT-10**	EPA 3005A	874191	EPA 6020B	874323
92746280004	**HAM-PT-08**	EPA 3005A	875890	EPA 6020B	876009
92746280005	**HAM-PT-11**	EPA 3005A	875890	EPA 6020B	876009
92746280006	**HAM-PT-14**	EPA 3005A	875890	EPA 6020B	876009
92746280007	**HAM-PT-15**	EPA 3005A	875892	EPA 6020B	876017
92746280008	**HAM-PT-07**	EPA 3005A	875892	EPA 6020B	876017
92746280009	**HAM-PT-13**	EPA 3005A	875892	EPA 6020B	876017
92746280010	**HAM-AP1-EB-01**	EPA 3005A	875892	EPA 6020B	876017
92746280011	**HAM-AP1-FB-01**	EPA 3005A	875892	EPA 6020B	876017
92746280012	**HAM-MW-53**	EPA 3005A	876406	EPA 6020B	876456
92746280013	**HAM-MW-54**	EPA 3005A	876406	EPA 6020B	876456
92746280012	**HAM-MW-53**	SM 2320B-2011	875982		
92746280013	**HAM-MW-54**	SM 2320B-2011	875982		
92746280012	**HAM-MW-53**	SM 4500-S2D-2011	876099		
92746280013	**HAM-MW-54**	SM 4500-S2D-2011	876099		

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DC#_Title: ENV-FRM-HUNT-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #

WO# : 92746280

92746280

Courier: ☐ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☑ Pace ☐ Other:____

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No ☑ N/A

Date/Initials Person Examining Contents: 5/17/24 CSY

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☐ N/A

Thermometer: ☐ IR Gun ID: 230

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 2.3 Correction Factor: Add/Subtract (°C) 2.3

Cooler Temp Corrected (°C): 2.3

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: W				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

Field Data Required? ☐ Yes ☐ No

COMMENTS/SAMPLE DISCREPANCY

HAM-PT-10 is listed twice on 2 different COC's

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

Qualtrax ID: 69614

DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

WO#: 92746280

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg
**Bottom half of box is to list number of bottles
***Check all unpreserved Nitrates for chlorine

Project #

PM: BV Due Date: 08/21/24

CLIENT: 92- GP-HAM

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Client_____ Profile/EZ (Circle one)_____ Notes_____

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)		BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL Plastic HNO3 (pH < 2)	BP4Z-125 mL Plast < ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG9A-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AGDU-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
CC																														
1	\				\	\	1	\	\			\		\	\	\										\	\			
2	\				\	\	1	\	\			\		\	\	\										\	\			
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12	\				\	\	\	\	\			\		\	\	\										\	\			

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

Qualtrax ID: 69614

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

Section A Required Client Information:

Company:	GA Power
Address:	Atlanta, GA
Email To:	SCS Contacts
Phone:	Fax:
Requested Due Date/TAT:	5 day

Section B Required Project Information:

Report To:	SCS Contacts
Copy To:	Geosyntec Contacts
Purchase Order No.:	GPC82474-0001
Project Name:	Hammond AP-1
Project Number:	GW6581G/109/12

Section C Invoice Information:

Attention:	Southern Co.
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	Bonnie Vang
Pace Profile #:	16483

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER

UST RCRA OTHER GAEPD

Site Location STATE: GA

Section D Required Client Information

Valid Matrix Codes: MATRIX CODE (WW, SW, GW, WT, WW, WW, P, SL, OL, WP, AR, TS)

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	Total 8015/8260B As, Mo, Fe Y/N	Total 6010B As, Mo, Fe Y/N	Total 6010B Mo, Fe Y/N	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	HAM-PT-09	WG	G	8/6/24	11:10			22				1							N	X	N	927 46290	
2	HAM-PT-10	WG	G	8/6/24	17:02			23				1							N	X	N		
3	HAM-PT-12	WG	G	8/6/24	16:20			23				1							N	X	N	001	
4	HAM-AP1-FD-01	WG	G	8/6/24	0:00			23				1						X	N		N	002	
5																						003	
6																							
7																				UN 08/09/2024			
8							ER 8/6/24																
9																							
10																							
11																							
12																							

Requested Analysis Filtered (Y/N)

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Task Code: HAM.4CCR.GA.20240805	Elisabeth Russell/Geosyntec	8/8/2024	2000	Thomas Hostler/Geosyntec	8/8/2024	2000	
	Thomas Hostler/Geosyntec	8/8/2024	1705	Ryan Williams / Pace	8/7/2024	1224	
	Ryan Williams / Pace	8/7/2024	1505		8/7/24	1505	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Elisabeth Russell / Geosyntec Consultants, Inc

SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY): 08/08/2024

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt
	Effective Date: 05/24/2024

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #:

Courier: ☐ Commercial ☐ Fed Ex ☑ Pace ☐ UPS ☐ USPS ☐ Other:____ ☐ Client

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No ☑ N/A

Date/Initials Person Examining Contents: 8/9/24 CM

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☐ N/A

Thermometer: ☑ IR Gun ID: 230

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 2.1 Correction Factor: Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C

☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 2.1

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: W				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg
**Bottom half of box is to list number of bottles
***Check all unpreserved Nitrates for chlorine

Project #

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Client_____ Profile/EZ (Circle one)_____ Notes_____

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)		BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
CC																														
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pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

Pace Analytical
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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

Section A Required Client Information:

Company:	GA Power
Address:	Atlanta, GA
Email To:	SCS Contacts
Phone:	Fax:
Requested Due Date/TAT:	5 day

Section B Required Project Information:

Report To:	SCS Contacts
Copy To:	Geosyntec Contacts
Purchase Order No.:	GPC82474-0001
Project Name:	Hammond AP-1
Project Number:	GW6581G/109/12

Section C Invoice Information:

Attention:	Southern Co.
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	Bonnie Vang
Pace Profile #:	16483

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER CCR

Site Location STATE: GA

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX:	CODE
DRINKING WATER	DW
WATER	WW
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE DATE	COLLECTED COMPOSITE TIME	COLLECTED COMPOSITE ENDGRAB DATE	COLLECTED COMPOSITE ENDGRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	Requested Analysis Filtered (Y/N): Total 6010/6020-B: As, Mo, Fe	Total 6010/6020-B: As, Fe	Total 6010/6020-B: Mo, Fe	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
																		N	N	N			92746280
1	HAM-PT-08	WG	G	08/08/2024	1810			20	1			1								X			N	059
2	HAM-PT-11	WG	G	08/07/2024	1030			22	1			1								X	JN 08/09/2024		N	053
3	HAM-PT-14	WG	G	08/08/2024	1321			21	1			1								X			N	056
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EDD Required for TRA

ER 8/8/2024

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Task Code: HAM-CCR-CA-20240807	Elisabeth Russell / Geosyntec	08/09/2024	2000	Thomas Hesslein / Geosyntec	08/09/2024	2000	
	Thomas Hesslein / Geosyntec	08/09/2024	1415	Ryan William / Pace	8/9/2024	1415	
	Ryan William / Pace	8/9/2024	1655	Chandler Hunt	8/9/24	1655	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Elisabeth Russell / Geosyntec Consultants, Inc.

SIGNATURE of SAMPLER: EP

DATE Signed (MM/DD/YY): 08/08/24

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Pace ANALYTICAL SERVICES

DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mech... ☐ Atlanta ☐ ...

Sample Condition Upon Receipt

Client Name: Georgia Power

Project #:

WO#: 92746280

PM: BV **Due Date: 08/21/24**

CLIENT: 92- GP-HAM

Courier: ☐ Commercial ☐ Fed Ex ☑ UPS ☐ USPS ☐ Client ☑ Pace ☐ Other:____

Custody Seal Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☐ No ☑ N/A

Date/Initials Person Examining Contents: 8/12/24 CAG

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☐ N/A

Thermometer:

☐ IR Gun ID: 230

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 2.1 **Correction Factor:** Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C

☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 2.1

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: W				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ **Date:** _____

Project Manager SRF Review: _____ **Date:** _____

Pace ANALYTICAL SERVICES

DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

WO# : 92746280

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg
**Bottom half of box is to list number of bottles
***Check all unpreserved Nitrates for chlorine

Project #

PM: BV Due Date: 08/21/24
CLIENT: 92- GP-HAM

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Client_____ Profile/EZ (Circle one)_____ Notes_____

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)		BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG8U-40 mL Amber Unpreserved vials (N/A)
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pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

Section A Required Client Information:

Company:	GA Power
Address:	Atlanta, GA
Email To:	SCS Contacts
Phone:	Fax:
Requested Due Date/TAT:	10 day

Section B Required Project Information:

Report To:	SCS Contacts
Copy To:	Geosyntec Contacts
Purchase Order No.:	GPC82474-0001
Project Name:	Hammond AP-1
Project Number:	GW6581G

Section C Invoice Information:

Attention:	Southern Co.
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	Bonnie Vang
Pace Profile #:	16483

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER CCR

Site Location STATE: GA

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW WT
WATER	WW
WASTE WATER	P
PRODUCT	SL
SOIL/SOLID	OL
OIL	WP
WIPE	AR
AIR	UT
OTHER	TS
TISSUE	

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE DATE	COLLECTED COMPOSITE TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	Total 601/6022:B, As, Mo, Fe	Total 601/6022:B, As, Fe	Total 601/6022:B, Mo, Fe	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
	Requested Analysis Filtered (Y/N)																	Y/N	N	N	N		
1	HAM-PT-15	WG	G	08/09/2024	1010			21	1			1								X		N	007
2	HAM-PT-07	WG	G	08/09/2024	1215	ER 08/09/2024		21	1			1								X		N	008
3	HAM-PT-13	WG	G	08/09/2024	1405			21	1			1								X		N	009
4	HAM-AP1-EB-01	WQ	G	08/09/2024	1440			19	1			1							X				010
5	HAM-AP1-FB-01	WQ	G	08/09/2024	1450			19	1			1							X				011
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8						ER 08/09/2024																	
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11																							
12																							

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Task Code: HAM-CCR CA 20240807	~~Ellsabeth Russell~~ / Geosyntec	08/09/2024	2000	Thomas Hessler / Geosyntec	08/09/2024	2000
	Thomas Hessler / Geosyntec	08/12/2024	0745	Jacob Tracy / Geosyntec	08/12/2024	0745
	Jacob Tracy / Geosyntec	08/12/2024	12:10	Ryan Williams / Pace	08/12/24	12:10
	Ryan Williams / Pace	8/12/2024	1352		8/12/24	1352

SAMPLE CONDITIONS: Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Ellsabeth Russell / Geosyntec Consultants, Inc.

SIGNATURE of SAMPLER: ER

DATE Signed (MM/DD/YY): 08/09/2024

DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☒ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #:

Courier: ☐ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☒ Pace ☐ Other:

Custody Seal Present? ☒ Yes ☐ No Seals Intact? ☒ Yes ☐ No ☐ N/A

Date/Initials Person Examining Contents:

Packing Material: ☒ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☒ N/A

Thermometer: ☐ IR Gun ID: 214

Type of Ice: ☒ Wet ☐ Blue ☐ None

Cooler Temp: 3.0 Correction Factor: Add/Subtract (°C): 0

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 3.0

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☒ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☒ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☒ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☒ No	☐ N/A	4.
Sufficient Volume?	☒ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☒ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☒ Yes	☐ No	☐ N/A	
Containers Intact?	☒ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☒ N/A	8.
Sample Labels Match COC?	☒ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: W				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☒ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☒ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☒ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

Qualtrax ID: 69614

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg
**Bottom half of box is to list number of bottles
***Check all unpreserved Nitrates for chlorine

Project #

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Client_____ Profile/EZ (Circle one)_____ Notes_____

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)		BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG9H-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH4)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
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1		2					1	1																					
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pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: GA Power	Report To: SCS Contacts	Attention: Southern Co.
Address: Atlanta, GA	Copy To: Geosyntec Contacts	Company Name:
		Address:
Email To: SCS Contacts	Purchase Order No.: GPC62474-0001	Pace Quote Reference:
Phone: Fax:	Project Name: Hammond AP-1	Pace Project Manager: Bonnie Vang
Requested Due Date/TAT: 10 day	Project Number: GW6581G	Pace Profile #: 16483

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER CCR

Site Location STATE: GA

Requested Analysis Filtered (Y/N)

ITEM #	Section D Required Client Information — SAMPLE ID (A-Z, 0-9 / , -) Sample IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX / CODE: DRINKING WATER DW WT; WATER WW; WASTE WATER WW; PRODUCT P; SOIL/SOLID SL; OIL OL; WIPE WP; AIR AR; OTHER OT; TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	Total 6010/6020-B, Fe, Mo	Total 6010/6020-AB, B, Fe	Major Ions (Profile 10639-2)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	HAM-MW-53		WG	G	08/12/2024	1445				22	4	2		1				1		X		X	N	
2	HAM-MW-54		WG	G	08/12/2024	1235	ER 8/12/2024			23	4	2		1				1			X	X	N	
3																								
4																								
5																								
6					ER 8/12/2024																			
7																								
8																								
9																								
10																								
11																								
12																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Task Code: HAM-CLR-CA-20240807	Elizabeth Russell / Geosyntec	08/12/24	14:00	Jacob Tracy / Geosyntec	08/12/24	14:00	
	Jacob Tracy / Geosyntec	08/14/24	12:05	Ryan Williams / Pace	08/14/24	12:05	
	Ryan Williams / Pace	8/14/2024	1440	[illegible] / Pace	8/14/24	1440	

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: Elisabeth Russell / Geosyntec Consultants, Inc.					
SIGNATURE of SAMPLER:	DATE Signed (MM/DD/YY):				

Pace

DC#_Title: ENV-FRM-HUNT-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #:

WO#: 92746280

PM: BV **Due Date: 08/21/24**

CLIENT: 92- GP-HAM

Courier: ☐ Commercial ☐ Fed Ex ☑ Pace ☐ UPS ☐ USPS ☐ Other:____ ☐ Client

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No ☑ N/A

Date/Initials Person Examining Contents: 8/17/24 CSH

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☐ IR Gun ID: 230

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 2.3 Correction Factor: Add/Subtract (°C) 2.3

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 2.3

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: W				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

Field Data Required? ☐ Yes ☐ No

COMMENTS/SAMPLE DISCREPANCY

HAM-PT-10 is listed twice on 2 different COC's

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____

WO# : 92746282

Project

PM: BV Due Date: 08/21/24

CLIENT: 92- GP-HAM

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg
**Bottom half of box is to list number of bottles
***Check all unpreserved Nitrates for chlorine

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Client_____ Profile/EZ (Circle one)_____ Notes_____

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)		BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG9B-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
CC																														
1																														
2																														
3																														
4																														
5																														
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7																														
8																														
9																														
10																														
11																														
12																														

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

Pace Analytical
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

Section A Required Client Information:

Company:	GA Power
Address:	Atlanta, GA
Email To:	SCS Contacts
Phone:	Fax:
Requested Due Date/TAT:	5 day

Section B Required Project Information:

Report To:	SCS Contacts
Copy To:	Geosyntec Contacts
Purchase Order No.:	GPC82474-0001
Project Name:	Hammond AP-1
Project Number:	GW6581G/109/12

Section C Invoice Information:

Attention:	Southern Co.
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	Bonnie Vang
Pace Profile #:	16483

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER CCR

Site Location STATE: GA

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE DATE	COLLECTED COMPOSITE TIME	COLLECTED COMPOSITE ENDGRAB DATE	COLLECTED COMPOSITE ENDGRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	Total 6010/6020-B: As, Mo, Fe	Total 6010/6020-B: As, Fe	Total 6010/6020-B: Mo, Fe	Residual Chlorine (Y/N)
1	HAM-PT-10	WG	G	8/5/24	17:02			22				1						N				N
2																			X			
3																						
4																						
5																						
6				ER 8/5/24																		
7																			ER 8/5/24			
8																						
9																						
10																						
11																						
12																						

Requested Analysis Filtered (Y/N)

92746282

Pace Project No./ Lab I.D.

001

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Task Code: HAM-CCR-CA-20240805	Elisabeth Russell / Geosyntec	8/5/2024	2060	Thomas Kessler	8/6/2024	0000	
	Thomas Kessler / Geosyntec	8/7/2024	1225	Ryan Williams / Pace	8/7/2024	1225	
	Ryan Williams / Pace	8/7/2024	1505				

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Elisabeth Russell / Geosyntec Consultants, Inc.

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 08/05/2024

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

August 27, 2024

Kristen Jurinko
Southern Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, GA 30308

RE: Project: Hammond AP-1 (CA)-20240812
Pace Project No.: 92747679

Dear Kristen Jurinko:

Enclosed are the analytical results for sample(s) received by the laboratory on August 14, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Asheville
- Pace Analytical Services - Peachtree Corners, GA

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Bonnie Vang
bonnie.vang@pacelabs.com
704-977-0968
Project Manager

Enclosures

cc: Kip Gray, Geosyntec
Christine Hug, Geosyntec Consultants, Inc.
Thomas Kessler, Geosyntec Consultants
Whitney Law, Geosyntec Consultants
Laura Midkiff, Southern Company
Caroline Nelson, Geosyntec Consultants, Inc
Jamie Newsome, Geosyntec Consultants
Zain Webb, Geosyntec Consultants

REPORT OF LABORATORY ANALYSIS

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Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: Hammond AP-1 (CA)-20240812
Pace Project No.: 92747679

Pace Analytical Services Asheville
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Laboratory ID: 99030
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners
110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812
North Carolina Certification #: 381
South Carolina Certification #: 98011001
Virginia Certification #: 460204

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SAMPLE SUMMARY

Project: Hammond AP-1 (CA)-20240812
Pace Project No.: 92747679

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92747679001	**HAM-PT-09**	Water	08/12/24 15:30	08/14/24 12:05
92747679002	**HAM-PT-10**	Water	08/13/24 14:10	08/14/24 12:05
92747679003	**HAM-PT-11**	Water	08/12/24 17:25	08/14/24 12:05
92747679004	**HAM-PT-12**	Water	08/13/24 12:05	08/14/24 12:05
92747679005	**HAM-PT-14**	Water	08/13/24 17:00	08/14/24 12:05

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SAMPLE ANALYTE COUNT

Project: Hammond AP-1 (CA)-20240812
Pace Project No.: 92747679

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92747679001	**HAM-PT-09**	EPA 6010D	MJS2	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92747679002	**HAM-PT-10**	EPA 6010D	MJS2	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92747679003	**HAM-PT-11**	EPA 6010D	MJS2	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92747679004	**HAM-PT-12**	EPA 6010D	MJS2	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92747679005	**HAM-PT-14**	EPA 6010D	MJS2	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3

PASI-A = Pace Analytical Services - Asheville
PASI-GA = Pace Analytical Services - Peachtree Corners, GA

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Hammond AP-1 (CA)-20240812
Pace Project No.: 92747679

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92747679001	**HAM-PT-09**					
EPA 6010D	Iron	0.34	mg/L	0.040	08/22/24 17:17	
EPA 6010D	Manganese	0.36	mg/L	0.040	08/22/24 17:17	
EPA 6010D	Potassium	6.1	mg/L	0.50	08/22/24 17:17	
EPA 6010D	Sodium	7.8	mg/L	1.0	08/22/24 17:17	
EPA 6010D	Calcium	92.5	mg/L	1.0	08/22/24 17:17	
EPA 6010D	Magnesium	23.9	mg/L	0.050	08/22/24 17:17	
EPA 6020B	Barium	0.066	mg/L	0.0050	08/20/24 15:20	
EPA 6020B	Boron	1.2	mg/L	0.040	08/20/24 15:20	
EPA 6020B	Cadmium	0.00021J	mg/L	0.00050	08/20/24 15:20	
EPA 6020B	Cobalt	0.0033J	mg/L	0.0050	08/20/24 15:20	
EPA 6020B	Lithium	0.0019J	mg/L	0.030	08/20/24 15:20	
EPA 6020B	Molybdenum	0.25	mg/L	0.010	08/20/24 15:20	
SM 2540C-2015	Total Dissolved Solids	521	mg/L	25.0	08/16/24 14:18	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	120	mg/L	5.0	08/15/24 20:59	
SM 2320B-2011	Alkalinity, Total as CaCO3	120	mg/L	5.0	08/15/24 20:59	
EPA 300.0 Rev 2.1 1993	Chloride	42.3	mg/L	1.0	08/16/24 02:04	
EPA 300.0 Rev 2.1 1993	Fluoride	0.35	mg/L	0.10	08/16/24 02:04	
EPA 300.0 Rev 2.1 1993	Sulfate	157	mg/L	4.0	08/16/24 13:35	M1
92747679002	**HAM-PT-10**					
EPA 6010D	Iron	0.31	mg/L	0.040	08/22/24 17:20	
EPA 6010D	Manganese	0.50	mg/L	0.040	08/22/24 17:20	
EPA 6010D	Potassium	7.2	mg/L	0.50	08/22/24 17:20	
EPA 6010D	Sodium	9.1	mg/L	1.0	08/22/24 17:20	
EPA 6010D	Calcium	107	mg/L	1.0	08/22/24 17:20	
EPA 6010D	Magnesium	14.4	mg/L	0.050	08/22/24 17:20	
EPA 6020B	Antimony	0.0010J	mg/L	0.0030	08/20/24 15:35	
EPA 6020B	Barium	0.049	mg/L	0.0050	08/20/24 15:35	
EPA 6020B	Boron	1.7	mg/L	0.040	08/20/24 15:35	
EPA 6020B	Cadmium	0.00013J	mg/L	0.00050	08/20/24 15:35	
EPA 6020B	Cobalt	0.0016J	mg/L	0.0050	08/20/24 15:35	
EPA 6020B	Molybdenum	0.17	mg/L	0.010	08/20/24 15:35	
SM 2540C-2015	Total Dissolved Solids	449	mg/L	25.0	08/19/24 17:59	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	133	mg/L	5.0	08/16/24 16:35	
SM 2320B-2011	Alkalinity, Total as CaCO3	133	mg/L	5.0	08/16/24 16:35	
EPA 300.0 Rev 2.1 1993	Chloride	47.5	mg/L	1.0	08/16/24 03:14	
EPA 300.0 Rev 2.1 1993	Fluoride	0.25	mg/L	0.10	08/16/24 03:14	
EPA 300.0 Rev 2.1 1993	Sulfate	122	mg/L	3.0	08/16/24 14:47	
92747679003	**HAM-PT-11**					
EPA 6010D	Iron	0.25	mg/L	0.040	08/22/24 17:24	
EPA 6010D	Manganese	1.0	mg/L	0.040	08/22/24 17:24	
EPA 6010D	Potassium	6.1	mg/L	0.50	08/22/24 17:24	
EPA 6010D	Sodium	8.5	mg/L	1.0	08/22/24 17:24	
EPA 6010D	Calcium	96.7	mg/L	1.0	08/22/24 17:24	
EPA 6010D	Magnesium	20.6	mg/L	0.050	08/22/24 17:24	
EPA 6020B	Barium	0.072	mg/L	0.0050	08/20/24 15:39	
EPA 6020B	Boron	1.5	mg/L	0.040	08/20/24 15:39	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Hammond AP-1 (CA)-20240812
Pace Project No.: 92747679

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92747679003	**HAM-PT-11**					
EPA 6020B	Cadmium	0.00022J	mg/L	0.00050	08/20/24 15:39	
EPA 6020B	Cobalt	0.015	mg/L	0.0050	08/20/24 15:39	
EPA 6020B	Lithium	0.0059J	mg/L	0.030	08/20/24 15:39	
EPA 6020B	Molybdenum	0.10	mg/L	0.010	08/20/24 15:39	
SM 2540C-2015	Total Dissolved Solids	456	mg/L	25.0	08/16/24 14:19	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	126	mg/L	5.0	08/15/24 21:08	
SM 2320B-2011	Alkalinity, Total as CaCO3	126	mg/L	5.0	08/15/24 21:08	
EPA 300.0 Rev 2.1 1993	Chloride	41.7	mg/L	1.0	08/16/24 03:28	
EPA 300.0 Rev 2.1 1993	Fluoride	0.32	mg/L	0.10	08/16/24 03:28	
EPA 300.0 Rev 2.1 1993	Sulfate	139	mg/L	3.0	08/16/24 15:01	
92747679004	**HAM-PT-12**					
EPA 6010D	Iron	0.082	mg/L	0.040	08/22/24 17:28	
EPA 6010D	Manganese	0.62	mg/L	0.040	08/22/24 17:28	
EPA 6010D	Potassium	5.8	mg/L	0.50	08/22/24 17:28	
EPA 6010D	Sodium	6.6	mg/L	1.0	08/22/24 17:28	
EPA 6010D	Calcium	98.4	mg/L	1.0	08/22/24 17:28	
EPA 6010D	Magnesium	24.5	mg/L	0.050	08/22/24 17:28	
EPA 6020B	Arsenic	0.00089J	mg/L	0.0050	08/20/24 15:54	
EPA 6020B	Barium	0.070	mg/L	0.0050	08/20/24 15:54	
EPA 6020B	Boron	1.1	mg/L	0.040	08/20/24 15:54	
EPA 6020B	Cadmium	0.00024J	mg/L	0.00050	08/20/24 15:54	
EPA 6020B	Cobalt	0.0022J	mg/L	0.0050	08/20/24 15:54	
EPA 6020B	Lithium	0.0025J	mg/L	0.030	08/20/24 15:54	
EPA 6020B	Molybdenum	0.23	mg/L	0.010	08/20/24 15:54	
SM 2540C-2015	Total Dissolved Solids	546	mg/L	25.0	08/19/24 18:00	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	128	mg/L	5.0	08/16/24 16:53	
SM 2320B-2011	Alkalinity, Total as CaCO3	128	mg/L	5.0	08/16/24 16:53	
EPA 300.0 Rev 2.1 1993	Chloride	31.7	mg/L	1.0	08/16/24 03:42	
EPA 300.0 Rev 2.1 1993	Fluoride	0.32	mg/L	0.10	08/16/24 03:42	
EPA 300.0 Rev 2.1 1993	Sulfate	178	mg/L	4.0	08/16/24 15:15	
92747679005	**HAM-PT-14**					
EPA 6010D	Iron	18.9	mg/L	0.040	08/22/24 17:32	
EPA 6010D	Manganese	3.6	mg/L	0.040	08/22/24 17:32	
EPA 6010D	Potassium	6.4	mg/L	0.50	08/22/24 17:32	
EPA 6010D	Sodium	9.7	mg/L	1.0	08/22/24 17:32	
EPA 6010D	Calcium	136	mg/L	1.0	08/22/24 17:32	
EPA 6010D	Magnesium	21.0	mg/L	0.050	08/22/24 17:32	
EPA 6020B	Arsenic	0.24	mg/L	0.0050	08/20/24 15:58	
EPA 6020B	Barium	0.048	mg/L	0.0050	08/20/24 15:58	
EPA 6020B	Boron	0.60	mg/L	0.040	08/20/24 15:58	
EPA 6020B	Cobalt	0.028	mg/L	0.0050	08/20/24 15:58	
EPA 6020B	Lithium	0.053	mg/L	0.030	08/20/24 15:58	
EPA 6020B	Molybdenum	0.014	mg/L	0.010	08/20/24 15:58	
SM 2540C-2015	Total Dissolved Solids	621	mg/L	25.0	08/19/24 18:00	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	153	mg/L	5.0	08/16/24 17:02	
SM 2320B-2011	Alkalinity, Total as CaCO3	153	mg/L	5.0	08/16/24 17:02	

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SUMMARY OF DETECTION

Project: Hammond AP-1 (CA)-20240812
Pace Project No.: 92747679

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92747679005	**HAM-PT-14**					
EPA 300.0 Rev 2.1 1993	Chloride	19.6	mg/L	1.0	08/16/24 03:56	
EPA 300.0 Rev 2.1 1993	Fluoride	0.21	mg/L	0.10	08/16/24 03:56	
EPA 300.0 Rev 2.1 1993	Sulfate	239	mg/L	6.0	08/16/24 15:29	

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CA)-20240812
Pace Project No.: 92747679

Sample: HAM-PT-09 **Lab ID: 92747679001** Collected: 08/12/24 15:30 Received: 08/14/24 12:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.34**	mg/L	0.040	0.025	1	08/21/24 13:41	08/22/24 17:17	7439-89-6	
Manganese	**0.36**	mg/L	0.040	0.011	1	08/21/24 13:41	08/22/24 17:17	7439-96-5	
Potassium	**6.1**	mg/L	0.50	0.15	1	08/21/24 13:41	08/22/24 17:17	7440-09-7	
Sodium	**7.8**	mg/L	1.0	0.58	1	08/21/24 13:41	08/22/24 17:17	7440-23-5	
Calcium	**92.5**	mg/L	1.0	0.12	1	08/21/24 13:41	08/22/24 17:17	7440-70-2	
Magnesium	**23.9**	mg/L	0.050	0.012	1	08/21/24 13:41	08/22/24 17:17	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	08/16/24 12:09	08/20/24 15:20	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	08/16/24 12:09	08/20/24 15:20	7440-38-2	
Barium	**0.066**	mg/L	0.0050	0.00047	1	08/16/24 12:09	08/20/24 15:20	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	08/16/24 12:09	08/20/24 15:20	7440-41-7	
Boron	**1.2**	mg/L	0.040	0.012	1	08/16/24 12:09	08/20/24 15:20	7440-42-8	
Cadmium	**0.00021J**	mg/L	0.00050	0.00010	1	08/16/24 12:09	08/20/24 15:20	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/16/24 12:09	08/20/24 15:20	7440-47-3	
Cobalt	**0.0033J**	mg/L	0.0050	0.00032	1	08/16/24 12:09	08/20/24 15:20	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/16/24 12:09	08/20/24 15:20	7439-92-1	
Lithium	**0.0019J**	mg/L	0.030	0.0016	1	08/16/24 12:09	08/20/24 15:20	7439-93-2	
Molybdenum	**0.25**	mg/L	0.010	0.00062	1	08/16/24 12:09	08/20/24 15:20	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	08/16/24 12:09	08/20/24 15:20	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/16/24 12:09	08/20/24 15:20	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	08/26/24 09:00	08/26/24 13:00	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**521**	mg/L	25.0	25.0	1		08/16/24 14:18		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**120**	mg/L	5.0	5.0	1		08/15/24 20:59		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		08/15/24 20:59		
Alkalinity, Total as CaCO3	**120**	mg/L	5.0	5.0	1		08/15/24 20:59		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		08/17/24 04:16	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**42.3**	mg/L	1.0	0.60	1		08/16/24 02:04	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CA)-20240812
Pace Project No.: 92747679

Sample: HAM-PT-09 **Lab ID: 92747679001** Collected: 08/12/24 15:30 Received: 08/14/24 12:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.35**	mg/L	0.10	0.050	1		08/16/24 02:04	16984-48-8	
Sulfate	**157**	mg/L	4.0	2.0	4		08/16/24 13:35	14808-79-8	M1

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CA)-20240812
Pace Project No.: 92747679

Sample: HAM-PT-10 **Lab ID: 92747679002** Collected: 08/13/24 14:10 Received: 08/14/24 12:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.31**	mg/L	0.040	0.025	1	08/21/24 13:41	08/22/24 17:20	7439-89-6	
Manganese	**0.50**	mg/L	0.040	0.011	1	08/21/24 13:41	08/22/24 17:20	7439-96-5	
Potassium	**7.2**	mg/L	0.50	0.15	1	08/21/24 13:41	08/22/24 17:20	7440-09-7	
Sodium	**9.1**	mg/L	1.0	0.58	1	08/21/24 13:41	08/22/24 17:20	7440-23-5	
Calcium	**107**	mg/L	1.0	0.12	1	08/21/24 13:41	08/22/24 17:20	7440-70-2	
Magnesium	**14.4**	mg/L	0.050	0.012	1	08/21/24 13:41	08/22/24 17:20	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.0010J**	mg/L	0.0030	0.00054	1	08/16/24 12:09	08/20/24 15:35	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	08/16/24 12:09	08/20/24 15:35	7440-38-2	
Barium	**0.049**	mg/L	0.0050	0.00047	1	08/16/24 12:09	08/20/24 15:35	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	08/16/24 12:09	08/20/24 15:35	7440-41-7	
Boron	**1.7**	mg/L	0.040	0.012	1	08/16/24 12:09	08/20/24 15:35	7440-42-8	
Cadmium	**0.00013J**	mg/L	0.00050	0.00010	1	08/16/24 12:09	08/20/24 15:35	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/16/24 12:09	08/20/24 15:35	7440-47-3	
Cobalt	**0.0016J**	mg/L	0.0050	0.00032	1	08/16/24 12:09	08/20/24 15:35	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/16/24 12:09	08/20/24 15:35	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	08/16/24 12:09	08/20/24 15:35	7439-93-2	
Molybdenum	**0.17**	mg/L	0.010	0.00062	1	08/16/24 12:09	08/20/24 15:35	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	08/16/24 12:09	08/20/24 15:35	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/16/24 12:09	08/20/24 15:35	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	08/26/24 09:00	08/26/24 13:03	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**449**	mg/L	25.0	25.0	1		08/19/24 17:59		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**133**	mg/L	5.0	5.0	1		08/16/24 16:35		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		08/16/24 16:35		
Alkalinity, Total as CaCO3	**133**	mg/L	5.0	5.0	1		08/16/24 16:35		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		08/17/24 04:19	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**47.5**	mg/L	1.0	0.60	1		08/16/24 03:14	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CA)-20240812
Pace Project No.: 92747679

Sample: HAM-PT-10 **Lab ID: 92747679002** Collected: 08/13/24 14:10 Received: 08/14/24 12:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.25**	mg/L	0.10	0.050	1		08/16/24 03:14	16984-48-8	
Sulfate	**122**	mg/L	3.0	1.5	3		08/16/24 14:47	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CA)-20240812
Pace Project No.: 92747679

Sample: HAM-PT-11 **Lab ID: 92747679003** Collected: 08/12/24 17:25 Received: 08/14/24 12:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.25**	mg/L	0.040	0.025	1	08/21/24 13:41	08/22/24 17:24	7439-89-6	
Manganese	**1.0**	mg/L	0.040	0.011	1	08/21/24 13:41	08/22/24 17:24	7439-96-5	
Potassium	**6.1**	mg/L	0.50	0.15	1	08/21/24 13:41	08/22/24 17:24	7440-09-7	
Sodium	**8.5**	mg/L	1.0	0.58	1	08/21/24 13:41	08/22/24 17:24	7440-23-5	
Calcium	**96.7**	mg/L	1.0	0.12	1	08/21/24 13:41	08/22/24 17:24	7440-70-2	
Magnesium	**20.6**	mg/L	0.050	0.012	1	08/21/24 13:41	08/22/24 17:24	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	08/16/24 12:09	08/20/24 15:39	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	08/16/24 12:09	08/20/24 15:39	7440-38-2	
Barium	**0.072**	mg/L	0.0050	0.00047	1	08/16/24 12:09	08/20/24 15:39	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	08/16/24 12:09	08/20/24 15:39	7440-41-7	
Boron	**1.5**	mg/L	0.040	0.012	1	08/16/24 12:09	08/20/24 15:39	7440-42-8	
Cadmium	**0.00022J**	mg/L	0.00050	0.00010	1	08/16/24 12:09	08/20/24 15:39	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/16/24 12:09	08/20/24 15:39	7440-47-3	
Cobalt	**0.015**	mg/L	0.0050	0.00032	1	08/16/24 12:09	08/20/24 15:39	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/16/24 12:09	08/20/24 15:39	7439-92-1	
Lithium	**0.0059J**	mg/L	0.030	0.0016	1	08/16/24 12:09	08/20/24 15:39	7439-93-2	
Molybdenum	**0.10**	mg/L	0.010	0.00062	1	08/16/24 12:09	08/20/24 15:39	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	08/16/24 12:09	08/20/24 15:39	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/16/24 12:09	08/20/24 15:39	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	08/26/24 09:00	08/26/24 13:06	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**456**	mg/L	25.0	25.0	1		08/16/24 14:19		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**126**	mg/L	5.0	5.0	1		08/15/24 21:08		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		08/15/24 21:08		
Alkalinity, Total as CaCO3	**126**	mg/L	5.0	5.0	1		08/15/24 21:08		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		08/17/24 04:16	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**41.7**	mg/L	1.0	0.60	1		08/16/24 03:28	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CA)-20240812
Pace Project No.: 92747679

Sample: HAM-PT-11 **Lab ID: 92747679003** Collected: 08/12/24 17:25 Received: 08/14/24 12:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.32**	mg/L	0.10	0.050	1		08/16/24 03:28	16984-48-8	
Sulfate	**139**	mg/L	3.0	1.5	3		08/16/24 15:01	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CA)-20240812
Pace Project No.: 92747679

Sample: HAM-PT-12 **Lab ID: 92747679004** Collected: 08/13/24 12:05 Received: 08/14/24 12:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.082**	mg/L	0.040	0.025	1	08/21/24 13:41	08/22/24 17:28	7439-89-6	
Manganese	**0.62**	mg/L	0.040	0.011	1	08/21/24 13:41	08/22/24 17:28	7439-96-5	
Potassium	**5.8**	mg/L	0.50	0.15	1	08/21/24 13:41	08/22/24 17:28	7440-09-7	
Sodium	**6.6**	mg/L	1.0	0.58	1	08/21/24 13:41	08/22/24 17:28	7440-23-5	
Calcium	**98.4**	mg/L	1.0	0.12	1	08/21/24 13:41	08/22/24 17:28	7440-70-2	
Magnesium	**24.5**	mg/L	0.050	0.012	1	08/21/24 13:41	08/22/24 17:28	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	08/16/24 12:09	08/20/24 15:54	7440-36-0	
Arsenic	**0.00089J**	mg/L	0.0050	0.00084	1	08/16/24 12:09	08/20/24 15:54	7440-38-2	
Barium	**0.070**	mg/L	0.0050	0.00047	1	08/16/24 12:09	08/20/24 15:54	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	08/16/24 12:09	08/20/24 15:54	7440-41-7	
Boron	**1.1**	mg/L	0.040	0.012	1	08/16/24 12:09	08/20/24 15:54	7440-42-8	
Cadmium	**0.00024J**	mg/L	0.00050	0.00010	1	08/16/24 12:09	08/20/24 15:54	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/16/24 12:09	08/20/24 15:54	7440-47-3	
Cobalt	**0.0022J**	mg/L	0.0050	0.00032	1	08/16/24 12:09	08/20/24 15:54	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/16/24 12:09	08/20/24 15:54	7439-92-1	
Lithium	**0.0025J**	mg/L	0.030	0.0016	1	08/16/24 12:09	08/20/24 15:54	7439-93-2	
Molybdenum	**0.23**	mg/L	0.010	0.00062	1	08/16/24 12:09	08/20/24 15:54	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	08/16/24 12:09	08/20/24 15:54	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/16/24 12:09	08/20/24 15:54	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	08/26/24 09:00	08/26/24 13:08	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**546**	mg/L	25.0	25.0	1		08/19/24 18:00		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**128**	mg/L	5.0	5.0	1		08/16/24 16:53		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		08/16/24 16:53		
Alkalinity, Total as CaCO3	**128**	mg/L	5.0	5.0	1		08/16/24 16:53		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		08/17/24 04:21	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**31.7**	mg/L	1.0	0.60	1		08/16/24 03:42	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CA)-20240812
Pace Project No.: 92747679

Sample: HAM-PT-12 **Lab ID: 92747679004** Collected: 08/13/24 12:05 Received: 08/14/24 12:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.32**	mg/L	0.10	0.050	1		08/16/24 03:42	16984-48-8	
Sulfate	**178**	mg/L	4.0	2.0	4		08/16/24 15:15	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CA)-20240812
Pace Project No.: 92747679

Sample: HAM-PT-14 **Lab ID: 92747679005** Collected: 08/13/24 17:00 Received: 08/14/24 12:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**18.9**	mg/L	0.040	0.025	1	08/21/24 13:41	08/22/24 17:32	7439-89-6	
Manganese	**3.6**	mg/L	0.040	0.011	1	08/21/24 13:41	08/22/24 17:32	7439-96-5	
Potassium	**6.4**	mg/L	0.50	0.15	1	08/21/24 13:41	08/22/24 17:32	7440-09-7	
Sodium	**9.7**	mg/L	1.0	0.58	1	08/21/24 13:41	08/22/24 17:32	7440-23-5	
Calcium	**136**	mg/L	1.0	0.12	1	08/21/24 13:41	08/22/24 17:32	7440-70-2	
Magnesium	**21.0**	mg/L	0.050	0.012	1	08/21/24 13:41	08/22/24 17:32	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	08/16/24 12:09	08/20/24 15:58	7440-36-0	
Arsenic	**0.24**	mg/L	0.0050	0.00084	1	08/16/24 12:09	08/20/24 15:58	7440-38-2	
Barium	**0.048**	mg/L	0.0050	0.00047	1	08/16/24 12:09	08/20/24 15:58	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	08/16/24 12:09	08/20/24 15:58	7440-41-7	
Boron	**0.60**	mg/L	0.040	0.012	1	08/16/24 12:09	08/20/24 15:58	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	08/16/24 12:09	08/20/24 15:58	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/16/24 12:09	08/20/24 15:58	7440-47-3	
Cobalt	**0.028**	mg/L	0.0050	0.00032	1	08/16/24 12:09	08/20/24 15:58	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/16/24 12:09	08/20/24 15:58	7439-92-1	
Lithium	**0.053**	mg/L	0.030	0.0016	1	08/16/24 12:09	08/20/24 15:58	7439-93-2	
Molybdenum	**0.014**	mg/L	0.010	0.00062	1	08/16/24 12:09	08/20/24 15:58	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	08/16/24 12:09	08/20/24 15:58	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/16/24 12:09	08/20/24 15:58	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	08/26/24 09:00	08/26/24 13:11	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**621**	mg/L	25.0	25.0	1		08/19/24 18:00		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**153**	mg/L	5.0	5.0	1		08/16/24 17:02		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		08/16/24 17:02		
Alkalinity, Total as CaCO3	**153**	mg/L	5.0	5.0	1		08/16/24 17:02		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		08/17/24 04:22	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**19.6**	mg/L	1.0	0.60	1		08/16/24 03:56	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CA)-20240812
Pace Project No.: 92747679

Sample: HAM-PT-14 **Lab ID: 92747679005** Collected: 08/13/24 17:00 Received: 08/14/24 12:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.21**	mg/L	0.10	0.050	1		08/16/24 03:56	16984-48-8	
Sulfate	**239**	mg/L	6.0	3.0	6		08/16/24 15:29	14808-79-8	

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QUALITY CONTROL DATA

Project: Hammond AP-1 (CA)-20240812
Pace Project No.: 92747679

QC Batch: 877202
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92747679001, 92747679002, 92747679003, 92747679004, 92747679005

METHOD BLANK: 4518182 Matrix: Water
Associated Lab Samples: 92747679001, 92747679002, 92747679003, 92747679004, 92747679005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	08/22/24 16:05	
Iron	mg/L	ND	0.040	0.025	08/22/24 16:05	
Magnesium	mg/L	ND	0.050	0.012	08/22/24 16:05	
Manganese	mg/L	ND	0.040	0.011	08/22/24 16:05	
Potassium	mg/L	ND	0.50	0.15	08/22/24 16:05	
Sodium	mg/L	ND	1.0	0.58	08/22/24 16:05	

LABORATORY CONTROL SAMPLE: 4518183

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.2	119	80-120	
Iron	mg/L	1	1.2	119	80-120	
Magnesium	mg/L	1	1.2	118	80-120	
Manganese	mg/L	1	1.1	110	80-120	
Potassium	mg/L	1	1.1	113	80-120	
Sodium	mg/L	1	1.2	116	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4518184 4518185

Parameter	Units	92746783017 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	20.9	1	1	22.0	21.8	106	87	75-125	1	20	
Iron	mg/L	ND	1	1	1.1	1.1	111	110	75-125	2	20	
Magnesium	mg/L	7.0	1	1	8.1	8.1	107	110	75-125	0	20	
Manganese	mg/L	ND	1	1	1.1	1.1	107	108	75-125	0	20	
Potassium	mg/L	1.8	1	1	2.8	2.8	104	103	75-125	0	20	
Sodium	mg/L	1.9	1	1	2.9	3.0	105	112	75-125	3	20	

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QUALITY CONTROL DATA

Project: Hammond AP-1 (CA)-20240812
Pace Project No.: 92747679

QC Batch: 876140
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92747679001, 92747679002, 92747679003, 92747679004, 92747679005

METHOD BLANK: 4513433 Matrix: Water
Associated Lab Samples: 92747679001, 92747679002, 92747679003, 92747679004, 92747679005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00054	08/20/24 15:05	
Arsenic	mg/L	ND	0.0050	0.00084	08/20/24 15:05	
Barium	mg/L	ND	0.0050	0.00047	08/20/24 15:05	
Beryllium	mg/L	ND	0.00050	0.000094	08/20/24 15:05	
Boron	mg/L	ND	0.040	0.012	08/20/24 15:05	
Cadmium	mg/L	ND	0.00050	0.00010	08/20/24 15:05	
Chromium	mg/L	ND	0.0050	0.0019	08/20/24 15:05	
Cobalt	mg/L	ND	0.0050	0.00032	08/20/24 15:05	
Lead	mg/L	ND	0.0010	0.00016	08/20/24 15:05	
Lithium	mg/L	ND	0.030	0.0016	08/20/24 15:05	
Molybdenum	mg/L	ND	0.010	0.00062	08/20/24 15:05	
Selenium	mg/L	ND	0.0050	0.00096	08/20/24 15:05	
Thallium	mg/L	ND	0.0010	0.00038	08/20/24 15:05	

LABORATORY CONTROL SAMPLE: 4513434

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	105	80-120	
Arsenic	mg/L	0.1	0.10	102	80-120	
Barium	mg/L	0.1	0.10	101	80-120	
Beryllium	mg/L	0.1	0.11	107	80-120	
Boron	mg/L	1	1.0	100	80-120	
Cadmium	mg/L	0.1	0.10	105	80-120	
Chromium	mg/L	0.1	0.10	104	80-120	
Cobalt	mg/L	0.1	0.10	103	80-120	
Lead	mg/L	0.1	0.10	102	80-120	
Lithium	mg/L	0.1	0.11	108	80-120	
Molybdenum	mg/L	0.1	0.11	106	80-120	
Selenium	mg/L	0.1	0.10	103	80-120	
Thallium	mg/L	0.1	0.10	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4513435 4513436

Parameter	Units	92747679001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.10	0.10	103	103	75-125	0	20	
Arsenic	mg/L	ND	0.1	0.1	0.10	0.10	101	102	75-125	1	20	

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QUALITY CONTROL DATA

Project: Hammond AP-1 (CA)-20240812
Pace Project No.: 92747679

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4513435 4513436

Parameter	Units	92747679001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	mg/L	0.066	0.1	0.1	0.17	0.17	107	107	75-125	0	20	
Beryllium	mg/L	ND	0.1	0.1	0.10	0.10	100	100	75-125	0	20	
Boron	mg/L	1.2	1	1	2.3	2.4	112	114	75-125	1	20	
Cadmium	mg/L	0.00021J	0.1	0.1	0.10	0.10	102	102	75-125	0	20	
Chromium	mg/L	ND	0.1	0.1	0.10	0.10	103	102	75-125	1	20	
Cobalt	mg/L	0.0033J	0.1	0.1	0.10	0.10	100	101	75-125	1	20	
Lead	mg/L	ND	0.1	0.1	0.095	0.097	95	97	75-125	2	20	
Lithium	mg/L	0.0019J	0.1	0.1	0.10	0.10	101	100	75-125	1	20	
Molybdenum	mg/L	0.25	0.1	0.1	0.35	0.36	108	111	75-125	1	20	
Selenium	mg/L	ND	0.1	0.1	0.10	0.10	101	102	75-125	1	20	
Thallium	mg/L	ND	0.1	0.1	0.095	0.097	95	97	75-125	2	20	

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QUALITY CONTROL DATA

Project: Hammond AP-1 (CA)-20240812
Pace Project No.: 92747679

QC Batch: 877185
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92747679001, 92747679002, 92747679003, 92747679004, 92747679005

METHOD BLANK: 4518051 Matrix: Water
Associated Lab Samples: 92747679001, 92747679002, 92747679003, 92747679004, 92747679005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	08/26/24 12:25	

LABORATORY CONTROL SAMPLE: 4518052

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0024	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4518053 4518054

Parameter	Units	92746891021 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0023	0.0024	93	94	75-125	1	20	

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QUALITY CONTROL DATA

Project: Hammond AP-1 (CA)-20240812
Pace Project No.: 92747679

QC Batch: 876190
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92747679001, 92747679003

METHOD BLANK: 4513596 Matrix: Water
Associated Lab Samples: 92747679001, 92747679003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	08/16/24 14:10	

LABORATORY CONTROL SAMPLE: 4513597

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	415	104	80-120	

SAMPLE DUPLICATE: 4513598

Parameter	Units	92747267003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	141	141	0	10	

SAMPLE DUPLICATE: 4513599

Parameter	Units	92747305002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	93.0	87.0	7	10	

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QUALITY CONTROL DATA

Project: Hammond AP-1 (CA)-20240812
Pace Project No.: 92747679

QC Batch: 876599
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92747679002, 92747679004, 92747679005

METHOD BLANK: 4515256 Matrix: Water
Associated Lab Samples: 92747679002, 92747679004, 92747679005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	08/19/24 17:58	

LABORATORY CONTROL SAMPLE: 4515257

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	410	102	80-120	

SAMPLE DUPLICATE: 4515259

Parameter	Units	92747679002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	449	493	9	10	

SAMPLE DUPLICATE: 4515287

Parameter	Units	92746783032 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	25.0	25.0	0	10	

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QUALITY CONTROL DATA

Project: Hammond AP-1 (CA)-20240812
Pace Project No.: 92747679

QC Batch: 875982
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92747679001, 92747679003

METHOD BLANK: 4512446 Matrix: Water
Associated Lab Samples: 92747679001, 92747679003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	08/15/24 19:45	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	08/15/24 19:45	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	08/15/24 19:45	

LABORATORY CONTROL SAMPLE: 4512447

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	52.5	105	80-120	

LABORATORY CONTROL SAMPLE: 4512448

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	53.1	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4512449 4512450

Parameter	Units	92747221005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	62.0	50	50	107	112	91	101	80-120	5	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4512451 4512452

Parameter	Units	92747221006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	ND	50	50	41.0	39.5	82	79	80-120	4	25	M1

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QUALITY CONTROL DATA

Project: Hammond AP-1 (CA)-20240812
Pace Project No.: 92747679

QC Batch: 876126
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92747679002, 92747679004, 92747679005

METHOD BLANK: 4513382 Matrix: Water
Associated Lab Samples: 92747679002, 92747679004, 92747679005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	08/16/24 14:26	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	08/16/24 14:26	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	08/16/24 14:26	

LABORATORY CONTROL SAMPLE: 4513383

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	52.5	105	80-120	

LABORATORY CONTROL SAMPLE: 4513384

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	52.2	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4513385 4513386

Parameter	Units	92747429001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	8.4	50	50	59.6	59.3	102	102	80-120	0	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4513387 4513388

Parameter	Units	92748004001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	226	50	50	277	269	101	86	80-120	3	25	

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QUALITY CONTROL DATA

Project: Hammond AP-1 (CA)-20240812
Pace Project No.: 92747679

QC Batch: 876099
QC Batch Method: SM 4500-S2D-2011
Analysis Method: SM 4500-S2D-2011
Analysis Description: 4500S2D Sulfide Water
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92747679001, 92747679002, 92747679003, 92747679004, 92747679005

METHOD BLANK: 4513327 Matrix: Water
Associated Lab Samples: 92747679001, 92747679002, 92747679003, 92747679004, 92747679005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	0.022	08/17/24 04:12	

LABORATORY CONTROL SAMPLE: 4513328

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	0.52	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4513329 4513330

Parameter	Units	92746280012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.41	0.39	82	77	80-120	6	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4513331 4513332

Parameter	Units	92747679002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.52	0.54	103	108	80-120	5	10	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Hammond AP-1 (CA)-20240812
Pace Project No.: 92747679

QC Batch: 876002
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92747679001, 92747679002, 92747679003, 92747679004, 92747679005

METHOD BLANK: 4512588 Matrix: Water
Associated Lab Samples: 92747679001, 92747679002, 92747679003, 92747679004, 92747679005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	08/15/24 21:36	
Fluoride	mg/L	ND	0.10	0.050	08/15/24 21:36	
Sulfate	mg/L	ND	1.0	0.50	08/15/24 21:36	

LABORATORY CONTROL SAMPLE: 4512589

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.4	101	90-110	
Fluoride	mg/L	2.5	2.6	102	90-110	
Sulfate	mg/L	50	51.1	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4512590 4512591

Parameter	Units	92747679001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	42.3	50	50	90.1	93.2	96	102	90-110	3	10	
Fluoride	mg/L	0.35	2.5	2.5	2.8	2.9	97	103	90-110	5	10	
Sulfate	mg/L	157	50	50	198	208	82	101	90-110	5	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4512592 4512593

Parameter	Units	92747803004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	1.6	50	50	52.4	53.1	102	103	90-110	1	10	
Fluoride	mg/L	0.12	2.5	2.5	2.6	2.7	100	102	90-110	2	10	
Sulfate	mg/L	34.8	50	50	85.2	86.0	101	102	90-110	1	10	

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QUALIFIERS

Project: Hammond AP-1 (CA)-20240812
Pace Project No.: 92747679

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Hammond AP-1 (CA)-20240812
Pace Project No.: 92747679

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92747679001	**HAM-PT-09**	EPA 3010A	877202	EPA 6010D	877299
92747679002	**HAM-PT-10**	EPA 3010A	877202	EPA 6010D	877299
92747679003	**HAM-PT-11**	EPA 3010A	877202	EPA 6010D	877299
92747679004	**HAM-PT-12**	EPA 3010A	877202	EPA 6010D	877299
92747679005	**HAM-PT-14**	EPA 3010A	877202	EPA 6010D	877299
92747679001	**HAM-PT-09**	EPA 3005A	876140	EPA 6020B	876308
92747679002	**HAM-PT-10**	EPA 3005A	876140	EPA 6020B	876308
92747679003	**HAM-PT-11**	EPA 3005A	876140	EPA 6020B	876308
92747679004	**HAM-PT-12**	EPA 3005A	876140	EPA 6020B	876308
92747679005	**HAM-PT-14**	EPA 3005A	876140	EPA 6020B	876308
92747679001	**HAM-PT-09**	EPA 7470A	877185	EPA 7470A	878170
92747679002	**HAM-PT-10**	EPA 7470A	877185	EPA 7470A	878170
92747679003	**HAM-PT-11**	EPA 7470A	877185	EPA 7470A	878170
92747679004	**HAM-PT-12**	EPA 7470A	877185	EPA 7470A	878170
92747679005	**HAM-PT-14**	EPA 7470A	877185	EPA 7470A	878170
92747679001	**HAM-PT-09**	SM 2540C-2015	876190		
92747679002	**HAM-PT-10**	SM 2540C-2015	876599		
92747679003	**HAM-PT-11**	SM 2540C-2015	876190		
92747679004	**HAM-PT-12**	SM 2540C-2015	876599		
92747679005	**HAM-PT-14**	SM 2540C-2015	876599		
92747679001	**HAM-PT-09**	SM 2320B-2011	875982		
92747679002	**HAM-PT-10**	SM 2320B-2011	876126		
92747679003	**HAM-PT-11**	SM 2320B-2011	875982		
92747679004	**HAM-PT-12**	SM 2320B-2011	876126		
92747679005	**HAM-PT-14**	SM 2320B-2011	876126		
92747679001	**HAM-PT-09**	SM 4500-S2D-2011	876099		
92747679002	**HAM-PT-10**	SM 4500-S2D-2011	876099		
92747679003	**HAM-PT-11**	SM 4500-S2D-2011	876099		
92747679004	**HAM-PT-12**	SM 4500-S2D-2011	876099		
92747679005	**HAM-PT-14**	SM 4500-S2D-2011	876099		
92747679001	**HAM-PT-09**	EPA 300.0 Rev 2.1 1993	876002		
92747679002	**HAM-PT-10**	EPA 300.0 Rev 2.1 1993	876002		
92747679003	**HAM-PT-11**	EPA 300.0 Rev 2.1 1993	876002		
92747679004	**HAM-PT-12**	EPA 300.0 Rev 2.1 1993	876002		
92747679005	**HAM-PT-14**	EPA 300.0 Rev 2.1 1993	876002		

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DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☒ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #: **WO# : 92747679**

92747679

Courier: ☐ Commercial ☒ Pace ☐ Fed Ex ☐ UPS ☐ USPS ☐ Other: ☐ Client

Custody Seal Present? ☒ Yes ☐ No Seals Intact? ☒ Yes ☐ No ☐ N/A

Date/Initials Person Examining Contents:

Packing Material: ☒ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☒ N/A

Thermometer: ☐ IR Gun ID: 214

Type of Ice: ☒ Wet ☐ Blue ☐ None

Cooler Temp: 3.0 Correction Factor: Add/Subtract (°C) 0

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 3.0

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☒ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☒ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☒ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☒ No	☐ N/A	4.
Sufficient Volume?	☒ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☒ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☒ Yes	☐ No	☐ N/A	
Containers Intact?	☒ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☒ N/A	8.
Sample Labels Match COC?	☒ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: W				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☒ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☒ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☒ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

Qualtrax ID: 69614

Pace

DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

WO#: 92747679

PM: BV **Due Date: 08/29/24**

CLIENT: 92- GP-HAM

Project #

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg
**Bottom half of box is to list number of bottles
***Check all unpreserved Nitrates for chlorine

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Client GA Power Profile/EZ (Circle one)_____ Notes_____

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)		BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG1U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation Vials (N/A)	DG8U-40 mL Amber Unpreserved vials (N/A)
CC																														
1		2	1				1	1																						
2		2	1				1	1																						
3		2	1				1	1																						
4		2	1				1	1																						
5		2	1				1	1																						
6																														
7																														
8																														
9																														
10																														
11																														
12																														

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

WO# : 92747679

PM: BV **Due Date: 08/29/24**

CLIENT: 92- GP-HAM

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Geosyntec Contacts	Company Name:	
				Address:	
Email To:	SCS Contacts	Purchase Order No.:	GPC82474-0001	Pace Quote Reference:	
Phone:	Fax:	Project Name:	Hammond AP-1	Pace Project Manager:	Bonnie Vang
Requested Due Date/TAT:	10 day	Project Number:		Pace Profile #:	10839

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER

UST RCRA OTHER ~~CCR~~

Site Location STATE: ~~GA~~

Valid Matrix Codes: DRINKING WATER DW WT; WATER WT; WASTE WATER WW; PRODUCT P; SOLID/SOIL SL; OIL OL; WIPE WP; AIR AR; OTHER OT; TISSUE TS

ITEM #	SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE DATE	COLLECTED COMPOSITE TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	Chloride, Fluoride, Sulfate	Full App. III and IV metals	Major ions (Pro/Ze 10839-2)	TDS	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
																		Requested Analysis Filtered (Y/N)	N	N	N	N		
1	HAM-PT-09	WG	G	8/12/2024	1530				5	3		1					1		X	X	X	X	N	
2	HAM-PT-10	WG	G	8/13/2024	1410				5	3		1					1		X	X	X	X	N	
3	HAM-PT-11	WG	G	8/12/2024	1725				5	3		1					1		X	X	X	X	N	
4	HAM-PT-12	WG	G	8/13/2024	1205				5	3		1					1		X	X	X	X	N	
5	HAM-PT-14	WG	G	8/13/2024	1700				5	3		1					1		X	X	X	X	N	
6																								
7																								
8																								
9																								
10																								
11																								
12																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Task Code: HAM-CCR-CA-20240812	Jacob Tracy / Geosyntec	08/14/24	12:05	Ryan Williams / Pace	08/14/24	12:05	
	Ryan Williams / Pace	8/14/2024	1440		8/14/24	1440	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: / Geosyntec Consultants, Inc.

SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY):

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

September 17, 2024

Kristen Jurinko
Southern Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, GA 30308

RE: Project: Hammond AP-1 (CA)-20240812
Pace Project No.: 92748254

Dear Kristen Jurinko:

Enclosed are the analytical results for sample(s) received by the laboratory on August 16, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Asheville
- Pace Analytical Services - Peachtree Corners, GA

Revision 1: Collected date for FD-01 updated to 8/14/24.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Bonnie Vang
bonnie.vang@pacelabs.com
704-977-0968
Project Manager

Enclosures

cc: Kip Gray, Geosyntec
Christine Hug, Geosyntec Consultants, Inc.
Thomas Kessler, Geosyntec Consultants
Whitney Law, Geosyntec Consultants
Laura Midkiff, Southern Company
Caroline Nelson, Geosyntec Consultants, Inc
Jamie Newsome, Geosyntec Consultants
Zain Webb, Geosyntec Consultants

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CERTIFICATIONS

Project: Hammond AP-1 (CA)-20240812
Pace Project No.: 92748254

Pace Analytical Services Asheville
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Laboratory ID: 99030
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners
110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812
North Carolina Certification #: 381
South Carolina Certification #: 98011001
Virginia Certification #: 460204

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SAMPLE SUMMARY

Project: Hammond AP-1 (CA)-20240812
Pace Project No.: 92748254

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92748254001	**HAM-PT-07**	Water	08/14/24 15:07	08/16/24 12:50
92748254002	**HAM-PT-08**	Water	08/14/24 11:41	08/16/24 12:50
92748254003	**HAM-PT-13**	Water	08/14/24 16:55	08/16/24 12:50
92748254004	**HAM-PT-15**	Water	08/14/24 13:30	08/16/24 12:50
92748254005	**HAM-AP1-FB-01**	Water	08/15/24 14:45	08/16/24 12:50
92748254006	**HAM-AP1-EB-01**	Water	08/15/24 14:45	08/16/24 12:50
92748254007	**HAM-AP1-FD-01**	Water	08/14/24 00:00	08/16/24 12:50

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SAMPLE ANALYTE COUNT

Project: Hammond AP-1 (CA)-20240812
Pace Project No.: 92748254

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92748254001	**HAM-PT-07**	EPA 6010D	AJM, MJS2	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	YEG	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92748254002	**HAM-PT-08**	EPA 6010D	AJM	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	YEG	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92748254003	**HAM-PT-13**	EPA 6010D	AJM	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	YEG	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92748254004	**HAM-PT-15**	EPA 6010D	AJM	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	YEG	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92748254005	**HAM-AP1-FB-01**	EPA 6010D	AJM	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92748254006	**HAM-AP1-EB-01**	EPA 6010D	AJM	6
		EPA 6020B	CW1	13

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: Hammond AP-1 (CA)-20240812
Pace Project No.: 92748254

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92748254007	**HAM-AP1-FD-01**	EPA 6010D	AJM	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	JCM	3

PASI-A = Pace Analytical Services - Asheville
PASI-GA = Pace Analytical Services - Peachtree Corners, GA

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SUMMARY OF DETECTION

Project: Hammond AP-1 (CA)-20240812
Pace Project No.: 92748254

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92748254001	**HAM-PT-07**					
EPA 6010D	Iron	18.4	mg/L	0.040	08/23/24 03:10	
EPA 6010D	Manganese	4.3	mg/L	0.040	08/23/24 03:10	
EPA 6010D	Calcium	127	mg/L	1.0	08/23/24 03:10	
EPA 6010D	Magnesium	18.7	mg/L	0.050	08/23/24 03:10	
EPA 6010D	Potassium	5.7	mg/L	0.50	08/25/24 18:02	
EPA 6010D	Sodium	9.5	mg/L	1.0	08/25/24 18:02	
EPA 6020B	Arsenic	0.24	mg/L	0.0050	08/26/24 22:08	
EPA 6020B	Barium	0.047	mg/L	0.0050	08/26/24 22:08	
EPA 6020B	Beryllium	0.00010J	mg/L	0.00050	08/26/24 22:08	
EPA 6020B	Boron	0.55	mg/L	0.040	08/26/24 22:08	
EPA 6020B	Cobalt	0.059	mg/L	0.0050	08/26/24 22:08	
EPA 6020B	Lithium	0.058	mg/L	0.030	08/26/24 22:08	
EPA 6020B	Molybdenum	0.0079J	mg/L	0.010	08/26/24 22:08	
SM 2540C-2015	Total Dissolved Solids	574	mg/L	25.0	08/21/24 16:27	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	134	mg/L	5.0	08/19/24 14:38	
SM 2320B-2011	Alkalinity, Total as CaCO3	134	mg/L	5.0	08/19/24 14:38	
EPA 300.0 Rev 2.1 1993	Chloride	18.6	mg/L	1.0	08/17/24 18:41	
EPA 300.0 Rev 2.1 1993	Fluoride	0.29	mg/L	0.10	08/17/24 18:41	
EPA 300.0 Rev 2.1 1993	Sulfate	231	mg/L	5.0	08/18/24 01:23	
92748254002	**HAM-PT-08**					
EPA 6010D	Iron	15.5	mg/L	0.040	08/25/24 18:16	
EPA 6010D	Manganese	4.2	mg/L	0.040	08/25/24 18:16	
EPA 6010D	Potassium	4.9	mg/L	0.50	08/25/24 18:16	
EPA 6010D	Sodium	7.2	mg/L	1.0	08/25/24 18:16	
EPA 6010D	Calcium	99.1	mg/L	1.0	08/25/24 18:16	
EPA 6010D	Magnesium	13.6	mg/L	0.050	08/25/24 18:16	
EPA 6020B	Arsenic	0.29	mg/L	0.0050	08/26/24 22:12	
EPA 6020B	Barium	0.048	mg/L	0.0050	08/26/24 22:12	
EPA 6020B	Boron	0.62	mg/L	0.040	08/26/24 22:12	
EPA 6020B	Cobalt	0.084	mg/L	0.0050	08/26/24 22:12	
EPA 6020B	Lithium	0.025J	mg/L	0.030	08/26/24 22:12	
EPA 6020B	Molybdenum	0.011	mg/L	0.010	08/26/24 22:12	
SM 2540C-2015	Total Dissolved Solids	474	mg/L	25.0	08/21/24 16:27	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	89.7	mg/L	5.0	08/19/24 14:48	
SM 2320B-2011	Alkalinity, Total as CaCO3	89.7	mg/L	5.0	08/19/24 14:48	
EPA 300.0 Rev 2.1 1993	Chloride	17.0	mg/L	1.0	08/17/24 18:55	
EPA 300.0 Rev 2.1 1993	Sulfate	203	mg/L	5.0	08/18/24 01:37	
92748254003	**HAM-PT-13**					
EPA 6010D	Iron	22.8	mg/L	0.040	08/25/24 18:19	
EPA 6010D	Manganese	4.0	mg/L	0.040	08/25/24 18:19	
EPA 6010D	Potassium	5.4	mg/L	0.50	08/25/24 18:19	
EPA 6010D	Sodium	9.2	mg/L	1.0	08/25/24 18:19	
EPA 6010D	Calcium	124	mg/L	1.0	08/25/24 18:19	
EPA 6010D	Magnesium	16.9	mg/L	0.050	08/25/24 18:19	
EPA 6020B	Arsenic	0.26	mg/L	0.0050	08/26/24 22:16	
EPA 6020B	Barium	0.043	mg/L	0.0050	08/26/24 22:16	

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SUMMARY OF DETECTION

Project: Hammond AP-1 (CA)-20240812
Pace Project No.: 92748254

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92748254003	**HAM-PT-13**					
EPA 6020B	Boron	0.52	mg/L	0.040	08/26/24 22:16	
EPA 6020B	Cobalt	0.036	mg/L	0.0050	08/26/24 22:16	
EPA 6020B	Lithium	0.058	mg/L	0.030	08/26/24 22:16	
EPA 6020B	Molybdenum	0.0072J	mg/L	0.010	08/26/24 22:16	
SM 2540C-2015	Total Dissolved Solids	564	mg/L	25.0	08/21/24 16:27	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	118	mg/L	5.0	08/19/24 14:56	
SM 2320B-2011	Alkalinity, Total as CaCO3	118	mg/L	5.0	08/19/24 14:56	
EPA 300.0 Rev 2.1 1993	Chloride	17.7	mg/L	1.0	08/17/24 19:10	
EPA 300.0 Rev 2.1 1993	Fluoride	0.28	mg/L	0.10	08/17/24 19:10	
EPA 300.0 Rev 2.1 1993	Sulfate	232	mg/L	6.0	08/18/24 01:51	
92748254004	**HAM-PT-15**					
EPA 6010D	Iron	12.8	mg/L	0.040	08/25/24 18:22	
EPA 6010D	Manganese	5.5	mg/L	0.040	08/25/24 18:22	
EPA 6010D	Potassium	5.3	mg/L	0.50	08/25/24 18:22	
EPA 6010D	Sodium	8.1	mg/L	1.0	08/25/24 18:22	
EPA 6010D	Calcium	123	mg/L	1.0	08/25/24 18:22	
EPA 6010D	Magnesium	15.3	mg/L	0.050	08/25/24 18:22	
EPA 6020B	Arsenic	0.42	mg/L	0.0050	08/26/24 22:27	
EPA 6020B	Barium	0.044	mg/L	0.0050	08/26/24 22:27	
EPA 6020B	Beryllium	0.000096J	mg/L	0.00050	08/26/24 22:27	
EPA 6020B	Boron	0.63	mg/L	0.040	08/26/24 22:27	
EPA 6020B	Cobalt	0.061	mg/L	0.0050	08/26/24 22:27	
EPA 6020B	Lithium	0.052	mg/L	0.030	08/26/24 22:27	
EPA 6020B	Molybdenum	0.013	mg/L	0.010	08/26/24 22:27	
SM 2540C-2015	Total Dissolved Solids	548	mg/L	25.0	08/21/24 16:27	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	128	mg/L	5.0	08/19/24 15:05	
SM 2320B-2011	Alkalinity, Total as CaCO3	128	mg/L	5.0	08/19/24 15:05	
EPA 300.0 Rev 2.1 1993	Chloride	15.7	mg/L	1.0	08/17/24 19:24	
EPA 300.0 Rev 2.1 1993	Fluoride	0.29	mg/L	0.10	08/17/24 19:24	
EPA 300.0 Rev 2.1 1993	Sulfate	212	mg/L	5.0	08/18/24 02:05	
92748254006	**HAM-AP1-EB-01**					
SM 2540C-2015	Total Dissolved Solids	111	mg/L	25.0	08/22/24 16:16	
92748254007	**HAM-AP1-FD-01**					
EPA 6010D	Iron	15.4	mg/L	0.040	08/25/24 18:40	
EPA 6010D	Manganese	4.2	mg/L	0.040	08/25/24 18:40	
EPA 6010D	Potassium	4.9	mg/L	0.50	08/25/24 18:40	
EPA 6010D	Sodium	7.4	mg/L	1.0	08/25/24 18:40	
EPA 6010D	Calcium	99.4	mg/L	1.0	08/25/24 18:40	
EPA 6010D	Magnesium	13.8	mg/L	0.050	08/25/24 18:40	
EPA 6020B	Arsenic	0.29	mg/L	0.0050	08/26/24 22:42	
EPA 6020B	Barium	0.048	mg/L	0.0050	08/26/24 22:42	
EPA 6020B	Boron	0.63	mg/L	0.040	08/26/24 22:42	
EPA 6020B	Cobalt	0.082	mg/L	0.0050	08/26/24 22:42	
EPA 6020B	Lithium	0.024J	mg/L	0.030	08/26/24 22:42	
EPA 6020B	Molybdenum	0.011	mg/L	0.010	08/26/24 22:42	
SM 2540C-2015	Total Dissolved Solids	469	mg/L	25.0	08/22/24 16:16	

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SUMMARY OF DETECTION

Project: Hammond AP-1 (CA)-20240812
Pace Project No.: 92748254

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92748254007	**HAM-AP1-FD-01**					
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	101	mg/L	5.0	08/21/24 19:41	
SM 2320B-2011	Alkalinity, Total as CaCO3	101	mg/L	5.0	08/21/24 19:41	
EPA 300.0 Rev 2.1 1993	Chloride	16.7	mg/L	1.0	08/17/24 19:39	
EPA 300.0 Rev 2.1 1993	Fluoride	0.14	mg/L	0.10	08/17/24 19:39	
EPA 300.0 Rev 2.1 1993	Sulfate	201	mg/L	5.0	08/18/24 02:19	

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CA)-20240812
Pace Project No.: 92748254

Sample: HAM-PT-07 **Lab ID: 92748254001** Collected: 08/14/24 15:07 Received: 08/16/24 12:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**18.4**	mg/L	0.040	0.025	1	08/22/24 13:55	08/23/24 03:10	7439-89-6	
Manganese	**4.3**	mg/L	0.040	0.011	1	08/22/24 13:55	08/23/24 03:10	7439-96-5	
Calcium	**127**	mg/L	1.0	0.12	1	08/22/24 13:55	08/23/24 03:10	7440-70-2	
Magnesium	**18.7**	mg/L	0.050	0.012	1	08/22/24 13:55	08/23/24 03:10	7439-95-4	
Potassium	**5.7**	mg/L	0.50	0.15	1	08/22/24 13:55	08/25/24 18:02	7440-09-7	
Sodium	**9.5**	mg/L	1.0	0.58	1	08/22/24 13:55	08/25/24 18:02	7440-23-5	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	08/23/24 10:30	08/26/24 22:08	7440-36-0	
Arsenic	**0.24**	mg/L	0.0050	0.00084	1	08/23/24 10:30	08/26/24 22:08	7440-38-2	
Barium	**0.047**	mg/L	0.0050	0.00047	1	08/23/24 10:30	08/26/24 22:08	7440-39-3	
Beryllium	**0.00010J**	mg/L	0.00050	0.000094	1	08/23/24 10:30	08/26/24 22:08	7440-41-7	
Boron	**0.55**	mg/L	0.040	0.012	1	08/23/24 10:30	08/26/24 22:08	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	08/23/24 10:30	08/26/24 22:08	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/23/24 10:30	08/26/24 22:08	7440-47-3	
Cobalt	**0.059**	mg/L	0.0050	0.00032	1	08/23/24 10:30	08/26/24 22:08	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/23/24 10:30	08/26/24 22:08	7439-92-1	
Lithium	**0.058**	mg/L	0.030	0.0016	1	08/23/24 10:30	08/26/24 22:08	7439-93-2	
Molybdenum	**0.0079J**	mg/L	0.010	0.00062	1	08/23/24 10:30	08/26/24 22:08	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	08/23/24 10:30	08/26/24 22:08	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/23/24 10:30	08/26/24 22:08	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	08/27/24 10:00	08/27/24 14:20	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**574**	mg/L	25.0	25.0	1		08/21/24 16:27		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**134**	mg/L	5.0	5.0	1		08/19/24 14:38		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		08/19/24 14:38		
Alkalinity, Total as CaCO3	**134**	mg/L	5.0	5.0	1		08/19/24 14:38		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		08/17/24 04:26	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**18.6**	mg/L	1.0	0.60	1		08/17/24 18:41	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CA)-20240812
Pace Project No.: 92748254

Sample: HAM-PT-07 **Lab ID: 92748254001** Collected: 08/14/24 15:07 Received: 08/16/24 12:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.29**	mg/L	0.10	0.050	1		08/17/24 18:41	16984-48-8	
Sulfate	**231**	mg/L	5.0	2.5	5		08/18/24 01:23	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CA)-20240812
Pace Project No.: 92748254

Sample: HAM-PT-08 **Lab ID: 92748254002** Collected: 08/14/24 11:41 Received: 08/16/24 12:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**15.5**	mg/L	0.040	0.025	1	08/24/24 09:57	08/25/24 18:16	7439-89-6	
Manganese	**4.2**	mg/L	0.040	0.011	1	08/24/24 09:57	08/25/24 18:16	7439-96-5	
Potassium	**4.9**	mg/L	0.50	0.15	1	08/24/24 09:57	08/25/24 18:16	7440-09-7	
Sodium	**7.2**	mg/L	1.0	0.58	1	08/24/24 09:57	08/25/24 18:16	7440-23-5	
Calcium	**99.1**	mg/L	1.0	0.12	1	08/24/24 09:57	08/25/24 18:16	7440-70-2	
Magnesium	**13.6**	mg/L	0.050	0.012	1	08/24/24 09:57	08/25/24 18:16	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	08/23/24 10:30	08/26/24 22:12	7440-36-0	
Arsenic	**0.29**	mg/L	0.0050	0.00084	1	08/23/24 10:30	08/26/24 22:12	7440-38-2	
Barium	**0.048**	mg/L	0.0050	0.00047	1	08/23/24 10:30	08/26/24 22:12	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	08/23/24 10:30	08/26/24 22:12	7440-41-7	
Boron	**0.62**	mg/L	0.040	0.012	1	08/23/24 10:30	08/26/24 22:12	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	08/23/24 10:30	08/26/24 22:12	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/23/24 10:30	08/26/24 22:12	7440-47-3	
Cobalt	**0.084**	mg/L	0.0050	0.00032	1	08/23/24 10:30	08/26/24 22:12	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/23/24 10:30	08/26/24 22:12	7439-92-1	
Lithium	**0.025J**	mg/L	0.030	0.0016	1	08/23/24 10:30	08/26/24 22:12	7439-93-2	
Molybdenum	**0.011**	mg/L	0.010	0.00062	1	08/23/24 10:30	08/26/24 22:12	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	08/23/24 10:30	08/26/24 22:12	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/23/24 10:30	08/26/24 22:12	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	08/27/24 10:00	08/27/24 14:23	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**474**	mg/L	25.0	25.0	1		08/21/24 16:27		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**89.7**	mg/L	5.0	5.0	1		08/19/24 14:48		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		08/19/24 14:48		
Alkalinity, Total as CaCO3	**89.7**	mg/L	5.0	5.0	1		08/19/24 14:48		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		08/17/24 04:27	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**17.0**	mg/L	1.0	0.60	1		08/17/24 18:55	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CA)-20240812
Pace Project No.: 92748254

Sample: HAM-PT-08 **Lab ID: 92748254002** Collected: 08/14/24 11:41 Received: 08/16/24 12:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	ND	mg/L	0.10	0.050	1		08/17/24 18:55	16984-48-8	
Sulfate	**203**	mg/L	5.0	2.5	5		08/18/24 01:37	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CA)-20240812
Pace Project No.: 92748254

Sample: HAM-PT-13 **Lab ID: 92748254003** Collected: 08/14/24 16:55 Received: 08/16/24 12:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**22.8**	mg/L	0.040	0.025	1	08/24/24 09:57	08/25/24 18:19	7439-89-6	
Manganese	**4.0**	mg/L	0.040	0.011	1	08/24/24 09:57	08/25/24 18:19	7439-96-5	
Potassium	**5.4**	mg/L	0.50	0.15	1	08/24/24 09:57	08/25/24 18:19	7440-09-7	
Sodium	**9.2**	mg/L	1.0	0.58	1	08/24/24 09:57	08/25/24 18:19	7440-23-5	
Calcium	**124**	mg/L	1.0	0.12	1	08/24/24 09:57	08/25/24 18:19	7440-70-2	
Magnesium	**16.9**	mg/L	0.050	0.012	1	08/24/24 09:57	08/25/24 18:19	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	08/23/24 10:30	08/26/24 22:16	7440-36-0	
Arsenic	**0.26**	mg/L	0.0050	0.00084	1	08/23/24 10:30	08/26/24 22:16	7440-38-2	
Barium	**0.043**	mg/L	0.0050	0.00047	1	08/23/24 10:30	08/26/24 22:16	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	08/23/24 10:30	08/26/24 22:16	7440-41-7	
Boron	**0.52**	mg/L	0.040	0.012	1	08/23/24 10:30	08/26/24 22:16	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	08/23/24 10:30	08/26/24 22:16	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/23/24 10:30	08/26/24 22:16	7440-47-3	
Cobalt	**0.036**	mg/L	0.0050	0.00032	1	08/23/24 10:30	08/26/24 22:16	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/23/24 10:30	08/26/24 22:16	7439-92-1	
Lithium	**0.058**	mg/L	0.030	0.0016	1	08/23/24 10:30	08/26/24 22:16	7439-93-2	
Molybdenum	**0.0072J**	mg/L	0.010	0.00062	1	08/23/24 10:30	08/26/24 22:16	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	08/23/24 10:30	08/26/24 22:16	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/23/24 10:30	08/26/24 22:16	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	08/27/24 10:00	08/27/24 14:25	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**564**	mg/L	25.0	25.0	1		08/21/24 16:27		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**118**	mg/L	5.0	5.0	1		08/19/24 14:56		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		08/19/24 14:56		
Alkalinity, Total as CaCO3	**118**	mg/L	5.0	5.0	1		08/19/24 14:56		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		08/17/24 04:28	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**17.7**	mg/L	1.0	0.60	1		08/17/24 19:10	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CA)-20240812
Pace Project No.: 92748254

Sample: HAM-PT-13 **Lab ID: 92748254003** Collected: 08/14/24 16:55 Received: 08/16/24 12:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.28**	mg/L	0.10	0.050	1		08/17/24 19:10	16984-48-8	
Sulfate	**232**	mg/L	6.0	3.0	6		08/18/24 01:51	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CA)-20240812
Pace Project No.: 92748254

Sample: HAM-PT-15 **Lab ID: 92748254004** Collected: 08/14/24 13:30 Received: 08/16/24 12:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**12.8**	mg/L	0.040	0.025	1	08/24/24 09:57	08/25/24 18:22	7439-89-6	
Manganese	**5.5**	mg/L	0.040	0.011	1	08/24/24 09:57	08/25/24 18:22	7439-96-5	
Potassium	**5.3**	mg/L	0.50	0.15	1	08/24/24 09:57	08/25/24 18:22	7440-09-7	
Sodium	**8.1**	mg/L	1.0	0.58	1	08/24/24 09:57	08/25/24 18:22	7440-23-5	
Calcium	**123**	mg/L	1.0	0.12	1	08/24/24 09:57	08/25/24 18:22	7440-70-2	
Magnesium	**15.3**	mg/L	0.050	0.012	1	08/24/24 09:57	08/25/24 18:22	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	08/23/24 10:30	08/26/24 22:27	7440-36-0	
Arsenic	**0.42**	mg/L	0.0050	0.00084	1	08/23/24 10:30	08/26/24 22:27	7440-38-2	
Barium	**0.044**	mg/L	0.0050	0.00047	1	08/23/24 10:30	08/26/24 22:27	7440-39-3	
Beryllium	**0.000096J**	mg/L	0.00050	0.000094	1	08/23/24 10:30	08/26/24 22:27	7440-41-7	
Boron	**0.63**	mg/L	0.040	0.012	1	08/23/24 10:30	08/26/24 22:27	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	08/23/24 10:30	08/26/24 22:27	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/23/24 10:30	08/26/24 22:27	7440-47-3	
Cobalt	**0.061**	mg/L	0.0050	0.00032	1	08/23/24 10:30	08/26/24 22:27	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/23/24 10:30	08/26/24 22:27	7439-92-1	
Lithium	**0.052**	mg/L	0.030	0.0016	1	08/23/24 10:30	08/26/24 22:27	7439-93-2	
Molybdenum	**0.013**	mg/L	0.010	0.00062	1	08/23/24 10:30	08/26/24 22:27	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	08/23/24 10:30	08/26/24 22:27	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/23/24 10:30	08/26/24 22:27	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	08/27/24 10:00	08/27/24 14:28	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**548**	mg/L	25.0	25.0	1		08/21/24 16:27		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**128**	mg/L	5.0	5.0	1		08/19/24 15:05		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		08/19/24 15:05		
Alkalinity, Total as CaCO3	**128**	mg/L	5.0	5.0	1		08/19/24 15:05		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		08/17/24 04:29	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**15.7**	mg/L	1.0	0.60	1		08/17/24 19:24	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CA)-20240812
Pace Project No.: 92748254

Sample: HAM-PT-15 **Lab ID: 92748254004** Collected: 08/14/24 13:30 Received: 08/16/24 12:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.29**	mg/L	0.10	0.050	1		08/17/24 19:24	16984-48-8	
Sulfate	**212**	mg/L	5.0	2.5	5		08/18/24 02:05	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CA)-20240812
Pace Project No.: 92748254

Sample: HAM-AP1-FB-01 **Lab ID: 92748254005** Collected: 08/15/24 14:45 Received: 08/16/24 12:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	08/24/24 09:57	08/25/24 18:25	7439-89-6	
Manganese	ND	mg/L	0.040	0.011	1	08/24/24 09:57	08/25/24 18:25	7439-96-5	
Potassium	ND	mg/L	0.50	0.15	1	08/24/24 09:57	08/25/24 18:25	7440-09-7	
Sodium	ND	mg/L	1.0	0.58	1	08/24/24 09:57	08/25/24 18:25	7440-23-5	
Calcium	ND	mg/L	1.0	0.12	1	08/24/24 09:57	08/25/24 18:25	7440-70-2	
Magnesium	ND	mg/L	0.050	0.012	1	08/24/24 09:57	08/25/24 18:25	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	08/28/24 09:51	08/28/24 16:21	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	08/28/24 09:51	08/28/24 16:21	7440-38-2	
Barium	ND	mg/L	0.0050	0.00047	1	08/28/24 09:51	08/28/24 16:21	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	08/28/24 09:51	08/28/24 16:21	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	08/28/24 09:51	08/28/24 16:21	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	08/28/24 09:51	08/28/24 16:21	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/28/24 09:51	08/28/24 16:21	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	08/28/24 09:51	08/28/24 16:21	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/28/24 09:51	08/28/24 16:21	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	08/28/24 09:51	08/28/24 16:21	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	08/28/24 09:51	08/28/24 16:21	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	08/28/24 09:51	08/28/24 16:21	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/28/24 09:51	08/28/24 16:21	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	08/27/24 10:00	08/27/24 14:31	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		08/22/24 16:15		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		08/21/24 19:33		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		08/21/24 19:33		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		08/21/24 19:33		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		08/17/24 04:39	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		08/17/24 14:50	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CA)-20240812
Pace Project No.: 92748254

Sample: HAM-AP1-FB-01 **Lab ID: 92748254005** Collected: 08/15/24 14:45 Received: 08/16/24 12:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	ND	mg/L	0.10	0.050	1		08/17/24 14:50	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		08/17/24 14:50	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CA)-20240812
Pace Project No.: 92748254

Sample: HAM-AP1-EB-01 **Lab ID: 92748254006** Collected: 08/15/24 14:45 Received: 08/16/24 12:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	08/24/24 09:57	08/25/24 18:36	7439-89-6	
Manganese	ND	mg/L	0.040	0.011	1	08/24/24 09:57	08/25/24 18:36	7439-96-5	
Potassium	ND	mg/L	0.50	0.15	1	08/24/24 09:57	08/25/24 18:36	7440-09-7	
Sodium	ND	mg/L	1.0	0.58	1	08/24/24 09:57	08/25/24 18:36	7440-23-5	
Calcium	ND	mg/L	1.0	0.12	1	08/24/24 09:57	08/25/24 18:36	7440-70-2	
Magnesium	ND	mg/L	0.050	0.012	1	08/24/24 09:57	08/25/24 18:36	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	08/28/24 09:51	08/28/24 16:25	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	08/28/24 09:51	08/28/24 16:25	7440-38-2	
Barium	ND	mg/L	0.0050	0.00047	1	08/28/24 09:51	08/28/24 16:25	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	08/28/24 09:51	08/28/24 16:25	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	08/28/24 09:51	08/28/24 16:25	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	08/28/24 09:51	08/28/24 16:25	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/28/24 09:51	08/28/24 16:25	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	08/28/24 09:51	08/28/24 16:25	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/28/24 09:51	08/28/24 16:25	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	08/28/24 09:51	08/28/24 16:25	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	08/28/24 09:51	08/28/24 16:25	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	08/28/24 09:51	08/28/24 16:25	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/28/24 09:51	08/28/24 16:25	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	08/27/24 10:00	08/27/24 14:33	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**111**	mg/L	25.0	25.0	1		08/22/24 16:16		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		08/21/24 19:37		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		08/21/24 19:37		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		08/21/24 19:37		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		08/17/24 04:39	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		08/17/24 15:04	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CA)-20240812
Pace Project No.: 92748254

Sample: HAM-AP1-EB-01 **Lab ID: 92748254006** Collected: 08/15/24 14:45 Received: 08/16/24 12:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	ND	mg/L	0.10	0.050	1		08/17/24 15:04	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		08/17/24 15:04	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CA)-20240812
Pace Project No.: 92748254

Sample: HAM-AP1-FD-01 **Lab ID: 92748254007** Collected: 08/14/24 00:00 Received: 08/16/24 12:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**15.4**	mg/L	0.040	0.025	1	08/24/24 09:57	08/25/24 18:40	7439-89-6	
Manganese	**4.2**	mg/L	0.040	0.011	1	08/24/24 09:57	08/25/24 18:40	7439-96-5	
Potassium	**4.9**	mg/L	0.50	0.15	1	08/24/24 09:57	08/25/24 18:40	7440-09-7	
Sodium	**7.4**	mg/L	1.0	0.58	1	08/24/24 09:57	08/25/24 18:40	7440-23-5	
Calcium	**99.4**	mg/L	1.0	0.12	1	08/24/24 09:57	08/25/24 18:40	7440-70-2	
Magnesium	**13.8**	mg/L	0.050	0.012	1	08/24/24 09:57	08/25/24 18:40	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	08/23/24 10:30	08/26/24 22:42	7440-36-0	
Arsenic	**0.29**	mg/L	0.0050	0.00084	1	08/23/24 10:30	08/26/24 22:42	7440-38-2	
Barium	**0.048**	mg/L	0.0050	0.00047	1	08/23/24 10:30	08/26/24 22:42	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	08/23/24 10:30	08/26/24 22:42	7440-41-7	
Boron	**0.63**	mg/L	0.040	0.012	1	08/23/24 10:30	08/26/24 22:42	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	08/23/24 10:30	08/26/24 22:42	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/23/24 10:30	08/26/24 22:42	7440-47-3	
Cobalt	**0.082**	mg/L	0.0050	0.00032	1	08/23/24 10:30	08/26/24 22:42	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/23/24 10:30	08/26/24 22:42	7439-92-1	
Lithium	**0.024J**	mg/L	0.030	0.0016	1	08/23/24 10:30	08/26/24 22:42	7439-93-2	
Molybdenum	**0.011**	mg/L	0.010	0.00062	1	08/23/24 10:30	08/26/24 22:42	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	08/23/24 10:30	08/26/24 22:42	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/23/24 10:30	08/26/24 22:42	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	08/27/24 10:00	08/27/24 14:36	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**469**	mg/L	25.0	25.0	1		08/22/24 16:16		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**101**	mg/L	5.0	5.0	1		08/21/24 19:41		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		08/21/24 19:41		
Alkalinity, Total as CaCO3	**101**	mg/L	5.0	5.0	1		08/21/24 19:41		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		08/17/24 04:40	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**16.7**	mg/L	1.0	0.60	1		08/17/24 19:39	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CA)-20240812
Pace Project No.: 92748254

Sample: HAM-AP1-FD-01 **Lab ID: 92748254007** Collected: 08/14/24 00:00 Received: 08/16/24 12:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.14**	mg/L	0.10	0.050	1		08/17/24 19:39	16984-48-8	
Sulfate	**201**	mg/L	5.0	2.5	5		08/18/24 02:19	14808-79-8	

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QUALITY CONTROL DATA

Project: Hammond AP-1 (CA)-20240812
Pace Project No.: 92748254

QC Batch: 877559
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92748254001

METHOD BLANK: 4520288 Matrix: Water
Associated Lab Samples: 92748254001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	08/23/24 01:31	
Iron	mg/L	ND	0.040	0.025	08/23/24 01:31	
Magnesium	mg/L	ND	0.050	0.012	08/23/24 01:31	
Manganese	mg/L	ND	0.040	0.011	08/23/24 01:31	
Potassium	mg/L	ND	0.50	0.15	08/25/24 16:35	
Sodium	mg/L	ND	1.0	0.58	08/25/24 16:35	

LABORATORY CONTROL SAMPLE: 4520289

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.2	116	80-120	
Iron	mg/L	1	1.1	115	80-120	
Magnesium	mg/L	1	1.2	118	80-120	
Manganese	mg/L	1	1.1	112	80-120	
Potassium	mg/L	1	1.1	111	80-120	
Sodium	mg/L	1	1.1	113	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4520290 4520291

Parameter	Units	92746783026 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	9.2	1	1	10.3	10.4	103	119	75-125	1	20	
Iron	mg/L	0.45	1	1	1.1	1.1	68	68	75-125	0	20	M1
Magnesium	mg/L	4.8	1	1	6.0	6.2	116	131	75-125	3	20	M1
Manganese	mg/L	0.016J	1	1	1.1	1.2	106	114	75-125	7	20	
Potassium	mg/L	0.67	1	1	1.8	1.8	111	111	75-125	0	20	
Sodium	mg/L	3.3	1	1	4.5	4.6	118	126	75-125	2	20	M1

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QUALITY CONTROL DATA

Project: Hammond AP-1 (CA)-20240812
Pace Project No.: 92748254

QC Batch: 878059
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92748254002, 92748254003, 92748254004, 92748254005, 92748254006, 92748254007

METHOD BLANK: 4522961 Matrix: Water
Associated Lab Samples: 92748254002, 92748254003, 92748254004, 92748254005, 92748254006, 92748254007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	08/25/24 18:09	
Iron	mg/L	ND	0.040	0.025	08/25/24 18:09	
Magnesium	mg/L	ND	0.050	0.012	08/25/24 18:09	
Manganese	mg/L	ND	0.040	0.011	08/25/24 18:09	
Potassium	mg/L	ND	0.50	0.15	08/25/24 18:09	
Sodium	mg/L	ND	1.0	0.58	08/25/24 18:09	

LABORATORY CONTROL SAMPLE: 4522962

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.1	108	80-120	
Iron	mg/L	1	1.1	107	80-120	
Magnesium	mg/L	1	1.1	107	80-120	
Manganese	mg/L	1	1.0	102	80-120	
Potassium	mg/L	1	0.96	96	80-120	
Sodium	mg/L	1	1.1	112	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4522980 4522981

Parameter	Units	92748919006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	ND	1	1	1.6	1.6	107	103	75-125	3	20	
Iron	mg/L	221 ug/L	1	1	1.3	1.3	109	106	75-125	3	20	
Magnesium	mg/L	412 ug/L	1	1	1.5	1.5	107	105	75-125	2	20	
Manganese	mg/L	ND	1	1	1.0	1.0	103	100	75-125	3	20	
Potassium	mg/L	1590 ug/L	1	1	2.6	2.6	104	100	75-125	2	20	
Sodium	mg/L	6150 ug/L	1	1	7.4	7.3	128	117	75-125	2	20	M1

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QUALITY CONTROL DATA

Project: Hammond AP-1 (CA)-20240812
Pace Project No.: 92748254

QC Batch: 877798
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92748254001, 92748254002, 92748254003, 92748254004, 92748254007

METHOD BLANK: 4521510 Matrix: Water
Associated Lab Samples: 92748254001, 92748254002, 92748254003, 92748254004, 92748254007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00054	08/26/24 20:58	
Arsenic	mg/L	ND	0.0050	0.00084	08/26/24 20:58	
Barium	mg/L	ND	0.0050	0.00047	08/26/24 20:58	
Beryllium	mg/L	ND	0.00050	0.000094	08/26/24 20:58	
Boron	mg/L	ND	0.040	0.012	08/26/24 20:58	
Cadmium	mg/L	ND	0.00050	0.00010	08/26/24 20:58	
Chromium	mg/L	ND	0.0050	0.0019	08/26/24 20:58	
Cobalt	mg/L	ND	0.0050	0.00032	08/26/24 20:58	
Lead	mg/L	ND	0.0010	0.00016	08/26/24 20:58	
Lithium	mg/L	ND	0.030	0.0016	08/26/24 20:58	
Molybdenum	mg/L	ND	0.010	0.00062	08/26/24 20:58	
Selenium	mg/L	ND	0.0050	0.00096	08/26/24 20:58	
Thallium	mg/L	ND	0.0010	0.00038	08/26/24 20:58	

LABORATORY CONTROL SAMPLE: 4521511

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.10	102	80-120	
Arsenic	mg/L	0.1	0.098	98	80-120	
Barium	mg/L	0.1	0.096	96	80-120	
Beryllium	mg/L	0.1	0.10	102	80-120	
Boron	mg/L	1	1.0	102	80-120	
Cadmium	mg/L	0.1	0.097	97	80-120	
Chromium	mg/L	0.1	0.098	98	80-120	
Cobalt	mg/L	0.1	0.097	97	80-120	
Lead	mg/L	0.1	0.10	100	80-120	
Lithium	mg/L	0.1	0.11	105	80-120	
Molybdenum	mg/L	0.1	0.10	101	80-120	
Selenium	mg/L	0.1	0.098	98	80-120	
Thallium	mg/L	0.1	0.096	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4521512 4521513

Parameter	Units	92748119003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.097	0.098	97	98	75-125	1	20	
Arsenic	mg/L	0.0013J	0.1	0.1	0.099	0.099	97	98	75-125	1	20	

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QUALITY CONTROL DATA

Project: Hammond AP-1 (CA)-20240812
Pace Project No.: 92748254

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4521512 4521513

Parameter	Units	92748119003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	mg/L	0.041	0.1	0.1	0.13	0.13	93	93	75-125	0	20	
Beryllium	mg/L	ND	0.1	0.1	0.10	0.10	100	100	75-125	0	20	
Boron	mg/L	0.35	1	1	1.3	1.3	99	97	75-125	1	20	
Cadmium	mg/L	ND	0.1	0.1	0.094	0.095	94	95	75-125	2	20	
Chromium	mg/L	ND	0.1	0.1	0.098	0.098	97	98	75-125	0	20	
Cobalt	mg/L	ND	0.1	0.1	0.093	0.095	93	95	75-125	2	20	
Lead	mg/L	ND	0.1	0.1	0.094	0.096	94	96	75-125	2	20	
Lithium	mg/L	ND	0.1	0.1	0.10	0.10	103	104	75-125	2	20	
Molybdenum	mg/L	ND	0.1	0.1	0.098	0.098	98	98	75-125	0	20	
Selenium	mg/L	ND	0.1	0.1	0.096	0.097	95	96	75-125	1	20	
Thallium	mg/L	ND	0.1	0.1	0.092	0.093	91	93	75-125	2	20	

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QUALITY CONTROL DATA

Project: Hammond AP-1 (CA)-20240812
Pace Project No.: 92748254

QC Batch: 878757
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92748254005, 92748254006

METHOD BLANK: 4526083 Matrix: Water
Associated Lab Samples: 92748254005, 92748254006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00054	08/28/24 16:12	
Arsenic	mg/L	ND	0.0050	0.00084	08/28/24 16:12	
Barium	mg/L	ND	0.0050	0.00047	08/28/24 16:12	
Beryllium	mg/L	ND	0.00050	0.000094	08/28/24 16:12	
Boron	mg/L	ND	0.040	0.012	08/28/24 16:12	
Cadmium	mg/L	ND	0.00050	0.00010	08/28/24 16:12	
Chromium	mg/L	ND	0.0050	0.0019	08/28/24 16:12	
Cobalt	mg/L	ND	0.0050	0.00032	08/28/24 16:12	
Lead	mg/L	ND	0.0010	0.00016	08/28/24 16:12	
Lithium	mg/L	ND	0.030	0.0016	08/28/24 16:12	
Molybdenum	mg/L	ND	0.010	0.00062	08/28/24 16:12	
Selenium	mg/L	ND	0.0050	0.00096	08/28/24 16:12	
Thallium	mg/L	ND	0.0010	0.00038	08/28/24 16:12	

LABORATORY CONTROL SAMPLE: 4526084

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	106	80-120	
Arsenic	mg/L	0.1	0.099	99	80-120	
Barium	mg/L	0.1	0.11	107	80-120	
Beryllium	mg/L	0.1	0.10	101	80-120	
Boron	mg/L	1	1.1	111	80-120	
Cadmium	mg/L	0.1	0.10	102	80-120	
Chromium	mg/L	0.1	0.10	102	80-120	
Cobalt	mg/L	0.1	0.098	98	80-120	
Lead	mg/L	0.1	0.10	103	80-120	
Lithium	mg/L	0.1	0.11	107	80-120	
Molybdenum	mg/L	0.1	0.11	110	80-120	
Selenium	mg/L	0.1	0.10	102	80-120	
Thallium	mg/L	0.1	0.099	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4526085 4526086

Parameter	Units	92749319036 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.11	0.10	109	104	75-125	4	20	
Arsenic	mg/L	ND	0.1	0.1	0.10	0.10	101	101	75-125	0	20	

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QUALITY CONTROL DATA

Project: Hammond AP-1 (CA)-20240812
Pace Project No.: 92748254

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4526085 4526086

Parameter	Units	92749319036 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	mg/L	25.1 ug/L	0.1	0.1	0.14	0.13	110	108	75-125	2	20	
Beryllium	mg/L	ND	0.1	0.1	0.11	0.099	105	99	75-125	6	20	
Boron	mg/L	ND	1	1	1.1	1.1	105	105	75-125	0	20	
Cadmium	mg/L	ND	0.1	0.1	0.10	0.10	104	100	75-125	5	20	
Chromium	mg/L	ND	0.1	0.1	0.10	0.10	101	102	75-125	1	20	
Cobalt	mg/L	ND	0.1	0.1	0.10	0.10	100	101	75-125	1	20	
Lead	mg/L	ND	0.1	0.1	0.10	0.10	100	100	75-125	1	20	
Lithium	mg/L	ND	0.1	0.1	0.10	0.10	104	100	75-125	4	20	
Molybdenum	mg/L	ND	0.1	0.1	0.11	0.11	109	107	75-125	3	20	
Selenium	mg/L	ND	0.1	0.1	0.10	0.099	103	98	75-125	5	20	
Thallium	mg/L	ND	0.1	0.1	0.095	0.096	95	96	75-125	1	20	

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QUALITY CONTROL DATA

Project: Hammond AP-1 (CA)-20240812
Pace Project No.: 92748254

QC Batch: 878334 | Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A | Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92748254001, 92748254002, 92748254003, 92748254004, 92748254005, 92748254006, 92748254007

METHOD BLANK: 4524107 Matrix: Water
Associated Lab Samples: 92748254001, 92748254002, 92748254003, 92748254004, 92748254005, 92748254006, 92748254007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	08/27/24 13:22	

LABORATORY CONTROL SAMPLE: 4524108

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0027	109	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4524109 4524110

Parameter	Units	92748048013 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0024	0.0023	93	91	75-125	2	20	

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QUALITY CONTROL DATA

Project: Hammond AP-1 (CA)-20240812
Pace Project No.: 92748254

QC Batch: 877174 | Analysis Method: SM 2540C-2015
QC Batch Method: SM 2540C-2015 | Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92748254001, 92748254002, 92748254003, 92748254004

METHOD BLANK: 4518022 Matrix: Water
Associated Lab Samples: 92748254001, 92748254002, 92748254003, 92748254004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	08/21/24 16:23	

LABORATORY CONTROL SAMPLE: 4518023

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	392	98	80-120	

SAMPLE DUPLICATE: 4518024

Parameter	Units	92748019001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	373	350	6	10	

SAMPLE DUPLICATE: 4518025

Parameter	Units	92748119002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	245	255	4	10	

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REPORT OF LABORATORY ANALYSIS

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(704)875-9092

QUALITY CONTROL DATA

Project: Hammond AP-1 (CA)-20240812
Pace Project No.: 92748254

QC Batch: 877482 | Analysis Method: SM 2540C-2015
QC Batch Method: SM 2540C-2015 | Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92748254005, 92748254006, 92748254007

METHOD BLANK: 4519828 Matrix: Water
Associated Lab Samples: 92748254005, 92748254006, 92748254007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	08/22/24 16:13	

LABORATORY CONTROL SAMPLE: 4519829

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	343	86	80-120	

SAMPLE DUPLICATE: 4519830

Parameter	Units	92748251006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1290	1270	1	10	

SAMPLE DUPLICATE: 4519831

Parameter	Units	92748515001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	160	176	10	10	

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QUALITY CONTROL DATA

Project: Hammond AP-1 (CA)-20240812
Pace Project No.: 92748254

QC Batch: 876583
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92748254001, 92748254002, 92748254003, 92748254004

METHOD BLANK: 4515214 Matrix: Water
Associated Lab Samples: 92748254001, 92748254002, 92748254003, 92748254004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	08/19/24 12:19	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	08/19/24 12:19	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	08/19/24 12:19	

LABORATORY CONTROL SAMPLE: 4515215

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	52.1	104	80-120	

LABORATORY CONTROL SAMPLE: 4515216

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	53.1	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4515217 4515218

Parameter	Units	92748115002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	25.9	50	50	75.6	75.2	99	99	80-120	0	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4515219 4515220

Parameter	Units	92748115004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	25.4	50	50	71.8	79.2	93	108	80-120	10	25	

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QUALITY CONTROL DATA

Project: Hammond AP-1 (CA)-20240812
Pace Project No.: 92748254

QC Batch: 877163
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92748254005, 92748254006, 92748254007

METHOD BLANK: 4517979 Matrix: Water
Associated Lab Samples: 92748254005, 92748254006, 92748254007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	08/21/24 17:18	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	08/21/24 17:18	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	08/21/24 17:18	

LABORATORY CONTROL SAMPLE: 4517980

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.6	103	80-120	

LABORATORY CONTROL SAMPLE: 4517981

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	52.6	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4517982 4517983

Parameter	Units	92748629001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	ND	50	50	ND	ND	7	9	80-120		25	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4517984 4517985

Parameter	Units	92748455001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	22.5	50	50	71.9	71.9	99	99	80-120	0	25	

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QUALITY CONTROL DATA

Project: Hammond AP-1 (CA)-20240812
Pace Project No.: 92748254

QC Batch: 876390 | Analysis Method: SM 4500-S2D-2011
QC Batch Method: SM 4500-S2D-2011 | Analysis Description: 4500S2D Sulfide Water
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92748254001, 92748254002, 92748254003, 92748254004, 92748254005, 92748254006, 92748254007

METHOD BLANK: 4514671 Matrix: Water
Associated Lab Samples: 92748254001, 92748254002, 92748254003, 92748254004, 92748254005, 92748254006, 92748254007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	0.022	08/17/24 04:24	

LABORATORY CONTROL SAMPLE: 4514672

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	0.51	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4514673 4514674

Parameter	Units	92748254001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.49	0.50	98	100	80-120	3	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4514675 4514676

Parameter	Units	92748251006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.48	0.51	95	102	80-120	6	10	

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QUALITY CONTROL DATA

Project: Hammond AP-1 (CA)-20240812
Pace Project No.: 92748254

QC Batch: 876425
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92748254001, 92748254002, 92748254003, 92748254004, 92748254005, 92748254006, 92748254007

METHOD BLANK: 4514777 Matrix: Water
Associated Lab Samples: 92748254001, 92748254002, 92748254003, 92748254004, 92748254005, 92748254006, 92748254007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	08/17/24 12:54	
Fluoride	mg/L	ND	0.10	0.050	08/17/24 12:54	
Sulfate	mg/L	ND	1.0	0.50	08/17/24 12:54	

LABORATORY CONTROL SAMPLE: 4514778

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.2	100	90-110	
Fluoride	mg/L	2.5	2.5	101	90-110	
Sulfate	mg/L	50	50.2	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4514779 4514780

Parameter	Units	92746783031 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	3.6	50	50	51.8	57.7	96	108	90-110	11	10	R1
Fluoride	mg/L	ND	2.5	2.5	2.3	2.6	93	105	90-110	13	10	R1
Sulfate	mg/L	7.5	50	50	55.7	61.7	96	109	90-110	10	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4514781 4514782

Parameter	Units	92748251008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	ND	50	50	49.4	51.7	99	103	90-110	5	10	
Fluoride	mg/L	ND	2.5	2.5	2.5	2.6	100	103	90-110	2	10	
Sulfate	mg/L	ND	50	50	49.3	51.5	99	103	90-110	4	10	

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QUALIFIERS

Project: Hammond AP-1 (CA)-20240812
Pace Project No.: 92748254

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
R1	RPD value was outside control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Hammond AP-1 (CA)-20240812
Pace Project No.: 92748254

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92748254001	**HAM-PT-07**	EPA 3010A	877559	EPA 6010D	877624
92748254002	**HAM-PT-08**	EPA 3010A	878059	EPA 6010D	878092
92748254003	**HAM-PT-13**	EPA 3010A	878059	EPA 6010D	878092
92748254004	**HAM-PT-15**	EPA 3010A	878059	EPA 6010D	878092
92748254005	**HAM-AP1-FB-01**	EPA 3010A	878059	EPA 6010D	878092
92748254006	**HAM-AP1-EB-01**	EPA 3010A	878059	EPA 6010D	878092
92748254007	**HAM-AP1-FD-01**	EPA 3010A	878059	EPA 6010D	878092
92748254001	**HAM-PT-07**	EPA 3005A	877798	EPA 6020B	877921
92748254002	**HAM-PT-08**	EPA 3005A	877798	EPA 6020B	877921
92748254003	**HAM-PT-13**	EPA 3005A	877798	EPA 6020B	877921
92748254004	**HAM-PT-15**	EPA 3005A	877798	EPA 6020B	877921
92748254005	**HAM-AP1-FB-01**	EPA 3005A	878757	EPA 6020B	878909
92748254006	**HAM-AP1-EB-01**	EPA 3005A	878757	EPA 6020B	878909
92748254007	**HAM-AP1-FD-01**	EPA 3005A	877798	EPA 6020B	877921
92748254001	**HAM-PT-07**	EPA 7470A	878334	EPA 7470A	878506
92748254002	**HAM-PT-08**	EPA 7470A	878334	EPA 7470A	878506
92748254003	**HAM-PT-13**	EPA 7470A	878334	EPA 7470A	878506
92748254004	**HAM-PT-15**	EPA 7470A	878334	EPA 7470A	878506
92748254005	**HAM-AP1-FB-01**	EPA 7470A	878334	EPA 7470A	878506
92748254006	**HAM-AP1-EB-01**	EPA 7470A	878334	EPA 7470A	878506
92748254007	**HAM-AP1-FD-01**	EPA 7470A	878334	EPA 7470A	878506
92748254001	**HAM-PT-07**	SM 2540C-2015	877174		
92748254002	**HAM-PT-08**	SM 2540C-2015	877174		
92748254003	**HAM-PT-13**	SM 2540C-2015	877174		
92748254004	**HAM-PT-15**	SM 2540C-2015	877174		
92748254005	**HAM-AP1-FB-01**	SM 2540C-2015	877482		
92748254006	**HAM-AP1-EB-01**	SM 2540C-2015	877482		
92748254007	**HAM-AP1-FD-01**	SM 2540C-2015	877482		
92748254001	**HAM-PT-07**	SM 2320B-2011	876583		
92748254002	**HAM-PT-08**	SM 2320B-2011	876583		
92748254003	**HAM-PT-13**	SM 2320B-2011	876583		
92748254004	**HAM-PT-15**	SM 2320B-2011	876583		
92748254005	**HAM-AP1-FB-01**	SM 2320B-2011	877163		
92748254006	**HAM-AP1-EB-01**	SM 2320B-2011	877163		
92748254007	**HAM-AP1-FD-01**	SM 2320B-2011	877163		
92748254001	**HAM-PT-07**	SM 4500-S2D-2011	876390		
92748254002	**HAM-PT-08**	SM 4500-S2D-2011	876390		
92748254003	**HAM-PT-13**	SM 4500-S2D-2011	876390		
92748254004	**HAM-PT-15**	SM 4500-S2D-2011	876390		
92748254005	**HAM-AP1-FB-01**	SM 4500-S2D-2011	876390		
92748254006	**HAM-AP1-EB-01**	SM 4500-S2D-2011	876390		
92748254007	**HAM-AP1-FD-01**	SM 4500-S2D-2011	876390		
92748254001	**HAM-PT-07**	EPA 300.0 Rev 2.1 1993	876425		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Hammond AP-1 (CA)-20240812
Pace Project No.: 92748254

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92748254002	**HAM-PT-08**	EPA 300.0 Rev 2.1 1993	876425		
92748254003	**HAM-PT-13**	EPA 300.0 Rev 2.1 1993	876425		
92748254004	**HAM-PT-15**	EPA 300.0 Rev 2.1 1993	876425		
92748254005	**HAM-AP1-FB-01**	EPA 300.0 Rev 2.1 1993	876425		
92748254006	**HAM-AP1-EB-01**	EPA 300.0 Rev 2.1 1993	876425		
92748254007	**HAM-AP1-FD-01**	EPA 300.0 Rev 2.1 1993	876425		

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Effective Date: 05/24/2024

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power Geosyntec

Project #: WO# : 92748254

92748254

Courier: ☐ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Pace ☐ Other:

Custody Seal Present? ☑ Yes ☐ No Seals Intact? ☐ Yes ☐ No ☐ N/A

Date/Initials Person Examining Contents: 8/16/24 DS

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☐ IR Gun ID: 230 Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 4.0 Correction Factor: Add/Subtract (°C) 0

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 4.0

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☑ Yes	☐ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☑ No	☐ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: WG WQ				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

Field Data Required? ☐ Yes ☐ No

COMMENTS/SAMPLE DISCREPANCY

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

Qualtrax ID: 69614

Pace ANALYTICAL SERVICES

DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

WO#: 92748254

PM: BV Due Date: 08/30/24

CLIENT: 92- GP-HAM

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg
**Bottom half of box is to list number of bottles
***Check all unpreserved Nitrates for chlorine

Project #

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Client GA Power Profile/EZ (Circle one) 10834 Notes

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)		BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 ml plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA NaHSO3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH4)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)
CC																											
1		2	1				1	1																			
2		2	1				1	1																			
3		2	1				1	1																			
4		2	1				1	1																			
5		2	1				1	1																			
6		2	1				1	1																			
7		2	1				1	1																			
8																											
9																											
10																											
11																											
12																											

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

Qualtrax ID: 69614

Page 2 of 2

WO# : 92748254

PM: BV **Due Date: 08/30/24**
CLIENT: 92- GP-HAM

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Geosyntec Contacts	Company Name:	
				Address:	
Email To:	SCS Contacts	Purchase Order No.:	GPC82474-0001	Pace Quote Reference:	
Phone:	Fax:	Project Name:	Hammond AP-1	Pace Project Manager:	Bonnie Vang
Requested Due Date/TAT:	10 day	Project Number:		Pace Profile #:	10839

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER CCR

Site Location STATE: GA

Valid Matrix Codes: DRINKING WATER DW WT; WATER WW; WASTE WATER WW; PRODUCT P; SOIL/SOLID SL; OIL OL; WIPE WP; AIR AR; OTHER OT; TISSUE TS

ITEM #	Section D Required Client Information: SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes above)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE DATE	COLLECTED COMPOSITE TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Requested Analysis Filtered (Y/N): Y/N	Analysis Test: Chloride, Fluoride, Sulfate	Full App. III and IV metals	Major Ions (Profile 10839-2)	TDS	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	HAM-PT-07	WG	G	8/14/2024	1507			20	5	3		1				1		N	X	X	X	X	N	
2	HAM-PT-08	WG	G	8/14/2024	1141			22	5	3		1				1		N	X	X	X	X	N	
3	HAM-PT-13	WG	G	8/14/2024	1655			20	5	3		1				1		N	X	X	X	X	N	
4	HAM-PT-15	WG	G	8/14/2024	1330			22	5	3		1				1		N	X	X	X	X	N	
5	HAM-AP1-FB-01	WG	G	8/15/2024	1445			19	5	3		1				1		N	X	X	X	X	N	
6	HAM-AP1-EB-01	WG	G	8/15/2024	1445			19	5	3		1				1		N	X	X	X	X	N	
7	HAM-AP1-FD-01	WG	G	8/14/2024	0000			22	5	3		1				1		N	X	X	X	X	N	
8																								
9																								
10																								
11																								
12																								

JN 8/16/2024

JN 8/16/2024

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Task Code: HAM-CCR-GA-20240812	[signature] / Geosyntec	8/15/2024	1500	Daniel Tessmore / Geosyntec	8/15/24	1500	
	Danny Tessmore / GEO	8/16/2024	12 50	Ryan Williams / Pace	8/16/24	1250	
	Ryan Williams / Pace	8/16/24	1355	[signature]	8/16/24	1355	

SAMPLER NAME AND SIGNATURE			Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	Jacob Tracy / Geosyntec Consultants, Inc.					
SIGNATURE of SAMPLER:	[signature]	DATE Signed (MM/DD/YY): 8/15/2024				

Pace Analytical Services, LLC
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September 05, 2024

Kristen Jurinko
Southern Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, GA 30308

RE: Project: Hammond AP-1 (CA)-20240820
Pace Project No.: 92749180

Dear Kristen Jurinko:

Enclosed are the analytical results for sample(s) received by the laboratory on August 22, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Peachtree Corners, GA

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Bonnie Vang
bonnie.vang@pacelabs.com
704-977-0968
Project Manager

Enclosures

cc: Kip Gray, Geosyntec
Christine Hug, Geosyntec Consultants, Inc.
Thomas Kessler, Geosyntec Consultants
Whitney Law, Geosyntec Consultants
Laura Midkiff, Southern Company
Caroline Nelson, Geosyntec Consultants, Inc
Jamie Newsome, Geosyntec Consultants
Zain Webb, Geosyntec Consultants

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CERTIFICATIONS

Project: Hammond AP-1 (CA)-20240820
Pace Project No.: 92749180

Pace Analytical Services Peachtree Corners
110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812
North Carolina Certification #: 381
South Carolina Certification #: 98011001
Virginia Certification #: 460204

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Hammond AP-1 (CA)-20240820
Pace Project No.: 92749180

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92749180001	**HAM-PT-07**	Water	08/20/24 15:55	08/22/24 12:15
92749180002	**HAM-PT-08**	Water	08/20/24 13:24	08/22/24 12:15
92749180003	**HAM-PT-09**	Water	08/21/24 16:04	08/22/24 12:15
92749180004	**HAM-PT-10**	Water	08/20/24 16:44	08/22/24 12:15
92749180005	**HAM-PT-11**	Water	08/21/24 12:43	08/22/24 12:15
92749180006	**HAM-PT-12**	Water	08/21/24 12:55	08/22/24 12:15
92749180007	**HAM-PT-13**	Water	08/20/24 11:54	08/22/24 12:15
92749180008	**HAM-PT-14**	Water	08/20/24 12:03	08/22/24 12:15
92749180009	**HAM-PT-15**	Water	08/20/24 13:25	08/22/24 12:15
92749180010	**HAM-AP1-EB-01**	Water	08/21/24 14:20	08/22/24 12:15
92749180011	**HAM-AP1-FB-01**	Water	08/21/24 14:27	08/22/24 12:15
92749180012	**HAM-AP1-FD-01**	Water	08/20/24 00:00	08/22/24 12:15

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SAMPLE ANALYTE COUNT

Project: Hammond AP-1 (CA)-20240820
Pace Project No.: 92749180

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92749180001	**HAM-PT-07**	EPA 6010D	DRB	1
		EPA 6020B	CW1	2
92749180002	**HAM-PT-08**	EPA 6010D	DRB	1
		EPA 6020B	CW1	2
92749180003	**HAM-PT-09**	EPA 6010D	DRB	1
		EPA 6020B	CW1	2
92749180004	**HAM-PT-10**	EPA 6010D	DRB	1
		EPA 6020B	CW1	2
92749180005	**HAM-PT-11**	EPA 6010D	DRB	1
		EPA 6020B	CW1	2
92749180006	**HAM-PT-12**	EPA 6010D	DRB	1
		EPA 6020B	CW1	2
92749180007	**HAM-PT-13**	EPA 6010D	DRB	1
		EPA 6020B	CW1	2
92749180008	**HAM-PT-14**	EPA 6010D	DRB	1
		EPA 6020B	CW1	2
92749180009	**HAM-PT-15**	EPA 6010D	DRB	1
		EPA 6020B	CW1	2
92749180010	**HAM-AP1-EB-01**	EPA 6010D	DRB	1
		EPA 6020B	CW1	3
92749180011	**HAM-AP1-FB-01**	EPA 6010D	DRB	1
		EPA 6020B	CW1	3
92749180012	**HAM-AP1-FD-01**	EPA 6010D	DRB	1
		EPA 6020B	CW1	3

PASI-GA = Pace Analytical Services - Peachtree Corners, GA

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SUMMARY OF DETECTION

Project: Hammond AP-1 (CA)-20240820
Pace Project No.: 92749180

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92749180001	**HAM-PT-07**					
EPA 6010D	Iron	17.9	mg/L	0.040	08/26/24 08:45	
EPA 6020B	Arsenic	0.26	mg/L	0.0050	08/30/24 19:16	
EPA 6020B	Boron	0.57	mg/L	0.040	08/30/24 19:16	
92749180002	**HAM-PT-08**					
EPA 6010D	Iron	14.8	mg/L	0.040	08/26/24 08:55	
EPA 6020B	Arsenic	0.29	mg/L	0.0050	08/30/24 19:27	
EPA 6020B	Boron	0.63	mg/L	0.040	08/30/24 19:27	
92749180003	**HAM-PT-09**					
EPA 6010D	Iron	0.23	mg/L	0.040	08/26/24 08:58	
EPA 6020B	Boron	1.3	mg/L	0.040	08/30/24 19:31	
EPA 6020B	Molybdenum	0.24	mg/L	0.010	08/30/24 19:31	
92749180004	**HAM-PT-10**					
EPA 6010D	Iron	0.18	mg/L	0.040	08/26/24 09:01	
EPA 6020B	Boron	1.7	mg/L	0.040	08/30/24 19:34	
EPA 6020B	Molybdenum	0.16	mg/L	0.010	08/30/24 19:34	
92749180005	**HAM-PT-11**					
EPA 6010D	Iron	0.10	mg/L	0.040	08/26/24 09:05	
EPA 6020B	Boron	1.5	mg/L	0.040	08/30/24 19:38	
EPA 6020B	Molybdenum	0.12	mg/L	0.010	08/30/24 19:38	
92749180006	**HAM-PT-12**					
EPA 6010D	Iron	0.078	mg/L	0.040	08/26/24 09:09	
EPA 6020B	Boron	1.2	mg/L	0.040	08/30/24 19:42	
EPA 6020B	Molybdenum	0.21	mg/L	0.010	08/30/24 19:42	
92749180007	**HAM-PT-13**					
EPA 6010D	Iron	21.6	mg/L	0.040	08/26/24 09:13	
EPA 6020B	Arsenic	0.25	mg/L	0.0050	08/30/24 19:46	
EPA 6020B	Boron	0.54	mg/L	0.040	08/30/24 19:46	
92749180008	**HAM-PT-14**					
EPA 6010D	Iron	17.7	mg/L	0.040	08/26/24 09:16	
EPA 6020B	Arsenic	0.23	mg/L	0.0050	08/30/24 19:49	
EPA 6020B	Boron	0.59	mg/L	0.040	08/30/24 19:49	
92749180009	**HAM-PT-15**					
EPA 6010D	Iron	13.3	mg/L	0.040	08/26/24 09:19	
EPA 6020B	Arsenic	0.42	mg/L	0.0050	08/30/24 19:53	
EPA 6020B	Boron	0.63	mg/L	0.040	08/30/24 19:53	
92749180010	**HAM-AP1-EB-01**					
EPA 6020B	Boron	0.013J	mg/L	0.040	08/30/24 19:57	
92749180012	**HAM-AP1-FD-01**					
EPA 6010D	Iron	13.0	mg/L	0.040	08/26/24 09:37	
EPA 6020B	Arsenic	0.42	mg/L	0.0050	08/30/24 20:11	
EPA 6020B	Boron	0.62	mg/L	0.040	08/30/24 20:11	

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SUMMARY OF DETECTION

Project: Hammond AP-1 (CA)-20240820
Pace Project No.: 92749180

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92749180012	**HAM-AP1-FD-01**					
EPA 6020B	Molybdenum	0.013	mg/L	0.010	08/30/24 20:11	

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CA)-20240820
Pace Project No.: 92749180

Sample: HAM-PT-07 **Lab ID: 92749180001** Collected: 08/20/24 15:55 Received: 08/22/24 12:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**17.9**	mg/L	0.040	0.025	1	08/24/24 12:03	08/26/24 08:45	7439-89-6	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Arsenic	**0.26**	mg/L	0.0050	0.00084	1	08/24/24 14:01	08/30/24 19:16	7440-38-2	
Boron	**0.57**	mg/L	0.040	0.012	1	08/24/24 14:01	08/30/24 19:16	7440-42-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CA)-20240820
Pace Project No.: 92749180

Sample: HAM-PT-08 **Lab ID: 92749180002** Collected: 08/20/24 13:24 Received: 08/22/24 12:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**14.8**	mg/L	0.040	0.025	1	08/24/24 12:03	08/26/24 08:55	7439-89-6	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Arsenic	**0.29**	mg/L	0.0050	0.00084	1	08/24/24 14:01	08/30/24 19:27	7440-38-2	
Boron	**0.63**	mg/L	0.040	0.012	1	08/24/24 14:01	08/30/24 19:27	7440-42-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CA)-20240820
Pace Project No.: 92749180

Sample: HAM-PT-09 **Lab ID: 92749180003** Collected: 08/21/24 16:04 Received: 08/22/24 12:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.23**	mg/L	0.040	0.025	1	08/24/24 12:03	08/26/24 08:58	7439-89-6	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Boron	**1.3**	mg/L	0.040	0.012	1	08/24/24 14:01	08/30/24 19:31	7440-42-8	
Molybdenum	**0.24**	mg/L	0.010	0.00062	1	08/24/24 14:01	08/30/24 19:31	7439-98-7	

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CA)-20240820
Pace Project No.: 92749180

Sample: HAM-PT-10 **Lab ID: 92749180004** Collected: 08/20/24 16:44 Received: 08/22/24 12:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.18**	mg/L	0.040	0.025	1	08/24/24 12:03	08/26/24 09:01	7439-89-6	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Boron	**1.7**	mg/L	0.040	0.012	1	08/24/24 14:01	08/30/24 19:34	7440-42-8	
Molybdenum	**0.16**	mg/L	0.010	0.00062	1	08/24/24 14:01	08/30/24 19:34	7439-98-7	

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CA)-20240820
Pace Project No.: 92749180

Sample: HAM-PT-11 **Lab ID: 92749180005** Collected: 08/21/24 12:43 Received: 08/22/24 12:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.10**	mg/L	0.040	0.025	1	08/24/24 12:03	08/26/24 09:05	7439-89-6	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Boron	**1.5**	mg/L	0.040	0.012	1	08/24/24 14:01	08/30/24 19:38	7440-42-8	
Molybdenum	**0.12**	mg/L	0.010	0.00062	1	08/24/24 14:01	08/30/24 19:38	7439-98-7	

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CA)-20240820
Pace Project No.: 92749180

Sample: HAM-PT-12 **Lab ID: 92749180006** Collected: 08/21/24 12:55 Received: 08/22/24 12:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.078**	mg/L	0.040	0.025	1	08/24/24 12:03	08/26/24 09:09	7439-89-6	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Boron	**1.2**	mg/L	0.040	0.012	1	08/24/24 14:01	08/30/24 19:42	7440-42-8	
Molybdenum	**0.21**	mg/L	0.010	0.00062	1	08/24/24 14:01	08/30/24 19:42	7439-98-7	

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CA)-20240820
Pace Project No.: 92749180

Sample: HAM-PT-13 **Lab ID: 92749180007** Collected: 08/20/24 11:54 Received: 08/22/24 12:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**21.6**	mg/L	0.040	0.025	1	08/24/24 12:03	08/26/24 09:13	7439-89-6	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Arsenic	**0.25**	mg/L	0.0050	0.00084	1	08/24/24 14:01	08/30/24 19:46	7440-38-2	
Boron	**0.54**	mg/L	0.040	0.012	1	08/24/24 14:01	08/30/24 19:46	7440-42-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CA)-20240820
Pace Project No.: 92749180

Sample: HAM-PT-14 **Lab ID: 92749180008** Collected: 08/20/24 12:03 Received: 08/22/24 12:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**17.7**	mg/L	0.040	0.025	1	08/24/24 12:03	08/26/24 09:16	7439-89-6	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Arsenic	**0.23**	mg/L	0.0050	0.00084	1	08/24/24 14:01	08/30/24 19:49	7440-38-2	
Boron	**0.59**	mg/L	0.040	0.012	1	08/24/24 14:01	08/30/24 19:49	7440-42-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CA)-20240820
Pace Project No.: 92749180

Sample: HAM-PT-15 **Lab ID: 92749180009** Collected: 08/20/24 13:25 Received: 08/22/24 12:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**13.3**	mg/L	0.040	0.025	1	08/24/24 12:03	08/26/24 09:19	7439-89-6	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Arsenic	**0.42**	mg/L	0.0050	0.00084	1	08/24/24 14:01	08/30/24 19:53	7440-38-2	
Boron	**0.63**	mg/L	0.040	0.012	1	08/24/24 14:01	08/30/24 19:53	7440-42-8	

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Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Hammond AP-1 (CA)-20240820
Pace Project No.: 92749180

Sample: HAM-AP1-EB-01 **Lab ID: 92749180010** Collected: 08/21/24 14:20 Received: 08/22/24 12:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	08/24/24 12:03	08/26/24 09:22	7439-89-6	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Arsenic	ND	mg/L	0.0050	0.00084	1	08/24/24 14:01	08/30/24 19:57	7440-38-2	
Boron	**0.013J**	mg/L	0.040	0.012	1	08/24/24 14:01	08/30/24 19:57	7440-42-8	
Molybdenum	ND	mg/L	0.010	0.00062	1	08/24/24 14:01	08/30/24 19:57	7439-98-7	

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CA)-20240820
Pace Project No.: 92749180

Sample: HAM-AP1-FB-01 **Lab ID: 92749180011** Collected: 08/21/24 14:27 Received: 08/22/24 12:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	08/24/24 12:03	08/26/24 09:26	7439-89-6	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Arsenic	ND	mg/L	0.0050	0.00084	1	08/24/24 14:01	08/30/24 20:00	7440-38-2	
Boron	ND	mg/L	0.040	0.012	1	08/24/24 14:01	08/30/24 20:00	7440-42-8	
Molybdenum	ND	mg/L	0.010	0.00062	1	08/24/24 14:01	08/30/24 20:00	7439-98-7	

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CA)-20240820
Pace Project No.: 92749180

Sample: HAM-AP1-FD-01 **Lab ID: 92749180012** Collected: 08/20/24 00:00 Received: 08/22/24 12:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**13.0**	mg/L	0.040	0.025	1	08/24/24 12:03	08/26/24 09:37	7439-89-6	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Arsenic	**0.42**	mg/L	0.0050	0.00084	1	08/24/24 14:01	08/30/24 20:11	7440-38-2	
Boron	**0.62**	mg/L	0.040	0.012	1	08/24/24 14:01	08/30/24 20:11	7440-42-8	
Molybdenum	**0.013**	mg/L	0.010	0.00062	1	08/24/24 14:01	08/30/24 20:11	7439-98-7	

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QUALITY CONTROL DATA

Project: Hammond AP-1 (CA)-20240820
Pace Project No.: 92749180

QC Batch: 878070
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92749180001, 92749180002, 92749180003, 92749180004, 92749180005, 92749180006, 92749180007, 92749180008, 92749180009, 92749180010, 92749180011, 92749180012

METHOD BLANK: 4523022 Matrix: Water
Associated Lab Samples: 92749180001, 92749180002, 92749180003, 92749180004, 92749180005, 92749180006, 92749180007, 92749180008, 92749180009, 92749180010, 92749180011, 92749180012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Iron	mg/L	ND	0.040	0.025	08/26/24 09:50	

LABORATORY CONTROL SAMPLE: 4523023

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron	mg/L	1	1.1	109	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4523024 4523025

Parameter	Units	92749173004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Iron	mg/L	0.13	1	1	1.2	1.1	106	101	75-125	4	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: Hammond AP-1 (CA)-20240820
Pace Project No.: 92749180

QC Batch: 878079
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92749180001, 92749180002, 92749180003, 92749180004, 92749180005, 92749180006, 92749180007, 92749180008, 92749180009, 92749180010, 92749180011, 92749180012

METHOD BLANK: 4523054 Matrix: Water
Associated Lab Samples: 92749180001, 92749180002, 92749180003, 92749180004, 92749180005, 92749180006, 92749180007, 92749180008, 92749180009, 92749180010, 92749180011, 92749180012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	mg/L	ND	0.0050	0.00084	08/30/24 18:43	
Boron	mg/L	ND	0.040	0.012	08/30/24 18:43	
Molybdenum	mg/L	ND	0.010	0.00062	08/30/24 18:43	

LABORATORY CONTROL SAMPLE: 4523055

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	0.1	0.098	98	80-120	
Boron	mg/L	1	0.97	97	80-120	
Molybdenum	mg/L	0.1	0.10	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4523056 4523057

Parameter	Units	92749173004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	0.0037J	0.1	0.1	0.11	0.11	103	103	75-125	0	20	
Boron	mg/L	7.6	1	1	9.0	9.0	137	133	75-125	0	20	M1
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.10	102	102	75-125	0	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALIFIERS

Project: Hammond AP-1 (CA)-20240820
Pace Project No.: 92749180

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Hammond AP-1 (CA)-20240820
Pace Project No.: 92749180

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92749180001	**HAM-PT-07**	EPA 3010A	878070	EPA 6010D	878096
92749180002	**HAM-PT-08**	EPA 3010A	878070	EPA 6010D	878096
92749180003	**HAM-PT-09**	EPA 3010A	878070	EPA 6010D	878096
92749180004	**HAM-PT-10**	EPA 3010A	878070	EPA 6010D	878096
92749180005	**HAM-PT-11**	EPA 3010A	878070	EPA 6010D	878096
92749180006	**HAM-PT-12**	EPA 3010A	878070	EPA 6010D	878096
92749180007	**HAM-PT-13**	EPA 3010A	878070	EPA 6010D	878096
92749180008	**HAM-PT-14**	EPA 3010A	878070	EPA 6010D	878096
92749180009	**HAM-PT-15**	EPA 3010A	878070	EPA 6010D	878096
92749180010	**HAM-AP1-EB-01**	EPA 3010A	878070	EPA 6010D	878096
92749180011	**HAM-AP1-FB-01**	EPA 3010A	878070	EPA 6010D	878096
92749180012	**HAM-AP1-FD-01**	EPA 3010A	878070	EPA 6010D	878096
92749180001	**HAM-PT-07**	EPA 3005A	878079	EPA 6020B	878101
92749180002	**HAM-PT-08**	EPA 3005A	878079	EPA 6020B	878101
92749180003	**HAM-PT-09**	EPA 3005A	878079	EPA 6020B	878101
92749180004	**HAM-PT-10**	EPA 3005A	878079	EPA 6020B	878101
92749180005	**HAM-PT-11**	EPA 3005A	878079	EPA 6020B	878101
92749180006	**HAM-PT-12**	EPA 3005A	878079	EPA 6020B	878101
92749180007	**HAM-PT-13**	EPA 3005A	878079	EPA 6020B	878101
92749180008	**HAM-PT-14**	EPA 3005A	878079	EPA 6020B	878101
92749180009	**HAM-PT-15**	EPA 3005A	878079	EPA 6020B	878101
92749180010	**HAM-AP1-EB-01**	EPA 3005A	878079	EPA 6020B	878101
92749180011	**HAM-AP1-FB-01**	EPA 3005A	878079	EPA 6020B	878101
92749180012	**HAM-AP1-FD-01**	EPA 3005A	878079	EPA 6020B	878101

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Pace

DOC#_Title: ENV-FRM-HUNT-0008 v00_Sample Condition Upon Receipt

Effective Date: 05/24/2024

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mech[illegible] ☐ Atlanta ☐ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #:

WO#: 92749180

92749180

Courier: ☐ Commercial ☐ Fed Ex ☑ Pace ☐ UPS ☐ USPS ☐ Other:____ ☐ Client

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No ☑ N/A

Date/Initials Person Examining Contents: 8/29/24

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☐ N/A

Thermometer: ☐ IR Gun ID: 230

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 4.9 Correction Factor: Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 4.9

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: W	☑ Yes	☐ No	☐ N/A	9.
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

Field Data Required? ☐ Yes ☐ No

COMMENTS/SAMPLE DISCREPANCY

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

Qualtrax ID: 69614

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg
**Bottom half of box is to list number of bottles
***Check all unpreserved Nitrates for chlorine

Project #

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Client_____ Profile/EZ (Circle one)_____ Notes_____

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)		BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG9A-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
CC							GA																							
1																														
2																														
3																														
4																														
5																														
6																														
7																														
8																														
9																														
10																														
11																														
12																														

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: GA Power	Report To: SCS Contacts	Attention: Southern Co.
Address: Atlanta, GA	Copy To: Geosyntec Contacts	Company Name:
		Address:
Email To: SCS Contacts	Purchase Order No.: GPC82474-0001	Pace Quote Reference:
Phone: Fax:	Project Name: Hammond AP-1	Pace Project Manager: Bonnie Vang
Requested Due Date/TAT: 10 day	Project Number:	Pace Profile #: 10839

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☑ OTHER CCR

Site Location STATE: GA

Valid Matrix Codes: DRINKING WATER DW, WATER WT, WASTE WATER WW, PRODUCT P, SOIL/SOLID SL, OIL OL, WIPE WP, AIR AR, OTHER AT, TISSUE TS

ITEM #	Section D Required Client Information: SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE DATE	COLLECTED COMPOSITE TIME	COLLECTED COMPOSITE DATE	COLLECTED COMPOSITE TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Requested Analysis Filtered (Y/N): Y/N	Analysis Test: 90100/6020: Fe, B, As	90100/6020: Fe, B, Mo	90100/6020: Fe, B, As, Mo	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 92749160
1	HAM-PT-07	WG	G	8/20/2024	1555			22	1			1							X			N	001
2	HAM-PT-08	WG	G	8/20/2024	1324			22	1			1							X			N	002
3	HAM-PT-09	WG	G	8/21/2024	1604			23	1			1								X		N	003
4	HAM-PT-10	WG	G	8/20/2024	1644			23	1			1								X		N	004
5	HAM-PT-11	WG	G	8/21/2024	1243	JN	8/22/2024	21	1			1								X		N	005
6	HAM-PT-12	WQ	G	8/21/2024	1255			22	1			1								X		N	006
7	HAM-PT-13	WQ	G	8/20/2024	1154			22	1			1							X			N	007
8	HAM-PT-14	WG	G	8/20/2024	1203			21	1			1							X			N	008
9	HAM-PT-15	WG	G	8/20/2024	1325			22	1			1							X			N	009
10	HAM-AP1-EB-01	WQ	G	8/21/2024	1420			22	1			1								X		N	010
11	HAM-AP1-FB-01	WQ	G	8/21/2024	1427			22	1			1								X		N	011
12	HAM-AP1-FD-01	WG	G	8/20/2024	0000			22	1			1								X		N	012

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Task Code: HAM-CCR-CA-20240820	Tristan Halterman / Geo	8/22/24	800	Jamie Burbone / Geo	8/22/24	800	
	Jamie Burbone / Geo	8/22/24	1118	Ryan William / Pace	8/22/24	1118	
	Ryan William / Pace	8/22/24	1215		8/22/24	1215	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Elisabeth Russell and Tristan Halterman / Geosyntec Consultants, Inc

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 8/22/24

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
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September 18, 2024

Kristen Jurinko
Southern Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, GA 30308

RE: Project: Hammond AP-1 (CA)-20240904
Pace Project No.: 92752167

Dear Kristen Jurinko:

Enclosed are the analytical results for sample(s) received by the laboratory on September 06, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Asheville
- Pace Analytical Services - Peachtree Corners, GA

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Bonnie Vang
bonnie.vang@pacelabs.com
704-977-0968
Project Manager

Enclosures

cc: Kip Gray, Geosyntec
Christine Hug, Geosyntec Consultants, Inc.
Thomas Kessler, Geosyntec Consultants
Whitney Law, Geosyntec Consultants
Laura Midkiff, Southern Company
Caroline Nelson, Geosyntec Consultants, Inc
Jamie Newsome, Geosyntec Consultants
Zain Webb, Geosyntec Consultants

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: Hammond AP-1 (CA)-20240904
Pace Project No.: 92752167

Pace Analytical Services Asheville
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Laboratory ID: 99030
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners
110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812
North Carolina Certification #: 381
South Carolina Certification #: 98011001
Virginia Certification #: 460204

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SAMPLE SUMMARY

Project: Hammond AP-1 (CA)-20240904
Pace Project No.: 92752167

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92752167001	**HAM-PT-07**	Water	09/04/24 15:38	09/06/24 11:54
92752167002	**HAM-PT-08**	Water	09/05/24 12:47	09/06/24 11:54
92752167003	**HAM-PT-09**	Water	09/04/24 13:20	09/06/24 11:54
92752167004	**HAM-PT-10**	Water	09/04/24 11:35	09/06/24 11:54
92752167005	**HAM-PT-11**	Water	09/04/24 11:25	09/06/24 11:54
92752167006	**HAM-PT-12**	Water	09/04/24 15:25	09/06/24 11:54
92752167007	**HAM-PT-13**	Water	09/04/24 14:00	09/06/24 11:54
92752167008	**HAM-PT-14**	Water	09/05/24 11:35	09/06/24 11:54
92752167009	**HAM-PT-15**	Water	09/04/24 16:10	09/06/24 11:54
92752167010	**HAM-AP1-EB-01**	Water	09/05/24 14:35	09/06/24 11:54
92752167011	**HAM-AP1-FB-01**	Water	09/05/24 14:30	09/06/24 11:54
92752167012	**HAM-AP1-FD-01**	Water	09/05/24 00:00	09/06/24 11:54

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SAMPLE ANALYTE COUNT

Project: Hammond AP-1 (CA)-20240904
Pace Project No.: 92752167

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92752167001	**HAM-PT-07**	EPA 6010D	MJS2	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92752167002	**HAM-PT-08**	EPA 6010D	MJS2	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92752167003	**HAM-PT-09**	EPA 6010D	MJS2	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92752167004	**HAM-PT-10**	EPA 6010D	MJS2	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92752167005	**HAM-PT-11**	EPA 6010D	MJS2	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92752167006	**HAM-PT-12**	EPA 6010D	MJS2	6
		EPA 6020B	CW1	13

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SAMPLE ANALYTE COUNT

Project: Hammond AP-1 (CA)-20240904
Pace Project No.: 92752167

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92752167007	**HAM-PT-13**	EPA 6010D	MJS2	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92752167008	**HAM-PT-14**	EPA 6010D	MJS2	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92752167009	**HAM-PT-15**	EPA 6010D	MJS2	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92752167010	**HAM-AP1-EB-01**	EPA 6010D	MJS2	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92752167011	**HAM-AP1-FB-01**	EPA 6010D	MJS2	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1

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SAMPLE ANALYTE COUNT

Project: Hammond AP-1 (CA)-20240904
Pace Project No.: 92752167

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92752167012	**HAM-AP1-FD-01**	EPA 6010D	MJS2	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	JCM	3

PASI-A = Pace Analytical Services - Asheville
PASI-GA = Pace Analytical Services - Peachtree Corners, GA

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SUMMARY OF DETECTION

Project: Hammond AP-1 (CA)-20240904
Pace Project No.: 92752167

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92752167001	**HAM-PT-07**					
EPA 6010D	Iron	15.6	mg/L	0.040	09/13/24 20:42	M1
EPA 6010D	Manganese	4.4	mg/L	0.040	09/13/24 20:42	M1
EPA 6010D	Potassium	5.8	mg/L	0.50	09/13/24 20:42	
EPA 6010D	Sodium	9.8	mg/L	1.0	09/13/24 20:42	M1
EPA 6010D	Calcium	117	mg/L	1.0	09/13/24 20:42	M1
EPA 6010D	Magnesium	16.4	mg/L	0.050	09/13/24 20:42	M1
EPA 6020B	Antimony	0.0014J	mg/L	0.0030	09/13/24 16:47	
EPA 6020B	Arsenic	0.30	mg/L	0.0050	09/13/24 16:47	
EPA 6020B	Barium	0.050	mg/L	0.0050	09/13/24 16:47	
EPA 6020B	Boron	0.56	mg/L	0.040	09/13/24 16:47	
EPA 6020B	Cobalt	0.12	mg/L	0.0050	09/13/24 16:47	
EPA 6020B	Lithium	0.053	mg/L	0.030	09/13/24 16:47	
EPA 6020B	Molybdenum	0.010	mg/L	0.010	09/13/24 16:47	
SM 2540C-2015	Total Dissolved Solids	561	mg/L	25.0	09/10/24 12:56	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	143	mg/L	5.0	09/11/24 14:27	
SM 2320B-2011	Alkalinity, Total as CaCO3	143	mg/L	5.0	09/11/24 14:27	
EPA 300.0 Rev 2.1 1993	Chloride	17.4	mg/L	1.0	09/10/24 06:53	
EPA 300.0 Rev 2.1 1993	Fluoride	0.37	mg/L	0.10	09/10/24 06:53	
EPA 300.0 Rev 2.1 1993	Sulfate	221	mg/L	5.0	09/10/24 16:52	
92752167002	**HAM-PT-08**					
EPA 6010D	Iron	9.8	mg/L	0.040	09/13/24 21:12	
EPA 6010D	Manganese	3.0	mg/L	0.040	09/13/24 21:12	
EPA 6010D	Potassium	5.3	mg/L	0.50	09/13/24 21:12	
EPA 6010D	Sodium	8.2	mg/L	1.0	09/13/24 21:12	
EPA 6010D	Calcium	94.4	mg/L	1.0	09/13/24 21:12	
EPA 6010D	Magnesium	13.2	mg/L	0.050	09/13/24 21:12	
EPA 6020B	Antimony	0.0013J	mg/L	0.0030	09/13/24 17:01	
EPA 6020B	Arsenic	0.23	mg/L	0.0050	09/13/24 17:01	
EPA 6020B	Barium	0.048	mg/L	0.0050	09/13/24 17:01	
EPA 6020B	Boron	0.70	mg/L	0.040	09/13/24 17:01	
EPA 6020B	Cobalt	0.084	mg/L	0.0050	09/13/24 17:01	
EPA 6020B	Lithium	0.015J	mg/L	0.030	09/13/24 17:01	
EPA 6020B	Molybdenum	0.010	mg/L	0.010	09/13/24 17:01	
SM 2540C-2015	Total Dissolved Solids	466	mg/L	25.0	09/11/24 13:47	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	77.7	mg/L	5.0	09/11/24 17:31	
SM 2320B-2011	Alkalinity, Total as CaCO3	77.7	mg/L	5.0	09/11/24 17:31	
EPA 300.0 Rev 2.1 1993	Chloride	19.3	mg/L	1.0	09/10/24 07:09	
EPA 300.0 Rev 2.1 1993	Fluoride	0.16	mg/L	0.10	09/10/24 07:09	M1
EPA 300.0 Rev 2.1 1993	Sulfate	193	mg/L	4.0	09/10/24 17:07	M1
92752167003	**HAM-PT-09**					
EPA 6010D	Iron	0.31	mg/L	0.040	09/13/24 21:17	
EPA 6010D	Manganese	0.28	mg/L	0.040	09/13/24 21:17	
EPA 6010D	Potassium	6.1	mg/L	0.50	09/13/24 21:17	
EPA 6010D	Sodium	8.9	mg/L	1.0	09/13/24 21:17	
EPA 6010D	Calcium	87.9	mg/L	1.0	09/13/24 21:17	
EPA 6010D	Magnesium	24.9	mg/L	0.050	09/13/24 21:17	

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SUMMARY OF DETECTION

Project: Hammond AP-1 (CA)-20240904
Pace Project No.: 92752167

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92752167003	**HAM-PT-09**					
EPA 6020B	Barium	0.068	mg/L	0.0050	09/13/24 17:05	
EPA 6020B	Boron	1.4	mg/L	0.040	09/13/24 17:05	
EPA 6020B	Cadmium	0.00021J	mg/L	0.00050	09/13/24 17:05	
EPA 6020B	Cobalt	0.0027J	mg/L	0.0050	09/13/24 17:05	
EPA 6020B	Lithium	0.0022J	mg/L	0.030	09/13/24 17:05	
EPA 6020B	Molybdenum	0.26	mg/L	0.010	09/13/24 17:05	
SM 2540C-2015	Total Dissolved Solids	486	mg/L	25.0	09/10/24 12:56	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	121	mg/L	5.0	09/11/24 14:38	
SM 2320B-2011	Alkalinity, Total as CaCO3	121	mg/L	5.0	09/11/24 14:38	
EPA 300.0 Rev 2.1 1993	Chloride	45.3	mg/L	1.0	09/10/24 07:56	
EPA 300.0 Rev 2.1 1993	Fluoride	0.43	mg/L	0.10	09/10/24 07:56	
EPA 300.0 Rev 2.1 1993	Sulfate	149	mg/L	3.0	09/10/24 17:54	
92752167004	**HAM-PT-10**					
EPA 6010D	Iron	0.077	mg/L	0.040	09/13/24 21:22	
EPA 6010D	Manganese	0.42	mg/L	0.040	09/13/24 21:22	
EPA 6010D	Potassium	6.8	mg/L	0.50	09/13/24 21:22	
EPA 6010D	Sodium	8.7	mg/L	1.0	09/13/24 21:22	
EPA 6010D	Calcium	99.0	mg/L	1.0	09/13/24 21:22	
EPA 6010D	Magnesium	13.1	mg/L	0.050	09/13/24 21:22	
EPA 6020B	Barium	0.047	mg/L	0.0050	09/13/24 17:09	
EPA 6020B	Boron	1.6	mg/L	0.040	09/13/24 17:09	
EPA 6020B	Cadmium	0.00011J	mg/L	0.00050	09/13/24 17:09	
EPA 6020B	Cobalt	0.0015J	mg/L	0.0050	09/13/24 17:09	
EPA 6020B	Molybdenum	0.18	mg/L	0.010	09/13/24 17:09	
SM 2540C-2015	Total Dissolved Solids	473	mg/L	25.0	09/10/24 12:56	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	130	mg/L	5.0	09/11/24 14:47	
SM 2320B-2011	Alkalinity, Total as CaCO3	130	mg/L	5.0	09/11/24 14:47	
EPA 300.0 Rev 2.1 1993	Chloride	46.2	mg/L	1.0	09/10/24 16:35	
EPA 300.0 Rev 2.1 1993	Fluoride	0.28	mg/L	0.10	09/10/24 16:35	
EPA 300.0 Rev 2.1 1993	Sulfate	118	mg/L	3.0	09/10/24 18:49	
92752167005	**HAM-PT-11**					
EPA 6010D	Iron	0.41	mg/L	0.040	09/13/24 21:27	
EPA 6010D	Manganese	0.59	mg/L	0.040	09/13/24 21:27	
EPA 6010D	Potassium	6.1	mg/L	0.50	09/13/24 21:27	
EPA 6010D	Sodium	8.6	mg/L	1.0	09/13/24 21:27	
EPA 6010D	Calcium	94.9	mg/L	1.0	09/13/24 21:27	
EPA 6010D	Magnesium	17.8	mg/L	0.050	09/13/24 21:27	
EPA 6020B	Arsenic	0.00087J	mg/L	0.0050	09/13/24 17:12	
EPA 6020B	Barium	0.070	mg/L	0.0050	09/13/24 17:12	
EPA 6020B	Boron	1.4	mg/L	0.040	09/13/24 17:12	
EPA 6020B	Cadmium	0.00017J	mg/L	0.00050	09/13/24 17:12	
EPA 6020B	Cobalt	0.0066	mg/L	0.0050	09/13/24 17:12	
EPA 6020B	Lithium	0.0039J	mg/L	0.030	09/13/24 17:12	
EPA 6020B	Molybdenum	0.14	mg/L	0.010	09/13/24 17:12	
SM 2540C-2015	Total Dissolved Solids	483	mg/L	25.0	09/10/24 13:01	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	133	mg/L	5.0	09/11/24 15:04	

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SUMMARY OF DETECTION

Project: Hammond AP-1 (CA)-20240904
Pace Project No.: 92752167

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92752167005	**HAM-PT-11**					
SM 2320B-2011	Alkalinity, Total as CaCO3	133	mg/L	5.0	09/11/24 15:04	
EPA 300.0 Rev 2.1 1993	Chloride	46.1	mg/L	1.0	09/10/24 08:12	
EPA 300.0 Rev 2.1 1993	Fluoride	0.43	mg/L	0.10	09/10/24 08:12	
EPA 300.0 Rev 2.1 1993	Sulfate	139	mg/L	3.0	09/10/24 18:10	
92752167006	**HAM-PT-12**					
EPA 6010D	Iron	0.14	mg/L	0.040	09/13/24 21:32	
EPA 6010D	Manganese	0.77	mg/L	0.040	09/13/24 21:32	
EPA 6010D	Potassium	5.5	mg/L	0.50	09/13/24 21:32	
EPA 6010D	Sodium	6.7	mg/L	1.0	09/13/24 21:32	
EPA 6010D	Calcium	90.2	mg/L	1.0	09/13/24 21:32	
EPA 6010D	Magnesium	26.4	mg/L	0.050	09/13/24 21:32	
EPA 6020B	Arsenic	0.0017J	mg/L	0.0050	09/13/24 17:32	
EPA 6020B	Barium	0.068	mg/L	0.0050	09/13/24 17:32	
EPA 6020B	Boron	1.0	mg/L	0.040	09/13/24 17:32	
EPA 6020B	Cadmium	0.00024J	mg/L	0.00050	09/13/24 17:32	
EPA 6020B	Cobalt	0.0028J	mg/L	0.0050	09/13/24 17:32	
EPA 6020B	Lithium	0.0020J	mg/L	0.030	09/13/24 17:32	
EPA 6020B	Molybdenum	0.19	mg/L	0.010	09/13/24 17:32	
SM 2540C-2015	Total Dissolved Solids	500	mg/L	25.0	09/10/24 13:02	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	124	mg/L	5.0	09/11/24 15:14	
SM 2320B-2011	Alkalinity, Total as CaCO3	124	mg/L	5.0	09/11/24 15:14	
EPA 300.0 Rev 2.1 1993	Chloride	28.7	mg/L	1.0	09/10/24 08:28	
EPA 300.0 Rev 2.1 1993	Fluoride	0.38	mg/L	0.10	09/10/24 08:28	
EPA 300.0 Rev 2.1 1993	Sulfate	187	mg/L	4.0	09/10/24 18:25	
92752167007	**HAM-PT-13**					
EPA 6010D	Iron	17.2	mg/L	0.040	09/13/24 21:37	
EPA 6010D	Manganese	4.1	mg/L	0.040	09/13/24 21:37	
EPA 6010D	Potassium	5.9	mg/L	0.50	09/13/24 21:37	
EPA 6010D	Sodium	10.6	mg/L	1.0	09/13/24 21:37	
EPA 6010D	Calcium	120	mg/L	1.0	09/13/24 21:37	
EPA 6010D	Magnesium	16.1	mg/L	0.050	09/13/24 21:37	
EPA 6020B	Arsenic	0.31	mg/L	0.0050	09/13/24 17:36	
EPA 6020B	Barium	0.050	mg/L	0.0050	09/13/24 17:36	
EPA 6020B	Boron	0.53	mg/L	0.040	09/13/24 17:36	
EPA 6020B	Cobalt	0.038	mg/L	0.0050	09/13/24 17:36	
EPA 6020B	Lithium	0.059	mg/L	0.030	09/13/24 17:36	
EPA 6020B	Molybdenum	0.0088J	mg/L	0.010	09/13/24 17:36	
SM 2540C-2015	Total Dissolved Solids	570	mg/L	25.0	09/11/24 13:45	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	134	mg/L	5.0	09/11/24 15:23	
SM 2320B-2011	Alkalinity, Total as CaCO3	134	mg/L	5.0	09/11/24 15:23	
EPA 300.0 Rev 2.1 1993	Chloride	17.4	mg/L	1.0	09/10/24 08:44	
EPA 300.0 Rev 2.1 1993	Fluoride	0.40	mg/L	0.10	09/10/24 08:44	
EPA 300.0 Rev 2.1 1993	Sulfate	241	mg/L	5.0	09/10/24 19:12	
92752167008	**HAM-PT-14**					
EPA 6010D	Iron	14.9	mg/L	0.040	09/13/24 21:41	
EPA 6010D	Manganese	3.0	mg/L	0.040	09/13/24 21:41	

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SUMMARY OF DETECTION

Project: Hammond AP-1 (CA)-20240904
Pace Project No.: 92752167

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92752167008	**HAM-PT-14**					
EPA 6010D	Potassium	6.1	mg/L	0.50	09/13/24 21:41	
EPA 6010D	Sodium	9.6	mg/L	1.0	09/13/24 21:41	
EPA 6010D	Calcium	121	mg/L	1.0	09/13/24 21:41	
EPA 6010D	Magnesium	18.6	mg/L	0.050	09/13/24 21:41	
EPA 6020B	Arsenic	0.23	mg/L	0.0050	09/13/24 17:40	
EPA 6020B	Barium	0.048	mg/L	0.0050	09/13/24 17:40	
EPA 6020B	Boron	0.62	mg/L	0.040	09/13/24 17:40	
EPA 6020B	Cobalt	0.025	mg/L	0.0050	09/13/24 17:40	
EPA 6020B	Lithium	0.049	mg/L	0.030	09/13/24 17:40	
EPA 6020B	Molybdenum	0.015	mg/L	0.010	09/13/24 17:40	
SM 2540C-2015	Total Dissolved Solids	586	mg/L	25.0	09/11/24 13:47	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	156	mg/L	5.0	09/11/24 17:39	
SM 2320B-2011	Alkalinity, Total as CaCO3	156	mg/L	5.0	09/11/24 17:39	
EPA 300.0 Rev 2.1 1993	Chloride	19.1	mg/L	1.0	09/10/24 09:00	
EPA 300.0 Rev 2.1 1993	Fluoride	0.27	mg/L	0.10	09/10/24 09:00	
EPA 300.0 Rev 2.1 1993	Sulfate	236	mg/L	5.0	09/10/24 19:28	
92752167009	**HAM-PT-15**					
EPA 6010D	Iron	7.4	mg/L	0.040	09/13/24 21:46	
EPA 6010D	Manganese	4.9	mg/L	0.040	09/13/24 21:46	
EPA 6010D	Potassium	5.0	mg/L	0.50	09/13/24 21:46	
EPA 6010D	Sodium	7.9	mg/L	1.0	09/13/24 21:46	
EPA 6010D	Calcium	107	mg/L	1.0	09/13/24 21:46	
EPA 6010D	Magnesium	13.1	mg/L	0.050	09/13/24 21:46	
EPA 6020B	Arsenic	0.43	mg/L	0.0050	09/13/24 17:43	
EPA 6020B	Barium	0.048	mg/L	0.0050	09/13/24 17:43	
EPA 6020B	Beryllium	0.000099J	mg/L	0.00050	09/13/24 17:43	
EPA 6020B	Boron	0.69	mg/L	0.040	09/13/24 17:43	
EPA 6020B	Cobalt	0.079	mg/L	0.0050	09/13/24 17:43	
EPA 6020B	Lithium	0.042	mg/L	0.030	09/13/24 17:43	
EPA 6020B	Molybdenum	0.017	mg/L	0.010	09/13/24 17:43	
SM 2540C-2015	Total Dissolved Solids	521	mg/L	25.0	09/11/24 13:46	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	149	mg/L	5.0	09/11/24 15:33	
SM 2320B-2011	Alkalinity, Total as CaCO3	149	mg/L	5.0	09/11/24 15:33	
EPA 300.0 Rev 2.1 1993	Chloride	15.2	mg/L	1.0	09/10/24 09:47	
EPA 300.0 Rev 2.1 1993	Fluoride	0.36	mg/L	0.10	09/10/24 09:47	
EPA 300.0 Rev 2.1 1993	Sulfate	204	mg/L	5.0	09/10/24 19:44	
92752167010	**HAM-AP1-EB-01**					
SM 2540C-2015	Total Dissolved Solids	66.0	mg/L	25.0	09/11/24 13:48	
92752167011	**HAM-AP1-FB-01**					
EPA 6020B	Molybdenum	0.00063J	mg/L	0.010	09/13/24 17:51	
SM 2540C-2015	Total Dissolved Solids	43.0	mg/L	25.0	09/11/24 13:48	
92752167012	**HAM-AP1-FD-01**					
EPA 6010D	Iron	10.1	mg/L	0.040	09/13/24 22:11	
EPA 6010D	Manganese	3.0	mg/L	0.040	09/13/24 22:11	
EPA 6010D	Potassium	5.4	mg/L	0.50	09/13/24 22:11	

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SUMMARY OF DETECTION

Project: Hammond AP-1 (CA)-20240904
Pace Project No.: 92752167

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92752167012	**HAM-AP1-FD-01**					
EPA 6010D	Sodium	9.3	mg/L	1.0	09/13/24 22:11	
EPA 6010D	Calcium	92.4	mg/L	1.0	09/13/24 22:11	
EPA 6010D	Magnesium	13.1	mg/L	0.050	09/13/24 22:11	
EPA 6020B	Arsenic	0.21	mg/L	0.0050	09/13/24 17:54	
EPA 6020B	Barium	0.049	mg/L	0.0050	09/13/24 17:54	
EPA 6020B	Boron	0.71	mg/L	0.040	09/13/24 17:54	
EPA 6020B	Cobalt	0.084	mg/L	0.0050	09/13/24 17:54	
EPA 6020B	Lithium	0.016J	mg/L	0.030	09/13/24 17:54	
EPA 6020B	Molybdenum	0.010	mg/L	0.010	09/13/24 17:54	
SM 2540C-2015	Total Dissolved Solids	492	mg/L	25.0	09/11/24 13:48	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	81.3	mg/L	5.0	09/11/24 17:55	
SM 2320B-2011	Alkalinity, Total as CaCO3	81.3	mg/L	5.0	09/11/24 17:55	
EPA 300.0 Rev 2.1 1993	Chloride	19.5	mg/L	1.0	09/10/24 10:03	
EPA 300.0 Rev 2.1 1993	Fluoride	0.17	mg/L	0.10	09/10/24 10:03	
EPA 300.0 Rev 2.1 1993	Sulfate	195	mg/L	4.0	09/10/24 19:59	

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CA)-20240904
Pace Project No.: 92752167

Sample: HAM-PT-07 **Lab ID: 92752167001** Collected: 09/04/24 15:38 Received: 09/06/24 11:54 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**15.6**	mg/L	0.040	0.025	1	09/12/24 13:03	09/13/24 20:42	7439-89-6	M1
Manganese	**4.4**	mg/L	0.040	0.011	1	09/12/24 13:03	09/13/24 20:42	7439-96-5	M1
Potassium	**5.8**	mg/L	0.50	0.15	1	09/12/24 13:03	09/13/24 20:42	7440-09-7	
Sodium	**9.8**	mg/L	1.0	0.58	1	09/12/24 13:03	09/13/24 20:42	7440-23-5	M1
Calcium	**117**	mg/L	1.0	0.12	1	09/12/24 13:03	09/13/24 20:42	7440-70-2	M1
Magnesium	**16.4**	mg/L	0.050	0.012	1	09/12/24 13:03	09/13/24 20:42	7439-95-4	M1
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.0014J**	mg/L	0.0030	0.00054	1	09/11/24 13:55	09/13/24 16:47	7440-36-0	
Arsenic	**0.30**	mg/L	0.0050	0.00084	1	09/11/24 13:55	09/13/24 16:47	7440-38-2	
Barium	**0.050**	mg/L	0.0050	0.00047	1	09/11/24 13:55	09/13/24 16:47	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	09/11/24 13:55	09/13/24 16:47	7440-41-7	
Boron	**0.56**	mg/L	0.040	0.012	1	09/11/24 13:55	09/13/24 16:47	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	09/11/24 13:55	09/13/24 16:47	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	09/11/24 13:55	09/13/24 16:47	7440-47-3	
Cobalt	**0.12**	mg/L	0.0050	0.00032	1	09/11/24 13:55	09/13/24 16:47	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	09/11/24 13:55	09/13/24 16:47	7439-92-1	
Lithium	**0.053**	mg/L	0.030	0.0016	1	09/11/24 13:55	09/13/24 16:47	7439-93-2	
Molybdenum	**0.010**	mg/L	0.010	0.00062	1	09/11/24 13:55	09/13/24 16:47	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	09/11/24 13:55	09/13/24 16:47	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	09/11/24 13:55	09/13/24 16:47	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/17/24 07:00	09/17/24 10:34	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**561**	mg/L	25.0	25.0	1		09/10/24 12:56		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**143**	mg/L	5.0	5.0	1		09/11/24 14:27		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/11/24 14:27		
Alkalinity, Total as CaCO3	**143**	mg/L	5.0	5.0	1		09/11/24 14:27		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		09/10/24 04:23	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**17.4**	mg/L	1.0	0.60	1		09/10/24 06:53	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CA)-20240904
Pace Project No.: 92752167

Sample: HAM-PT-07 **Lab ID: 92752167001** Collected: 09/04/24 15:38 Received: 09/06/24 11:54 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.37**	mg/L	0.10	0.050	1		09/10/24 06:53	16984-48-8	
Sulfate	**221**	mg/L	5.0	2.5	5		09/10/24 16:52	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CA)-20240904
Pace Project No.: 92752167

Sample: HAM-PT-08 **Lab ID: 92752167002** Collected: 09/05/24 12:47 Received: 09/06/24 11:54 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**9.8**	mg/L	0.040	0.025	1	09/12/24 13:03	09/13/24 21:12	7439-89-6	
Manganese	**3.0**	mg/L	0.040	0.011	1	09/12/24 13:03	09/13/24 21:12	7439-96-5	
Potassium	**5.3**	mg/L	0.50	0.15	1	09/12/24 13:03	09/13/24 21:12	7440-09-7	
Sodium	**8.2**	mg/L	1.0	0.58	1	09/12/24 13:03	09/13/24 21:12	7440-23-5	
Calcium	**94.4**	mg/L	1.0	0.12	1	09/12/24 13:03	09/13/24 21:12	7440-70-2	
Magnesium	**13.2**	mg/L	0.050	0.012	1	09/12/24 13:03	09/13/24 21:12	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.0013J**	mg/L	0.0030	0.00054	1	09/11/24 13:55	09/13/24 17:01	7440-36-0	
Arsenic	**0.23**	mg/L	0.0050	0.00084	1	09/11/24 13:55	09/13/24 17:01	7440-38-2	
Barium	**0.048**	mg/L	0.0050	0.00047	1	09/11/24 13:55	09/13/24 17:01	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	09/11/24 13:55	09/13/24 17:01	7440-41-7	
Boron	**0.70**	mg/L	0.040	0.012	1	09/11/24 13:55	09/13/24 17:01	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	09/11/24 13:55	09/13/24 17:01	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	09/11/24 13:55	09/13/24 17:01	7440-47-3	
Cobalt	**0.084**	mg/L	0.0050	0.00032	1	09/11/24 13:55	09/13/24 17:01	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	09/11/24 13:55	09/13/24 17:01	7439-92-1	
Lithium	**0.015J**	mg/L	0.030	0.0016	1	09/11/24 13:55	09/13/24 17:01	7439-93-2	
Molybdenum	**0.010**	mg/L	0.010	0.00062	1	09/11/24 13:55	09/13/24 17:01	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	09/11/24 13:55	09/13/24 17:01	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	09/11/24 13:55	09/13/24 17:01	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/17/24 07:00	09/17/24 10:37	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**466**	mg/L	25.0	25.0	1		09/11/24 13:47		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**77.7**	mg/L	5.0	5.0	1		09/11/24 17:31		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/11/24 17:31		
Alkalinity, Total as CaCO3	**77.7**	mg/L	5.0	5.0	1		09/11/24 17:31		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		09/10/24 04:31	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**19.3**	mg/L	1.0	0.60	1		09/10/24 07:09	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CA)-20240904
Pace Project No.: 92752167

Sample: HAM-PT-08 **Lab ID: 92752167002** Collected: 09/05/24 12:47 Received: 09/06/24 11:54 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.16**	mg/L	0.10	0.050	1		09/10/24 07:09	16984-48-8	M1
Sulfate	**193**	mg/L	4.0	2.0	4		09/10/24 17:07	14808-79-8	M1

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CA)-20240904
Pace Project No.: 92752167

Sample: HAM-PT-09 **Lab ID: 92752167003** Collected: 09/04/24 13:20 Received: 09/06/24 11:54 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.31**	mg/L	0.040	0.025	1	09/12/24 13:03	09/13/24 21:17	7439-89-6	
Manganese	**0.28**	mg/L	0.040	0.011	1	09/12/24 13:03	09/13/24 21:17	7439-96-5	
Potassium	**6.1**	mg/L	0.50	0.15	1	09/12/24 13:03	09/13/24 21:17	7440-09-7	
Sodium	**8.9**	mg/L	1.0	0.58	1	09/12/24 13:03	09/13/24 21:17	7440-23-5	
Calcium	**87.9**	mg/L	1.0	0.12	1	09/12/24 13:03	09/13/24 21:17	7440-70-2	
Magnesium	**24.9**	mg/L	0.050	0.012	1	09/12/24 13:03	09/13/24 21:17	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	09/11/24 13:55	09/13/24 17:05	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	09/11/24 13:55	09/13/24 17:05	7440-38-2	
Barium	**0.068**	mg/L	0.0050	0.00047	1	09/11/24 13:55	09/13/24 17:05	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	09/11/24 13:55	09/13/24 17:05	7440-41-7	
Boron	**1.4**	mg/L	0.040	0.012	1	09/11/24 13:55	09/13/24 17:05	7440-42-8	
Cadmium	**0.00021J**	mg/L	0.00050	0.00010	1	09/11/24 13:55	09/13/24 17:05	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	09/11/24 13:55	09/13/24 17:05	7440-47-3	
Cobalt	**0.0027J**	mg/L	0.0050	0.00032	1	09/11/24 13:55	09/13/24 17:05	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	09/11/24 13:55	09/13/24 17:05	7439-92-1	
Lithium	**0.0022J**	mg/L	0.030	0.0016	1	09/11/24 13:55	09/13/24 17:05	7439-93-2	
Molybdenum	**0.26**	mg/L	0.010	0.00062	1	09/11/24 13:55	09/13/24 17:05	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	09/11/24 13:55	09/13/24 17:05	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	09/11/24 13:55	09/13/24 17:05	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/17/24 07:00	09/17/24 10:39	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**486**	mg/L	25.0	25.0	1		09/10/24 12:56		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**121**	mg/L	5.0	5.0	1		09/11/24 14:38		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/11/24 14:38		
Alkalinity, Total as CaCO3	**121**	mg/L	5.0	5.0	1		09/11/24 14:38		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		09/10/24 04:25	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**45.3**	mg/L	1.0	0.60	1		09/10/24 07:56	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CA)-20240904
Pace Project No.: 92752167

Sample: HAM-PT-09 **Lab ID: 92752167003** Collected: 09/04/24 13:20 Received: 09/06/24 11:54 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.43**	mg/L	0.10	0.050	1		09/10/24 07:56	16984-48-8	
Sulfate	**149**	mg/L	3.0	1.5	3		09/10/24 17:54	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CA)-20240904
Pace Project No.: 92752167

Sample: HAM-PT-10 **Lab ID: 92752167004** Collected: 09/04/24 11:35 Received: 09/06/24 11:54 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.077**	mg/L	0.040	0.025	1	09/12/24 13:03	09/13/24 21:22	7439-89-6	
Manganese	**0.42**	mg/L	0.040	0.011	1	09/12/24 13:03	09/13/24 21:22	7439-96-5	
Potassium	**6.8**	mg/L	0.50	0.15	1	09/12/24 13:03	09/13/24 21:22	7440-09-7	
Sodium	**8.7**	mg/L	1.0	0.58	1	09/12/24 13:03	09/13/24 21:22	7440-23-5	
Calcium	**99.0**	mg/L	1.0	0.12	1	09/12/24 13:03	09/13/24 21:22	7440-70-2	
Magnesium	**13.1**	mg/L	0.050	0.012	1	09/12/24 13:03	09/13/24 21:22	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	09/11/24 13:55	09/13/24 17:09	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	09/11/24 13:55	09/13/24 17:09	7440-38-2	
Barium	**0.047**	mg/L	0.0050	0.00047	1	09/11/24 13:55	09/13/24 17:09	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	09/11/24 13:55	09/13/24 17:09	7440-41-7	
Boron	**1.6**	mg/L	0.040	0.012	1	09/11/24 13:55	09/13/24 17:09	7440-42-8	
Cadmium	**0.00011J**	mg/L	0.00050	0.00010	1	09/11/24 13:55	09/13/24 17:09	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	09/11/24 13:55	09/13/24 17:09	7440-47-3	
Cobalt	**0.0015J**	mg/L	0.0050	0.00032	1	09/11/24 13:55	09/13/24 17:09	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	09/11/24 13:55	09/13/24 17:09	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	09/11/24 13:55	09/13/24 17:09	7439-93-2	
Molybdenum	**0.18**	mg/L	0.010	0.00062	1	09/11/24 13:55	09/13/24 17:09	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	09/11/24 13:55	09/13/24 17:09	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	09/11/24 13:55	09/13/24 17:09	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/17/24 07:00	09/17/24 10:55	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**473**	mg/L	25.0	25.0	1		09/10/24 12:56		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**130**	mg/L	5.0	5.0	1		09/11/24 14:47		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/11/24 14:47		
Alkalinity, Total as CaCO3	**130**	mg/L	5.0	5.0	1		09/11/24 14:47		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		09/10/24 04:25	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**46.2**	mg/L	1.0	0.60	1		09/10/24 16:35	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CA)-20240904
Pace Project No.: 92752167

Sample: HAM-PT-10 **Lab ID: 92752167004** Collected: 09/04/24 11:35 Received: 09/06/24 11:54 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.28**	mg/L	0.10	0.050	1		09/10/24 16:35	16984-48-8	
Sulfate	**118**	mg/L	3.0	1.5	3		09/10/24 18:49	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CA)-20240904
Pace Project No.: 92752167

Sample: HAM-PT-11 **Lab ID: 92752167005** Collected: 09/04/24 11:25 Received: 09/06/24 11:54 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.41**	mg/L	0.040	0.025	1	09/12/24 13:03	09/13/24 21:27	7439-89-6	
Manganese	**0.59**	mg/L	0.040	0.011	1	09/12/24 13:03	09/13/24 21:27	7439-96-5	
Potassium	**6.1**	mg/L	0.50	0.15	1	09/12/24 13:03	09/13/24 21:27	7440-09-7	
Sodium	**8.6**	mg/L	1.0	0.58	1	09/12/24 13:03	09/13/24 21:27	7440-23-5	
Calcium	**94.9**	mg/L	1.0	0.12	1	09/12/24 13:03	09/13/24 21:27	7440-70-2	
Magnesium	**17.8**	mg/L	0.050	0.012	1	09/12/24 13:03	09/13/24 21:27	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	09/11/24 13:55	09/13/24 17:12	7440-36-0	
Arsenic	**0.00087J**	mg/L	0.0050	0.00084	1	09/11/24 13:55	09/13/24 17:12	7440-38-2	
Barium	**0.070**	mg/L	0.0050	0.00047	1	09/11/24 13:55	09/13/24 17:12	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	09/11/24 13:55	09/13/24 17:12	7440-41-7	
Boron	**1.4**	mg/L	0.040	0.012	1	09/11/24 13:55	09/13/24 17:12	7440-42-8	
Cadmium	**0.00017J**	mg/L	0.00050	0.00010	1	09/11/24 13:55	09/13/24 17:12	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	09/11/24 13:55	09/13/24 17:12	7440-47-3	
Cobalt	**0.0066**	mg/L	0.0050	0.00032	1	09/11/24 13:55	09/13/24 17:12	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	09/11/24 13:55	09/13/24 17:12	7439-92-1	
Lithium	**0.0039J**	mg/L	0.030	0.0016	1	09/11/24 13:55	09/13/24 17:12	7439-93-2	
Molybdenum	**0.14**	mg/L	0.010	0.00062	1	09/11/24 13:55	09/13/24 17:12	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	09/11/24 13:55	09/13/24 17:12	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	09/11/24 13:55	09/13/24 17:12	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/17/24 07:00	09/17/24 10:58	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**483**	mg/L	25.0	25.0	1		09/10/24 13:01		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**133**	mg/L	5.0	5.0	1		09/11/24 15:04		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/11/24 15:04		
Alkalinity, Total as CaCO3	**133**	mg/L	5.0	5.0	1		09/11/24 15:04		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		09/10/24 04:26	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**46.1**	mg/L	1.0	0.60	1		09/10/24 08:12	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CA)-20240904
Pace Project No.: 92752167

Sample: HAM-PT-11 **Lab ID: 92752167005** Collected: 09/04/24 11:25 Received: 09/06/24 11:54 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.43**	mg/L	0.10	0.050	1		09/10/24 08:12	16984-48-8	
Sulfate	**139**	mg/L	3.0	1.5	3		09/10/24 18:10	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CA)-20240904
Pace Project No.: 92752167

Sample: HAM-PT-12 **Lab ID: 92752167006** Collected: 09/04/24 15:25 Received: 09/06/24 11:54 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.14**	mg/L	0.040	0.025	1	09/12/24 13:03	09/13/24 21:32	7439-89-6	
Manganese	**0.77**	mg/L	0.040	0.011	1	09/12/24 13:03	09/13/24 21:32	7439-96-5	
Potassium	**5.5**	mg/L	0.50	0.15	1	09/12/24 13:03	09/13/24 21:32	7440-09-7	
Sodium	**6.7**	mg/L	1.0	0.58	1	09/12/24 13:03	09/13/24 21:32	7440-23-5	
Calcium	**90.2**	mg/L	1.0	0.12	1	09/12/24 13:03	09/13/24 21:32	7440-70-2	
Magnesium	**26.4**	mg/L	0.050	0.012	1	09/12/24 13:03	09/13/24 21:32	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	09/11/24 13:55	09/13/24 17:32	7440-36-0	
Arsenic	**0.0017J**	mg/L	0.0050	0.00084	1	09/11/24 13:55	09/13/24 17:32	7440-38-2	
Barium	**0.068**	mg/L	0.0050	0.00047	1	09/11/24 13:55	09/13/24 17:32	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	09/11/24 13:55	09/13/24 17:32	7440-41-7	
Boron	**1.0**	mg/L	0.040	0.012	1	09/11/24 13:55	09/13/24 17:32	7440-42-8	
Cadmium	**0.00024J**	mg/L	0.00050	0.00010	1	09/11/24 13:55	09/13/24 17:32	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	09/11/24 13:55	09/13/24 17:32	7440-47-3	
Cobalt	**0.0028J**	mg/L	0.0050	0.00032	1	09/11/24 13:55	09/13/24 17:32	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	09/11/24 13:55	09/13/24 17:32	7439-92-1	
Lithium	**0.0020J**	mg/L	0.030	0.0016	1	09/11/24 13:55	09/13/24 17:32	7439-93-2	
Molybdenum	**0.19**	mg/L	0.010	0.00062	1	09/11/24 13:55	09/13/24 17:32	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	09/11/24 13:55	09/13/24 17:32	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	09/11/24 13:55	09/13/24 17:32	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/17/24 07:00	09/17/24 11:00	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**500**	mg/L	25.0	25.0	1		09/10/24 13:02		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**124**	mg/L	5.0	5.0	1		09/11/24 15:14		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/11/24 15:14		
Alkalinity, Total as CaCO3	**124**	mg/L	5.0	5.0	1		09/11/24 15:14		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		09/10/24 04:27	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**28.7**	mg/L	1.0	0.60	1		09/10/24 08:28	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CA)-20240904
Pace Project No.: 92752167

Sample: HAM-PT-12 **Lab ID: 92752167006** Collected: 09/04/24 15:25 Received: 09/06/24 11:54 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.38**	mg/L	0.10	0.050	1		09/10/24 08:28	16984-48-8	
Sulfate	**187**	mg/L	4.0	2.0	4		09/10/24 18:25	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CA)-20240904
Pace Project No.: 92752167

Sample: HAM-PT-13 **Lab ID: 92752167007** Collected: 09/04/24 14:00 Received: 09/06/24 11:54 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**17.2**	mg/L	0.040	0.025	1	09/12/24 13:03	09/13/24 21:37	7439-89-6	
Manganese	**4.1**	mg/L	0.040	0.011	1	09/12/24 13:03	09/13/24 21:37	7439-96-5	
Potassium	**5.9**	mg/L	0.50	0.15	1	09/12/24 13:03	09/13/24 21:37	7440-09-7	
Sodium	**10.6**	mg/L	1.0	0.58	1	09/12/24 13:03	09/13/24 21:37	7440-23-5	
Calcium	**120**	mg/L	1.0	0.12	1	09/12/24 13:03	09/13/24 21:37	7440-70-2	
Magnesium	**16.1**	mg/L	0.050	0.012	1	09/12/24 13:03	09/13/24 21:37	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	09/11/24 13:55	09/13/24 17:36	7440-36-0	
Arsenic	**0.31**	mg/L	0.0050	0.00084	1	09/11/24 13:55	09/13/24 17:36	7440-38-2	
Barium	**0.050**	mg/L	0.0050	0.00047	1	09/11/24 13:55	09/13/24 17:36	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	09/11/24 13:55	09/13/24 17:36	7440-41-7	
Boron	**0.53**	mg/L	0.040	0.012	1	09/11/24 13:55	09/13/24 17:36	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	09/11/24 13:55	09/13/24 17:36	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	09/11/24 13:55	09/13/24 17:36	7440-47-3	
Cobalt	**0.038**	mg/L	0.0050	0.00032	1	09/11/24 13:55	09/13/24 17:36	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	09/11/24 13:55	09/13/24 17:36	7439-92-1	
Lithium	**0.059**	mg/L	0.030	0.0016	1	09/11/24 13:55	09/13/24 17:36	7439-93-2	
Molybdenum	**0.0088J**	mg/L	0.010	0.00062	1	09/11/24 13:55	09/13/24 17:36	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	09/11/24 13:55	09/13/24 17:36	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	09/11/24 13:55	09/13/24 17:36	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/17/24 07:00	09/17/24 11:03	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**570**	mg/L	25.0	25.0	1		09/11/24 13:45		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**134**	mg/L	5.0	5.0	1		09/11/24 15:23		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/11/24 15:23		
Alkalinity, Total as CaCO3	**134**	mg/L	5.0	5.0	1		09/11/24 15:23		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		09/10/24 04:27	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**17.4**	mg/L	1.0	0.60	1		09/10/24 08:44	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CA)-20240904
Pace Project No.: 92752167

Sample: HAM-PT-13 **Lab ID: 92752167007** Collected: 09/04/24 14:00 Received: 09/06/24 11:54 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.40**	mg/L	0.10	0.050	1		09/10/24 08:44	16984-48-8	
Sulfate	**241**	mg/L	5.0	2.5	5		09/10/24 19:12	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CA)-20240904
Pace Project No.: 92752167

Sample: HAM-PT-14 **Lab ID: 92752167008** Collected: 09/05/24 11:35 Received: 09/06/24 11:54 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**14.9**	mg/L	0.040	0.025	1	09/12/24 13:03	09/13/24 21:41	7439-89-6	
Manganese	**3.0**	mg/L	0.040	0.011	1	09/12/24 13:03	09/13/24 21:41	7439-96-5	
Potassium	**6.1**	mg/L	0.50	0.15	1	09/12/24 13:03	09/13/24 21:41	7440-09-7	
Sodium	**9.6**	mg/L	1.0	0.58	1	09/12/24 13:03	09/13/24 21:41	7440-23-5	
Calcium	**121**	mg/L	1.0	0.12	1	09/12/24 13:03	09/13/24 21:41	7440-70-2	
Magnesium	**18.6**	mg/L	0.050	0.012	1	09/12/24 13:03	09/13/24 21:41	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	09/11/24 13:55	09/13/24 17:40	7440-36-0	
Arsenic	**0.23**	mg/L	0.0050	0.00084	1	09/11/24 13:55	09/13/24 17:40	7440-38-2	
Barium	**0.048**	mg/L	0.0050	0.00047	1	09/11/24 13:55	09/13/24 17:40	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	09/11/24 13:55	09/13/24 17:40	7440-41-7	
Boron	**0.62**	mg/L	0.040	0.012	1	09/11/24 13:55	09/13/24 17:40	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	09/11/24 13:55	09/13/24 17:40	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	09/11/24 13:55	09/13/24 17:40	7440-47-3	
Cobalt	**0.025**	mg/L	0.0050	0.00032	1	09/11/24 13:55	09/13/24 17:40	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	09/11/24 13:55	09/13/24 17:40	7439-92-1	
Lithium	**0.049**	mg/L	0.030	0.0016	1	09/11/24 13:55	09/13/24 17:40	7439-93-2	
Molybdenum	**0.015**	mg/L	0.010	0.00062	1	09/11/24 13:55	09/13/24 17:40	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	09/11/24 13:55	09/13/24 17:40	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	09/11/24 13:55	09/13/24 17:40	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/17/24 07:00	09/17/24 11:05	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**586**	mg/L	25.0	25.0	1		09/11/24 13:47		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**156**	mg/L	5.0	5.0	1		09/11/24 17:39		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/11/24 17:39		
Alkalinity, Total as CaCO3	**156**	mg/L	5.0	5.0	1		09/11/24 17:39		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		09/10/24 04:32	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**19.1**	mg/L	1.0	0.60	1		09/10/24 09:00	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CA)-20240904
Pace Project No.: 92752167

Sample: HAM-PT-14 **Lab ID: 92752167008** Collected: 09/05/24 11:35 Received: 09/06/24 11:54 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.27**	mg/L	0.10	0.050	1		09/10/24 09:00	16984-48-8	
Sulfate	**236**	mg/L	5.0	2.5	5		09/10/24 19:28	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CA)-20240904
Pace Project No.: 92752167

Sample: HAM-PT-15 **Lab ID: 92752167009** Collected: 09/04/24 16:10 Received: 09/06/24 11:54 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**7.4**	mg/L	0.040	0.025	1	09/12/24 13:03	09/13/24 21:46	7439-89-6	
Manganese	**4.9**	mg/L	0.040	0.011	1	09/12/24 13:03	09/13/24 21:46	7439-96-5	
Potassium	**5.0**	mg/L	0.50	0.15	1	09/12/24 13:03	09/13/24 21:46	7440-09-7	
Sodium	**7.9**	mg/L	1.0	0.58	1	09/12/24 13:03	09/13/24 21:46	7440-23-5	
Calcium	**107**	mg/L	1.0	0.12	1	09/12/24 13:03	09/13/24 21:46	7440-70-2	
Magnesium	**13.1**	mg/L	0.050	0.012	1	09/12/24 13:03	09/13/24 21:46	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	09/11/24 13:55	09/13/24 17:43	7440-36-0	
Arsenic	**0.43**	mg/L	0.0050	0.00084	1	09/11/24 13:55	09/13/24 17:43	7440-38-2	
Barium	**0.048**	mg/L	0.0050	0.00047	1	09/11/24 13:55	09/13/24 17:43	7440-39-3	
Beryllium	**0.000099J**	mg/L	0.00050	0.000094	1	09/11/24 13:55	09/13/24 17:43	7440-41-7	
Boron	**0.69**	mg/L	0.040	0.012	1	09/11/24 13:55	09/13/24 17:43	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	09/11/24 13:55	09/13/24 17:43	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	09/11/24 13:55	09/13/24 17:43	7440-47-3	
Cobalt	**0.079**	mg/L	0.0050	0.00032	1	09/11/24 13:55	09/13/24 17:43	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	09/11/24 13:55	09/13/24 17:43	7439-92-1	
Lithium	**0.042**	mg/L	0.030	0.0016	1	09/11/24 13:55	09/13/24 17:43	7439-93-2	
Molybdenum	**0.017**	mg/L	0.010	0.00062	1	09/11/24 13:55	09/13/24 17:43	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	09/11/24 13:55	09/13/24 17:43	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	09/11/24 13:55	09/13/24 17:43	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/17/24 07:00	09/17/24 11:08	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**521**	mg/L	25.0	25.0	1		09/11/24 13:46		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**149**	mg/L	5.0	5.0	1		09/11/24 15:33		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/11/24 15:33		
Alkalinity, Total as CaCO3	**149**	mg/L	5.0	5.0	1		09/11/24 15:33		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		09/10/24 04:27	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**15.2**	mg/L	1.0	0.60	1		09/10/24 09:47	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CA)-20240904
Pace Project No.: 92752167

Sample: HAM-PT-15 **Lab ID: 92752167009** Collected: 09/04/24 16:10 Received: 09/06/24 11:54 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.36**	mg/L	0.10	0.050	1		09/10/24 09:47	16984-48-8	
Sulfate	**204**	mg/L	5.0	2.5	5		09/10/24 19:44	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CA)-20240904
Pace Project No.: 92752167

Sample: HAM-AP1-EB-01 **Lab ID: 92752167010** Collected: 09/05/24 14:35 Received: 09/06/24 11:54 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	09/12/24 13:03	09/13/24 21:51	7439-89-6	
Manganese	ND	mg/L	0.040	0.011	1	09/12/24 13:03	09/13/24 21:51	7439-96-5	
Potassium	ND	mg/L	0.50	0.15	1	09/12/24 13:03	09/13/24 21:51	7440-09-7	
Sodium	ND	mg/L	1.0	0.58	1	09/12/24 13:03	09/13/24 21:51	7440-23-5	
Calcium	ND	mg/L	1.0	0.12	1	09/12/24 13:03	09/13/24 21:51	7440-70-2	
Magnesium	ND	mg/L	0.050	0.012	1	09/12/24 13:03	09/13/24 21:51	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	09/11/24 13:55	09/13/24 17:47	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	09/11/24 13:55	09/13/24 17:47	7440-38-2	
Barium	ND	mg/L	0.0050	0.00047	1	09/11/24 13:55	09/13/24 17:47	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	09/11/24 13:55	09/13/24 17:47	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	09/11/24 13:55	09/13/24 17:47	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	09/11/24 13:55	09/13/24 17:47	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	09/11/24 13:55	09/13/24 17:47	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	09/11/24 13:55	09/13/24 17:47	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	09/11/24 13:55	09/13/24 17:47	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	09/11/24 13:55	09/13/24 17:47	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	09/11/24 13:55	09/13/24 17:47	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	09/11/24 13:55	09/13/24 17:47	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	09/11/24 13:55	09/13/24 17:47	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/17/24 07:00	09/17/24 11:11	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**66.0**	mg/L	25.0	25.0	1		09/11/24 13:48		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/11/24 17:47		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/11/24 17:47		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		09/11/24 17:47		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		09/10/24 04:33	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		09/09/24 22:26	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CA)-20240904
Pace Project No.: 92752167

Sample: HAM-AP1-EB-01 **Lab ID: 92752167010** Collected: 09/05/24 14:35 Received: 09/06/24 11:54 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	ND	mg/L	0.10	0.050	1		09/09/24 22:26	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		09/09/24 22:26	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CA)-20240904
Pace Project No.: 92752167

Sample: HAM-AP1-FB-01 **Lab ID: 92752167011** Collected: 09/05/24 14:30 Received: 09/06/24 11:54 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	09/12/24 13:03	09/13/24 22:06	7439-89-6	
Manganese	ND	mg/L	0.040	0.011	1	09/12/24 13:03	09/13/24 22:06	7439-96-5	
Potassium	ND	mg/L	0.50	0.15	1	09/12/24 13:03	09/13/24 22:06	7440-09-7	
Sodium	ND	mg/L	1.0	0.58	1	09/12/24 13:03	09/13/24 22:06	7440-23-5	
Calcium	ND	mg/L	1.0	0.12	1	09/12/24 13:03	09/13/24 22:06	7440-70-2	
Magnesium	ND	mg/L	0.050	0.012	1	09/12/24 13:03	09/13/24 22:06	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	09/11/24 13:55	09/13/24 17:51	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	09/11/24 13:55	09/13/24 17:51	7440-38-2	
Barium	ND	mg/L	0.0050	0.00047	1	09/11/24 13:55	09/13/24 17:51	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	09/11/24 13:55	09/13/24 17:51	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	09/11/24 13:55	09/13/24 17:51	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	09/11/24 13:55	09/13/24 17:51	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	09/11/24 13:55	09/13/24 17:51	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	09/11/24 13:55	09/13/24 17:51	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	09/11/24 13:55	09/13/24 17:51	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	09/11/24 13:55	09/13/24 17:51	7439-93-2	
Molybdenum	**0.00063J**	mg/L	0.010	0.00062	1	09/11/24 13:55	09/13/24 17:51	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	09/11/24 13:55	09/13/24 17:51	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	09/11/24 13:55	09/13/24 17:51	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/17/24 07:00	09/17/24 11:19	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**43.0**	mg/L	25.0	25.0	1		09/11/24 13:48		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/11/24 17:51		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/11/24 17:51		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		09/11/24 17:51		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		09/10/24 04:33	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		09/09/24 22:42	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CA)-20240904
Pace Project No.: 92752167

Sample: HAM-AP1-FB-01 **Lab ID: 92752167011** Collected: 09/05/24 14:30 Received: 09/06/24 11:54 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	ND	mg/L	0.10	0.050	1		09/09/24 22:42	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		09/09/24 22:42	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CA)-20240904
Pace Project No.: 92752167

Sample: HAM-AP1-FD-01 **Lab ID: 92752167012** Collected: 09/05/24 00:00 Received: 09/06/24 11:54 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**10.1**	mg/L	0.040	0.025	1	09/12/24 13:03	09/13/24 22:11	7439-89-6	
Manganese	**3.0**	mg/L	0.040	0.011	1	09/12/24 13:03	09/13/24 22:11	7439-96-5	
Potassium	**5.4**	mg/L	0.50	0.15	1	09/12/24 13:03	09/13/24 22:11	7440-09-7	
Sodium	**9.3**	mg/L	1.0	0.58	1	09/12/24 13:03	09/13/24 22:11	7440-23-5	
Calcium	**92.4**	mg/L	1.0	0.12	1	09/12/24 13:03	09/13/24 22:11	7440-70-2	
Magnesium	**13.1**	mg/L	0.050	0.012	1	09/12/24 13:03	09/13/24 22:11	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	09/11/24 13:55	09/13/24 17:54	7440-36-0	
Arsenic	**0.21**	mg/L	0.0050	0.00084	1	09/11/24 13:55	09/13/24 17:54	7440-38-2	
Barium	**0.049**	mg/L	0.0050	0.00047	1	09/11/24 13:55	09/13/24 17:54	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	09/11/24 13:55	09/13/24 17:54	7440-41-7	
Boron	**0.71**	mg/L	0.040	0.012	1	09/11/24 13:55	09/13/24 17:54	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	09/11/24 13:55	09/13/24 17:54	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	09/11/24 13:55	09/13/24 17:54	7440-47-3	
Cobalt	**0.084**	mg/L	0.0050	0.00032	1	09/11/24 13:55	09/13/24 17:54	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	09/11/24 13:55	09/13/24 17:54	7439-92-1	
Lithium	**0.016J**	mg/L	0.030	0.0016	1	09/11/24 13:55	09/13/24 17:54	7439-93-2	
Molybdenum	**0.010**	mg/L	0.010	0.00062	1	09/11/24 13:55	09/13/24 17:54	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	09/11/24 13:55	09/13/24 17:54	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	09/11/24 13:55	09/13/24 17:54	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/17/24 07:00	09/17/24 11:21	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**492**	mg/L	25.0	25.0	1		09/11/24 13:48		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**81.3**	mg/L	5.0	5.0	1		09/11/24 17:55		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/11/24 17:55		
Alkalinity, Total as CaCO3	**81.3**	mg/L	5.0	5.0	1		09/11/24 17:55		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		09/10/24 04:34	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**19.5**	mg/L	1.0	0.60	1		09/10/24 10:03	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1 (CA)-20240904
Pace Project No.: 92752167

Sample: HAM-AP1-FD-01 **Lab ID: 92752167012** Collected: 09/05/24 00:00 Received: 09/06/24 11:54 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.17**	mg/L	0.10	0.050	1		09/10/24 10:03	16984-48-8	
Sulfate	**195**	mg/L	4.0	2.0	4		09/10/24 19:59	14808-79-8	

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QUALITY CONTROL DATA

Project: Hammond AP-1 (CA)-20240904
Pace Project No.: 92752167

QC Batch: 881937
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92752167001, 92752167002, 92752167003, 92752167004, 92752167005, 92752167006, 92752167007, 92752167008, 92752167009, 92752167010, 92752167011, 92752167012

METHOD BLANK: 4542011 Matrix: Water
Associated Lab Samples: 92752167001, 92752167002, 92752167003, 92752167004, 92752167005, 92752167006, 92752167007, 92752167008, 92752167009, 92752167010, 92752167011, 92752167012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	09/13/24 20:33	
Iron	mg/L	ND	0.040	0.025	09/13/24 20:33	
Magnesium	mg/L	ND	0.050	0.012	09/13/24 20:33	
Manganese	mg/L	ND	0.040	0.011	09/13/24 20:33	
Potassium	mg/L	ND	0.50	0.15	09/13/24 20:33	
Sodium	mg/L	ND	1.0	0.58	09/13/24 20:33	

LABORATORY CONTROL SAMPLE: 4542012

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	0.93J	93	80-120	
Iron	mg/L	1	0.93	93	80-120	
Magnesium	mg/L	1	0.92	92	80-120	
Manganese	mg/L	1	0.95	95	80-120	
Potassium	mg/L	1	0.94	94	80-120	
Sodium	mg/L	1	0.98J	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4542013 4542014

Parameter	Units	92752167001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	117	1	1	114	118	-272	108	75-125	3	20	M1
Iron	mg/L	15.6	1	1	16.0	16.5	41	90	75-125	3	20	M1
Magnesium	mg/L	16.4	1	1	16.8	17.3	42	92	75-125	3	20	M1
Manganese	mg/L	4.4	1	1	5.1	5.3	73	86	75-125	2	20	M1
Potassium	mg/L	5.8	1	1	6.5	6.8	77	104	75-125	4	20	
Sodium	mg/L	9.8	1	1	10.5	10.9	69	108	75-125	4	20	M1

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QUALITY CONTROL DATA

Project: Hammond AP-1 (CA)-20240904
Pace Project No.: 92752167

QC Batch: 881820
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92752167001, 92752167002, 92752167003, 92752167004, 92752167005, 92752167006, 92752167007, 92752167008, 92752167009, 92752167010, 92752167011, 92752167012

METHOD BLANK: 4541044 Matrix: Water
Associated Lab Samples: 92752167001, 92752167002, 92752167003, 92752167004, 92752167005, 92752167006, 92752167007, 92752167008, 92752167009, 92752167010, 92752167011, 92752167012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00054	09/13/24 16:39	
Arsenic	mg/L	ND	0.0050	0.00084	09/13/24 16:39	
Barium	mg/L	ND	0.0050	0.00047	09/13/24 16:39	
Beryllium	mg/L	ND	0.00050	0.000094	09/13/24 16:39	
Boron	mg/L	ND	0.040	0.012	09/13/24 16:39	
Cadmium	mg/L	ND	0.00050	0.00010	09/13/24 16:39	
Chromium	mg/L	ND	0.0050	0.0019	09/13/24 16:39	
Cobalt	mg/L	ND	0.0050	0.00032	09/13/24 16:39	
Lead	mg/L	ND	0.0010	0.00016	09/13/24 16:39	
Lithium	mg/L	ND	0.030	0.0016	09/13/24 16:39	
Molybdenum	mg/L	ND	0.010	0.00062	09/13/24 16:39	
Selenium	mg/L	ND	0.0050	0.00096	09/13/24 16:39	
Thallium	mg/L	ND	0.0010	0.00038	09/13/24 16:39	

LABORATORY CONTROL SAMPLE: 4541045

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.098	98	80-120	
Arsenic	mg/L	0.1	0.096	96	80-120	
Barium	mg/L	0.1	0.10	100	80-120	
Beryllium	mg/L	0.1	0.097	97	80-120	
Boron	mg/L	1	0.98	98	80-120	
Cadmium	mg/L	0.1	0.098	98	80-120	
Chromium	mg/L	0.1	0.10	100	80-120	
Cobalt	mg/L	0.1	0.097	97	80-120	
Lead	mg/L	0.1	0.098	98	80-120	
Lithium	mg/L	0.1	0.098	98	80-120	
Molybdenum	mg/L	0.1	0.098	98	80-120	
Selenium	mg/L	0.1	0.097	97	80-120	
Thallium	mg/L	0.1	0.098	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4541046 4541047

Parameter	Units	92752167001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	0.0014J	0.1	0.1	0.10	0.099	98	97	75-125	1	20	

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QUALITY CONTROL DATA

Project: Hammond AP-1 (CA)-20240904
Pace Project No.: 92752167

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4541046 4541047

Parameter	Units	92752167001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	0.30	0.1	0.1	0.40	0.40	95	95	75-125	0	20	
Barium	mg/L	0.050	0.1	0.1	0.15	0.15	99	99	75-125	0	20	
Beryllium	mg/L	ND	0.1	0.1	0.090	0.089	90	89	75-125	1	20	
Boron	mg/L	0.56	1	1	1.5	1.5	91	90	75-125	1	20	
Cadmium	mg/L	ND	0.1	0.1	0.097	0.097	97	97	75-125	0	20	
Chromium	mg/L	ND	0.1	0.1	0.095	0.094	95	94	75-125	1	20	
Cobalt	mg/L	0.12	0.1	0.1	0.21	0.21	89	91	75-125	1	20	
Lead	mg/L	ND	0.1	0.1	0.095	0.094	95	94	75-125	1	20	
Lithium	mg/L	0.053	0.1	0.1	0.14	0.14	89	89	75-125	0	20	
Molybdenum	mg/L	0.010	0.1	0.1	0.11	0.11	99	99	75-125	1	20	
Selenium	mg/L	ND	0.1	0.1	0.097	0.096	97	96	75-125	1	20	
Thallium	mg/L	ND	0.1	0.1	0.094	0.095	94	94	75-125	0	20	

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QUALITY CONTROL DATA

Project: Hammond AP-1 (CA)-20240904
Pace Project No.: 92752167

QC Batch: 882891 Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92752167001, 92752167002, 92752167003, 92752167004, 92752167005, 92752167006, 92752167007, 92752167008, 92752167009, 92752167010, 92752167011, 92752167012

METHOD BLANK: 4546909 Matrix: Water
Associated Lab Samples: 92752167001, 92752167002, 92752167003, 92752167004, 92752167005, 92752167006, 92752167007, 92752167008, 92752167009, 92752167010, 92752167011, 92752167012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	09/17/24 10:11	

LABORATORY CONTROL SAMPLE: 4546910

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0024	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4546911 4546912

Parameter	Units	92752167003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0028	0.0025	110	99	75-125	11	20	

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QUALITY CONTROL DATA

Project: Hammond AP-1 (CA)-20240904
Pace Project No.: 92752167

QC Batch: 881518 | Analysis Method: SM 2540C-2015
QC Batch Method: SM 2540C-2015 | Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92752167001, 92752167003, 92752167004, 92752167005, 92752167006

METHOD BLANK: 4539487 Matrix: Water
Associated Lab Samples: 92752167001, 92752167003, 92752167004, 92752167005, 92752167006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	09/10/24 12:49	

LABORATORY CONTROL SAMPLE: 4539488

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	393	98	80-120	

SAMPLE DUPLICATE: 4539489

Parameter	Units	92745448001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	9160	9160	0	10	H1

SAMPLE DUPLICATE: 4539490

Parameter	Units	92751692003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1320	1310	0	10	

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QUALITY CONTROL DATA

Project: Hammond AP-1 (CA)-20240904
Pace Project No.: 92752167

QC Batch: 881821 | Analysis Method: SM 2540C-2015
QC Batch Method: SM 2540C-2015 | Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92752167002, 92752167007, 92752167008, 92752167009, 92752167010, 92752167011, 92752167012

METHOD BLANK: 4541049 Matrix: Water
Associated Lab Samples: 92752167002, 92752167007, 92752167008, 92752167009, 92752167010, 92752167011, 92752167012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	09/11/24 13:43	

LABORATORY CONTROL SAMPLE: 4541050

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	425	106	80-120	

SAMPLE DUPLICATE: 4541051

Parameter	Units	92752167007 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	570	598	5	10	

SAMPLE DUPLICATE: 4541052

Parameter	Units	92751700009 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1220	1220	0	10	

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QUALITY CONTROL DATA

Project: Hammond AP-1 (CA)-20240904
Pace Project No.: 92752167

QC Batch: 881613
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92752167001, 92752167003, 92752167004, 92752167005, 92752167006, 92752167007, 92752167009

METHOD BLANK: 4540209 Matrix: Water
Associated Lab Samples: 92752167001, 92752167003, 92752167004, 92752167005, 92752167006, 92752167007, 92752167009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	09/11/24 12:15	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	09/11/24 12:15	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	09/11/24 12:15	

LABORATORY CONTROL SAMPLE: 4540210

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	52.0	104	80-120	

LABORATORY CONTROL SAMPLE: 4540211

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.4	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4540212 4540213

Parameter	Units	92752097001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	43.2	50	50	91.4	92.4	97	98	80-120	1	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4540214 4540215

Parameter	Units	92752097002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	60.7	50	50	112	112	102	102	80-120	0	25	

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QUALITY CONTROL DATA

Project: Hammond AP-1 (CA)-20240904
Pace Project No.: 92752167

QC Batch: 881617
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92752167002, 92752167008, 92752167010, 92752167011, 92752167012

METHOD BLANK: 4540224 Matrix: Water
Associated Lab Samples: 92752167002, 92752167008, 92752167010, 92752167011, 92752167012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	09/11/24 16:20	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	09/11/24 16:20	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	09/11/24 16:20	

LABORATORY CONTROL SAMPLE: 4540225

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	52.3	105	80-120	

LABORATORY CONTROL SAMPLE: 4540226

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	52.1	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4540227 4540228

Parameter	Units	92752128010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	68.8	50	50	84.8	84.3	32	31	80-120	1	25	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4540229 4540230

Parameter	Units	92752128011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	37.0	50	50	71.7	72.0	69	70	80-120	0	25	M1

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QUALITY CONTROL DATA

Project: Hammond AP-1 (CA)-20240904
Pace Project No.: 92752167

QC Batch: 881394 | Analysis Method: SM 4500-S2D-2011
QC Batch Method: SM 4500-S2D-2011 | Analysis Description: 4500S2D Sulfide Water
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92752167001, 92752167002, 92752167003, 92752167004, 92752167005, 92752167006, 92752167007, 92752167008, 92752167009, 92752167010, 92752167011, 92752167012

METHOD BLANK: 4539194 Matrix: Water
Associated Lab Samples: 92752167001, 92752167002, 92752167003, 92752167004, 92752167005, 92752167006, 92752167007, 92752167008, 92752167009, 92752167010, 92752167011, 92752167012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	0.022	09/10/24 04:20	

LABORATORY CONTROL SAMPLE: 4539195

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	0.45	90	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4539196 4539197

Parameter	Units	92751700001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.49	0.54	97	108	80-120	10	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4539198 4539199

Parameter	Units	92752167009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.51	0.54	101	107	80-120	5	10	

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REPORT OF LABORATORY ANALYSIS

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Hammond AP-1 (CA)-20240904
Pace Project No.: 92752167

QC Batch: 881368
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92752167001

METHOD BLANK: 4539005 Matrix: Water
Associated Lab Samples: 92752167001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/09/24 21:06	
Fluoride	mg/L	ND	0.10	0.050	09/09/24 21:06	
Sulfate	mg/L	ND	1.0	0.50	09/09/24 21:06	

LABORATORY CONTROL SAMPLE: 4539006

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	51.6	103	90-110	
Fluoride	mg/L	2.5	2.7	108	90-110	
Sulfate	mg/L	50	52.1	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4539007 4539008

Parameter	Units	92751585003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	61.8	50	50	96.7	101	70	78	90-110	4	10	M1
Fluoride	mg/L		2.5	2.5	3.4	3.6	109	116	90-110	5	10	M1
Sulfate	mg/L	47.9	50	50	97.0	88.0	98	80	90-110	10	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4539009 4539010

Parameter	Units	92752128005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	13.0	50	50	62.5	66.4	99	107	90-110	6	10	
Fluoride	mg/L	0.60	2.5	2.5	4.2	4.6	146	159	90-110	7	10	M1
Sulfate	mg/L	2770	50	50	2810	2900	86	272	90-110	3	10	M1

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QUALITY CONTROL DATA

Project: Hammond AP-1 (CA)-20240904
Pace Project No.: 92752167

QC Batch: 881369
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92752167002, 92752167003, 92752167005, 92752167006, 92752167007, 92752167008, 92752167009, 92752167010, 92752167011, 92752167012

METHOD BLANK: 4539017 Matrix: Water
Associated Lab Samples: 92752167002, 92752167003, 92752167005, 92752167006, 92752167007, 92752167008, 92752167009, 92752167010, 92752167011, 92752167012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/09/24 21:38	
Fluoride	mg/L	ND	0.10	0.050	09/09/24 21:38	
Sulfate	mg/L	ND	1.0	0.50	09/09/24 21:38	

LABORATORY CONTROL SAMPLE: 4539018

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	51.6	103	90-110	
Fluoride	mg/L	2.5	2.7	107	90-110	
Sulfate	mg/L	50	52.0	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4539019 4539020

Parameter	Units	92752167002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	19.3	50	50	69.0	73.0	99	107	90-110	6	10	
Fluoride	mg/L	0.16	2.5	2.5	2.7	3.0	103	112	90-110	8	10	M1
Sulfate	mg/L	193	50	50	237	237	89	89	90-110	0	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4539021 4539022

Parameter	Units	92751692006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	5.4	50	50	55.1	59.2	99	108	90-110	7	10	
Fluoride	mg/L	0.12	2.5	2.5	2.8	3.0	106	116	90-110	9	10	M1
Sulfate	mg/L	155	50	50	195	195	80	80	90-110	0	10	M1

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QUALITY CONTROL DATA

Project: Hammond AP-1 (CA)-20240904
Pace Project No.: 92752167

QC Batch: 881544
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92752167004

METHOD BLANK: 4539722 Matrix: Water
Associated Lab Samples: 92752167004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/10/24 14:58	
Fluoride	mg/L	ND	0.10	0.050	09/10/24 14:58	
Sulfate	mg/L	ND	1.0	0.50	09/10/24 14:58	

LABORATORY CONTROL SAMPLE: 4539723

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.9	102	90-110	
Fluoride	mg/L	2.5	2.6	102	90-110	
Sulfate	mg/L	50	50.8	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4539724 4539725

Parameter	Units	92751585001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	54.2	50	50	83.3	77.1	58	46	90-110	8	10	M1
Fluoride	mg/L		2.5	2.5	2.4	2.6	97	102	90-110	5	10	
Sulfate	mg/L	30.4	50	50	79.4	81.7	98	103	90-110	3	10	

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QUALIFIERS

Project: Hammond AP-1 (CA)-20240904
Pace Project No.: 92752167

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

H1	Analysis conducted outside the EPA method holding time.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Hammond AP-1 (CA)-20240904
Pace Project No.: 92752167

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92752167001	**HAM-PT-07**	EPA 3010A	881937	EPA 6010D	882242
92752167002	**HAM-PT-08**	EPA 3010A	881937	EPA 6010D	882242
92752167003	**HAM-PT-09**	EPA 3010A	881937	EPA 6010D	882242
92752167004	**HAM-PT-10**	EPA 3010A	881937	EPA 6010D	882242
92752167005	**HAM-PT-11**	EPA 3010A	881937	EPA 6010D	882242
92752167006	**HAM-PT-12**	EPA 3010A	881937	EPA 6010D	882242
92752167007	**HAM-PT-13**	EPA 3010A	881937	EPA 6010D	882242
92752167008	**HAM-PT-14**	EPA 3010A	881937	EPA 6010D	882242
92752167009	**HAM-PT-15**	EPA 3010A	881937	EPA 6010D	882242
92752167010	**HAM-AP1-EB-01**	EPA 3010A	881937	EPA 6010D	882242
92752167011	**HAM-AP1-FB-01**	EPA 3010A	881937	EPA 6010D	882242
92752167012	**HAM-AP1-FD-01**	EPA 3010A	881937	EPA 6010D	882242
92752167001	**HAM-PT-07**	EPA 3005A	881820	EPA 6020B	881940
92752167002	**HAM-PT-08**	EPA 3005A	881820	EPA 6020B	881940
92752167003	**HAM-PT-09**	EPA 3005A	881820	EPA 6020B	881940
92752167004	**HAM-PT-10**	EPA 3005A	881820	EPA 6020B	881940
92752167005	**HAM-PT-11**	EPA 3005A	881820	EPA 6020B	881940
92752167006	**HAM-PT-12**	EPA 3005A	881820	EPA 6020B	881940
92752167007	**HAM-PT-13**	EPA 3005A	881820	EPA 6020B	881940
92752167008	**HAM-PT-14**	EPA 3005A	881820	EPA 6020B	881940
92752167009	**HAM-PT-15**	EPA 3005A	881820	EPA 6020B	881940
92752167010	**HAM-AP1-EB-01**	EPA 3005A	881820	EPA 6020B	881940
92752167011	**HAM-AP1-FB-01**	EPA 3005A	881820	EPA 6020B	881940
92752167012	**HAM-AP1-FD-01**	EPA 3005A	881820	EPA 6020B	881940
92752167001	**HAM-PT-07**	EPA 7470A	882891	EPA 7470A	883081
92752167002	**HAM-PT-08**	EPA 7470A	882891	EPA 7470A	883081
92752167003	**HAM-PT-09**	EPA 7470A	882891	EPA 7470A	883081
92752167004	**HAM-PT-10**	EPA 7470A	882891	EPA 7470A	883081
92752167005	**HAM-PT-11**	EPA 7470A	882891	EPA 7470A	883081
92752167006	**HAM-PT-12**	EPA 7470A	882891	EPA 7470A	883081
92752167007	**HAM-PT-13**	EPA 7470A	882891	EPA 7470A	883081
92752167008	**HAM-PT-14**	EPA 7470A	882891	EPA 7470A	883081
92752167009	**HAM-PT-15**	EPA 7470A	882891	EPA 7470A	883081
92752167010	**HAM-AP1-EB-01**	EPA 7470A	882891	EPA 7470A	883081
92752167011	**HAM-AP1-FB-01**	EPA 7470A	882891	EPA 7470A	883081
92752167012	**HAM-AP1-FD-01**	EPA 7470A	882891	EPA 7470A	883081
92752167001	**HAM-PT-07**	SM 2540C-2015	881518		
92752167002	**HAM-PT-08**	SM 2540C-2015	881821		
92752167003	**HAM-PT-09**	SM 2540C-2015	881518		
92752167004	**HAM-PT-10**	SM 2540C-2015	881518		
92752167005	**HAM-PT-11**	SM 2540C-2015	881518		
92752167006	**HAM-PT-12**	SM 2540C-2015	881518		
92752167007	**HAM-PT-13**	SM 2540C-2015	881821		
92752167008	**HAM-PT-14**	SM 2540C-2015	881821		
92752167009	**HAM-PT-15**	SM 2540C-2015	881821		
92752167010	**HAM-AP1-EB-01**	SM 2540C-2015	881821		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Hammond AP-1 (CA)-20240904
Pace Project No.: 92752167

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92752167011	**HAM-AP1-FB-01**	SM 2540C-2015	881821		
92752167012	**HAM-AP1-FD-01**	SM 2540C-2015	881821		
92752167001	**HAM-PT-07**	SM 2320B-2011	881613		
92752167002	**HAM-PT-08**	SM 2320B-2011	881617		
92752167003	**HAM-PT-09**	SM 2320B-2011	881613		
92752167004	**HAM-PT-10**	SM 2320B-2011	881613		
92752167005	**HAM-PT-11**	SM 2320B-2011	881613		
92752167006	**HAM-PT-12**	SM 2320B-2011	881613		
92752167007	**HAM-PT-13**	SM 2320B-2011	881613		
92752167008	**HAM-PT-14**	SM 2320B-2011	881617		
92752167009	**HAM-PT-15**	SM 2320B-2011	881613		
92752167010	**HAM-AP1-EB-01**	SM 2320B-2011	881617		
92752167011	**HAM-AP1-FB-01**	SM 2320B-2011	881617		
92752167012	**HAM-AP1-FD-01**	SM 2320B-2011	881617		
92752167001	**HAM-PT-07**	SM 4500-S2D-2011	881394		
92752167002	**HAM-PT-08**	SM 4500-S2D-2011	881394		
92752167003	**HAM-PT-09**	SM 4500-S2D-2011	881394		
92752167004	**HAM-PT-10**	SM 4500-S2D-2011	881394		
92752167005	**HAM-PT-11**	SM 4500-S2D-2011	881394		
92752167006	**HAM-PT-12**	SM 4500-S2D-2011	881394		
92752167007	**HAM-PT-13**	SM 4500-S2D-2011	881394		
92752167008	**HAM-PT-14**	SM 4500-S2D-2011	881394		
92752167009	**HAM-PT-15**	SM 4500-S2D-2011	881394		
92752167010	**HAM-AP1-EB-01**	SM 4500-S2D-2011	881394		
92752167011	**HAM-AP1-FB-01**	SM 4500-S2D-2011	881394		
92752167012	**HAM-AP1-FD-01**	SM 4500-S2D-2011	881394		
92752167001	**HAM-PT-07**	EPA 300.0 Rev 2.1 1993	881368		
92752167002	**HAM-PT-08**	EPA 300.0 Rev 2.1 1993	881369		
92752167003	**HAM-PT-09**	EPA 300.0 Rev 2.1 1993	881369		
92752167004	**HAM-PT-10**	EPA 300.0 Rev 2.1 1993	881544		
92752167005	**HAM-PT-11**	EPA 300.0 Rev 2.1 1993	881369		
92752167006	**HAM-PT-12**	EPA 300.0 Rev 2.1 1993	881369		
92752167007	**HAM-PT-13**	EPA 300.0 Rev 2.1 1993	881369		
92752167008	**HAM-PT-14**	EPA 300.0 Rev 2.1 1993	881369		
92752167009	**HAM-PT-15**	EPA 300.0 Rev 2.1 1993	881369		
92752167010	**HAM-AP1-EB-01**	EPA 300.0 Rev 2.1 1993	881369		
92752167011	**HAM-AP1-FB-01**	EPA 300.0 Rev 2.1 1993	881369		
92752167012	**HAM-AP1-FD-01**	EPA 300.0 Rev 2.1 1993	881369		

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WO# : 92752167

92752167

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CHAIN-OF-CUSTODY / Analytical Request D

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be complete

Page: 1 of 1

Section A Required Client Information:

Company:	GA Power
Address:	Atlanta, GA
Email To:	SCS Contacts
Phone:	Fax:
Requested Due Date/TAT:	10 Day

Section B Required Project Information:

Report To:	SCS Contacts
Copy To:	Geosyntec Contacts
Purchase Order No.:	GPC82474-0001
Project Name:	Hammond AP-1
Project Number:	

Section C Invoice Information:

Attention:	Southern Co.
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	Bonnie Vang
Pace Profile #:	10839

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER

☐ UST ☐ RCRA ☑ OTHER CCR

Site Location STATE: GA

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE DATE	COLLECTED COMPOSITE TIME	COLLECTED COMPOSITE DATE	COLLECTED COMPOSITE TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	Chloride, Fluoride, Sulfate	Full App. III and IV metals	Major Ions (Profile 10839-2)	TDS	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
																		Y/N	N	N	N	N		
1	HAM-PT-07	WG	G	9/4/2024	1538			20	5	3		1					1		X	X	X	X	N	001
2	HAM-PT-08	WG	G	9/5/2024	1247			20	5	3		1					1		X	X	X	X	N	002
3	HAM-PT-09	WG	G	9/4/2024	1320			22	5	3		1					1		X	X	X	X	N	003
4	HAM-PT-10	WG	G	9/4/2024	1135	IN 9/5/2024		22	5	3		1					1		X	X	X	X	N	004
5	HAM-PT-11	WG	G	9/4/2024	1125			22	5	3		1					1		X	X	X	X	N	005
6	HAM-PT-12	WG	G	9/4/2024	1525			22	5	3		1					1		X	X	X	X	N	006
7	HAM-PT-13	WG	G	9/4/2024	1400			21	5	3		1					1		X	X	X	X	N	007
8	HAM-PT-14	WG	G	9/5/2024	1135			21	5	3		1					1		X	X	X	X	N	008
9	HAM-PT-15	WG	G	9/4/2024	1610			20	5	3		1					1		X	X	X	X	N	009
10	HAM-AP1-EB-01	WQ	G	9/5/2024	1435			20	5	3		1					1		X	X	X	X	N	010
11	HAM-AP1-FB-01	WQ	G	9/5/2024	1430			20	5	3		1					1		X	X	X	X	N	011
12	HAM-AP1-FD-01	WG	G	9/5/2024	0000			20	5	3		1					1		X	X	X	X	N	012

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Task Code: HAM-CCR-CA-20240904	Jamie Newsome / Geosyntec	9/6/24	1154	Ryan Williams / Pace	9/6/24	1154	
	Ryan Williams / Pace	9/6/24	1245		9/6/24	1245	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jamie Newsome / Geosyntec Consultants, Inc.

SIGNATURE of SAMPLER: Jamie Newsome DATE Signed (MM/DD/YY): 9/5/24

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-Feb-2007

Pace

DC#_Title: ENV-FRM-HUNT-0063 v03_Sample Condition Upon Receipt

Effective Date: 05/24/2024

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ M

WO# : 92752167

PM: BV **Due Date: 09/20/24**

CLIENT: 92- GP-HAM

Sample Condition Upon Receipt

Client Name: GA Power

Project #

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace ☐ Other:

Custody Seal Present? ☑ Yes ☐ No Seals Intact? ☑ Yes ☐ No ☐ N/A

Date/Initials Person Examining Contents: 9/16/24 SH

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer:
☑ IR Gun ID: 230 Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 3.1 Correction Factor: Add/Subtract (°C) 0.0

Cooler Temp Corrected (°C): 3.1

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: W				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☐ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

Pace

DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg
**Bottom half of box is to list number of bottles
***Check all unpreserved Nitrates for chlorine

Project #

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Client_____ Profile/EZ (Circle one)_____ Notes_____

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)		BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG4U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG9H-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3N-250 mL Plastic (NH2)2SO4 (0.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG8U-40 mL Amber Unpreserved vials (N/A)
CC																													
1		2	1				1																						
2		2					1																						
3		2					1																						
4		2					1																						
5		2					1																						
6		2					1																						
7		2					1																						
8		2					1																						
9		2					1																						
10		2					1																						
11		2					1																						
12		2					1																						

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

October 21, 2024

Kristen Jurinko
Southern Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, GA 30308

RE: Project: Hammond AP-1_Week 1
Pace Project No.: 92756037

Dear Kristen Jurinko:

Enclosed are the analytical results for sample(s) received by the laboratory on September 26, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Duluth, MN
- Pace Analytical Services - Peachtree Corners, GA
- Pace Analytical Services - Minneapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Bonnie Vang

Bonnie Vang
bonnie.vang@pacelabs.com
704-977-0968
Project Manager

Enclosures

cc: Kip Gray, Geosyntec
Christine Hug, Geosyntec Consultants, Inc.
Thomas Kessler, Geosyntec Consultants
Whitney Law, Geosyntec Consultants
Laura Midkiff, Southern Company
Caroline Nelson, Geosyntec Consultants, Inc
Jamie Newsome, Geosyntec Consultants
Zain Webb, Geosyntec Consultants

REPORT OF LABORATORY ANALYSIS

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: Hammond AP-1_Week 1
Pace Project No.: 92756037

Pace Analytical Services, LLC - Minneapolis MN
1700 Elm Street SE, Minneapolis, MN 55414
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
DoD Certification via A2LA #: 2926.01
EPA Region 8 Tribal Water Systems+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
GMP+ Certification #: GMP050884
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
ISO/IEC 17025 Certification via A2LA #: 2926.01
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: AI-03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137
Minnesota Dept of Ag Approval: via MN 027-053-137
Minnesota Petrofund Registration #: 1240
Mississippi Certification #: MN00064
Missouri Certification #: 10100
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification (A2LA) #: R-036
North Dakota Certification (MN) #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification (1700) #: CL101
Oklahoma Certification #: 9507
Oregon Primary Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Vermont Certification #: VT-027053137
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DEP Certification #: 382
West Virginia DW Certification #: 9952 C
Wisconsin Certification #: 999407970
Wyoming UST Certification via A2LA #: 2926.01
USDA Permit #: P330-19-00208

Pace Analytical Services, LLC - Duluth MN
4730 Oneota Street, Duluth, MN 55807
Minnesota Certification #: 027-137-152
Minnesota Dept of Ag Approval: via Minnesota 027-137-152
Minnesota Petrofund Registration #: 1240
North Dakota Certification #: R-105
Wisconsin Certification #: 999446800
Wisconsin Dept of Ag Certification #: 480341

Pace Analytical Services Peachtree Corners
110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812
North Carolina Certification #: 381
South Carolina Certification #: 98011001
Virginia Certification #: 460204

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SAMPLE SUMMARY

Project: Hammond AP-1_Week 1
Pace Project No.: 92756037

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92756037001	**HAM-PT-07**	Water	09/24/24 16:20	09/26/24 11:40
92756037002	**HAM-PT-08**	Water	09/24/24 14:31	09/26/24 11:40
92756037003	**HAM-PT-09**	Water	09/25/24 12:30	09/26/24 11:40
92756037004	**HAM-PT-10**	Water	09/25/24 10:00	09/26/24 11:40
92756037005	**HAM-PT-11**	Water	09/25/24 14:54	09/26/24 11:40
92756037006	**HAM-PT-12**	Water	09/25/24 16:50	09/26/24 11:40
92756037007	**HAM-PT-13**	Water	09/24/24 12:25	09/26/24 11:40
92756037008	**HAM-PT-14**	Water	09/24/24 14:40	09/26/24 11:40
92756037009	**HAM-PT-15**	Water	09/24/24 11:03	09/26/24 11:40
92756037010	**HAM-AP1-FD-01**	Water	09/24/24 00:00	09/26/24 11:40
92756037011	**HAM-AP1-FB-01**	Water	09/25/24 17:40	09/26/24 11:40
92756037012	**HAM-AP1-EB-01**	Water	09/25/24 17:45	09/26/24 11:40

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SAMPLE ANALYTE COUNT

Project: Hammond AP-1_Week 1
Pace Project No.: 92756037

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92756037001	**HAM-PT-07**	EPA 300.0	JA2	3	PASI-DU
		SM 4500-S2 D-2011	DW3	1	PASI-DU
		EPA 6010D	DRB	6	PASI-GA
		EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	DL1	1	PASI-GA
		SM 2320B	KEO	3	PASI-M
92756037002	**HAM-PT-08**	EPA 300.0	JA2	3	PASI-DU
		SM 4500-S2 D-2011	DW3	1	PASI-DU
		EPA 6010D	DRB	6	PASI-GA
		EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	DL1	1	PASI-GA
		SM 2320B	KEO	3	PASI-M
92756037003	**HAM-PT-09**	EPA 300.0	JA2	3	PASI-DU
		SM 4500-S2 D-2011	DW3	1	PASI-DU
		EPA 6010D	DRB	6	PASI-GA
		EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	DL1	1	PASI-GA
		SM 2320B	KEO	3	PASI-M
92756037004	**HAM-PT-10**	EPA 300.0	JA2	3	PASI-DU
		SM 4500-S2 D-2011	DW3	1	PASI-DU
		EPA 6010D	DRB	6	PASI-GA
		EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	DL1	1	PASI-GA
		SM 2320B	KEO	3	PASI-M
92756037005	**HAM-PT-11**	EPA 300.0	JA2	3	PASI-DU
		SM 4500-S2 D-2011	DW3	1	PASI-DU
		EPA 6010D	DRB	6	PASI-GA
		EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	DL1	1	PASI-GA
		SM 2320B	KEO	3	PASI-M
92756037006	**HAM-PT-12**	EPA 300.0	JA2	3	PASI-DU
		SM 4500-S2 D-2011	DW3	1	PASI-DU

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SAMPLE ANALYTE COUNT

Project: Hammond AP-1_Week 1
Pace Project No.: 92756037

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 6010D	DRB	6	PASI-GA
		EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	DL1	1	PASI-GA
		SM 2320B	KEO	3	PASI-M
92756037007	**HAM-PT-13**	EPA 300.0	JA2	3	PASI-DU
		SM 4500-S2 D-2011	DW3	1	PASI-DU
		EPA 6010D	DRB	6	PASI-GA
		EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	DL1	1	PASI-GA
		SM 2320B	KEO	3	PASI-M
92756037008	**HAM-PT-14**	EPA 300.0	JA2	3	PASI-DU
		SM 4500-S2 D-2011	DW3	1	PASI-DU
		EPA 6010D	DRB	6	PASI-GA
		EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	DL1	1	PASI-GA
		SM 2320B	KEO	3	PASI-M
92756037009	**HAM-PT-15**	EPA 300.0	JA2	3	PASI-DU
		SM 4500-S2 D-2011	DW3	1	PASI-DU
		EPA 6010D	DRB	6	PASI-GA
		EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	DL1	1	PASI-GA
		SM 2320B	KEO	3	PASI-M
92756037010	**HAM-AP1-FD-01**	EPA 300.0	JA2	3	PASI-DU
		SM 4500-S2 D-2011	DW3	1	PASI-DU
		EPA 6010D	DRB	6	PASI-GA
		EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	DL1	1	PASI-GA
		SM 2320B	KEO	3	PASI-M
92756037011	**HAM-AP1-FB-01**	EPA 300.0	JA2	3	PASI-DU
		SM 4500-S2 D-2011	DW3	1	PASI-DU
		EPA 6010D	DRB	6	PASI-GA
		EPA 6020B	CW1	13	PASI-GA

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Hammond AP-1_Week 1
Pace Project No.: 92756037

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	DL1	1	PASI-GA
		SM 2320B	KEO	3	PASI-M
92756037012	**HAM-AP1-EB-01**	EPA 300.0	JA2	3	PASI-DU
		SM 4500-S2 D-2011	DW3	1	PASI-DU
		EPA 6010D	DRB	6	PASI-GA
		EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	DL1	1	PASI-GA
		SM 2320B	KEO	3	PASI-M

PASI-DU = Pace Analytical Services - Duluth, MN
PASI-GA = Pace Analytical Services - Peachtree Corners, GA
PASI-M = Pace Analytical Services - Minneapolis

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SUMMARY OF DETECTION

Project: Hammond AP-1_Week 1
Pace Project No.: 92756037

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92756037001	**HAM-PT-07**					
EPA 300.0	Chloride	17.5	mg/L	1.0	10/16/24 10:35	
EPA 300.0	Fluoride	0.26	mg/L	0.050	10/16/24 10:35	
EPA 300.0	Sulfate	249	mg/L	1.0	10/16/24 10:35	
EPA 6010D	Iron	0.54	mg/L	0.040	10/02/24 11:58	
EPA 6010D	Manganese	2.4	mg/L	0.040	10/02/24 11:58	
EPA 6010D	Potassium	5.9	mg/L	0.50	10/02/24 11:58	
EPA 6010D	Sodium	10.2	mg/L	1.0	10/02/24 11:58	
EPA 6010D	Calcium	128	mg/L	1.0	10/02/24 11:58	
EPA 6010D	Magnesium	18.7	mg/L	0.050	10/02/24 11:58	
EPA 6020B	Antimony	0.00056J	mg/L	0.0030	10/01/24 17:44	
EPA 6020B	Arsenic	0.016	mg/L	0.0050	10/01/24 17:44	B
EPA 6020B	Barium	0.056	mg/L	0.0050	10/01/24 17:44	
EPA 6020B	Beryllium	0.00012J	mg/L	0.00050	10/01/24 17:44	
EPA 6020B	Boron	0.54	mg/L	0.040	10/01/24 17:44	
EPA 6020B	Cadmium	0.00015J	mg/L	0.00050	10/01/24 17:44	
EPA 6020B	Cobalt	0.031	mg/L	0.0050	10/01/24 17:44	
EPA 6020B	Lithium	0.048	mg/L	0.030	10/01/24 17:44	
EPA 6020B	Molybdenum	0.0054J	mg/L	0.010	10/01/24 17:44	
EPA 6020B	Selenium	0.0011J	mg/L	0.0050	10/01/24 17:44	
EPA 6020B	Thallium	0.00067J	mg/L	0.0010	10/01/24 17:44	
SM 2540C-2015	Total Dissolved Solids	559	mg/L	25.0	10/01/24 15:58	
SM 2320B	Alkalinity, Total as CaCO3	136	mg/L	5.0	10/07/24 09:09	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	136	mg/L	5.0	10/07/24 09:09	
92756037002	**HAM-PT-08**					
EPA 300.0	Chloride	17.1	mg/L	1.0	10/16/24 11:20	
EPA 300.0	Fluoride	0.25	mg/L	0.050	10/16/24 11:20	
EPA 300.0	Sulfate	239	mg/L	1.0	10/16/24 11:20	
EPA 6010D	Iron	1.1	mg/L	0.040	10/02/24 12:03	
EPA 6010D	Manganese	2.5	mg/L	0.040	10/02/24 12:03	
EPA 6010D	Potassium	5.3	mg/L	0.50	10/02/24 12:03	
EPA 6010D	Sodium	9.1	mg/L	1.0	10/02/24 12:03	
EPA 6010D	Calcium	112	mg/L	1.0	10/02/24 12:03	M1
EPA 6010D	Magnesium	14.3	mg/L	0.050	10/02/24 12:03	M1
EPA 6020B	Antimony	0.0012J	mg/L	0.0030	10/01/24 17:59	
EPA 6020B	Arsenic	0.021	mg/L	0.0050	10/01/24 17:59	
EPA 6020B	Barium	0.050	mg/L	0.0050	10/01/24 17:59	
EPA 6020B	Beryllium	0.00013J	mg/L	0.00050	10/01/24 17:59	
EPA 6020B	Boron	0.61	mg/L	0.040	10/01/24 17:59	
EPA 6020B	Cadmium	0.00018J	mg/L	0.00050	10/01/24 17:59	
EPA 6020B	Cobalt	0.022	mg/L	0.0050	10/01/24 17:59	
EPA 6020B	Lithium	0.035	mg/L	0.030	10/01/24 17:59	
EPA 6020B	Molybdenum	0.0098J	mg/L	0.010	10/01/24 17:59	
EPA 6020B	Selenium	0.0013J	mg/L	0.0050	10/01/24 17:59	
EPA 6020B	Thallium	0.00050J	mg/L	0.0010	10/01/24 17:59	
SM 2540C-2015	Total Dissolved Solids	490	mg/L	25.0	10/01/24 15:58	
SM 2320B	Alkalinity, Total as CaCO3	91.8	mg/L	5.0	10/07/24 09:27	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	91.8	mg/L	5.0	10/07/24 09:27	

REPORT OF LABORATORY ANALYSIS

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Huntersville, NC 28078
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SUMMARY OF DETECTION

Project: Hammond AP-1_Week 1
Pace Project No.: 92756037

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92756037003	**HAM-PT-09**					
EPA 300.0	Chloride	39.4	mg/L	1.0	10/16/24 12:05	
EPA 300.0	Fluoride	0.33	mg/L	0.050	10/16/24 12:05	
EPA 300.0	Sulfate	236	mg/L	1.0	10/16/24 12:05	
EPA 6010D	Iron	0.24	mg/L	0.040	10/02/24 12:22	
EPA 6010D	Manganese	0.73	mg/L	0.040	10/02/24 12:22	
EPA 6010D	Potassium	5.8	mg/L	0.50	10/02/24 12:22	
EPA 6010D	Sodium	7.0	mg/L	1.0	10/02/24 12:22	
EPA 6010D	Calcium	111	mg/L	1.0	10/02/24 12:22	
EPA 6010D	Magnesium	27.2	mg/L	0.050	10/02/24 12:22	
EPA 6020B	Arsenic	0.0034J	mg/L	0.0050	10/01/24 18:03	B
EPA 6020B	Barium	0.089	mg/L	0.0050	10/01/24 18:03	
EPA 6020B	Boron	1.2	mg/L	0.040	10/01/24 18:03	
EPA 6020B	Cadmium	0.00030J	mg/L	0.00050	10/01/24 18:03	
EPA 6020B	Cobalt	0.0066	mg/L	0.0050	10/01/24 18:03	
EPA 6020B	Lithium	0.0035J	mg/L	0.030	10/01/24 18:03	
EPA 6020B	Molybdenum	0.14	mg/L	0.010	10/01/24 18:03	
SM 2540C-2015	Total Dissolved Solids	547	mg/L	25.0	10/01/24 16:01	
SM 2320B	Alkalinity, Total as CaCO3	112	mg/L	5.0	10/07/24 09:31	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	112	mg/L	5.0	10/07/24 09:31	
92756037004	**HAM-PT-10**					
EPA 300.0	Chloride	49.6	mg/L	1.0	10/16/24 12:20	
EPA 300.0	Fluoride	0.32	mg/L	0.050	10/16/24 12:20	
EPA 300.0	Sulfate	158	mg/L	1.0	10/16/24 12:20	
EPA 6010D	Iron	0.060	mg/L	0.040	10/02/24 12:27	
EPA 6010D	Manganese	0.43	mg/L	0.040	10/02/24 12:27	
EPA 6010D	Potassium	6.6	mg/L	0.50	10/02/24 12:27	
EPA 6010D	Sodium	9.0	mg/L	1.0	10/02/24 12:27	
EPA 6010D	Calcium	113	mg/L	1.0	10/02/24 12:27	
EPA 6010D	Magnesium	14.2	mg/L	0.050	10/02/24 12:27	
EPA 6020B	Arsenic	0.0024J	mg/L	0.0050	10/01/24 18:07	B
EPA 6020B	Barium	0.053	mg/L	0.0050	10/01/24 18:07	
EPA 6020B	Boron	1.6	mg/L	0.040	10/01/24 18:07	
EPA 6020B	Cadmium	0.00017J	mg/L	0.00050	10/01/24 18:07	
EPA 6020B	Chromium	0.0039J	mg/L	0.0050	10/01/24 18:07	
EPA 6020B	Cobalt	0.0019J	mg/L	0.0050	10/01/24 18:07	
EPA 6020B	Molybdenum	0.23	mg/L	0.010	10/01/24 18:07	
SM 2540C-2015	Total Dissolved Solids	521	mg/L	25.0	10/01/24 16:01	
SM 2320B	Alkalinity, Total as CaCO3	131	mg/L	5.0	10/07/24 09:36	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	131	mg/L	5.0	10/07/24 09:36	
92756037005	**HAM-PT-11**					
EPA 300.0	Chloride	48.3	mg/L	1.0	10/16/24 13:05	
EPA 300.0	Fluoride	0.33	mg/L	0.050	10/16/24 13:05	
EPA 300.0	Sulfate	200	mg/L	1.0	10/16/24 13:05	
EPA 6010D	Iron	3.7	mg/L	0.040	10/02/24 12:32	
EPA 6010D	Manganese	1.4	mg/L	0.040	10/02/24 12:32	
EPA 6010D	Potassium	5.6	mg/L	0.50	10/02/24 12:32	

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SUMMARY OF DETECTION

Project: Hammond AP-1_Week 1
Pace Project No.: 92756037

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92756037005	**HAM-PT-11**					
EPA 6010D	Sodium	8.1	mg/L	1.0	10/02/24 12:32	
EPA 6010D	Calcium	109	mg/L	1.0	10/02/24 12:32	
EPA 6010D	Magnesium	20.3	mg/L	0.050	10/02/24 12:32	
EPA 6020B	Arsenic	0.0031J	mg/L	0.0050	10/01/24 18:10	B
EPA 6020B	Barium	0.078	mg/L	0.0050	10/01/24 18:10	
EPA 6020B	Boron	1.5	mg/L	0.040	10/01/24 18:10	
EPA 6020B	Cadmium	0.00030J	mg/L	0.00050	10/01/24 18:10	
EPA 6020B	Cobalt	0.025	mg/L	0.0050	10/01/24 18:10	
EPA 6020B	Lithium	0.0067J	mg/L	0.030	10/01/24 18:10	
EPA 6020B	Molybdenum	0.074	mg/L	0.010	10/01/24 18:10	
SM 2540C-2015	Total Dissolved Solids	546	mg/L	25.0	10/01/24 16:02	
SM 2320B	Alkalinity, Total as CaCO3	98.0	mg/L	5.0	10/07/24 09:41	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	98.0	mg/L	5.0	10/07/24 09:41	
92756037006	**HAM-PT-12**					
EPA 300.0	Chloride	22.9	mg/L	1.0	10/16/24 13:20	
EPA 300.0	Fluoride	0.27	mg/L	0.050	10/16/24 13:20	
EPA 300.0	Sulfate	266	mg/L	1.0	10/16/24 13:20	
EPA 6010D	Iron	0.21	mg/L	0.040	10/02/24 12:50	
EPA 6010D	Manganese	2.6	mg/L	0.040	10/02/24 12:50	
EPA 6010D	Potassium	5.1	mg/L	0.50	10/02/24 12:50	
EPA 6010D	Sodium	6.1	mg/L	1.0	10/02/24 12:50	
EPA 6010D	Calcium	106	mg/L	1.0	10/02/24 12:50	
EPA 6010D	Magnesium	30.0	mg/L	0.050	10/02/24 12:50	
EPA 6020B	Arsenic	0.0031J	mg/L	0.0050	10/01/24 18:21	B
EPA 6020B	Barium	0.087	mg/L	0.0050	10/01/24 18:21	
EPA 6020B	Boron	0.81	mg/L	0.040	10/01/24 18:21	
EPA 6020B	Cadmium	0.00055	mg/L	0.00050	10/01/24 18:21	
EPA 6020B	Cobalt	0.011	mg/L	0.0050	10/01/24 18:21	
EPA 6020B	Lithium	0.0044J	mg/L	0.030	10/01/24 18:21	
EPA 6020B	Molybdenum	0.088	mg/L	0.010	10/01/24 18:21	
SM 2540C-2015	Total Dissolved Solids	573	mg/L	25.0	10/01/24 16:02	
SM 2320B	Alkalinity, Total as CaCO3	90.2	mg/L	5.0	10/07/24 10:03	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	90.2	mg/L	5.0	10/07/24 10:03	
92756037007	**HAM-PT-13**					
EPA 300.0	Chloride	16.9	mg/L	1.0	10/16/24 13:35	
EPA 300.0	Fluoride	0.36	mg/L	0.050	10/16/24 13:35	
EPA 300.0	Sulfate	261	mg/L	1.0	10/16/24 13:35	
EPA 6010D	Iron	5.3	mg/L	0.040	10/02/24 12:55	
EPA 6010D	Manganese	3.2	mg/L	0.040	10/02/24 12:55	
EPA 6010D	Potassium	5.4	mg/L	0.50	10/02/24 12:55	
EPA 6010D	Sodium	9.2	mg/L	1.0	10/02/24 12:55	
EPA 6010D	Calcium	122	mg/L	1.0	10/02/24 12:55	
EPA 6010D	Magnesium	16.1	mg/L	0.050	10/02/24 12:55	
EPA 6020B	Arsenic	0.021	mg/L	0.0050	10/01/24 18:25	
EPA 6020B	Barium	0.050	mg/L	0.0050	10/01/24 18:25	
EPA 6020B	Boron	0.49	mg/L	0.040	10/01/24 18:25	

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SUMMARY OF DETECTION

Project: Hammond AP-1_Week 1
Pace Project No.: 92756037

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92756037007	**HAM-PT-13**					
EPA 6020B	Cadmium	0.00011J	mg/L	0.00050	10/01/24 18:25	
EPA 6020B	Cobalt	0.022	mg/L	0.0050	10/01/24 18:25	
EPA 6020B	Lead	0.00057J	mg/L	0.0010	10/01/24 18:25	
EPA 6020B	Lithium	0.052	mg/L	0.030	10/01/24 18:25	
EPA 6020B	Molybdenum	0.0031J	mg/L	0.010	10/01/24 18:25	
EPA 6020B	Selenium	0.0013J	mg/L	0.0050	10/01/24 18:25	
SM 2540C-2015	Total Dissolved Solids	518	mg/L	25.0	10/01/24 15:59	
SM 2320B	Alkalinity, Total as CaCO3	105	mg/L	5.0	10/07/24 10:08	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	105	mg/L	5.0	10/07/24 10:08	
92756037008	**HAM-PT-14**					
EPA 300.0	Chloride	19.6	mg/L	1.0	10/16/24 13:50	
EPA 300.0	Fluoride	0.28	mg/L	0.050	10/16/24 13:50	
EPA 300.0	Sulfate	259	mg/L	1.0	10/16/24 13:50	
EPA 6010D	Iron	9.9	mg/L	0.040	10/02/24 13:00	
EPA 6010D	Manganese	3.4	mg/L	0.040	10/02/24 13:00	
EPA 6010D	Potassium	5.8	mg/L	0.50	10/02/24 13:00	
EPA 6010D	Sodium	10.3	mg/L	1.0	10/02/24 13:00	
EPA 6010D	Calcium	135	mg/L	1.0	10/02/24 13:00	
EPA 6010D	Magnesium	19.5	mg/L	0.050	10/02/24 13:00	
EPA 6020B	Arsenic	0.058	mg/L	0.0050	10/01/24 18:29	
EPA 6020B	Barium	0.050	mg/L	0.0050	10/01/24 18:29	
EPA 6020B	Boron	0.59	mg/L	0.040	10/01/24 18:29	
EPA 6020B	Cobalt	0.022	mg/L	0.0050	10/01/24 18:29	
EPA 6020B	Lead	0.00038J	mg/L	0.0010	10/01/24 18:29	
EPA 6020B	Lithium	0.049	mg/L	0.030	10/01/24 18:29	
EPA 6020B	Molybdenum	0.010	mg/L	0.010	10/01/24 18:29	
SM 2540C-2015	Total Dissolved Solids	588	mg/L	25.0	10/01/24 15:59	
SM 2320B	Alkalinity, Total as CaCO3	142	mg/L	5.0	10/07/24 10:12	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	142	mg/L	5.0	10/07/24 10:12	
92756037009	**HAM-PT-15**					
EPA 300.0	Chloride	14.5	mg/L	1.0	10/16/24 14:05	
EPA 300.0	Fluoride	0.31	mg/L	0.050	10/16/24 14:05	
EPA 300.0	Sulfate	242	mg/L	1.0	10/16/24 14:05	
EPA 6010D	Iron	0.15	mg/L	0.040	10/02/24 13:05	
EPA 6010D	Manganese	2.3	mg/L	0.040	10/02/24 13:05	
EPA 6010D	Potassium	5.1	mg/L	0.50	10/02/24 13:05	
EPA 6010D	Sodium	7.7	mg/L	1.0	10/02/24 13:05	
EPA 6010D	Calcium	118	mg/L	1.0	10/02/24 13:05	
EPA 6010D	Magnesium	12.3	mg/L	0.050	10/02/24 13:05	
EPA 6020B	Antimony	0.00065J	mg/L	0.0030	10/01/24 18:32	
EPA 6020B	Arsenic	0.0097	mg/L	0.0050	10/01/24 18:32	B
EPA 6020B	Barium	0.049	mg/L	0.0050	10/01/24 18:32	
EPA 6020B	Boron	0.64	mg/L	0.040	10/01/24 18:32	
EPA 6020B	Cadmium	0.00029J	mg/L	0.00050	10/01/24 18:32	
EPA 6020B	Cobalt	0.012	mg/L	0.0050	10/01/24 18:32	
EPA 6020B	Lithium	0.040	mg/L	0.030	10/01/24 18:32	

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SUMMARY OF DETECTION

Project: Hammond AP-1_Week 1
Pace Project No.: 92756037

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92756037009	**HAM-PT-15**					
EPA 6020B	Molybdenum	0.010	mg/L	0.010	10/01/24 18:32	
EPA 6020B	Selenium	0.0038J	mg/L	0.0050	10/01/24 18:32	
EPA 6020B	Thallium	0.00044J	mg/L	0.0010	10/01/24 18:32	
SM 2540C-2015	Total Dissolved Solids	473	mg/L	25.0	10/01/24 16:00	
SM 2320B	Alkalinity, Total as CaCO3	81.7	mg/L	5.0	10/07/24 10:17	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	81.7	mg/L	5.0	10/07/24 10:17	
92756037010	**HAM-AP1-FD-01**					
EPA 300.0	Chloride	17.5	mg/L	1.0	10/16/24 14:20	
EPA 300.0	Fluoride	0.25	mg/L	0.050	10/16/24 14:20	
EPA 300.0	Sulfate	244	mg/L	1.0	10/16/24 14:20	
EPA 6010D	Iron	1.1	mg/L	0.040	10/02/24 13:14	
EPA 6010D	Manganese	2.6	mg/L	0.040	10/02/24 13:14	
EPA 6010D	Potassium	5.3	mg/L	0.50	10/02/24 13:14	
EPA 6010D	Sodium	9.0	mg/L	1.0	10/02/24 13:14	
EPA 6010D	Calcium	120	mg/L	1.0	10/02/24 13:14	
EPA 6010D	Magnesium	14.7	mg/L	0.050	10/02/24 13:14	
EPA 6020B	Arsenic	0.021	mg/L	0.0050	10/01/24 18:40	
EPA 6020B	Barium	0.052	mg/L	0.0050	10/01/24 18:40	
EPA 6020B	Boron	0.61	mg/L	0.040	10/01/24 18:40	
EPA 6020B	Cadmium	0.00015J	mg/L	0.00050	10/01/24 18:40	
EPA 6020B	Cobalt	0.023	mg/L	0.0050	10/01/24 18:40	
EPA 6020B	Lithium	0.035	mg/L	0.030	10/01/24 18:40	
EPA 6020B	Molybdenum	0.0099J	mg/L	0.010	10/01/24 18:40	
EPA 6020B	Selenium	0.0014J	mg/L	0.0050	10/01/24 18:40	
EPA 6020B	Thallium	0.00041J	mg/L	0.0010	10/01/24 18:40	
SM 2540C-2015	Total Dissolved Solids	520	mg/L	25.0	10/01/24 16:00	
SM 2320B	Alkalinity, Total as CaCO3	91.8	mg/L	5.0	10/07/24 10:21	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	91.8	mg/L	5.0	10/07/24 10:21	
92756037011	**HAM-AP1-FB-01**					
EPA 6020B	Arsenic	0.0014J	mg/L	0.0050	10/01/24 18:43	B
92756037012	**HAM-AP1-EB-01**					
EPA 6010D	Sodium	0.62J	mg/L	1.0	10/02/24 13:24	
EPA 6010D	Calcium	0.44J	mg/L	1.0	10/02/24 13:24	
EPA 6010D	Magnesium	0.097	mg/L	0.050	10/02/24 13:24	
EPA 6020B	Arsenic	0.00093J	mg/L	0.0050	10/01/24 18:47	B
EPA 6020B	Barium	0.0021J	mg/L	0.0050	10/01/24 18:47	
SM 2320B	Alkalinity, Total as CaCO3	5.8	mg/L	5.0	10/07/24 10:29	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	5.8	mg/L	5.0	10/07/24 10:29	

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ANALYTICAL RESULTS

Project: Hammond AP-1_Week 1
Pace Project No.: 92756037

Sample: HAM-PT-07 **Lab ID: 92756037001** Collected: 09/24/24 16:20 Received: 09/26/24 11:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions WW 28 Day DU	Analytical Method: EPA 300.0 Pace Analytical Services - Duluth, MN								
Chloride	**17.5**	mg/L	1.0	0.34	1		10/16/24 10:35	16887-00-6	
Fluoride	**0.26**	mg/L	0.050	0.0057	1		10/16/24 10:35	16984-48-8	
Sulfate	**249**	mg/L	1.0	0.086	1		10/16/24 10:35	14808-79-8	
4500S2D Sulfide LL Water DU	Analytical Method: SM 4500-S2 D-2011 Pace Analytical Services - Duluth, MN								
Sulfide	ND	mg/L	0.10	0.011	1		10/11/24 18:04	18496-25-8	H3
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.54**	mg/L	0.040	0.025	1	10/01/24 11:11	10/02/24 11:58	7439-89-6	
Manganese	**2.4**	mg/L	0.040	0.011	1	10/01/24 11:11	10/02/24 11:58	7439-96-5	
Potassium	**5.9**	mg/L	0.50	0.15	1	10/01/24 11:11	10/02/24 11:58	7440-09-7	
Sodium	**10.2**	mg/L	1.0	0.58	1	10/01/24 11:11	10/02/24 11:58	7440-23-5	
Calcium	**128**	mg/L	1.0	0.12	1	10/01/24 11:11	10/02/24 11:58	7440-70-2	
Magnesium	**18.7**	mg/L	0.050	0.012	1	10/01/24 11:11	10/02/24 11:58	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.00056J**	mg/L	0.0030	0.00054	1	10/01/24 11:00	10/01/24 17:44	7440-36-0	
Arsenic	**0.016**	mg/L	0.0050	0.00084	1	10/01/24 11:00	10/01/24 17:44	7440-38-2	B
Barium	**0.056**	mg/L	0.0050	0.00047	1	10/01/24 11:00	10/01/24 17:44	7440-39-3	
Beryllium	**0.00012J**	mg/L	0.00050	0.000094	1	10/01/24 11:00	10/01/24 17:44	7440-41-7	
Boron	**0.54**	mg/L	0.040	0.012	1	10/01/24 11:00	10/01/24 17:44	7440-42-8	
Cadmium	**0.00015J**	mg/L	0.00050	0.00010	1	10/01/24 11:00	10/01/24 17:44	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	10/01/24 11:00	10/01/24 17:44	7440-47-3	
Cobalt	**0.031**	mg/L	0.0050	0.00032	1	10/01/24 11:00	10/01/24 17:44	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	10/01/24 11:00	10/01/24 17:44	7439-92-1	
Lithium	**0.048**	mg/L	0.030	0.0016	1	10/01/24 11:00	10/01/24 17:44	7439-93-2	
Molybdenum	**0.0054J**	mg/L	0.010	0.00062	1	10/01/24 11:00	10/01/24 17:44	7439-98-7	
Selenium	**0.0011J**	mg/L	0.0050	0.00096	1	10/01/24 11:00	10/01/24 17:44	7782-49-2	
Thallium	**0.00067J**	mg/L	0.0010	0.00038	1	10/01/24 11:00	10/01/24 17:44	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	10/01/24 16:00	10/02/24 10:28	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**559**	mg/L	25.0	25.0	1		10/01/24 15:58		
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Minneapolis								
Alkalinity, Total as CaCO3	**136**	mg/L	5.0	1.9	1		10/07/24 09:09		

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ANALYTICAL RESULTS

Project: Hammond AP-1_Week 1
Pace Project No.: 92756037

Sample: HAM-PT-07 **Lab ID: 92756037001** Collected: 09/24/24 16:20 Received: 09/26/24 11:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Minneapolis								
Alkalinity,Bicarbonate (CaCO3)	**136**	mg/L	5.0	1.9	1		10/07/24 09:09		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.9	1		10/07/24 09:09		

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ANALYTICAL RESULTS

Project: Hammond AP-1_Week 1
Pace Project No.: 92756037

Sample: HAM-PT-08 **Lab ID: 92756037002** Collected: 09/24/24 14:31 Received: 09/26/24 11:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions WW 28 Day DU	Analytical Method: EPA 300.0 Pace Analytical Services - Duluth, MN								
Chloride	**17.1**	mg/L	1.0	0.34	1		10/16/24 11:20	16887-00-6	
Fluoride	**0.25**	mg/L	0.050	0.0057	1		10/16/24 11:20	16984-48-8	
Sulfate	**239**	mg/L	1.0	0.086	1		10/16/24 11:20	14808-79-8	
4500S2D Sulfide LL Water DU	Analytical Method: SM 4500-S2 D-2011 Pace Analytical Services - Duluth, MN								
Sulfide	ND	mg/L	0.10	0.011	1		10/11/24 18:04	18496-25-8	H3
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**1.1**	mg/L	0.040	0.025	1	10/01/24 11:11	10/02/24 12:03	7439-89-6	
Manganese	**2.5**	mg/L	0.040	0.011	1	10/01/24 11:11	10/02/24 12:03	7439-96-5	
Potassium	**5.3**	mg/L	0.50	0.15	1	10/01/24 11:11	10/02/24 12:03	7440-09-7	
Sodium	**9.1**	mg/L	1.0	0.58	1	10/01/24 11:11	10/02/24 12:03	7440-23-5	
Calcium	**112**	mg/L	1.0	0.12	1	10/01/24 11:11	10/02/24 12:03	7440-70-2	M1
Magnesium	**14.3**	mg/L	0.050	0.012	1	10/01/24 11:11	10/02/24 12:03	7439-95-4	M1
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.0012J**	mg/L	0.0030	0.00054	1	10/01/24 11:00	10/01/24 17:59	7440-36-0	
Arsenic	**0.021**	mg/L	0.0050	0.00084	1	10/01/24 11:00	10/01/24 17:59	7440-38-2	
Barium	**0.050**	mg/L	0.0050	0.00047	1	10/01/24 11:00	10/01/24 17:59	7440-39-3	
Beryllium	**0.00013J**	mg/L	0.00050	0.000094	1	10/01/24 11:00	10/01/24 17:59	7440-41-7	
Boron	**0.61**	mg/L	0.040	0.012	1	10/01/24 11:00	10/01/24 17:59	7440-42-8	
Cadmium	**0.00018J**	mg/L	0.00050	0.00010	1	10/01/24 11:00	10/01/24 17:59	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	10/01/24 11:00	10/01/24 17:59	7440-47-3	
Cobalt	**0.022**	mg/L	0.0050	0.00032	1	10/01/24 11:00	10/01/24 17:59	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	10/01/24 11:00	10/01/24 17:59	7439-92-1	
Lithium	**0.035**	mg/L	0.030	0.0016	1	10/01/24 11:00	10/01/24 17:59	7439-93-2	
Molybdenum	**0.0098J**	mg/L	0.010	0.00062	1	10/01/24 11:00	10/01/24 17:59	7439-98-7	
Selenium	**0.0013J**	mg/L	0.0050	0.00096	1	10/01/24 11:00	10/01/24 17:59	7782-49-2	
Thallium	**0.00050J**	mg/L	0.0010	0.00038	1	10/01/24 11:00	10/01/24 17:59	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	10/01/24 16:00	10/02/24 10:39	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**490**	mg/L	25.0	25.0	1		10/01/24 15:58		
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Minneapolis								
Alkalinity, Total as CaCO3	**91.8**	mg/L	5.0	1.9	1		10/07/24 09:27		

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ANALYTICAL RESULTS

Project: Hammond AP-1_Week 1
Pace Project No.: 92756037

Sample: HAM-PT-08 **Lab ID: 92756037002** Collected: 09/24/24 14:31 Received: 09/26/24 11:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Minneapolis								
Alkalinity,Bicarbonate (CaCO3)	**91.8**	mg/L	5.0	1.9	1		10/07/24 09:27		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.9	1		10/07/24 09:27		

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ANALYTICAL RESULTS

Project: Hammond AP-1_Week 1
Pace Project No.: 92756037

Sample: HAM-PT-09 **Lab ID: 92756037003** Collected: 09/25/24 12:30 Received: 09/26/24 11:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions WW 28 Day DU	Analytical Method: EPA 300.0 Pace Analytical Services - Duluth, MN								
Chloride	**39.4**	mg/L	1.0	0.34	1		10/16/24 12:05	16887-00-6	
Fluoride	**0.33**	mg/L	0.050	0.0057	1		10/16/24 12:05	16984-48-8	
Sulfate	**236**	mg/L	1.0	0.086	1		10/16/24 12:05	14808-79-8	
4500S2D Sulfide LL Water DU	Analytical Method: SM 4500-S2 D-2011 Pace Analytical Services - Duluth, MN								
Sulfide	ND	mg/L	0.10	0.011	1		10/11/24 18:04	18496-25-8	H3
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.24**	mg/L	0.040	0.025	1	10/01/24 11:11	10/02/24 12:22	7439-89-6	
Manganese	**0.73**	mg/L	0.040	0.011	1	10/01/24 11:11	10/02/24 12:22	7439-96-5	
Potassium	**5.8**	mg/L	0.50	0.15	1	10/01/24 11:11	10/02/24 12:22	7440-09-7	
Sodium	**7.0**	mg/L	1.0	0.58	1	10/01/24 11:11	10/02/24 12:22	7440-23-5	
Calcium	**111**	mg/L	1.0	0.12	1	10/01/24 11:11	10/02/24 12:22	7440-70-2	
Magnesium	**27.2**	mg/L	0.050	0.012	1	10/01/24 11:11	10/02/24 12:22	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	10/01/24 11:00	10/01/24 18:03	7440-36-0	
Arsenic	**0.0034J**	mg/L	0.0050	0.00084	1	10/01/24 11:00	10/01/24 18:03	7440-38-2	B
Barium	**0.089**	mg/L	0.0050	0.00047	1	10/01/24 11:00	10/01/24 18:03	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	10/01/24 11:00	10/01/24 18:03	7440-41-7	
Boron	**1.2**	mg/L	0.040	0.012	1	10/01/24 11:00	10/01/24 18:03	7440-42-8	
Cadmium	**0.00030J**	mg/L	0.00050	0.00010	1	10/01/24 11:00	10/01/24 18:03	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	10/01/24 11:00	10/01/24 18:03	7440-47-3	
Cobalt	**0.0066**	mg/L	0.0050	0.00032	1	10/01/24 11:00	10/01/24 18:03	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	10/01/24 11:00	10/01/24 18:03	7439-92-1	
Lithium	**0.0035J**	mg/L	0.030	0.0016	1	10/01/24 11:00	10/01/24 18:03	7439-93-2	
Molybdenum	**0.14**	mg/L	0.010	0.00062	1	10/01/24 11:00	10/01/24 18:03	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	10/01/24 11:00	10/01/24 18:03	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	10/01/24 11:00	10/01/24 18:03	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	10/01/24 16:00	10/02/24 10:42	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**547**	mg/L	25.0	25.0	1		10/01/24 16:01		
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Minneapolis								
Alkalinity, Total as CaCO3	**112**	mg/L	5.0	1.9	1		10/07/24 09:31		

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ANALYTICAL RESULTS

Project: Hammond AP-1_Week 1
Pace Project No.: 92756037

Sample: HAM-PT-09 **Lab ID: 92756037003** Collected: 09/25/24 12:30 Received: 09/26/24 11:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Minneapolis								
Alkalinity,Bicarbonate (CaCO3)	**112**	mg/L	5.0	1.9	1		10/07/24 09:31		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.9	1		10/07/24 09:31		

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ANALYTICAL RESULTS

Project: Hammond AP-1_Week 1
Pace Project No.: 92756037

Sample: HAM-PT-10 **Lab ID: 92756037004** Collected: 09/25/24 10:00 Received: 09/26/24 11:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions WW 28 Day DU	Analytical Method: EPA 300.0 Pace Analytical Services - Duluth, MN								
Chloride	**49.6**	mg/L	1.0	0.34	1		10/16/24 12:20	16887-00-6	
Fluoride	**0.32**	mg/L	0.050	0.0057	1		10/16/24 12:20	16984-48-8	
Sulfate	**158**	mg/L	1.0	0.086	1		10/16/24 12:20	14808-79-8	
4500S2D Sulfide LL Water DU	Analytical Method: SM 4500-S2 D-2011 Pace Analytical Services - Duluth, MN								
Sulfide	ND	mg/L	0.10	0.011	1		10/11/24 18:04	18496-25-8	H3
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.060**	mg/L	0.040	0.025	1	10/01/24 11:11	10/02/24 12:27	7439-89-6	
Manganese	**0.43**	mg/L	0.040	0.011	1	10/01/24 11:11	10/02/24 12:27	7439-96-5	
Potassium	**6.6**	mg/L	0.50	0.15	1	10/01/24 11:11	10/02/24 12:27	7440-09-7	
Sodium	**9.0**	mg/L	1.0	0.58	1	10/01/24 11:11	10/02/24 12:27	7440-23-5	
Calcium	**113**	mg/L	1.0	0.12	1	10/01/24 11:11	10/02/24 12:27	7440-70-2	
Magnesium	**14.2**	mg/L	0.050	0.012	1	10/01/24 11:11	10/02/24 12:27	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	10/01/24 11:00	10/01/24 18:07	7440-36-0	
Arsenic	**0.0024J**	mg/L	0.0050	0.00084	1	10/01/24 11:00	10/01/24 18:07	7440-38-2	B
Barium	**0.053**	mg/L	0.0050	0.00047	1	10/01/24 11:00	10/01/24 18:07	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	10/01/24 11:00	10/01/24 18:07	7440-41-7	
Boron	**1.6**	mg/L	0.040	0.012	1	10/01/24 11:00	10/01/24 18:07	7440-42-8	
Cadmium	**0.00017J**	mg/L	0.00050	0.00010	1	10/01/24 11:00	10/01/24 18:07	7440-43-9	
Chromium	**0.0039J**	mg/L	0.0050	0.0019	1	10/01/24 11:00	10/01/24 18:07	7440-47-3	
Cobalt	**0.0019J**	mg/L	0.0050	0.00032	1	10/01/24 11:00	10/01/24 18:07	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	10/01/24 11:00	10/01/24 18:07	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	10/01/24 11:00	10/01/24 18:07	7439-93-2	
Molybdenum	**0.23**	mg/L	0.010	0.00062	1	10/01/24 11:00	10/01/24 18:07	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	10/01/24 11:00	10/01/24 18:07	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	10/01/24 11:00	10/01/24 18:07	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	10/01/24 16:00	10/02/24 10:50	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**521**	mg/L	25.0	25.0	1		10/01/24 16:01		
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Minneapolis								
Alkalinity, Total as CaCO3	**131**	mg/L	5.0	1.9	1		10/07/24 09:36		

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ANALYTICAL RESULTS

Project: Hammond AP-1_Week 1
Pace Project No.: 92756037

Sample: HAM-PT-10 **Lab ID: 92756037004** Collected: 09/25/24 10:00 Received: 09/26/24 11:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Minneapolis								
Alkalinity,Bicarbonate (CaCO3)	**131**	mg/L	5.0	1.9	1		10/07/24 09:36		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.9	1		10/07/24 09:36		

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ANALYTICAL RESULTS

Project: Hammond AP-1_Week 1
Pace Project No.: 92756037

Sample: HAM-PT-11 **Lab ID: 92756037005** Collected: 09/25/24 14:54 Received: 09/26/24 11:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions WW 28 Day DU	Analytical Method: EPA 300.0 Pace Analytical Services - Duluth, MN								
Chloride	**48.3**	mg/L	1.0	0.34	1		10/16/24 13:05	16887-00-6	
Fluoride	**0.33**	mg/L	0.050	0.0057	1		10/16/24 13:05	16984-48-8	
Sulfate	**200**	mg/L	1.0	0.086	1		10/16/24 13:05	14808-79-8	
4500S2D Sulfide LL Water DU	Analytical Method: SM 4500-S2 D-2011 Pace Analytical Services - Duluth, MN								
Sulfide	ND	mg/L	0.10	0.011	1		10/11/24 18:05	18496-25-8	H3
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**3.7**	mg/L	0.040	0.025	1	10/01/24 11:11	10/02/24 12:32	7439-89-6	
Manganese	**1.4**	mg/L	0.040	0.011	1	10/01/24 11:11	10/02/24 12:32	7439-96-5	
Potassium	**5.6**	mg/L	0.50	0.15	1	10/01/24 11:11	10/02/24 12:32	7440-09-7	
Sodium	**8.1**	mg/L	1.0	0.58	1	10/01/24 11:11	10/02/24 12:32	7440-23-5	
Calcium	**109**	mg/L	1.0	0.12	1	10/01/24 11:11	10/02/24 12:32	7440-70-2	
Magnesium	**20.3**	mg/L	0.050	0.012	1	10/01/24 11:11	10/02/24 12:32	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	10/01/24 11:00	10/01/24 18:10	7440-36-0	
Arsenic	**0.0031J**	mg/L	0.0050	0.00084	1	10/01/24 11:00	10/01/24 18:10	7440-38-2	B
Barium	**0.078**	mg/L	0.0050	0.00047	1	10/01/24 11:00	10/01/24 18:10	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	10/01/24 11:00	10/01/24 18:10	7440-41-7	
Boron	**1.5**	mg/L	0.040	0.012	1	10/01/24 11:00	10/01/24 18:10	7440-42-8	
Cadmium	**0.00030J**	mg/L	0.00050	0.00010	1	10/01/24 11:00	10/01/24 18:10	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	10/01/24 11:00	10/01/24 18:10	7440-47-3	
Cobalt	**0.025**	mg/L	0.0050	0.00032	1	10/01/24 11:00	10/01/24 18:10	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	10/01/24 11:00	10/01/24 18:10	7439-92-1	
Lithium	**0.0067J**	mg/L	0.030	0.0016	1	10/01/24 11:00	10/01/24 18:10	7439-93-2	
Molybdenum	**0.074**	mg/L	0.010	0.00062	1	10/01/24 11:00	10/01/24 18:10	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	10/01/24 11:00	10/01/24 18:10	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	10/01/24 11:00	10/01/24 18:10	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	10/01/24 16:00	10/02/24 10:52	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**546**	mg/L	25.0	25.0	1		10/01/24 16:02		
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Minneapolis								
Alkalinity, Total as CaCO3	**98.0**	mg/L	5.0	1.9	1		10/07/24 09:41		

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ANALYTICAL RESULTS

Project: Hammond AP-1_Week 1
Pace Project No.: 92756037

Sample: HAM-PT-11 **Lab ID: 92756037005** Collected: 09/25/24 14:54 Received: 09/26/24 11:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Minneapolis								
Alkalinity,Bicarbonate (CaCO3)	**98.0**	mg/L	5.0	1.9	1		10/07/24 09:41		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.9	1		10/07/24 09:41		

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ANALYTICAL RESULTS

Project: Hammond AP-1_Week 1
Pace Project No.: 92756037

Sample: HAM-PT-12 **Lab ID: 92756037006** Collected: 09/25/24 16:50 Received: 09/26/24 11:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions WW 28 Day DU	Analytical Method: EPA 300.0 Pace Analytical Services - Duluth, MN								
Chloride	**22.9**	mg/L	1.0	0.34	1		10/16/24 13:20	16887-00-6	
Fluoride	**0.27**	mg/L	0.050	0.0057	1		10/16/24 13:20	16984-48-8	
Sulfate	**266**	mg/L	1.0	0.086	1		10/16/24 13:20	14808-79-8	
4500S2D Sulfide LL Water DU	Analytical Method: SM 4500-S2 D-2011 Pace Analytical Services - Duluth, MN								
Sulfide	ND	mg/L	0.10	0.011	1		10/11/24 18:05	18496-25-8	H3
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.21**	mg/L	0.040	0.025	1	10/01/24 11:11	10/02/24 12:50	7439-89-6	
Manganese	**2.6**	mg/L	0.040	0.011	1	10/01/24 11:11	10/02/24 12:50	7439-96-5	
Potassium	**5.1**	mg/L	0.50	0.15	1	10/01/24 11:11	10/02/24 12:50	7440-09-7	
Sodium	**6.1**	mg/L	1.0	0.58	1	10/01/24 11:11	10/02/24 12:50	7440-23-5	
Calcium	**106**	mg/L	1.0	0.12	1	10/01/24 11:11	10/02/24 12:50	7440-70-2	
Magnesium	**30.0**	mg/L	0.050	0.012	1	10/01/24 11:11	10/02/24 12:50	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	10/01/24 11:00	10/01/24 18:21	7440-36-0	
Arsenic	**0.0031J**	mg/L	0.0050	0.00084	1	10/01/24 11:00	10/01/24 18:21	7440-38-2	B
Barium	**0.087**	mg/L	0.0050	0.00047	1	10/01/24 11:00	10/01/24 18:21	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	10/01/24 11:00	10/01/24 18:21	7440-41-7	
Boron	**0.81**	mg/L	0.040	0.012	1	10/01/24 11:00	10/01/24 18:21	7440-42-8	
Cadmium	**0.00055**	mg/L	0.00050	0.00010	1	10/01/24 11:00	10/01/24 18:21	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	10/01/24 11:00	10/01/24 18:21	7440-47-3	
Cobalt	**0.011**	mg/L	0.0050	0.00032	1	10/01/24 11:00	10/01/24 18:21	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	10/01/24 11:00	10/01/24 18:21	7439-92-1	
Lithium	**0.0044J**	mg/L	0.030	0.0016	1	10/01/24 11:00	10/01/24 18:21	7439-93-2	
Molybdenum	**0.088**	mg/L	0.010	0.00062	1	10/01/24 11:00	10/01/24 18:21	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	10/01/24 11:00	10/01/24 18:21	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	10/01/24 11:00	10/01/24 18:21	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	10/01/24 16:00	10/02/24 10:56	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**573**	mg/L	25.0	25.0	1		10/01/24 16:02		
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Minneapolis								
Alkalinity, Total as CaCO3	**90.2**	mg/L	5.0	1.9	1		10/07/24 10:03		

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ANALYTICAL RESULTS

Project: Hammond AP-1_Week 1
Pace Project No.: 92756037

Sample: HAM-PT-12 **Lab ID: 92756037006** Collected: 09/25/24 16:50 Received: 09/26/24 11:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Minneapolis								
Alkalinity,Bicarbonate (CaCO3)	**90.2**	mg/L	5.0	1.9	1		10/07/24 10:03		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.9	1		10/07/24 10:03		

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ANALYTICAL RESULTS

Project: Hammond AP-1_Week 1
Pace Project No.: 92756037

Sample: HAM-PT-13 **Lab ID: 92756037007** Collected: 09/24/24 12:25 Received: 09/26/24 11:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions WW 28 Day DU	Analytical Method: EPA 300.0 Pace Analytical Services - Duluth, MN								
Chloride	**16.9**	mg/L	1.0	0.34	1		10/16/24 13:35	16887-00-6	
Fluoride	**0.36**	mg/L	0.050	0.0057	1		10/16/24 13:35	16984-48-8	
Sulfate	**261**	mg/L	1.0	0.086	1		10/16/24 13:35	14808-79-8	
4500S2D Sulfide LL Water DU	Analytical Method: SM 4500-S2 D-2011 Pace Analytical Services - Duluth, MN								
Sulfide	ND	mg/L	0.10	0.011	1		10/11/24 18:03	18496-25-8	H3
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**5.3**	mg/L	0.040	0.025	1	10/01/24 11:11	10/02/24 12:55	7439-89-6	
Manganese	**3.2**	mg/L	0.040	0.011	1	10/01/24 11:11	10/02/24 12:55	7439-96-5	
Potassium	**5.4**	mg/L	0.50	0.15	1	10/01/24 11:11	10/02/24 12:55	7440-09-7	
Sodium	**9.2**	mg/L	1.0	0.58	1	10/01/24 11:11	10/02/24 12:55	7440-23-5	
Calcium	**122**	mg/L	1.0	0.12	1	10/01/24 11:11	10/02/24 12:55	7440-70-2	
Magnesium	**16.1**	mg/L	0.050	0.012	1	10/01/24 11:11	10/02/24 12:55	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	10/01/24 11:00	10/01/24 18:25	7440-36-0	
Arsenic	**0.021**	mg/L	0.0050	0.00084	1	10/01/24 11:00	10/01/24 18:25	7440-38-2	
Barium	**0.050**	mg/L	0.0050	0.00047	1	10/01/24 11:00	10/01/24 18:25	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	10/01/24 11:00	10/01/24 18:25	7440-41-7	
Boron	**0.49**	mg/L	0.040	0.012	1	10/01/24 11:00	10/01/24 18:25	7440-42-8	
Cadmium	**0.00011J**	mg/L	0.00050	0.00010	1	10/01/24 11:00	10/01/24 18:25	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	10/01/24 11:00	10/01/24 18:25	7440-47-3	
Cobalt	**0.022**	mg/L	0.0050	0.00032	1	10/01/24 11:00	10/01/24 18:25	7440-48-4	
Lead	**0.00057J**	mg/L	0.0010	0.00016	1	10/01/24 11:00	10/01/24 18:25	7439-92-1	
Lithium	**0.052**	mg/L	0.030	0.0016	1	10/01/24 11:00	10/01/24 18:25	7439-93-2	
Molybdenum	**0.0031J**	mg/L	0.010	0.00062	1	10/01/24 11:00	10/01/24 18:25	7439-98-7	
Selenium	**0.0013J**	mg/L	0.0050	0.00096	1	10/01/24 11:00	10/01/24 18:25	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	10/01/24 11:00	10/01/24 18:25	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	10/01/24 16:00	10/02/24 10:58	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**518**	mg/L	25.0	25.0	1		10/01/24 15:59		
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Minneapolis								
Alkalinity, Total as CaCO3	**105**	mg/L	5.0	1.9	1		10/07/24 10:08		

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ANALYTICAL RESULTS

Project: Hammond AP-1_Week 1
Pace Project No.: 92756037

Sample: HAM-PT-13 **Lab ID: 92756037007** Collected: 09/24/24 12:25 Received: 09/26/24 11:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Minneapolis								
Alkalinity,Bicarbonate (CaCO3)	**105**	mg/L	5.0	1.9	1		10/07/24 10:08		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.9	1		10/07/24 10:08		

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ANALYTICAL RESULTS

Project: Hammond AP-1_Week 1
Pace Project No.: 92756037

Sample: HAM-PT-14 **Lab ID: 92756037008** Collected: 09/24/24 14:40 Received: 09/26/24 11:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions WW 28 Day DU	Analytical Method: EPA 300.0 Pace Analytical Services - Duluth, MN								
Chloride	**19.6**	mg/L	1.0	0.34	1		10/16/24 13:50	16887-00-6	
Fluoride	**0.28**	mg/L	0.050	0.0057	1		10/16/24 13:50	16984-48-8	
Sulfate	**259**	mg/L	1.0	0.086	1		10/16/24 13:50	14808-79-8	
4500S2D Sulfide LL Water DU	Analytical Method: SM 4500-S2 D-2011 Pace Analytical Services - Duluth, MN								
Sulfide	ND	mg/L	0.10	0.011	1		10/11/24 18:04	18496-25-8	H3
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**9.9**	mg/L	0.040	0.025	1	10/01/24 11:11	10/02/24 13:00	7439-89-6	
Manganese	**3.4**	mg/L	0.040	0.011	1	10/01/24 11:11	10/02/24 13:00	7439-96-5	
Potassium	**5.8**	mg/L	0.50	0.15	1	10/01/24 11:11	10/02/24 13:00	7440-09-7	
Sodium	**10.3**	mg/L	1.0	0.58	1	10/01/24 11:11	10/02/24 13:00	7440-23-5	
Calcium	**135**	mg/L	1.0	0.12	1	10/01/24 11:11	10/02/24 13:00	7440-70-2	
Magnesium	**19.5**	mg/L	0.050	0.012	1	10/01/24 11:11	10/02/24 13:00	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	10/01/24 11:00	10/01/24 18:29	7440-36-0	
Arsenic	**0.058**	mg/L	0.0050	0.00084	1	10/01/24 11:00	10/01/24 18:29	7440-38-2	
Barium	**0.050**	mg/L	0.0050	0.00047	1	10/01/24 11:00	10/01/24 18:29	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	10/01/24 11:00	10/01/24 18:29	7440-41-7	
Boron	**0.59**	mg/L	0.040	0.012	1	10/01/24 11:00	10/01/24 18:29	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	10/01/24 11:00	10/01/24 18:29	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	10/01/24 11:00	10/01/24 18:29	7440-47-3	
Cobalt	**0.022**	mg/L	0.0050	0.00032	1	10/01/24 11:00	10/01/24 18:29	7440-48-4	
Lead	**0.00038J**	mg/L	0.0010	0.00016	1	10/01/24 11:00	10/01/24 18:29	7439-92-1	
Lithium	**0.049**	mg/L	0.030	0.0016	1	10/01/24 11:00	10/01/24 18:29	7439-93-2	
Molybdenum	**0.010**	mg/L	0.010	0.00062	1	10/01/24 11:00	10/01/24 18:29	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	10/01/24 11:00	10/01/24 18:29	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	10/01/24 11:00	10/01/24 18:29	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	10/01/24 16:00	10/02/24 11:01	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**588**	mg/L	25.0	25.0	1		10/01/24 15:59		
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Minneapolis								
Alkalinity, Total as CaCO3	**142**	mg/L	5.0	1.9	1		10/07/24 10:12		

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ANALYTICAL RESULTS

Project: Hammond AP-1_Week 1
Pace Project No.: 92756037

Sample: HAM-PT-14 **Lab ID: 92756037008** Collected: 09/24/24 14:40 Received: 09/26/24 11:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Minneapolis								
Alkalinity,Bicarbonate (CaCO3)	**142**	mg/L	5.0	1.9	1		10/07/24 10:12		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.9	1		10/07/24 10:12		

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ANALYTICAL RESULTS

Project: Hammond AP-1_Week 1
Pace Project No.: 92756037

Sample: HAM-PT-15 **Lab ID: 92756037009** Collected: 09/24/24 11:03 Received: 09/26/24 11:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions WW 28 Day DU	Analytical Method: EPA 300.0 Pace Analytical Services - Duluth, MN								
Chloride	**14.5**	mg/L	1.0	0.34	1		10/16/24 14:05	16887-00-6	
Fluoride	**0.31**	mg/L	0.050	0.0057	1		10/16/24 14:05	16984-48-8	
Sulfate	**242**	mg/L	1.0	0.086	1		10/16/24 14:05	14808-79-8	
4500S2D Sulfide LL Water DU	Analytical Method: SM 4500-S2 D-2011 Pace Analytical Services - Duluth, MN								
Sulfide	ND	mg/L	0.10	0.011	1		10/11/24 18:03	18496-25-8	H3
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.15**	mg/L	0.040	0.025	1	10/01/24 11:11	10/02/24 13:05	7439-89-6	
Manganese	**2.3**	mg/L	0.040	0.011	1	10/01/24 11:11	10/02/24 13:05	7439-96-5	
Potassium	**5.1**	mg/L	0.50	0.15	1	10/01/24 11:11	10/02/24 13:05	7440-09-7	
Sodium	**7.7**	mg/L	1.0	0.58	1	10/01/24 11:11	10/02/24 13:05	7440-23-5	
Calcium	**118**	mg/L	1.0	0.12	1	10/01/24 11:11	10/02/24 13:05	7440-70-2	
Magnesium	**12.3**	mg/L	0.050	0.012	1	10/01/24 11:11	10/02/24 13:05	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.00065J**	mg/L	0.0030	0.00054	1	10/01/24 11:00	10/01/24 18:32	7440-36-0	
Arsenic	**0.0097**	mg/L	0.0050	0.00084	1	10/01/24 11:00	10/01/24 18:32	7440-38-2	B
Barium	**0.049**	mg/L	0.0050	0.00047	1	10/01/24 11:00	10/01/24 18:32	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	10/01/24 11:00	10/01/24 18:32	7440-41-7	
Boron	**0.64**	mg/L	0.040	0.012	1	10/01/24 11:00	10/01/24 18:32	7440-42-8	
Cadmium	**0.00029J**	mg/L	0.00050	0.00010	1	10/01/24 11:00	10/01/24 18:32	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	10/01/24 11:00	10/01/24 18:32	7440-47-3	
Cobalt	**0.012**	mg/L	0.0050	0.00032	1	10/01/24 11:00	10/01/24 18:32	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	10/01/24 11:00	10/01/24 18:32	7439-92-1	
Lithium	**0.040**	mg/L	0.030	0.0016	1	10/01/24 11:00	10/01/24 18:32	7439-93-2	
Molybdenum	**0.010**	mg/L	0.010	0.00062	1	10/01/24 11:00	10/01/24 18:32	7439-98-7	
Selenium	**0.0038J**	mg/L	0.0050	0.00096	1	10/01/24 11:00	10/01/24 18:32	7782-49-2	
Thallium	**0.00044J**	mg/L	0.0010	0.00038	1	10/01/24 11:00	10/01/24 18:32	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	10/01/24 16:00	10/02/24 11:03	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**473**	mg/L	25.0	25.0	1		10/01/24 16:00		
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Minneapolis								
Alkalinity, Total as CaCO3	**81.7**	mg/L	5.0	1.9	1		10/07/24 10:17		

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ANALYTICAL RESULTS

Project: Hammond AP-1_Week 1
Pace Project No.: 92756037

Sample: HAM-PT-15 **Lab ID: 92756037009** Collected: 09/24/24 11:03 Received: 09/26/24 11:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Minneapolis								
Alkalinity,Bicarbonate (CaCO3)	**81.7**	mg/L	5.0	1.9	1		10/07/24 10:17		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.9	1		10/07/24 10:17		

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ANALYTICAL RESULTS

Project: Hammond AP-1_Week 1
Pace Project No.: 92756037

Sample: HAM-AP1-FD-01 **Lab ID: 92756037010** Collected: 09/24/24 00:00 Received: 09/26/24 11:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions WW 28 Day DU	Analytical Method: EPA 300.0 Pace Analytical Services - Duluth, MN								
Chloride	**17.5**	mg/L	1.0	0.34	1		10/16/24 14:20	16887-00-6	
Fluoride	**0.25**	mg/L	0.050	0.0057	1		10/16/24 14:20	16984-48-8	
Sulfate	**244**	mg/L	1.0	0.086	1		10/16/24 14:20	14808-79-8	
4500S2D Sulfide LL Water DU	Analytical Method: SM 4500-S2 D-2011 Pace Analytical Services - Duluth, MN								
Sulfide	ND	mg/L	0.10	0.011	1		10/11/24 18:02	18496-25-8	H3
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**1.1**	mg/L	0.040	0.025	1	10/01/24 11:11	10/02/24 13:14	7439-89-6	
Manganese	**2.6**	mg/L	0.040	0.011	1	10/01/24 11:11	10/02/24 13:14	7439-96-5	
Potassium	**5.3**	mg/L	0.50	0.15	1	10/01/24 11:11	10/02/24 13:14	7440-09-7	
Sodium	**9.0**	mg/L	1.0	0.58	1	10/01/24 11:11	10/02/24 13:14	7440-23-5	
Calcium	**120**	mg/L	1.0	0.12	1	10/01/24 11:11	10/02/24 13:14	7440-70-2	
Magnesium	**14.7**	mg/L	0.050	0.012	1	10/01/24 11:11	10/02/24 13:14	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	10/01/24 11:00	10/01/24 18:40	7440-36-0	
Arsenic	**0.021**	mg/L	0.0050	0.00084	1	10/01/24 11:00	10/01/24 18:40	7440-38-2	
Barium	**0.052**	mg/L	0.0050	0.00047	1	10/01/24 11:00	10/01/24 18:40	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	10/01/24 11:00	10/01/24 18:40	7440-41-7	
Boron	**0.61**	mg/L	0.040	0.012	1	10/01/24 11:00	10/01/24 18:40	7440-42-8	
Cadmium	**0.00015J**	mg/L	0.00050	0.00010	1	10/01/24 11:00	10/01/24 18:40	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	10/01/24 11:00	10/01/24 18:40	7440-47-3	
Cobalt	**0.023**	mg/L	0.0050	0.00032	1	10/01/24 11:00	10/01/24 18:40	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	10/01/24 11:00	10/01/24 18:40	7439-92-1	
Lithium	**0.035**	mg/L	0.030	0.0016	1	10/01/24 11:00	10/01/24 18:40	7439-93-2	
Molybdenum	**0.0099J**	mg/L	0.010	0.00062	1	10/01/24 11:00	10/01/24 18:40	7439-98-7	
Selenium	**0.0014J**	mg/L	0.0050	0.00096	1	10/01/24 11:00	10/01/24 18:40	7782-49-2	
Thallium	**0.00041J**	mg/L	0.0010	0.00038	1	10/01/24 11:00	10/01/24 18:40	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	10/01/24 16:00	10/02/24 11:06	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**520**	mg/L	25.0	25.0	1		10/01/24 16:00		
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Minneapolis								
Alkalinity, Total as CaCO3	**91.8**	mg/L	5.0	1.9	1		10/07/24 10:21		

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ANALYTICAL RESULTS

Project: Hammond AP-1_Week 1
Pace Project No.: 92756037

Sample: HAM-AP1-FD-01 **Lab ID: 92756037010** Collected: 09/24/24 00:00 Received: 09/26/24 11:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Minneapolis								
Alkalinity,Bicarbonate (CaCO3)	**91.8**	mg/L	5.0	1.9	1		10/07/24 10:21		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.9	1		10/07/24 10:21		

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ANALYTICAL RESULTS

Project: Hammond AP-1_Week 1
Pace Project No.: 92756037

Sample: HAM-AP1-FB-01 **Lab ID: 92756037011** Collected: 09/25/24 17:40 Received: 09/26/24 11:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions WW 28 Day DU	Analytical Method: EPA 300.0 Pace Analytical Services - Duluth, MN								
Chloride	ND	mg/L	1.0	0.34	1		10/16/24 14:35	16887-00-6	
Fluoride	ND	mg/L	0.050	0.0057	1		10/16/24 14:35	16984-48-8	
Sulfate	ND	mg/L	1.0	0.086	1		10/16/24 14:35	14808-79-8	
4500S2D Sulfide LL Water DU	Analytical Method: SM 4500-S2 D-2011 Pace Analytical Services - Duluth, MN								
Sulfide	ND	mg/L	0.10	0.011	1		10/11/24 18:05	18496-25-8	H3
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	10/01/24 11:11	10/02/24 13:19	7439-89-6	
Manganese	ND	mg/L	0.040	0.011	1	10/01/24 11:11	10/02/24 13:19	7439-96-5	
Potassium	ND	mg/L	0.50	0.15	1	10/01/24 11:11	10/02/24 13:19	7440-09-7	
Sodium	ND	mg/L	1.0	0.58	1	10/01/24 11:11	10/02/24 13:19	7440-23-5	
Calcium	ND	mg/L	1.0	0.12	1	10/01/24 11:11	10/02/24 13:19	7440-70-2	
Magnesium	ND	mg/L	0.050	0.012	1	10/01/24 11:11	10/02/24 13:19	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	10/01/24 11:00	10/01/24 18:43	7440-36-0	
Arsenic	**0.0014J**	mg/L	0.0050	0.00084	1	10/01/24 11:00	10/01/24 18:43	7440-38-2	B
Barium	ND	mg/L	0.0050	0.00047	1	10/01/24 11:00	10/01/24 18:43	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	10/01/24 11:00	10/01/24 18:43	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	10/01/24 11:00	10/01/24 18:43	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	10/01/24 11:00	10/01/24 18:43	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	10/01/24 11:00	10/01/24 18:43	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	10/01/24 11:00	10/01/24 18:43	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	10/01/24 11:00	10/01/24 18:43	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	10/01/24 11:00	10/01/24 18:43	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	10/01/24 11:00	10/01/24 18:43	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	10/01/24 11:00	10/01/24 18:43	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	10/01/24 11:00	10/01/24 18:43	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	10/01/24 16:00	10/02/24 11:09	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		10/01/24 16:02		
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Minneapolis								
Alkalinity, Total as CaCO3	ND	mg/L	5.0	1.9	1		10/07/24 10:26		

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ANALYTICAL RESULTS

Project: Hammond AP-1_Week 1
Pace Project No.: 92756037

Sample: HAM-AP1-FB-01 **Lab ID: 92756037011** Collected: 09/25/24 17:40 Received: 09/26/24 11:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Minneapolis								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	1.9	1		10/07/24 10:26		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.9	1		10/07/24 10:26		

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ANALYTICAL RESULTS

Project: Hammond AP-1_Week 1
Pace Project No.: 92756037

Sample: HAM-AP1-EB-01 **Lab ID: 92756037012** Collected: 09/25/24 17:45 Received: 09/26/24 11:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions WW 28 Day DU	Analytical Method: EPA 300.0 Pace Analytical Services - Duluth, MN								
Chloride	ND	mg/L	1.0	0.34	1		10/16/24 14:50	16887-00-6	
Fluoride	ND	mg/L	0.050	0.0057	1		10/16/24 14:50	16984-48-8	
Sulfate	ND	mg/L	1.0	0.086	1		10/16/24 14:50	14808-79-8	
4500S2D Sulfide LL Water DU	Analytical Method: SM 4500-S2 D-2011 Pace Analytical Services - Duluth, MN								
Sulfide	ND	mg/L	0.10	0.011	1		10/11/24 18:05	18496-25-8	H3
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	10/01/24 11:11	10/02/24 13:24	7439-89-6	
Manganese	ND	mg/L	0.040	0.011	1	10/01/24 11:11	10/02/24 13:24	7439-96-5	
Potassium	ND	mg/L	0.50	0.15	1	10/01/24 11:11	10/02/24 13:24	7440-09-7	
Sodium	**0.62J**	mg/L	1.0	0.58	1	10/01/24 11:11	10/02/24 13:24	7440-23-5	
Calcium	**0.44J**	mg/L	1.0	0.12	1	10/01/24 11:11	10/02/24 13:24	7440-70-2	
Magnesium	**0.097**	mg/L	0.050	0.012	1	10/01/24 11:11	10/02/24 13:24	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	10/01/24 11:00	10/01/24 18:47	7440-36-0	
Arsenic	**0.00093J**	mg/L	0.0050	0.00084	1	10/01/24 11:00	10/01/24 18:47	7440-38-2	B
Barium	**0.0021J**	mg/L	0.0050	0.00047	1	10/01/24 11:00	10/01/24 18:47	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	10/01/24 11:00	10/01/24 18:47	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	10/01/24 11:00	10/01/24 18:47	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	10/01/24 11:00	10/01/24 18:47	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	10/01/24 11:00	10/01/24 18:47	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	10/01/24 11:00	10/01/24 18:47	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	10/01/24 11:00	10/01/24 18:47	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	10/01/24 11:00	10/01/24 18:47	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	10/01/24 11:00	10/01/24 18:47	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	10/01/24 11:00	10/01/24 18:47	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	10/01/24 11:00	10/01/24 18:47	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	10/01/24 16:00	10/02/24 11:11	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		10/01/24 16:03		
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Minneapolis								
Alkalinity, Total as CaCO3	**5.8**	mg/L	5.0	1.9	1		10/07/24 10:29		

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ANALYTICAL RESULTS

Project: Hammond AP-1_Week 1
Pace Project No.: 92756037

Sample: HAM-AP1-EB-01 **Lab ID: 92756037012** Collected: 09/25/24 17:45 Received: 09/26/24 11:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Minneapolis								
Alkalinity,Bicarbonate (CaCO3)	**5.8**	mg/L	5.0	1.9	1		10/07/24 10:29		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.9	1		10/07/24 10:29		

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QUALITY CONTROL DATA

Project: Hammond AP-1_Week 1
Pace Project No.: 92756037

QC Batch: 973742
QC Batch Method: EPA 300.0
Analysis Method: EPA 300.0
Analysis Description: 300.0 IC Anions WW 28 Day DU
Laboratory: Pace Analytical Services - Duluth, MN
Associated Lab Samples: 92756037001, 92756037002, 92756037003, 92756037004, 92756037005, 92756037006, 92756037007, 92756037008, 92756037009, 92756037010, 92756037011, 92756037012

METHOD BLANK: 5089258 Matrix: Water
Associated Lab Samples: 92756037001, 92756037002, 92756037003, 92756037004, 92756037005, 92756037006, 92756037007, 92756037008, 92756037009, 92756037010, 92756037011, 92756037012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.34	10/16/24 10:05	
Fluoride	mg/L	ND	0.050	0.0057	10/16/24 10:05	
Sulfate	mg/L	ND	1.0	0.086	10/16/24 10:05	

LABORATORY CONTROL SAMPLE: 5089259

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	100	98.8	99	90-110	
Fluoride	mg/L	5	5.2	103	90-110	
Sulfate	mg/L	100	99.1	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5089260 5089261

Parameter	Units	92756037001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	17.5	100	100	119	120	102	103	90-110	1	20	
Fluoride	mg/L	0.26	5	5	5.6	5.6	107	107	90-110	0	20	
Sulfate	mg/L	249	100	100	341	342	92	93	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5089262 5089263

Parameter	Units	92756037002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	17.1	100	100	119	119	102	102	90-110	0	20	
Fluoride	mg/L	0.25	5	5	5.6	5.6	106	107	90-110	0	20	
Sulfate	mg/L	239	100	100	331	332	92	93	90-110	0	20	

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QUALITY CONTROL DATA

Project: Hammond AP-1_Week 1
Pace Project No.: 92756037

QC Batch: 973160
QC Batch Method: SM 4500-S2 D-2011
Analysis Method: SM 4500-S2 D-2011
Analysis Description: 4500S2D Sulfide LL Water DU
Laboratory: Pace Analytical Services - Duluth, MN
Associated Lab Samples: 92756037001, 92756037002, 92756037003, 92756037004, 92756037005, 92756037006, 92756037007, 92756037008, 92756037009, 92756037010, 92756037011, 92756037012

METHOD BLANK: 5086234 Matrix: Water
Associated Lab Samples: 92756037001, 92756037002, 92756037003, 92756037004, 92756037005, 92756037006, 92756037007, 92756037008, 92756037009, 92756037010, 92756037011, 92756037012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	0.011	10/11/24 18:01	

LABORATORY CONTROL SAMPLE: 5086235

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.19	0.20	106	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5086236 5086237

Parameter	Units	92756037010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.2	0.2	0.21	0.21	104	107	90-110	3	10	H3

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5086238 5086239

Parameter	Units	10710729001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.2	0.2	0.24	0.24	106	108	90-110	2	10	

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QUALITY CONTROL DATA

Project: Hammond AP-1_Week 1
Pace Project No.: 92756037

QC Batch: 886167
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92756037001, 92756037002, 92756037003, 92756037004, 92756037005, 92756037006, 92756037007, 92756037008, 92756037009, 92756037010, 92756037011, 92756037012

METHOD BLANK: 4563116 Matrix: Water
Associated Lab Samples: 92756037001, 92756037002, 92756037003, 92756037004, 92756037005, 92756037006, 92756037007, 92756037008, 92756037009, 92756037010, 92756037011, 92756037012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	10/02/24 11:48	
Iron	mg/L	ND	0.040	0.025	10/02/24 11:48	
Magnesium	mg/L	ND	0.050	0.012	10/02/24 11:48	
Manganese	mg/L	ND	0.040	0.011	10/02/24 11:48	
Potassium	mg/L	ND	0.50	0.15	10/02/24 11:48	
Sodium	mg/L	ND	1.0	0.58	10/02/24 11:48	

LABORATORY CONTROL SAMPLE: 4563117

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0	103	80-120	
Iron	mg/L	1	1.0	102	80-120	
Magnesium	mg/L	1	1.0	104	80-120	
Manganese	mg/L	1	1.0	101	80-120	
Potassium	mg/L	1	0.99	99	80-120	
Sodium	mg/L	1	1.0	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4563118 4563119

Parameter	Units	92756037002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	112	1	1	117	115	546	364	75-125	2	20	M1
Iron	mg/L	1.1	1	1	2.2	2.2	110	107	75-125	1	20	
Magnesium	mg/L	14.3	1	1	15.8	15.3	147	102	75-125	3	20	M1
Manganese	mg/L	2.5	1	1	3.6	3.5	109	96	75-125	4	20	
Potassium	mg/L	5.3	1	1	6.4	6.2	109	90	75-125	3	20	
Sodium	mg/L	9.1	1	1	10.3	9.9	116	84	75-125	3	20	

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QUALITY CONTROL DATA

Project: Hammond AP-1_Week 1
Pace Project No.: 92756037

QC Batch: 886154
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92756037001, 92756037002, 92756037003, 92756037004, 92756037005, 92756037006, 92756037007, 92756037008, 92756037009, 92756037010, 92756037011, 92756037012

METHOD BLANK: 4563064 Matrix: Water
Associated Lab Samples: 92756037001, 92756037002, 92756037003, 92756037004, 92756037005, 92756037006, 92756037007, 92756037008, 92756037009, 92756037010, 92756037011, 92756037012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00054	10/01/24 17:37	
Arsenic	mg/L	0.0019J	0.0050	0.00084	10/01/24 17:37	
Barium	mg/L	ND	0.0050	0.00047	10/01/24 17:37	
Beryllium	mg/L	ND	0.00050	0.000094	10/01/24 17:37	
Boron	mg/L	ND	0.040	0.012	10/01/24 17:37	
Cadmium	mg/L	ND	0.00050	0.00010	10/01/24 17:37	
Chromium	mg/L	ND	0.0050	0.0019	10/01/24 17:37	
Cobalt	mg/L	ND	0.0050	0.00032	10/01/24 17:37	
Lead	mg/L	ND	0.0010	0.00016	10/01/24 17:37	
Lithium	mg/L	ND	0.030	0.0016	10/01/24 17:37	
Molybdenum	mg/L	ND	0.010	0.00062	10/01/24 17:37	
Selenium	mg/L	ND	0.0050	0.00096	10/01/24 17:37	
Thallium	mg/L	ND	0.0010	0.00038	10/01/24 17:37	

LABORATORY CONTROL SAMPLE: 4563065

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.10	100	80-120	
Arsenic	mg/L	0.1	0.096	96	80-120	
Barium	mg/L	0.1	0.10	100	80-120	
Beryllium	mg/L	0.1	0.094	94	80-120	
Boron	mg/L	1	0.93	93	80-120	
Cadmium	mg/L	0.1	0.097	97	80-120	
Chromium	mg/L	0.1	0.097	97	80-120	
Cobalt	mg/L	0.1	0.096	96	80-120	
Lead	mg/L	0.1	0.10	100	80-120	
Lithium	mg/L	0.1	0.096	96	80-120	
Molybdenum	mg/L	0.1	0.099	99	80-120	
Selenium	mg/L	0.1	0.097	97	80-120	
Thallium	mg/L	0.1	0.097	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4563066 4563067

Parameter	Units	92756037001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	0.00056J	0.1	0.1	0.10	0.097	102	97	75-125	5	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Hammond AP-1_Week 1
Pace Project No.: 92756037

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4563066 4563067

Parameter	Units	92756037001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	0.016	0.1	0.1	0.12	0.11	100	98	75-125	2	20	
Barium	mg/L	0.056	0.1	0.1	0.16	0.16	107	101	75-125	4	20	
Beryllium	mg/L	0.00012J	0.1	0.1	0.093	0.089	93	89	75-125	4	20	
Boron	mg/L	0.54	1	1	1.5	1.5	98	93	75-125	4	20	
Cadmium	mg/L	0.00015J	0.1	0.1	0.099	0.097	99	96	75-125	3	20	
Chromium	mg/L	ND	0.1	0.1	0.098	0.093	97	93	75-125	5	20	
Cobalt	mg/L	0.031	0.1	0.1	0.13	0.12	97	91	75-125	5	20	
Lead	mg/L	ND	0.1	0.1	0.099	0.095	99	95	75-125	4	20	
Lithium	mg/L	0.048	0.1	0.1	0.15	0.14	97	90	75-125	5	20	
Molybdenum	mg/L	0.0054J	0.1	0.1	0.11	0.10	102	97	75-125	5	20	
Selenium	mg/L	0.0011J	0.1	0.1	0.098	0.098	97	97	75-125	0	20	
Thallium	mg/L	0.00067J	0.1	0.1	0.098	0.095	97	94	75-125	3	20	

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QUALITY CONTROL DATA

Project: Hammond AP-1_Week 1
Pace Project No.: 92756037

QC Batch: 886196 | Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A | Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92756037001, 92756037002, 92756037003, 92756037004, 92756037005, 92756037006, 92756037007, 92756037008, 92756037009, 92756037010, 92756037011, 92756037012

METHOD BLANK: 4563527 Matrix: Water
Associated Lab Samples: 92756037001, 92756037002, 92756037003, 92756037004, 92756037005, 92756037006, 92756037007, 92756037008, 92756037009, 92756037010, 92756037011, 92756037012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	10/02/24 10:23	

LABORATORY CONTROL SAMPLE: 4563528

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0023	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4563529 4563530

Parameter	Units	92756037001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0023	0.0022	90	90	75-125	1	20	

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QUALITY CONTROL DATA

Project: Hammond AP-1_Week 1
Pace Project No.: 92756037

QC Batch: 886204 | Analysis Method: SM 2540C-2015
QC Batch Method: SM 2540C-2015 | Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92756037001, 92756037002, 92756037003, 92756037004, 92756037005, 92756037006, 92756037007, 92756037008, 92756037009, 92756037010, 92756037011, 92756037012

METHOD BLANK: 4563594 Matrix: Water
Associated Lab Samples: 92756037001, 92756037002, 92756037003, 92756037004, 92756037005, 92756037006, 92756037007, 92756037008, 92756037009, 92756037010, 92756037011, 92756037012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	10/01/24 15:55	

LABORATORY CONTROL SAMPLE: 4563595

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	387	97	80-120	

SAMPLE DUPLICATE: 4563596

Parameter	Units	92756037001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	559	574	3	10	

SAMPLE DUPLICATE: 4563597

Parameter	Units	92756037011 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	ND	ND		10	

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QUALITY CONTROL DATA

Project: Hammond AP-1_Week 1
Pace Project No.: 92756037

QC Batch: 972071 — Analysis Method: SM 2320B
QC Batch Method: SM 2320B — Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 92756037001, 92756037002, 92756037003, 92756037004, 92756037005, 92756037006, 92756037007, 92756037008, 92756037009, 92756037010, 92756037011, 92756037012

METHOD BLANK: 5080271 — Matrix: Water
Associated Lab Samples: 92756037001, 92756037002, 92756037003, 92756037004, 92756037005, 92756037006, 92756037007, 92756037008, 92756037009, 92756037010, 92756037011, 92756037012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	1.9	10/07/24 08:59	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	1.9	10/07/24 08:59	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	1.9	10/07/24 08:59	

LABORATORY CONTROL SAMPLE & LCSD: 5080272 5080273

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	40	43.9	43.7	110	109	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5080274 5080275

Parameter	Units	92756037001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	136	40	40	173	173	92	93	80-120	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5080276 5080277

Parameter	Units	10709658001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	72.9	40	40	113	113	102	99	80-120	1	20	

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QUALIFIERS

Project: Hammond AP-1_Week 1
Pace Project No.: 92756037

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

B	Analyte was detected in the associated method blank.
H3	Sample was received or analysis requested beyond the recognized method holding time.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Hammond AP-1_Week 1
Pace Project No.: 92756037

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92756037001	**HAM-PT-07**	EPA 300.0	973742		
92756037002	**HAM-PT-08**	EPA 300.0	973742		
92756037003	**HAM-PT-09**	EPA 300.0	973742		
92756037004	**HAM-PT-10**	EPA 300.0	973742		
92756037005	**HAM-PT-11**	EPA 300.0	973742		
92756037006	**HAM-PT-12**	EPA 300.0	973742		
92756037007	**HAM-PT-13**	EPA 300.0	973742		
92756037008	**HAM-PT-14**	EPA 300.0	973742		
92756037009	**HAM-PT-15**	EPA 300.0	973742		
92756037010	**HAM-AP1-FD-01**	EPA 300.0	973742		
92756037011	**HAM-AP1-FB-01**	EPA 300.0	973742		
92756037012	**HAM-AP1-EB-01**	EPA 300.0	973742		
92756037001	**HAM-PT-07**	SM 4500-S2 D-2011	973160		
92756037002	**HAM-PT-08**	SM 4500-S2 D-2011	973160		
92756037003	**HAM-PT-09**	SM 4500-S2 D-2011	973160		
92756037004	**HAM-PT-10**	SM 4500-S2 D-2011	973160		
92756037005	**HAM-PT-11**	SM 4500-S2 D-2011	973160		
92756037006	**HAM-PT-12**	SM 4500-S2 D-2011	973160		
92756037007	**HAM-PT-13**	SM 4500-S2 D-2011	973160		
92756037008	**HAM-PT-14**	SM 4500-S2 D-2011	973160		
92756037009	**HAM-PT-15**	SM 4500-S2 D-2011	973160		
92756037010	**HAM-AP1-FD-01**	SM 4500-S2 D-2011	973160		
92756037011	**HAM-AP1-FB-01**	SM 4500-S2 D-2011	973160		
92756037012	**HAM-AP1-EB-01**	SM 4500-S2 D-2011	973160		
92756037001	**HAM-PT-07**	EPA 3010A	886167	EPA 6010D	886202
92756037002	**HAM-PT-08**	EPA 3010A	886167	EPA 6010D	886202
92756037003	**HAM-PT-09**	EPA 3010A	886167	EPA 6010D	886202
92756037004	**HAM-PT-10**	EPA 3010A	886167	EPA 6010D	886202
92756037005	**HAM-PT-11**	EPA 3010A	886167	EPA 6010D	886202
92756037006	**HAM-PT-12**	EPA 3010A	886167	EPA 6010D	886202
92756037007	**HAM-PT-13**	EPA 3010A	886167	EPA 6010D	886202
92756037008	**HAM-PT-14**	EPA 3010A	886167	EPA 6010D	886202
92756037009	**HAM-PT-15**	EPA 3010A	886167	EPA 6010D	886202
92756037010	**HAM-AP1-FD-01**	EPA 3010A	886167	EPA 6010D	886202
92756037011	**HAM-AP1-FB-01**	EPA 3010A	886167	EPA 6010D	886202
92756037012	**HAM-AP1-EB-01**	EPA 3010A	886167	EPA 6010D	886202
92756037001	**HAM-PT-07**	EPA 3005A	886154	EPA 6020B	886216
92756037002	**HAM-PT-08**	EPA 3005A	886154	EPA 6020B	886216
92756037003	**HAM-PT-09**	EPA 3005A	886154	EPA 6020B	886216
92756037004	**HAM-PT-10**	EPA 3005A	886154	EPA 6020B	886216
92756037005	**HAM-PT-11**	EPA 3005A	886154	EPA 6020B	886216
92756037006	**HAM-PT-12**	EPA 3005A	886154	EPA 6020B	886216
92756037007	**HAM-PT-13**	EPA 3005A	886154	EPA 6020B	886216
92756037008	**HAM-PT-14**	EPA 3005A	886154	EPA 6020B	886216
92756037009	**HAM-PT-15**	EPA 3005A	886154	EPA 6020B	886216
92756037010	**HAM-AP1-FD-01**	EPA 3005A	886154	EPA 6020B	886216
92756037011	**HAM-AP1-FB-01**	EPA 3005A	886154	EPA 6020B	886216

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Hammond AP-1_Week 1
Pace Project No.: 92756037

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92756037012	**HAM-AP1-EB-01**	EPA 3005A	886154	EPA 6020B	886216
92756037001	**HAM-PT-07**	EPA 7470A	886196	EPA 7470A	886290
92756037002	**HAM-PT-08**	EPA 7470A	886196	EPA 7470A	886290
92756037003	**HAM-PT-09**	EPA 7470A	886196	EPA 7470A	886290
92756037004	**HAM-PT-10**	EPA 7470A	886196	EPA 7470A	886290
92756037005	**HAM-PT-11**	EPA 7470A	886196	EPA 7470A	886290
92756037006	**HAM-PT-12**	EPA 7470A	886196	EPA 7470A	886290
92756037007	**HAM-PT-13**	EPA 7470A	886196	EPA 7470A	886290
92756037008	**HAM-PT-14**	EPA 7470A	886196	EPA 7470A	886290
92756037009	**HAM-PT-15**	EPA 7470A	886196	EPA 7470A	886290
92756037010	**HAM-AP1-FD-01**	EPA 7470A	886196	EPA 7470A	886290
92756037011	**HAM-AP1-FB-01**	EPA 7470A	886196	EPA 7470A	886290
92756037012	**HAM-AP1-EB-01**	EPA 7470A	886196	EPA 7470A	886290
92756037001	**HAM-PT-07**	SM 2540C-2015	886204		
92756037002	**HAM-PT-08**	SM 2540C-2015	886204		
92756037003	**HAM-PT-09**	SM 2540C-2015	886204		
92756037004	**HAM-PT-10**	SM 2540C-2015	886204		
92756037005	**HAM-PT-11**	SM 2540C-2015	886204		
92756037006	**HAM-PT-12**	SM 2540C-2015	886204		
92756037007	**HAM-PT-13**	SM 2540C-2015	886204		
92756037008	**HAM-PT-14**	SM 2540C-2015	886204		
92756037009	**HAM-PT-15**	SM 2540C-2015	886204		
92756037010	**HAM-AP1-FD-01**	SM 2540C-2015	886204		
92756037011	**HAM-AP1-FB-01**	SM 2540C-2015	886204		
92756037012	**HAM-AP1-EB-01**	SM 2540C-2015	886204		
92756037001	**HAM-PT-07**	SM 2320B	972071		
92756037002	**HAM-PT-08**	SM 2320B	972071		
92756037003	**HAM-PT-09**	SM 2320B	972071		
92756037004	**HAM-PT-10**	SM 2320B	972071		
92756037005	**HAM-PT-11**	SM 2320B	972071		
92756037006	**HAM-PT-12**	SM 2320B	972071		
92756037007	**HAM-PT-13**	SM 2320B	972071		
92756037008	**HAM-PT-14**	SM 2320B	972071		
92756037009	**HAM-PT-15**	SM 2320B	972071		
92756037010	**HAM-AP1-FD-01**	SM 2320B	972071		
92756037011	**HAM-AP1-FB-01**	SM 2320B	972071		
92756037012	**HAM-AP1-EB-01**	SM 2320B	972071		

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CHAIN-OF-CUSTODY Analytical Request Document

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WO# : 92756037

92756037

Company Name:	Georgia Power- Hammond	Contact/Report To:	Kristen Jurinko
Street Address:	241 Ralph McGill Blvd NE Bin 10160 Atlanta, GA 30308	Phone #:	470-217-0008
		E-Mail:	knjurink@southernco.com
		Cc E-Mail:	
Customer Project #:			
Project Name:	Hammond AP-1_Week 1	Invoice To:	Account Payable
		Invoice E-Mail:	georgiapowerinvoices@southernco.com
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	GPC82474-0001
		Quote #:	

Time Zone Collected: [ ]AK [ ]PT [ ]MT [ ]CT [ ]ET

County / State origin of sample(s): Georgia

Data Deliverables: [ ]Level II [ ]Level III [ ]Level IV [ ]EQUIS [ ]Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ]Yes [ ]No

Rush (Pre-approval required): [ ]Same Day [ ]1 Day [ ]2 Day [ ]3 Day [ ]Other_____

DW PWSID # or WW Permit # as applicable:

Date Results Requested:

Field Filtered (if applicable): [ ]Yes [ ]No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Composite Start Date	Composite Start Time	Collected or Composite End Date	Collected or Composite End Time	# Cont.	Res. Chlorine Results	Res. Chlorine Units	2320B Alkalinity	2540C Total Dissolved Solids	300.0-Cl, SO4, F	4500S2D Sulfide Water	App III/IV+Major Ions Metals						Sample Comment	Preservation non-conformance identified for sample.
HAM-PT-07	WT	G	9-24-24	1620	9-24-24	1620				X	X	X	X	X						001	
HAM-PT-08	WT	G	9-24-24	1431	9-24-24	1431				X	X	X	X	X						002	
HAM-PT-09	WT	G	9-25-24	1230	9-25-24	1230				X	X	X	X	X						003	
HAM-PT-10	WT	G	9-25-24	1000	9-25-24	1000				X	X	X	X	X						004	
HAM-PT-11	WT	G	9-25-24	1454	9-25-24	1454				X	X	X	X	X						005	
HAM-PT-12	WT	G	9-25-24	1650	9-25-24	1650				X	X	X	X	X						006	
HAM-PT-13	WT	G	9-24-24	1225	9-24-24	1225				X	X	X	X	X						007	
HAM-PT-14	WT	G	9-24-24	1440	9-24-24	1440				X	X	X	X	X						008	
HAM-PT-15	WT	G	9-24-24	1103	9-24-24	1103				X	X	X	X	X						009	
HAM-AP1-FD-01	WT	G	9-24-24	0000	9-24-24	0000				X	X	X	X	X						010	

Specify Container Size **

Identify Container Preservative Type***

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) 90mL, (10) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only

Proj. Mgr: Bonnie Vang

AcctNum / Client ID:

Table #:

Profile / Template: 16483

Prelog / Bottle Ord. ID: EZ 3157518

Additional Instructions from Pace®:
We Comp Start and End; just grab/collected sample

Collected By: (Printed Name) Zain Webb / Jacob Tivoly

Signature: Zain Webb / Jacob Tivoly

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
Zain Webb / Contractor	9-26-24 1140	Ryan William / Pace	9/26/24 1140	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Delivered by: [ ]In-Person [ ]Courier [ ]FedEX [ ]UPS [ ]Other
Ryan William / Pace	9/26/24 1455		9/26/24 1455	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: 1 of 2

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

ENV-FRM-CORO-0019_v02_110123

WO#: 92756037

PM: BV **Due Date: 10/03/24**

CLIENT: 92- GP-HAM

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company Name:	Georgia Power- Hammond	Contact/Report To:	Kristen Jurinko
Street Address:	241 Ralph McGill Blvd NE Bin 10160 Atlanta, GA 30308	Phone #:	470-217-0008
		E-Mail:	knjurink@southernco.com
		Cc E-Mail:	
Customer Project #:			
Project Name:	Hammond AP-1_Week 1	Invoice To:	Account Payable
		Invoice E-Mail:	georgiapowerinvoices@southernco.com
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	GPC82474-0001
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [ ] ET

County / State origin of sample(s): Georgia

Data Deliverables: [ ] Level II [ ] Level III [ ] Level IV [ ] EQUIS [ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [ ] No

Rush (Pre-approval required): [ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day [ ] Other

DW PWSID # or WW Permit # as applicable:

Date Results Requested:

Field Filtered (if applicable): [ ] Yes [ ] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Composite Start Date	Composite Start Time	Collected or Composite End Date	Collected or Composite End Time	# Cont.	Res. Chlorine Results	Res. Chlorine Units	2320B Alkalinity	2540C Total Dissolved Solids	300.0-Cl SO4, F	4500S2D Sulfide Water	App III/IV+Major Ions Metals						Sample Comment
HAM-AP1-FB-01	WT	G			9-25-24	1740				X	X	X	X	X						011
HAM-AP1-EB-01	WT	G			9-25-24	1745				X	X	X	X	X						012
HAM-AP1-FD-02	WT									X	X	X	X	X						
HAM-AP1-FB-02	WT									X	X	X	X	X						
HAM-AP1-EB-02	WT									X	X	X	X	X						
Extra 1	WT									X	X	X	X	X						
Extra 2	WT									X	X	X	X	X						

Specify Container Size **

Identify Container Preservative Type***

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) Encore, (8) TerraCore, (9) 90mL, (10) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only

Proj. Mgr: **Bonnie Vang**

AcctNum / Client ID:

Table #:

Profile / Template: **16483**

Prelog / Bottle Ord. ID: **EZ 3157518**

Preservation non-conformance identified for sample

Additional Instructions from Pace®:

Collected By: (Printed Name) Zain Webb / Jacob Terry

Signature: Zain Webb / Jacob Terry

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	On Ice:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
Zain Webb / Georgia Power	7-26-24 1140	Ryan William / Pace	8/26/24 440	
Ryan William / Pace	7/26/24 1453	JTC	9/16/24 1455	Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	
Relinquished by/Company: (Signature)	Date/Time:			Page: 2 of 2

Sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

ENV-FRM-CORC-0019_v02_*10123 ©

DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

aboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Ga Power

Project #: **WO# : 92756037**

PM: BV Due Date: 10/03/24
CLIENT: 92- GP-HAM

Courier: ☐ Commercial ☐ Fed Ex ☐ Pace ☐ UPS ☐ USPS ☐ Other: ☑ Client

Custody Seal Present? ☑ Yes ☐ No Seals Intact? ☑ Yes ☐ No ☐ N/A

Date/Initials Person Examining Contents: 4-26-24 SM

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer:
☑ IR Gun ID: 730 Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 1.1 Correction Factor: Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 1.1

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: W				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

MMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

NT NOTIFICATION/RESOLUTION

rson contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

iltrax ID: 69614

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg
**Bottom half of box is to list number of bottles
***Check all unpreserved Nitrates for chlorine

Project #

aboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

lient_____ Profile/EZ (Circle one)_____ Notes_____

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)		BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HC (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG8U-40 mL Amber Unpreserved vials (N/A)
CC																														
1		2	1																											
2		2	1																											
3		2	1																											
4		2	1																											
5		2	1																											
6		2	1																											
7		2	1																											
8		2	1																											
9		2	1																											
10		2	1																											
11		2	1																											
12		2	1																											

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

ote: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. ut of hold, incorrect preservative, out of temp, incorrect containers.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

October 14, 2024

Kristen Jurinko
Southern Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, GA 30308

RE: Project: Hammond AP-1_Week 2
Pace Project No.: 92756894

Dear Kristen Jurinko:

Enclosed are the analytical results for sample(s) received by the laboratory on October 03, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Peachtree Corners, GA

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Bonnie Vang
bonnie.vang@pacelabs.com
704-977-0968
Project Manager

Enclosures

cc: Kip Gray, Geosyntec
Christine Hug, Geosyntec Consultants, Inc.
Thomas Kessler, Geosyntec Consultants
Whitney Law, Geosyntec Consultants
Laura Midkiff, Southern Company
Caroline Nelson, Geosyntec Consultants, Inc
Jamie Newsome, Geosyntec Consultants
Zain Webb, Geosyntec Consultants

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CERTIFICATIONS

Project: Hammond AP-1_Week 2
Pace Project No.: 92756894

Pace Analytical Services Peachtree Corners
110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812
North Carolina Certification #: 381
South Carolina Certification #: 98011001
Virginia Certification #: 460204

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Hammond AP-1_Week 2
Pace Project No.: 92756894

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92756894001	**HAM-PT-07**	Water	10/01/24 14:31	10/03/24 15:25
92756894002	**HAM-PT-08**	Water	10/01/24 14:40	10/03/24 15:25
92756894003	**HAM-PT-09**	Water	10/02/24 12:21	10/03/24 15:25
92756894004	**HAM-PT-10**	Water	10/02/24 12:10	10/03/24 15:25
92756894005	**HAM-PT-11**	Water	10/02/24 10:06	10/03/24 15:25
92756894006	**HAM-PT-12**	Water	10/02/24 10:30	10/03/24 15:25
92756894007	**HAM-PT-13**	Water	10/01/24 12:15	10/03/24 15:25
92756894008	**HAM-PT-14**	Water	10/01/24 11:20	10/03/24 15:25
92756894009	**HAM-PT-15**	Water	10/01/24 17:25	10/03/24 15:25
92756894010	**HAM-AP1-EB-01**	Water	10/02/24 13:45	10/03/24 15:25
92756894011	**HAM-AP1-FB-01**	Water	10/02/24 13:40	10/03/24 15:25
92756894012	**HAM-AP1-FD-01**	Water	10/02/24 00:00	10/03/24 15:25

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SAMPLE ANALYTE COUNT

Project: Hammond AP-1_Week 2
Pace Project No.: 92756894

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92756894001	**HAM-PT-07**	EPA 6010D	AJM	1
		EPA 6020B	CW1	2
92756894002	**HAM-PT-08**	EPA 6010D	AJM	1
		EPA 6020B	CW1	2
92756894003	**HAM-PT-09**	EPA 6010D	AJM	1
		EPA 6020B	CW1	2
92756894004	**HAM-PT-10**	EPA 6010D	AJM	1
		EPA 6020B	CW1	2
92756894005	**HAM-PT-11**	EPA 6010D	AJM	1
		EPA 6020B	CW1	2
92756894006	**HAM-PT-12**	EPA 6010D	AJM	1
		EPA 6020B	CW1	2
92756894007	**HAM-PT-13**	EPA 6010D	AJM	1
		EPA 6020B	CW1	2
92756894008	**HAM-PT-14**	EPA 6010D	AJM	1
		EPA 6020B	CW1	2
92756894009	**HAM-PT-15**	EPA 6010D	AJM	1
		EPA 6020B	CW1	2
92756894010	**HAM-AP1-EB-01**	EPA 6010D	AJM	1
		EPA 6020B	CW1	3
92756894011	**HAM-AP1-FB-01**	EPA 6010D	AJM	1
		EPA 6020B	CW1	3
92756894012	**HAM-AP1-FD-01**	EPA 6010D	AJM	1
		EPA 6020B	CW1	3

PASI-GA = Pace Analytical Services - Peachtree Corners, GA

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SUMMARY OF DETECTION

Project: Hammond AP-1_Week 2
Pace Project No.: 92756894

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92756894001	**HAM-PT-07**					
EPA 6010D	Iron	0.23	mg/L	0.050	10/07/24 17:40	
EPA 6020B	Arsenic	0.0062	mg/L	0.0050	10/11/24 13:29	
EPA 6020B	Boron	0.61	mg/L	0.040	10/09/24 17:54	
92756894002	**HAM-PT-08**					
EPA 6010D	Iron	3.7	mg/L	0.050	10/07/24 17:44	
EPA 6020B	Arsenic	0.085	mg/L	0.0050	10/09/24 18:08	
EPA 6020B	Boron	0.56	mg/L	0.040	10/09/24 18:08	
92756894003	**HAM-PT-09**					
EPA 6010D	Iron	0.12	mg/L	0.050	10/07/24 18:04	
EPA 6020B	Boron	1.4	mg/L	0.040	10/09/24 18:12	
EPA 6020B	Molybdenum	0.14	mg/L	0.010	10/09/24 18:12	
92756894004	**HAM-PT-10**					
EPA 6010D	Iron	0.17	mg/L	0.050	10/07/24 18:09	
EPA 6020B	Boron	1.7	mg/L	0.040	10/09/24 18:16	
EPA 6020B	Molybdenum	0.16	mg/L	0.010	10/09/24 18:16	
92756894005	**HAM-PT-11**					
EPA 6010D	Iron	1.8	mg/L	0.050	10/07/24 18:23	
EPA 6020B	Boron	1.3	mg/L	0.040	10/09/24 18:19	
EPA 6020B	Molybdenum	0.069	mg/L	0.010	10/09/24 18:19	
92756894006	**HAM-PT-12**					
EPA 6010D	Iron	0.043J	mg/L	0.050	10/07/24 18:28	
EPA 6020B	Boron	1.3	mg/L	0.040	10/09/24 18:30	
EPA 6020B	Molybdenum	0.14	mg/L	0.010	10/09/24 18:30	
92756894007	**HAM-PT-13**					
EPA 6010D	Iron	1.3	mg/L	0.050	10/07/24 18:33	
EPA 6020B	Arsenic	0.0026J	mg/L	0.0050	10/11/24 13:33	
EPA 6020B	Boron	0.56	mg/L	0.040	10/09/24 18:34	
92756894008	**HAM-PT-14**					
EPA 6010D	Iron	6.7	mg/L	0.050	10/07/24 18:38	
EPA 6020B	Arsenic	0.040	mg/L	0.0050	10/11/24 13:37	
EPA 6020B	Boron	0.56	mg/L	0.040	10/09/24 18:38	
92756894009	**HAM-PT-15**					
EPA 6010D	Iron	0.12	mg/L	0.050	10/07/24 18:43	
EPA 6020B	Arsenic	0.0034J	mg/L	0.0050	10/11/24 13:41	
EPA 6020B	Boron	0.63	mg/L	0.040	10/09/24 18:41	
92756894010	**HAM-AP1-EB-01**					
EPA 6020B	Arsenic	0.0021J	mg/L	0.0050	10/09/24 18:49	B
92756894011	**HAM-AP1-FB-01**					
EPA 6020B	Arsenic	0.0020J	mg/L	0.0050	10/09/24 18:52	B

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Hammond AP-1_Week 2
Pace Project No.: 92756894

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92756894012	**HAM-AP1-FD-01**					
EPA 6010D	Iron	0.10	mg/L	0.050	10/07/24 19:02	
EPA 6020B	Arsenic	0.0036J	mg/L	0.0050	10/09/24 18:56	B
EPA 6020B	Boron	1.3	mg/L	0.040	10/09/24 18:56	
EPA 6020B	Molybdenum	0.15	mg/L	0.010	10/09/24 18:56	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Hammond AP-1_Week 2
Pace Project No.: 92756894

Sample: HAM-PT-07 **Lab ID: 92756894001** Collected: 10/01/24 14:31 Received: 10/03/24 15:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.23**	mg/L	0.050	0.025	1	10/05/24 13:24	10/07/24 17:40	7439-89-6	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Arsenic	**0.0062**	mg/L	0.0050	0.00084	1	10/05/24 13:24	10/11/24 13:29	7440-38-2	
Boron	**0.61**	mg/L	0.040	0.012	1	10/05/24 13:24	10/09/24 17:54	7440-42-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Hammond AP-1_Week 2
Pace Project No.: 92756894

Sample: HAM-PT-08 **Lab ID: 92756894002** Collected: 10/01/24 14:40 Received: 10/03/24 15:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**3.7**	mg/L	0.050	0.025	1	10/05/24 13:24	10/07/24 17:44	7439-89-6	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Arsenic	**0.085**	mg/L	0.0050	0.00084	1	10/05/24 13:24	10/09/24 18:08	7440-38-2	
Boron	**0.56**	mg/L	0.040	0.012	1	10/05/24 13:24	10/09/24 18:08	7440-42-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1_Week 2
Pace Project No.: 92756894

Sample: HAM-PT-09 **Lab ID: 92756894003** Collected: 10/02/24 12:21 Received: 10/03/24 15:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.12**	mg/L	0.050	0.025	1	10/05/24 13:24	10/07/24 18:04	7439-89-6	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Boron	**1.4**	mg/L	0.040	0.012	1	10/05/24 13:24	10/09/24 18:12	7440-42-8	
Molybdenum	**0.14**	mg/L	0.010	0.00062	1	10/05/24 13:24	10/09/24 18:12	7439-98-7	

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ANALYTICAL RESULTS

Project: Hammond AP-1_Week 2
Pace Project No.: 92756894

Sample: HAM-PT-10 **Lab ID: 92756894004** Collected: 10/02/24 12:10 Received: 10/03/24 15:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.17**	mg/L	0.050	0.025	1	10/05/24 13:24	10/07/24 18:09	7439-89-6	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Boron	**1.7**	mg/L	0.040	0.012	1	10/05/24 13:24	10/09/24 18:16	7440-42-8	
Molybdenum	**0.16**	mg/L	0.010	0.00062	1	10/05/24 13:24	10/09/24 18:16	7439-98-7	

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ANALYTICAL RESULTS

Project: Hammond AP-1_Week 2
Pace Project No.: 92756894

Sample: HAM-PT-11 **Lab ID: 92756894005** Collected: 10/02/24 10:06 Received: 10/03/24 15:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**1.8**	mg/L	0.050	0.025	1	10/05/24 13:24	10/07/24 18:23	7439-89-6	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Boron	**1.3**	mg/L	0.040	0.012	1	10/05/24 13:24	10/09/24 18:19	7440-42-8	
Molybdenum	**0.069**	mg/L	0.010	0.00062	1	10/05/24 13:24	10/09/24 18:19	7439-98-7	

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ANALYTICAL RESULTS

Project: Hammond AP-1_Week 2
Pace Project No.: 92756894

Sample: HAM-PT-12 **Lab ID: 92756894006** Collected: 10/02/24 10:30 Received: 10/03/24 15:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.043J**	mg/L	0.050	0.025	1	10/05/24 13:24	10/07/24 18:28	7439-89-6	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Boron	**1.3**	mg/L	0.040	0.012	1	10/05/24 13:24	10/09/24 18:30	7440-42-8	
Molybdenum	**0.14**	mg/L	0.010	0.00062	1	10/05/24 13:24	10/09/24 18:30	7439-98-7	

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ANALYTICAL RESULTS

Project: Hammond AP-1_Week 2
Pace Project No.: 92756894

Sample: HAM-PT-13 **Lab ID: 92756894007** Collected: 10/01/24 12:15 Received: 10/03/24 15:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**1.3**	mg/L	0.050	0.025	1	10/05/24 13:24	10/07/24 18:33	7439-89-6	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Arsenic	**0.0026J**	mg/L	0.0050	0.00084	1	10/05/24 13:24	10/11/24 13:33	7440-38-2	
Boron	**0.56**	mg/L	0.040	0.012	1	10/05/24 13:24	10/09/24 18:34	7440-42-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1_Week 2
Pace Project No.: 92756894

Sample: HAM-PT-14 **Lab ID: 92756894008** Collected: 10/01/24 11:20 Received: 10/03/24 15:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**6.7**	mg/L	0.050	0.025	1	10/05/24 13:24	10/07/24 18:38	7439-89-6	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Arsenic	**0.040**	mg/L	0.0050	0.00084	1	10/05/24 13:24	10/11/24 13:37	7440-38-2	
Boron	**0.56**	mg/L	0.040	0.012	1	10/05/24 13:24	10/09/24 18:38	7440-42-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1_Week 2
Pace Project No.: 92756894

Sample: HAM-PT-15 **Lab ID: 92756894009** Collected: 10/01/24 17:25 Received: 10/03/24 15:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.12**	mg/L	0.050	0.025	1	10/05/24 13:24	10/07/24 18:43	7439-89-6	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Arsenic	**0.0034J**	mg/L	0.0050	0.00084	1	10/05/24 13:24	10/11/24 13:41	7440-38-2	
Boron	**0.63**	mg/L	0.040	0.012	1	10/05/24 13:24	10/09/24 18:41	7440-42-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1_Week 2
Pace Project No.: 92756894

Sample: HAM-AP1-EB-01 **Lab ID: 92756894010** Collected: 10/02/24 13:45 Received: 10/03/24 15:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.050	0.025	1	10/05/24 13:24	10/07/24 18:53	7439-89-6	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Arsenic	**0.0021J**	mg/L	0.0050	0.00084	1	10/05/24 13:24	10/09/24 18:49	7440-38-2	B
Boron	ND	mg/L	0.040	0.012	1	10/05/24 13:24	10/09/24 18:49	7440-42-8	
Molybdenum	ND	mg/L	0.010	0.00062	1	10/05/24 13:24	10/09/24 18:49	7439-98-7	

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ANALYTICAL RESULTS

Project: Hammond AP-1_Week 2
Pace Project No.: 92756894

Sample: HAM-AP1-FB-01 **Lab ID: 92756894011** Collected: 10/02/24 13:40 Received: 10/03/24 15:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.050	0.025	1	10/05/24 13:24	10/07/24 18:57	7439-89-6	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Arsenic	**0.0020J**	mg/L	0.0050	0.00084	1	10/05/24 13:24	10/09/24 18:52	7440-38-2	B
Boron	ND	mg/L	0.040	0.012	1	10/05/24 13:24	10/09/24 18:52	7440-42-8	
Molybdenum	ND	mg/L	0.010	0.00062	1	10/05/24 13:24	10/09/24 18:52	7439-98-7	

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ANALYTICAL RESULTS

Project: Hammond AP-1_Week 2
Pace Project No.: 92756894

Sample: HAM-AP1-FD-01 **Lab ID: 92756894012** Collected: 10/02/24 00:00 Received: 10/03/24 15:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.10**	mg/L	0.050	0.025	1	10/05/24 13:24	10/07/24 19:02	7439-89-6	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Arsenic	**0.0036J**	mg/L	0.0050	0.00084	1	10/05/24 13:24	10/09/24 18:56	7440-38-2	B
Boron	**1.3**	mg/L	0.040	0.012	1	10/05/24 13:24	10/09/24 18:56	7440-42-8	
Molybdenum	**0.15**	mg/L	0.010	0.00062	1	10/05/24 13:24	10/09/24 18:56	7439-98-7	

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QUALITY CONTROL DATA

Project: Hammond AP-1_Week 2
Pace Project No.: 92756894

QC Batch: 886934 — Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A — Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92756894001, 92756894002, 92756894003, 92756894004, 92756894005, 92756894006, 92756894007, 92756894008, 92756894009, 92756894010, 92756894011, 92756894012

METHOD BLANK: 4568098 — Matrix: Water
Associated Lab Samples: 92756894001, 92756894002, 92756894003, 92756894004, 92756894005, 92756894006, 92756894007, 92756894008, 92756894009, 92756894010, 92756894011, 92756894012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Iron	mg/L	ND	0.050	0.025	10/07/24 17:30	

LABORATORY CONTROL SAMPLE: 4568099

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron	mg/L	1	0.92	92	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4568100 4568101

Parameter	Units	92756894002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Iron	mg/L	3.7	1	1	4.8	4.7	108	97	75-125	2	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: Hammond AP-1_Week 2
Pace Project No.: 92756894

QC Batch: 886933 — Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A — Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92756894001, 92756894002, 92756894003, 92756894004, 92756894005, 92756894006, 92756894007, 92756894008, 92756894009, 92756894010, 92756894011, 92756894012

METHOD BLANK: 4568094 — Matrix: Water
Associated Lab Samples: 92756894001, 92756894002, 92756894003, 92756894004, 92756894005, 92756894006, 92756894007, 92756894008, 92756894009, 92756894010, 92756894011, 92756894012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	mg/L	ND	0.0050	0.00084	10/11/24 13:25	
Boron	mg/L	ND	0.040	0.012	10/09/24 17:46	
Molybdenum	mg/L	ND	0.010	0.00062	10/09/24 17:46	

LABORATORY CONTROL SAMPLE: 4568095

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	0.1	0.099	99	80-120	
Boron	mg/L	1	1.0	103	80-120	
Molybdenum	mg/L	0.1	0.098	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4568096 4568097

Parameter	Units	92756894001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	0.0062	0.1	0.1	0.11	0.11	102	103	75-125	1	20	
Boron	mg/L	0.61	1	1	1.6	1.7	102	106	75-125	2	20	
Molybdenum	mg/L	5.2J ug/L	0.1	0.1	0.098	0.098	92	93	75-125	1	20	

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QUALIFIERS

Project: Hammond AP-1_Week 2
Pace Project No.: 92756894

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

B	Analyte was detected in the associated method blank.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Hammond AP-1_Week 2
Pace Project No.: 92756894

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92756894001	**HAM-PT-07**	EPA 3010A	886934	EPA 6010D	886973
92756894002	**HAM-PT-08**	EPA 3010A	886934	EPA 6010D	886973
92756894003	**HAM-PT-09**	EPA 3010A	886934	EPA 6010D	886973
92756894004	**HAM-PT-10**	EPA 3010A	886934	EPA 6010D	886973
92756894005	**HAM-PT-11**	EPA 3010A	886934	EPA 6010D	886973
92756894006	**HAM-PT-12**	EPA 3010A	886934	EPA 6010D	886973
92756894007	**HAM-PT-13**	EPA 3010A	886934	EPA 6010D	886973
92756894008	**HAM-PT-14**	EPA 3010A	886934	EPA 6010D	886973
92756894009	**HAM-PT-15**	EPA 3010A	886934	EPA 6010D	886973
92756894010	**HAM-AP1-EB-01**	EPA 3010A	886934	EPA 6010D	886973
92756894011	**HAM-AP1-FB-01**	EPA 3010A	886934	EPA 6010D	886973
92756894012	**HAM-AP1-FD-01**	EPA 3010A	886934	EPA 6010D	886973
92756894001	**HAM-PT-07**	EPA 3005A	886933	EPA 6020B	886977
92756894002	**HAM-PT-08**	EPA 3005A	886933	EPA 6020B	886977
92756894003	**HAM-PT-09**	EPA 3005A	886933	EPA 6020B	886977
92756894004	**HAM-PT-10**	EPA 3005A	886933	EPA 6020B	886977
92756894005	**HAM-PT-11**	EPA 3005A	886933	EPA 6020B	886977
92756894006	**HAM-PT-12**	EPA 3005A	886933	EPA 6020B	886977
92756894007	**HAM-PT-13**	EPA 3005A	886933	EPA 6020B	886977
92756894008	**HAM-PT-14**	EPA 3005A	886933	EPA 6020B	886977
92756894009	**HAM-PT-15**	EPA 3005A	886933	EPA 6020B	886977
92756894010	**HAM-AP1-EB-01**	EPA 3005A	886933	EPA 6020B	886977
92756894011	**HAM-AP1-FB-01**	EPA 3005A	886933	EPA 6020B	886977
92756894012	**HAM-AP1-FD-01**	EPA 3005A	886933	EPA 6020B	886977

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CHAIN-OF-CUSTODY / Analytical Request Docum

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurat

WO# : 92756894

92756894

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co
Address:	Atlanta, GA	Copy To:	Geosyntec Contacts	Company Name:	
				Address:	
Email To:	SCS Contacts	Purchase Order No.:	GPC82474-0001	Pace Quote Reference:	
Phone:	Fax:	Project Name:	Hammond AP-1_Week 2	Pace Project Manager:	Bonnie Vang
Requested Due Date/TAT:	10 Day	Project Number:		Pace Profile #:	16483

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER

☐ UST ☐ RCRA ☑ OTHER CCR

Site Location STATE: GA

Requested Analysis Filtered (Y/N)

ITEM #	Section D Required Client Information: SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX / CODE: DRINKING WATER DW; WATER WT; WASTE WATER WW; PRODUCT P; SOIL/SOLID SL; OIL OL; WIPE WP; AIR AR; OTHER OT; TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	Total 601/6022 B As, Mo, Fe	Total 601/6022-B As, Fe	Total 601/6022-B Mo, Fe	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
					COMPOSITE		COMPOSITE												Y/N	N	N	N		
1	HAM-PT-07		WG	G	10/1/2024	1431			21	1			-								X		N	
2	HAM-PT-08		WG	G	10/1/2024	1440			22	1			1								X		N	
3	HAM-PT-09		WG	G	10/2/2024	1221			21	1			1									X	N	
4	HAM-PT-10		WG	G	10/2/2024	1210			22	1			1									X	N	
5	HAM-PT-11		WG	G	10/2/2024	1006			21	1			1									X	N	
6	HAM-PT-12		WG	G	10/2/2024	1030			21	1			1									X	N	
7	HAM-PT-13		WG	G	10/1/2024	1215			21	1			1								X		N	
8	HAM-PT-14		WG	G	10/1/2024	1120			19	1			1								X		N	
9	HAM-PT-15		WG	G	10/1/2024	1725			21	1			1								X		N	
10	HAM-AP1-EB-01		WG	G	10/2/2024	1345			21	1			1							X			N	
11	HAM-AP1-FB-01		WG	G	10/2/2024	1340			21	1			1							X			N	
12	HAM-AP1-FD-01		WG	G	10/2/2024	0000			21	1			1							X			N	

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Task Code: HAM-CCR-CA-20241001	Zain Webb / Geosyntec	10-3-24	1050	Ryan William / Pace	10/3/2024	1060	
	Ryan William / Pace	10/3/2024	1525	MAW	10/3/24	1525	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Zain Webb, Elisabeth Russell / Geosyntec Consultants, Inc.

SIGNATURE of SAMPLER: Zain Webb/Elisabeth Russell DATE Signed (MM/DD/YY): 10/3/24

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-Feb-2007

DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☒ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #: **WO# : 92756894**

PM: BV Due Date: 10/18/24

CLIENT: 92- GP-HAM

Courier: ☐ Commercial ☒ Pace ☐ Fed Ex ☐ UPS ☐ USPS ☐ Other: ☐ Client

Custody Seal Present? ☐ Yes ☐ No Seals Intact? ☐ Yes ☐ No ☒ N/A

Date/Initials Person Examining Contents: MSM

Packing Material: ☒ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☒ N/A

Thermometer: ☐ IR Gun ID: 214

Type of Ice: ☒ Wet ☐ Blue ☐ None

Cooler Temp: 5.3 Correction Factor: Add/Subtract (°C) 0

Cooler Temp Corrected (°C): 5.3

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☒ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☒ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☒ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☒ No	☐ N/A	4.
Sufficient Volume?	☒ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☒ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☒ Yes	☐ No	☐ N/A	
Containers Intact?	☒ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☒ N/A	8.
Sample Labels Match COC?	☒ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: WT				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☒ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☒ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☒ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

Qualtrax ID: 69614

Pace ANALYTICAL SERVICES

DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

WO# : 92756894

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg
**Bottom half of box is to list number of bottles
***Check all unpreserved Nitrates for chlorine

Project #

PM: BV Due Date: 10/18/24
CLIENT: 92- GP-HAM

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Client GA Power Profile/EZ (Circle one) 16483 Notes

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)		BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
CC							Gt																							
1							1																							
2							1																							
3							1																							
4							1																							
5							1																							
6							1																							
7							1																							
8							1																							
9							1																							
10							1																							
11							1																							
12							1																							

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

October 14, 2024

Kristen Jurinko
Southern Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, GA 30308

RE: Project: Hammond AP-1_Week 2
Pace Project No.: 92756894

Dear Kristen Jurinko:

Enclosed are the analytical results for sample(s) received by the laboratory on October 03, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Peachtree Corners, GA

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Bonnie Vang
bonnie.vang@pacelabs.com
704-977-0968
Project Manager

Enclosures

cc: Kip Gray, Geosyntec
Christine Hug, Geosyntec Consultants, Inc.
Thomas Kessler, Geosyntec Consultants
Whitney Law, Geosyntec Consultants
Laura Midkiff, Southern Company
Caroline Nelson, Geosyntec Consultants, Inc
Jamie Newsome, Geosyntec Consultants
Zain Webb, Geosyntec Consultants

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CERTIFICATIONS

Project: Hammond AP-1_Week 2
Pace Project No.: 92756894

Pace Analytical Services Peachtree Corners
110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812
North Carolina Certification #: 381
South Carolina Certification #: 98011001
Virginia Certification #: 460204

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Hammond AP-1_Week 2
Pace Project No.: 92756894

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92756894001	**HAM-PT-07**	Water	10/01/24 14:31	10/03/24 15:25
92756894002	**HAM-PT-08**	Water	10/01/24 14:40	10/03/24 15:25
92756894003	**HAM-PT-09**	Water	10/02/24 12:21	10/03/24 15:25
92756894004	**HAM-PT-10**	Water	10/02/24 12:10	10/03/24 15:25
92756894005	**HAM-PT-11**	Water	10/02/24 10:06	10/03/24 15:25
92756894006	**HAM-PT-12**	Water	10/02/24 10:30	10/03/24 15:25
92756894007	**HAM-PT-13**	Water	10/01/24 12:15	10/03/24 15:25
92756894008	**HAM-PT-14**	Water	10/01/24 11:20	10/03/24 15:25
92756894009	**HAM-PT-15**	Water	10/01/24 17:25	10/03/24 15:25
92756894010	**HAM-AP1-EB-01**	Water	10/02/24 13:45	10/03/24 15:25
92756894011	**HAM-AP1-FB-01**	Water	10/02/24 13:40	10/03/24 15:25
92756894012	**HAM-AP1-FD-01**	Water	10/02/24 00:00	10/03/24 15:25

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SAMPLE ANALYTE COUNT

Project: Hammond AP-1_Week 2
Pace Project No.: 92756894

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92756894001	**HAM-PT-07**	EPA 6010D	AJM	1
		EPA 6020B	CW1	2
92756894002	**HAM-PT-08**	EPA 6010D	AJM	1
		EPA 6020B	CW1	2
92756894003	**HAM-PT-09**	EPA 6010D	AJM	1
		EPA 6020B	CW1	2
92756894004	**HAM-PT-10**	EPA 6010D	AJM	1
		EPA 6020B	CW1	2
92756894005	**HAM-PT-11**	EPA 6010D	AJM	1
		EPA 6020B	CW1	2
92756894006	**HAM-PT-12**	EPA 6010D	AJM	1
		EPA 6020B	CW1	2
92756894007	**HAM-PT-13**	EPA 6010D	AJM	1
		EPA 6020B	CW1	2
92756894008	**HAM-PT-14**	EPA 6010D	AJM	1
		EPA 6020B	CW1	2
92756894009	**HAM-PT-15**	EPA 6010D	AJM	1
		EPA 6020B	CW1	2
92756894010	**HAM-AP1-EB-01**	EPA 6010D	AJM	1
		EPA 6020B	CW1	3
92756894011	**HAM-AP1-FB-01**	EPA 6010D	AJM	1
		EPA 6020B	CW1	3
92756894012	**HAM-AP1-FD-01**	EPA 6010D	AJM	1
		EPA 6020B	CW1	3

PASI-GA = Pace Analytical Services - Peachtree Corners, GA

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SUMMARY OF DETECTION

Project: Hammond AP-1_Week 2
Pace Project No.: 92756894

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92756894001	**HAM-PT-07**					
EPA 6010D	Iron	0.23	mg/L	0.050	10/07/24 17:40	
EPA 6020B	Arsenic	0.0062	mg/L	0.0050	10/11/24 13:29	
EPA 6020B	Boron	0.61	mg/L	0.040	10/09/24 17:54	
92756894002	**HAM-PT-08**					
EPA 6010D	Iron	3.7	mg/L	0.050	10/07/24 17:44	
EPA 6020B	Arsenic	0.085	mg/L	0.0050	10/09/24 18:08	
EPA 6020B	Boron	0.56	mg/L	0.040	10/09/24 18:08	
92756894003	**HAM-PT-09**					
EPA 6010D	Iron	0.12	mg/L	0.050	10/07/24 18:04	
EPA 6020B	Boron	1.4	mg/L	0.040	10/09/24 18:12	
EPA 6020B	Molybdenum	0.14	mg/L	0.010	10/09/24 18:12	
92756894004	**HAM-PT-10**					
EPA 6010D	Iron	0.17	mg/L	0.050	10/07/24 18:09	
EPA 6020B	Boron	1.7	mg/L	0.040	10/09/24 18:16	
EPA 6020B	Molybdenum	0.16	mg/L	0.010	10/09/24 18:16	
92756894005	**HAM-PT-11**					
EPA 6010D	Iron	1.8	mg/L	0.050	10/07/24 18:23	
EPA 6020B	Boron	1.3	mg/L	0.040	10/09/24 18:19	
EPA 6020B	Molybdenum	0.069	mg/L	0.010	10/09/24 18:19	
92756894006	**HAM-PT-12**					
EPA 6010D	Iron	0.043J	mg/L	0.050	10/07/24 18:28	
EPA 6020B	Boron	1.3	mg/L	0.040	10/09/24 18:30	
EPA 6020B	Molybdenum	0.14	mg/L	0.010	10/09/24 18:30	
92756894007	**HAM-PT-13**					
EPA 6010D	Iron	1.3	mg/L	0.050	10/07/24 18:33	
EPA 6020B	Arsenic	0.0026J	mg/L	0.0050	10/11/24 13:33	
EPA 6020B	Boron	0.56	mg/L	0.040	10/09/24 18:34	
92756894008	**HAM-PT-14**					
EPA 6010D	Iron	6.7	mg/L	0.050	10/07/24 18:38	
EPA 6020B	Arsenic	0.040	mg/L	0.0050	10/11/24 13:37	
EPA 6020B	Boron	0.56	mg/L	0.040	10/09/24 18:38	
92756894009	**HAM-PT-15**					
EPA 6010D	Iron	0.12	mg/L	0.050	10/07/24 18:43	
EPA 6020B	Arsenic	0.0034J	mg/L	0.0050	10/11/24 13:41	
EPA 6020B	Boron	0.63	mg/L	0.040	10/09/24 18:41	
92756894010	**HAM-AP1-EB-01**					
EPA 6020B	Arsenic	0.0021J	mg/L	0.0050	10/09/24 18:49	B
92756894011	**HAM-AP1-FB-01**					
EPA 6020B	Arsenic	0.0020J	mg/L	0.0050	10/09/24 18:52	B

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SUMMARY OF DETECTION

Project: Hammond AP-1_Week 2
Pace Project No.: 92756894

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92756894012	**HAM-AP1-FD-01**					
EPA 6010D	Iron	0.10	mg/L	0.050	10/07/24 19:02	
EPA 6020B	Arsenic	0.0036J	mg/L	0.0050	10/09/24 18:56	B
EPA 6020B	Boron	1.3	mg/L	0.040	10/09/24 18:56	
EPA 6020B	Molybdenum	0.15	mg/L	0.010	10/09/24 18:56	

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ANALYTICAL RESULTS

Project: Hammond AP-1_Week 2
Pace Project No.: 92756894

Sample: HAM-PT-07 **Lab ID: 92756894001** Collected: 10/01/24 14:31 Received: 10/03/24 15:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.23**	mg/L	0.050	0.025	1	10/05/24 13:24	10/07/24 17:40	7439-89-6	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Arsenic	**0.0062**	mg/L	0.0050	0.00084	1	10/05/24 13:24	10/11/24 13:29	7440-38-2	
Boron	**0.61**	mg/L	0.040	0.012	1	10/05/24 13:24	10/09/24 17:54	7440-42-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1_Week 2
Pace Project No.: 92756894

Sample: HAM-PT-08 **Lab ID: 92756894002** Collected: 10/01/24 14:40 Received: 10/03/24 15:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**3.7**	mg/L	0.050	0.025	1	10/05/24 13:24	10/07/24 17:44	7439-89-6	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Arsenic	**0.085**	mg/L	0.0050	0.00084	1	10/05/24 13:24	10/09/24 18:08	7440-38-2	
Boron	**0.56**	mg/L	0.040	0.012	1	10/05/24 13:24	10/09/24 18:08	7440-42-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1_Week 2
Pace Project No.: 92756894

Sample: HAM-PT-09 **Lab ID: 92756894003** Collected: 10/02/24 12:21 Received: 10/03/24 15:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.12**	mg/L	0.050	0.025	1	10/05/24 13:24	10/07/24 18:04	7439-89-6	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Boron	**1.4**	mg/L	0.040	0.012	1	10/05/24 13:24	10/09/24 18:12	7440-42-8	
Molybdenum	**0.14**	mg/L	0.010	0.00062	1	10/05/24 13:24	10/09/24 18:12	7439-98-7	

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ANALYTICAL RESULTS

Project: Hammond AP-1_Week 2
Pace Project No.: 92756894

Sample: HAM-PT-10 **Lab ID: 92756894004** Collected: 10/02/24 12:10 Received: 10/03/24 15:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.17**	mg/L	0.050	0.025	1	10/05/24 13:24	10/07/24 18:09	7439-89-6	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Boron	**1.7**	mg/L	0.040	0.012	1	10/05/24 13:24	10/09/24 18:16	7440-42-8	
Molybdenum	**0.16**	mg/L	0.010	0.00062	1	10/05/24 13:24	10/09/24 18:16	7439-98-7	

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ANALYTICAL RESULTS

Project: Hammond AP-1_Week 2
Pace Project No.: 92756894

Sample: HAM-PT-11 **Lab ID: 92756894005** Collected: 10/02/24 10:06 Received: 10/03/24 15:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**1.8**	mg/L	0.050	0.025	1	10/05/24 13:24	10/07/24 18:23	7439-89-6	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Boron	**1.3**	mg/L	0.040	0.012	1	10/05/24 13:24	10/09/24 18:19	7440-42-8	
Molybdenum	**0.069**	mg/L	0.010	0.00062	1	10/05/24 13:24	10/09/24 18:19	7439-98-7	

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ANALYTICAL RESULTS

Project: Hammond AP-1_Week 2
Pace Project No.: 92756894

Sample: HAM-PT-12 **Lab ID: 92756894006** Collected: 10/02/24 10:30 Received: 10/03/24 15:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.043J**	mg/L	0.050	0.025	1	10/05/24 13:24	10/07/24 18:28	7439-89-6	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Boron	**1.3**	mg/L	0.040	0.012	1	10/05/24 13:24	10/09/24 18:30	7440-42-8	
Molybdenum	**0.14**	mg/L	0.010	0.00062	1	10/05/24 13:24	10/09/24 18:30	7439-98-7	

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ANALYTICAL RESULTS

Project: Hammond AP-1_Week 2
Pace Project No.: 92756894

Sample: HAM-PT-13 **Lab ID: 92756894007** Collected: 10/01/24 12:15 Received: 10/03/24 15:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**1.3**	mg/L	0.050	0.025	1	10/05/24 13:24	10/07/24 18:33	7439-89-6	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Arsenic	**0.0026J**	mg/L	0.0050	0.00084	1	10/05/24 13:24	10/11/24 13:33	7440-38-2	
Boron	**0.56**	mg/L	0.040	0.012	1	10/05/24 13:24	10/09/24 18:34	7440-42-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1_Week 2
Pace Project No.: 92756894

Sample: HAM-PT-14 **Lab ID: 92756894008** Collected: 10/01/24 11:20 Received: 10/03/24 15:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**6.7**	mg/L	0.050	0.025	1	10/05/24 13:24	10/07/24 18:38	7439-89-6	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Arsenic	**0.040**	mg/L	0.0050	0.00084	1	10/05/24 13:24	10/11/24 13:37	7440-38-2	
Boron	**0.56**	mg/L	0.040	0.012	1	10/05/24 13:24	10/09/24 18:38	7440-42-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1_Week 2
Pace Project No.: 92756894

Sample: HAM-PT-15 **Lab ID: 92756894009** Collected: 10/01/24 17:25 Received: 10/03/24 15:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.12**	mg/L	0.050	0.025	1	10/05/24 13:24	10/07/24 18:43	7439-89-6	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Arsenic	**0.0034J**	mg/L	0.0050	0.00084	1	10/05/24 13:24	10/11/24 13:41	7440-38-2	
Boron	**0.63**	mg/L	0.040	0.012	1	10/05/24 13:24	10/09/24 18:41	7440-42-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1_Week 2
Pace Project No.: 92756894

Sample: HAM-AP1-EB-01 **Lab ID: 92756894010** Collected: 10/02/24 13:45 Received: 10/03/24 15:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.050	0.025	1	10/05/24 13:24	10/07/24 18:53	7439-89-6	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Arsenic	**0.0021J**	mg/L	0.0050	0.00084	1	10/05/24 13:24	10/09/24 18:49	7440-38-2	B
Boron	ND	mg/L	0.040	0.012	1	10/05/24 13:24	10/09/24 18:49	7440-42-8	
Molybdenum	ND	mg/L	0.010	0.00062	1	10/05/24 13:24	10/09/24 18:49	7439-98-7	

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ANALYTICAL RESULTS

Project: Hammond AP-1_Week 2
Pace Project No.: 92756894

Sample: HAM-AP1-FB-01 **Lab ID: 92756894011** Collected: 10/02/24 13:40 Received: 10/03/24 15:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.050	0.025	1	10/05/24 13:24	10/07/24 18:57	7439-89-6	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Arsenic	**0.0020J**	mg/L	0.0050	0.00084	1	10/05/24 13:24	10/09/24 18:52	7440-38-2	B
Boron	ND	mg/L	0.040	0.012	1	10/05/24 13:24	10/09/24 18:52	7440-42-8	
Molybdenum	ND	mg/L	0.010	0.00062	1	10/05/24 13:24	10/09/24 18:52	7439-98-7	

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ANALYTICAL RESULTS

Project: Hammond AP-1_Week 2
Pace Project No.: 92756894

Sample: HAM-AP1-FD-01 **Lab ID: 92756894012** Collected: 10/02/24 00:00 Received: 10/03/24 15:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.10**	mg/L	0.050	0.025	1	10/05/24 13:24	10/07/24 19:02	7439-89-6	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Arsenic	**0.0036J**	mg/L	0.0050	0.00084	1	10/05/24 13:24	10/09/24 18:56	7440-38-2	B
Boron	**1.3**	mg/L	0.040	0.012	1	10/05/24 13:24	10/09/24 18:56	7440-42-8	
Molybdenum	**0.15**	mg/L	0.010	0.00062	1	10/05/24 13:24	10/09/24 18:56	7439-98-7	

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QUALITY CONTROL DATA

Project: Hammond AP-1_Week 2
Pace Project No.: 92756894

QC Batch: 886934 — Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A — Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92756894001, 92756894002, 92756894003, 92756894004, 92756894005, 92756894006, 92756894007, 92756894008, 92756894009, 92756894010, 92756894011, 92756894012

METHOD BLANK: 4568098 — Matrix: Water
Associated Lab Samples: 92756894001, 92756894002, 92756894003, 92756894004, 92756894005, 92756894006, 92756894007, 92756894008, 92756894009, 92756894010, 92756894011, 92756894012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Iron	mg/L	ND	0.050	0.025	10/07/24 17:30	

LABORATORY CONTROL SAMPLE: 4568099

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron	mg/L	1	0.92	92	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4568100 4568101

Parameter	Units	92756894002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Iron	mg/L	3.7	1	1	4.8	4.7	108	97	75-125	2	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: Hammond AP-1_Week 2
Pace Project No.: 92756894

QC Batch: 886933
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92756894001, 92756894002, 92756894003, 92756894004, 92756894005, 92756894006, 92756894007, 92756894008, 92756894009, 92756894010, 92756894011, 92756894012

METHOD BLANK: 4568094 Matrix: Water
Associated Lab Samples: 92756894001, 92756894002, 92756894003, 92756894004, 92756894005, 92756894006, 92756894007, 92756894008, 92756894009, 92756894010, 92756894011, 92756894012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	mg/L	ND	0.0050	0.00084	10/11/24 13:25	
Boron	mg/L	ND	0.040	0.012	10/09/24 17:46	
Molybdenum	mg/L	ND	0.010	0.00062	10/09/24 17:46	

LABORATORY CONTROL SAMPLE: 4568095

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	0.1	0.099	99	80-120	
Boron	mg/L	1	1.0	103	80-120	
Molybdenum	mg/L	0.1	0.098	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4568096 4568097

Parameter	Units	92756894001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	0.0062	0.1	0.1	0.11	0.11	102	103	75-125	1	20	
Boron	mg/L	0.61	1	1	1.6	1.7	102	106	75-125	2	20	
Molybdenum	mg/L	5.2J ug/L	0.1	0.1	0.098	0.098	92	93	75-125	1	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALIFIERS

Project: Hammond AP-1_Week 2
Pace Project No.: 92756894

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

B	Analyte was detected in the associated method blank.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Hammond AP-1_Week 2
Pace Project No.: 92756894

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92756894001	**HAM-PT-07**	EPA 3010A	886934	EPA 6010D	886973
92756894002	**HAM-PT-08**	EPA 3010A	886934	EPA 6010D	886973
92756894003	**HAM-PT-09**	EPA 3010A	886934	EPA 6010D	886973
92756894004	**HAM-PT-10**	EPA 3010A	886934	EPA 6010D	886973
92756894005	**HAM-PT-11**	EPA 3010A	886934	EPA 6010D	886973
92756894006	**HAM-PT-12**	EPA 3010A	886934	EPA 6010D	886973
92756894007	**HAM-PT-13**	EPA 3010A	886934	EPA 6010D	886973
92756894008	**HAM-PT-14**	EPA 3010A	886934	EPA 6010D	886973
92756894009	**HAM-PT-15**	EPA 3010A	886934	EPA 6010D	886973
92756894010	**HAM-AP1-EB-01**	EPA 3010A	886934	EPA 6010D	886973
92756894011	**HAM-AP1-FB-01**	EPA 3010A	886934	EPA 6010D	886973
92756894012	**HAM-AP1-FD-01**	EPA 3010A	886934	EPA 6010D	886973
92756894001	**HAM-PT-07**	EPA 3005A	886933	EPA 6020B	886977
92756894002	**HAM-PT-08**	EPA 3005A	886933	EPA 6020B	886977
92756894003	**HAM-PT-09**	EPA 3005A	886933	EPA 6020B	886977
92756894004	**HAM-PT-10**	EPA 3005A	886933	EPA 6020B	886977
92756894005	**HAM-PT-11**	EPA 3005A	886933	EPA 6020B	886977
92756894006	**HAM-PT-12**	EPA 3005A	886933	EPA 6020B	886977
92756894007	**HAM-PT-13**	EPA 3005A	886933	EPA 6020B	886977
92756894008	**HAM-PT-14**	EPA 3005A	886933	EPA 6020B	886977
92756894009	**HAM-PT-15**	EPA 3005A	886933	EPA 6020B	886977
92756894010	**HAM-AP1-EB-01**	EPA 3005A	886933	EPA 6020B	886977
92756894011	**HAM-AP1-FB-01**	EPA 3005A	886933	EPA 6020B	886977
92756894012	**HAM-AP1-FD-01**	EPA 3005A	886933	EPA 6020B	886977

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CHAIN-OF-CUSTODY / Analytical Request Docum

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurat

WO# : 92756894

92756894

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co
Address:	Atlanta, GA	Copy To:	Geosyntec Contacts	Company Name:	
				Address:	
Email To:	SCS Contacts	Purchase Order No.:	GPC82474-0001	Pace Quote Reference:	
Phone:	Fax:	Project Name:	Hammond AP-1_Week 2	Pace Project Manager:	Bonnie Vang
Requested Due Date/TAT:	10 Day	Project Number:		Pace Profile #:	16483

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER

☐ UST ☐ RCRA ☑ OTHER CCR

Site Location STATE: GA

Requested Analysis Filtered (Y/N)

ITEM #	Section D Required Client Information: SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX / CODE: DRINKING WATER DW; WATER WT; WASTE WATER WW; PRODUCT P; SOIL/SOLID SL; OIL OL; WIPE WP; AIR AR; OTHER OT; TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	Total 601/6022 B As, Mo, Fe	Total 601/6022-B As, Fe	Total 601/6022-B Mo, Fe	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
					COMPOSITE		COMPOSITE												Y/N	N	N	N		
1	HAM-PT-07		WG	G	10/1/2024	1431			21	1			-								X		N	
2	HAM-PT-08		WG	G	10/1/2024	1440			22	1			1								X		N	
3	HAM-PT-09		WG	G	10/2/2024	1221			21	1			1									X	N	
4	HAM-PT-10		WG	G	10/2/2024	1210			22	1			1									X	N	
5	HAM-PT-11		WG	G	10/2/2024	1006			21	1			1									X	N	
6	HAM-PT-12		WG	G	10/2/2024	1030			21	1			1									X	N	
7	HAM-PT-13		WG	G	10/1/2024	1215			21	1			1								X		N	
8	HAM-PT-14		WG	G	10/1/2024	1120			19	1			1								X		N	
9	HAM-PT-15		WG	G	10/1/2024	1725			21	1			1								X		N	
10	HAM-AP1-EB-01		WG	G	10/2/2024	1345			21	1			1							X			N	
11	HAM-AP1-FB-01		WG	G	10/2/2024	1340			21	1			1							X			N	
12	HAM-AP1-FD-01		WG	G	10/2/2024	0000			21	1			1							X			N	

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Task Code: HAM-CCR-CA-20241001	Zain Webb / Geosyntec	10-3-24	1050	Ryan William / Pace	10/3/2024	1060	
	Ryan William / Pace	10/3/2024	1525	MAW	10/3/24	1525	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Zain Webb, Elisabeth Russell / Geosyntec Consultants, Inc.

SIGNATURE of SAMPLER: Zain Webb/Elisabeth Russell DATE Signed (MM/DD/YY): 10/3/24

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-Feb-2007

DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☒ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #: **WO# : 92756894**

PM: BV Due Date: 10/18/24

CLIENT: 92- GP-HAM

Courier: ☐ Commercial ☒ Pace ☐ Fed Ex ☐ UPS ☐ USPS ☐ Other: ☐ Client

Custody Seal Present? ☐ Yes ☐ No Seals Intact? ☐ Yes ☐ No ☒ N/A

Date/Initials Person Examining Contents: MSM

Packing Material: ☒ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☒ N/A

Thermometer: ☐ IR Gun ID: 214

Type of Ice: ☒ Wet ☐ Blue ☐ None

Cooler Temp: 5.3 Correction Factor: Add/Subtract (°C) 0

Cooler Temp Corrected (°C): 5.3

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☒ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☒ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☒ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☒ No	☐ N/A	4.
Sufficient Volume?	☒ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☒ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☒ Yes	☐ No	☐ N/A	
Containers Intact?	☒ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☒ N/A	8.
Sample Labels Match COC?	☒ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: WT				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☒ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☒ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☒ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

Qualtrax ID: 69614

Pace ANALYTICAL SERVICES

DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

WO# : 92756894

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg
**Bottom half of box is to list number of bottles
***Check all unpreserved Nitrates for chlorine

Project #

PM: BV Due Date: 10/18/24
CLIENT: 92- GP-HAM

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Client GA Power Profile/EZ (Circle one) 16483 Notes

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)		BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
CC							Gt																							
1							1																							
2							1																							
3							1																							
4							1																							
5							1																							
6							1																							
7							1																							
8							1																							
9							1																							
10							1																							
11							1																							
12							1																							

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

October 29, 2024

Kristen Jurinko
Southern Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, GA 30308

RE: Project: Hammond AP-1_Week 3
Pace Project No.: 92757972

Dear Kristen Jurinko:

Enclosed are the analytical results for sample(s) received by the laboratory on October 10, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Duluth, MN
- Pace Analytical Services - Peachtree Corners, GA
- Pace Analytical Services - Minneapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Bonnie Vang
bonnie.vang@pacelabs.com
704-977-0968
Project Manager

Enclosures

cc: Kip Gray, Geosyntec
Christine Hug, Geosyntec Consultants, Inc.
Thomas Kessler, Geosyntec Consultants
Whitney Law, Geosyntec Consultants
Laura Midkiff, Southern Company
Caroline Nelson, Geosyntec Consultants, Inc
Jamie Newsome, Geosyntec Consultants
Zain Webb, Geosyntec Consultants

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Hammond AP-1_Week 3
Pace Project No.: 92757972

Pace Analytical Services, LLC - Minneapolis MN

1700 Elm Street SE, Minneapolis, MN 55414
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
DoD Certification via A2LA #: 2926.01
EPA Region 8 Tribal Water Systems+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
GMP+ Certification #: GMP050884
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
ISO/IEC 17025 Certification via A2LA #: 2926.01
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: AI-03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137
Minnesota Dept of Ag Approval: via MN 027-053-137
Minnesota Petrofund Registration #: 1240
Mississippi Certification #: MN00064
Missouri Certification #: 10100
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification (A2LA) #: R-036
North Dakota Certification (MN) #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification (1700) #: CL101
Oklahoma Certification #: 9507
Oregon Primary Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Vermont Certification #: VT-027053137
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DEP Certification #: 382
West Virginia DW Certification #: 9952 C
Wisconsin Certification #: 999407970
Wyoming UST Certification via A2LA #: 2926.01
USDA Permit #: P330-19-00208

Pace Analytical Services, LLC - Duluth MN

4730 Oneota Street, Duluth, MN 55807
Minnesota Certification #: 027-137-152
Minnesota Dept of Ag Approval: via Minnesota 027-137-152
Minnesota Petrofund Registration #: 1240
North Dakota Certification #: R-105
Wisconsin Certification #: 999446800
Wisconsin Dept of Ag Certification #: 480341

Pace Analytical Services Peachtree Corners

110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812
North Carolina Certification #: 381
South Carolina Certification #: 98011001
Virginia Certification #: 460204

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Hammond AP-1_Week 3
Pace Project No.: 92757972

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92757972001	**HAM-PT-07**	Water	10/08/24 15:13	10/10/24 11:15
92757972002	**HAM-PT-08**	Water	10/08/24 12:45	10/10/24 11:15
92757972003	**HAM-PT-09**	Water	10/09/24 12:40	10/10/24 11:15
92757972004	**HAM-PT-10**	Water	10/09/24 13:44	10/10/24 11:15
92757972005	**HAM-PT-11**	Water	10/09/24 10:07	10/10/24 11:15
92757972006	**HAM-PT-12**	Water	10/09/24 10:40	10/10/24 11:15
92757972007	**HAM-PT-13**	Water	10/08/24 13:00	10/10/24 11:15
92757972008	**HAM-PT-14**	Water	10/08/24 15:30	10/10/24 11:15
92757972009	**HAM-PT-15**	Water	10/08/24 17:04	10/10/24 11:15
92757972010	**HAM-AP1-EB-01**	Water	10/09/24 15:00	10/10/24 11:15
92757972011	**HAM-AP1-FB-01**	Water	10/09/24 15:05	10/10/24 11:15
92757972012	**HAM-AP1-FD-01**	Water	10/08/24 00:00	10/10/24 11:15

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SAMPLE ANALYTE COUNT

Project: Hammond AP-1_Week 3
Pace Project No.: 92757972

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92757972001	**HAM-PT-07**	EPA 300.0	JA2	3	PASI-DU
		SM 4500-S2 D-2011	DW3	1	PASI-DU
		EPA 6010D	MJS2	6	PASI-GA
		EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	DL1	1	PASI-GA
		SM 2320B	KEO	3	PASI-M
92757972002	**HAM-PT-08**	EPA 300.0	JA2	3	PASI-DU
		SM 4500-S2 D-2011	DW3	1	PASI-DU
		EPA 6010D	MJS2	6	PASI-GA
		EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	DL1	1	PASI-GA
		SM 2320B	KEO	3	PASI-M
92757972003	**HAM-PT-09**	EPA 300.0	JA2	3	PASI-DU
		SM 4500-S2 D-2011	DW3	1	PASI-DU
		EPA 6010D	MJS2	6	PASI-GA
		EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	DL1	1	PASI-GA
		SM 2320B	KEO	3	PASI-M
92757972004	**HAM-PT-10**	EPA 300.0	JA2	3	PASI-DU
		SM 4500-S2 D-2011	DW3	1	PASI-DU
		EPA 6010D	MJS2	6	PASI-GA
		EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	DL1	1	PASI-GA
		SM 2320B	KEO	3	PASI-M
92757972005	**HAM-PT-11**	EPA 300.0	JA2	3	PASI-DU
		SM 4500-S2 D-2011	DW3	1	PASI-DU
		EPA 6010D	MJS2	6	PASI-GA
		EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	DL1	1	PASI-GA
		SM 2320B	KEO	3	PASI-M
92757972006	**HAM-PT-12**	EPA 300.0	JA2	3	PASI-DU
		SM 4500-S2 D-2011	DW3	1	PASI-DU

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SAMPLE ANALYTE COUNT

Project: Hammond AP-1_Week 3
Pace Project No.: 92757972

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 6010D	MJS2	6	PASI-GA
		EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	DL1	1	PASI-GA
		SM 2320B	KEO	3	PASI-M
92757972007	**HAM-PT-13**	EPA 300.0	JA2	3	PASI-DU
		SM 4500-S2 D-2011	DW3	1	PASI-DU
		EPA 6010D	MJS2	6	PASI-GA
		EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	DL1	1	PASI-GA
		SM 2320B	KEO	3	PASI-M
92757972008	**HAM-PT-14**	EPA 300.0	JA2	3	PASI-DU
		SM 4500-S2 D-2011	DW3	1	PASI-DU
		EPA 6010D	MJS2	6	PASI-GA
		EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	DL1	1	PASI-GA
		SM 2320B	KEO	3	PASI-M
92757972009	**HAM-PT-15**	EPA 300.0	JA2	3	PASI-DU
		SM 4500-S2 D-2011	DW3	1	PASI-DU
		EPA 6010D	MJS2	6	PASI-GA
		EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	DL1	1	PASI-GA
		SM 2320B	KEO	3	PASI-M
92757972010	**HAM-AP1-EB-01**	EPA 300.0	JA2	3	PASI-DU
		SM 4500-S2 D-2011	DW3	1	PASI-DU
		EPA 6010D	MJS2	6	PASI-GA
		EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	DL1	1	PASI-GA
		SM 2320B	KEO	3	PASI-M
92757972011	**HAM-AP1-FB-01**	EPA 300.0	JA2	3	PASI-DU
		SM 4500-S2 D-2011	DW3	1	PASI-DU
		EPA 6010D	MJS2	6	PASI-GA
		EPA 6020B	CW1	13	PASI-GA

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SAMPLE ANALYTE COUNT

Project: Hammond AP-1_Week 3
Pace Project No.: 92757972

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	DL1	1	PASI-GA
		SM 2320B	KEO	3	PASI-M
92757972012	**HAM-AP1-FD-01**	EPA 300.0	JA2	3	PASI-DU
		SM 4500-S2 D-2011	DW3	1	PASI-DU
		EPA 6010D	MJS2	6	PASI-GA
		EPA 6020B	CW1	13	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		SM 2540C-2015	DL1	1	PASI-GA
		SM 2320B	KEO	3	PASI-M

PASI-DU = Pace Analytical Services - Duluth, MN
PASI-GA = Pace Analytical Services - Peachtree Corners, GA
PASI-M = Pace Analytical Services - Minneapolis

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SUMMARY OF DETECTION

Project: Hammond AP-1_Week 3
Pace Project No.: 92757972

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92757972001	**HAM-PT-07**					
EPA 300.0	Chloride	18.6	mg/L	1.0	10/26/24 08:26	
EPA 300.0	Fluoride	0.30	mg/L	0.050	10/26/24 08:26	
EPA 300.0	Sulfate	238	mg/L	1.0	10/26/24 08:26	
EPA 6010D	Iron	3.2	mg/L	0.040	10/12/24 13:51	
EPA 6010D	Manganese	2.8	mg/L	0.040	10/12/24 13:51	
EPA 6010D	Potassium	5.6	mg/L	0.50	10/12/24 13:51	
EPA 6010D	Sodium	10.5	mg/L	1.0	10/13/24 13:15	
EPA 6010D	Calcium	108	mg/L	1.0	10/12/24 13:51	
EPA 6010D	Magnesium	17.0	mg/L	0.050	10/12/24 13:51	
EPA 6020B	Arsenic	0.025	mg/L	0.0050	10/14/24 20:32	
EPA 6020B	Barium	0.051	mg/L	0.0050	10/14/24 20:32	
EPA 6020B	Beryllium	0.00014J	mg/L	0.00050	10/14/24 20:32	
EPA 6020B	Boron	0.54	mg/L	0.040	10/14/24 20:32	
EPA 6020B	Cadmium	0.00016J	mg/L	0.00050	10/14/24 20:32	
EPA 6020B	Cobalt	0.033	mg/L	0.0050	10/15/24 19:56	
EPA 6020B	Lithium	0.051	mg/L	0.030	10/14/24 20:32	
EPA 6020B	Molybdenum	0.0045J	mg/L	0.010	10/14/24 20:32	
EPA 7470A	Mercury	0.00018J	mg/L	0.00020	10/16/24 13:37	
SM 2540C-2015	Total Dissolved Solids	548	mg/L	25.0	10/14/24 12:28	
SM 2320B	Alkalinity, Total as CaCO3	149	mg/L	5.0	10/17/24 13:07	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	149	mg/L	5.0	10/17/24 13:07	
92757972002	**HAM-PT-08**					
EPA 300.0	Chloride	18.1	mg/L	1.0	10/26/24 09:11	
EPA 300.0	Fluoride	0.23	mg/L	0.050	10/26/24 09:11	
EPA 300.0	Sulfate	242	mg/L	1.0	10/26/24 09:11	
EPA 6010D	Iron	2.8	mg/L	0.040	10/12/24 13:54	
EPA 6010D	Manganese	2.2	mg/L	0.040	10/12/24 13:54	
EPA 6010D	Potassium	5.7	mg/L	0.50	10/12/24 13:54	
EPA 6010D	Sodium	9.9	mg/L	1.0	10/13/24 13:19	
EPA 6010D	Calcium	106	mg/L	1.0	10/12/24 13:54	
EPA 6010D	Magnesium	15.4	mg/L	0.050	10/12/24 13:54	
EPA 6020B	Arsenic	0.066	mg/L	0.0050	10/14/24 20:36	
EPA 6020B	Barium	0.051	mg/L	0.0050	10/14/24 20:36	
EPA 6020B	Boron	0.58	mg/L	0.040	10/14/24 20:36	
EPA 6020B	Cadmium	0.00011J	mg/L	0.00050	10/14/24 20:36	
EPA 6020B	Cobalt	0.021	mg/L	0.0050	10/15/24 20:00	
EPA 6020B	Lithium	0.035	mg/L	0.030	10/14/24 20:36	
EPA 6020B	Molybdenum	0.0086J	mg/L	0.010	10/14/24 20:36	
SM 2540C-2015	Total Dissolved Solids	524	mg/L	25.0	10/14/24 12:29	
SM 2320B	Alkalinity, Total as CaCO3	114	mg/L	5.0	10/17/24 12:43	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	114	mg/L	5.0	10/17/24 12:43	
92757972003	**HAM-PT-09**					
EPA 300.0	Chloride	45.9	mg/L	1.0	10/26/24 10:27	
EPA 300.0	Fluoride	0.39	mg/L	0.050	10/26/24 10:27	
EPA 300.0	Sulfate	200	mg/L	1.0	10/26/24 10:27	
EPA 6010D	Iron	0.073	mg/L	0.040	10/12/24 13:57	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Hammond AP-1_Week 3
Pace Project No.: 92757972

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92757972003	**HAM-PT-09**					
EPA 6010D	Manganese	0.58	mg/L	0.040	10/12/24 13:57	
EPA 6010D	Potassium	6.0	mg/L	0.50	10/12/24 13:57	
EPA 6010D	Sodium	9.5	mg/L	1.0	10/13/24 13:22	
EPA 6010D	Calcium	92.4	mg/L	1.0	10/12/24 13:57	
EPA 6010D	Magnesium	25.3	mg/L	0.050	10/12/24 13:57	
EPA 6020B	Barium	0.073	mg/L	0.0050	10/14/24 20:40	
EPA 6020B	Boron	1.4	mg/L	0.040	10/14/24 20:40	
EPA 6020B	Cadmium	0.00018J	mg/L	0.00050	10/14/24 20:40	
EPA 6020B	Cobalt	0.0040J	mg/L	0.0050	10/15/24 20:11	
EPA 6020B	Lithium	0.0021J	mg/L	0.030	10/14/24 20:40	
EPA 6020B	Molybdenum	0.18	mg/L	0.010	10/14/24 20:40	
SM 2540C-2015	Total Dissolved Solids	493	mg/L	25.0	10/14/24 12:35	
SM 2320B	Alkalinity, Total as CaCO3	123	mg/L	5.0	10/17/24 13:42	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	123	mg/L	5.0	10/17/24 13:42	
92757972004	**HAM-PT-10**					
EPA 300.0	Chloride	50.0	mg/L	1.0	10/26/24 10:42	
EPA 300.0	Fluoride	0.29	mg/L	0.050	10/26/24 10:42	
EPA 300.0	Sulfate	165	mg/L	1.0	10/26/24 10:42	
EPA 6010D	Iron	0.12	mg/L	0.040	10/12/24 14:02	
EPA 6010D	Manganese	0.60	mg/L	0.040	10/12/24 14:02	
EPA 6010D	Potassium	7.0	mg/L	0.50	10/12/24 14:02	
EPA 6010D	Sodium	9.1	mg/L	1.0	10/13/24 13:26	
EPA 6010D	Calcium	109	mg/L	1.0	10/12/24 14:02	
EPA 6010D	Magnesium	14.1	mg/L	0.050	10/12/24 14:02	
EPA 6020B	Barium	0.054	mg/L	0.0050	10/14/24 20:45	
EPA 6020B	Boron	1.6	mg/L	0.040	10/14/24 20:45	
EPA 6020B	Cobalt	0.0013J	mg/L	0.0050	10/15/24 20:15	
EPA 6020B	Molybdenum	0.18	mg/L	0.010	10/14/24 20:45	
SM 2540C-2015	Total Dissolved Solids	484	mg/L	25.0	10/14/24 12:36	
SM 2320B	Alkalinity, Total as CaCO3	141	mg/L	5.0	10/17/24 13:47	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	141	mg/L	5.0	10/17/24 13:47	
92757972005	**HAM-PT-11**					
EPA 300.0	Chloride	37.6	mg/L	1.0	10/26/24 10:57	
EPA 300.0	Fluoride	0.32	mg/L	0.050	10/26/24 10:57	
EPA 300.0	Sulfate	211	mg/L	1.0	10/26/24 10:57	
EPA 6010D	Iron	0.24	mg/L	0.040	10/12/24 14:06	
EPA 6010D	Manganese	1.1	mg/L	0.040	10/12/24 14:06	
EPA 6010D	Potassium	5.7	mg/L	0.50	10/12/24 14:06	
EPA 6010D	Sodium	7.8	mg/L	1.0	10/13/24 13:30	
EPA 6010D	Calcium	91.9	mg/L	1.0	10/12/24 14:06	
EPA 6010D	Magnesium	21.6	mg/L	0.050	10/12/24 14:06	
EPA 6020B	Arsenic	0.0014J	mg/L	0.0050	10/24/24 12:53	
EPA 6020B	Barium	0.067	mg/L	0.0050	10/24/24 12:53	
EPA 6020B	Boron	1.5	mg/L	0.040	10/24/24 12:53	
EPA 6020B	Cadmium	0.00017J	mg/L	0.00050	10/24/24 12:53	
EPA 6020B	Cobalt	0.015	mg/L	0.0050	10/24/24 12:53	

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SUMMARY OF DETECTION

Project: Hammond AP-1_Week 3
Pace Project No.: 92757972

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92757972005	**HAM-PT-11**					
EPA 6020B	Lithium	0.0057J	mg/L	0.030	10/24/24 12:53	
EPA 6020B	Molybdenum	0.066	mg/L	0.010	10/24/24 12:53	
SM 2540C-2015	Total Dissolved Solids	496	mg/L	25.0	10/14/24 12:36	
SM 2320B	Alkalinity, Total as CaCO3	108	mg/L	5.0	10/17/24 13:32	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	108	mg/L	5.0	10/17/24 13:32	
92757972006	**HAM-PT-12**					
EPA 300.0	Chloride	41.9	mg/L	1.0	10/26/24 11:12	
EPA 300.0	Fluoride	0.32	mg/L	0.050	10/26/24 11:12	
EPA 300.0	Sulfate	203	mg/L	1.0	10/26/24 11:12	
EPA 6010D	Iron	0.091	mg/L	0.040	10/12/24 14:10	
EPA 6010D	Manganese	1.1	mg/L	0.040	10/12/24 14:10	
EPA 6010D	Potassium	5.6	mg/L	0.50	10/12/24 14:10	
EPA 6010D	Sodium	7.8	mg/L	1.0	10/13/24 13:35	
EPA 6010D	Calcium	87.3	mg/L	1.0	10/12/24 14:10	
EPA 6010D	Magnesium	24.8	mg/L	0.050	10/12/24 14:10	
EPA 6020B	Antimony	0.0022J	mg/L	0.0030	10/24/24 13:10	B
EPA 6020B	Arsenic	0.0015J	mg/L	0.0050	10/24/24 13:10	
EPA 6020B	Barium	0.071	mg/L	0.0050	10/24/24 13:10	
EPA 6020B	Boron	1.3	mg/L	0.040	10/24/24 13:10	
EPA 6020B	Cadmium	0.00031J	mg/L	0.00050	10/24/24 13:10	
EPA 6020B	Cobalt	0.0044J	mg/L	0.0050	10/24/24 13:10	
EPA 6020B	Lead	0.00074J	mg/L	0.0010	10/24/24 13:10	
EPA 6020B	Lithium	0.0029J	mg/L	0.030	10/24/24 13:10	
EPA 6020B	Molybdenum	0.18	mg/L	0.010	10/24/24 13:10	
SM 2540C-2015	Total Dissolved Solids	485	mg/L	25.0	10/14/24 12:36	
SM 2320B	Alkalinity, Total as CaCO3	113	mg/L	5.0	10/17/24 13:37	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	113	mg/L	5.0	10/17/24 13:37	
92757972007	**HAM-PT-13**					
EPA 300.0	Chloride	18.8	mg/L	1.0	10/26/24 11:27	
EPA 300.0	Fluoride	0.35	mg/L	0.050	10/26/24 11:27	
EPA 300.0	Sulfate	254	mg/L	1.0	10/26/24 11:27	
EPA 6010D	Iron	6.6	mg/L	0.040	10/13/24 20:41	
EPA 6010D	Manganese	3.2	mg/L	0.040	10/13/24 20:41	
EPA 6010D	Potassium	5.7	mg/L	0.50	10/13/24 20:41	
EPA 6010D	Sodium	10.7	mg/L	1.0	10/13/24 20:41	
EPA 6010D	Calcium	114	mg/L	1.0	10/13/24 20:41	M1
EPA 6010D	Magnesium	16.2	mg/L	0.050	10/13/24 20:41	M1
EPA 6020B	Antimony	0.00066J	mg/L	0.0030	10/24/24 13:14	B
EPA 6020B	Arsenic	0.033	mg/L	0.0050	10/24/24 13:14	
EPA 6020B	Barium	0.050	mg/L	0.0050	10/24/24 13:14	
EPA 6020B	Boron	0.54	mg/L	0.040	10/24/24 13:14	
EPA 6020B	Cobalt	0.025	mg/L	0.0050	10/24/24 13:14	
EPA 6020B	Lithium	0.053	mg/L	0.030	10/24/24 13:14	
EPA 6020B	Molybdenum	0.0043J	mg/L	0.010	10/24/24 13:14	
SM 2540C-2015	Total Dissolved Solids	562	mg/L	25.0	10/14/24 12:29	
SM 2320B	Alkalinity, Total as CaCO3	132	mg/L	5.0	10/17/24 13:01	

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SUMMARY OF DETECTION

Project: Hammond AP-1_Week 3
Pace Project No.: 92757972

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92757972007	**HAM-PT-13**					
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	132	mg/L	5.0	10/17/24 13:01	
92757972008	**HAM-PT-14**					
EPA 300.0	Chloride	20.4	mg/L	1.0	10/26/24 11:42	
EPA 300.0	Fluoride	0.27	mg/L	0.050	10/26/24 11:42	
EPA 300.0	Sulfate	249	mg/L	1.0	10/26/24 11:42	
EPA 6010D	Iron	13.7	mg/L	0.040	10/13/24 20:54	
EPA 6010D	Manganese	2.8	mg/L	0.040	10/13/24 20:54	
EPA 6010D	Potassium	6.1	mg/L	0.50	10/13/24 20:54	
EPA 6010D	Sodium	11.1	mg/L	1.0	10/13/24 20:54	
EPA 6010D	Calcium	116	mg/L	1.0	10/13/24 20:54	
EPA 6010D	Magnesium	18.5	mg/L	0.050	10/13/24 20:54	
EPA 6020B	Arsenic	0.15	mg/L	0.0050	10/24/24 13:18	
EPA 6020B	Barium	0.047	mg/L	0.0050	10/24/24 13:18	
EPA 6020B	Beryllium	0.00011J	mg/L	0.00050	10/24/24 13:18	
EPA 6020B	Boron	0.57	mg/L	0.040	10/24/24 13:18	
EPA 6020B	Cobalt	0.023	mg/L	0.0050	10/24/24 13:18	
EPA 6020B	Lead	0.00026J	mg/L	0.0010	10/24/24 13:18	
EPA 6020B	Lithium	0.046	mg/L	0.030	10/24/24 13:18	
EPA 6020B	Molybdenum	0.015	mg/L	0.010	10/24/24 13:18	
SM 2540C-2015	Total Dissolved Solids	557	mg/L	25.0	10/14/24 12:33	
SM 2320B	Alkalinity, Total as CaCO3	151	mg/L	5.0	10/17/24 13:20	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	151	mg/L	5.0	10/17/24 13:20	
92757972009	**HAM-PT-15**					
EPA 300.0	Chloride	17.2	mg/L	1.0	10/26/24 11:57	
EPA 300.0	Fluoride	0.31	mg/L	0.050	10/26/24 11:57	
EPA 300.0	Sulfate	245	mg/L	1.0	10/26/24 11:57	
EPA 6010D	Iron	0.95	mg/L	0.040	10/13/24 20:58	
EPA 6010D	Manganese	2.5	mg/L	0.040	10/13/24 20:58	
EPA 6010D	Potassium	5.3	mg/L	0.50	10/13/24 20:58	
EPA 6010D	Sodium	9.2	mg/L	1.0	10/13/24 20:58	
EPA 6010D	Calcium	109	mg/L	1.0	10/13/24 20:58	
EPA 6010D	Magnesium	13.4	mg/L	0.050	10/13/24 20:58	
EPA 6020B	Antimony	0.00061J	mg/L	0.0030	10/24/24 13:22	B
EPA 6020B	Arsenic	0.013	mg/L	0.0050	10/24/24 13:22	
EPA 6020B	Barium	0.051	mg/L	0.0050	10/24/24 13:22	
EPA 6020B	Beryllium	0.00012J	mg/L	0.00050	10/24/24 13:22	
EPA 6020B	Boron	0.60	mg/L	0.040	10/24/24 13:22	
EPA 6020B	Cadmium	0.00025J	mg/L	0.00050	10/24/24 13:22	
EPA 6020B	Cobalt	0.016	mg/L	0.0050	10/24/24 13:22	
EPA 6020B	Lithium	0.038	mg/L	0.030	10/24/24 13:22	
EPA 6020B	Molybdenum	0.011	mg/L	0.010	10/24/24 13:22	
EPA 6020B	Selenium	0.0029J	mg/L	0.0050	10/24/24 13:22	
EPA 6020B	Thallium	0.00039J	mg/L	0.0010	10/24/24 13:22	
SM 2540C-2015	Total Dissolved Solids	509	mg/L	25.0	10/14/24 12:33	
SM 2320B	Alkalinity, Total as CaCO3	114	mg/L	5.0	10/17/24 13:26	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	114	mg/L	5.0	10/17/24 13:26	

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SUMMARY OF DETECTION

Project: Hammond AP-1_Week 3
Pace Project No.: 92757972

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92757972010	**HAM-AP1-EB-01**					
EPA 6010D	Sodium	0.98J	mg/L	1.0	10/13/24 21:01	
EPA 6010D	Calcium	0.31J	mg/L	1.0	10/13/24 21:01	
EPA 6010D	Magnesium	0.080	mg/L	0.050	10/13/24 21:01	
EPA 6020B	Antimony	0.00074J	mg/L	0.0030	10/24/24 14:24	B
EPA 6020B	Arsenic	0.00087J	mg/L	0.0050	10/24/24 14:24	
EPA 6020B	Barium	0.0020J	mg/L	0.0050	10/24/24 14:24	
EPA 6020B	Lead	0.00019J	mg/L	0.0010	10/24/24 14:24	
92757972011	**HAM-AP1-FB-01**					
EPA 6010D	Iron	0.032J	mg/L	0.040	10/13/24 21:05	
EPA 6010D	Sodium	1.1	mg/L	1.0	10/13/24 21:05	
EPA 6010D	Calcium	0.45J	mg/L	1.0	10/13/24 21:05	
EPA 6010D	Magnesium	0.12	mg/L	0.050	10/13/24 21:05	
EPA 6020B	Arsenic	0.00098J	mg/L	0.0050	10/24/24 14:29	
EPA 6020B	Barium	0.0023J	mg/L	0.0050	10/24/24 14:29	
EPA 6020B	Lead	0.00019J	mg/L	0.0010	10/24/24 14:29	
SM 2320B	Alkalinity, Total as CaCO3	5.0	mg/L	5.0	10/17/24 13:56	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	5.0	mg/L	5.0	10/17/24 13:56	
92757972012	**HAM-AP1-FD-01**					
EPA 300.0	Chloride	17.2	mg/L	1.0	10/26/24 13:12	
EPA 300.0	Fluoride	0.32	mg/L	0.050	10/26/24 13:12	
EPA 300.0	Sulfate	247	mg/L	1.0	10/26/24 13:12	
EPA 6010D	Iron	0.78	mg/L	0.040	10/13/24 21:09	
EPA 6010D	Manganese	2.7	mg/L	0.040	10/13/24 21:09	
EPA 6010D	Potassium	5.6	mg/L	0.50	10/13/24 21:09	
EPA 6010D	Sodium	9.6	mg/L	1.0	10/13/24 21:09	
EPA 6010D	Calcium	116	mg/L	1.0	10/13/24 21:09	
EPA 6010D	Magnesium	14.1	mg/L	0.050	10/13/24 21:09	
EPA 6020B	Arsenic	0.012	mg/L	0.0050	10/24/24 14:33	
EPA 6020B	Barium	0.049	mg/L	0.0050	10/24/24 14:33	
EPA 6020B	Beryllium	0.000094J	mg/L	0.00050	10/24/24 14:33	
EPA 6020B	Boron	0.59	mg/L	0.040	10/24/24 14:33	
EPA 6020B	Cadmium	0.00028J	mg/L	0.00050	10/24/24 14:33	
EPA 6020B	Cobalt	0.015	mg/L	0.0050	10/24/24 14:33	
EPA 6020B	Lithium	0.037	mg/L	0.030	10/24/24 14:33	
EPA 6020B	Molybdenum	0.010	mg/L	0.010	10/24/24 14:33	
EPA 6020B	Selenium	0.0031J	mg/L	0.0050	10/24/24 14:33	
SM 2540C-2015	Total Dissolved Solids	521	mg/L	25.0	10/14/24 12:34	
SM 2320B	Alkalinity, Total as CaCO3	114	mg/L	5.0	10/17/24 12:37	
SM 2320B	Alkalinity,Bicarbonate (CaCO3)	114	mg/L	5.0	10/17/24 12:37	

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ANALYTICAL RESULTS

Project: Hammond AP-1_Week 3
Pace Project No.: 92757972

Sample: HAM-PT-07 **Lab ID: 92757972001** Collected: 10/08/24 15:13 Received: 10/10/24 11:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions WW 28 Day DU	Analytical Method: EPA 300.0 Pace Analytical Services - Duluth, MN								
Chloride	**18.6**	mg/L	1.0	0.34	1		10/26/24 08:26	16887-00-6	
Fluoride	**0.30**	mg/L	0.050	0.0057	1		10/26/24 08:26	16984-48-8	
Sulfate	**238**	mg/L	1.0	0.086	1		10/26/24 08:26	14808-79-8	
4500S2D Sulfide LL Water DU	Analytical Method: SM 4500-S2 D-2011 Pace Analytical Services - Duluth, MN								
Sulfide	ND	mg/L	0.10	0.011	1		10/15/24 18:03	18496-25-8	
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**3.2**	mg/L	0.040	0.025	1	10/11/24 13:38	10/12/24 13:51	7439-89-6	
Manganese	**2.8**	mg/L	0.040	0.011	1	10/11/24 13:38	10/12/24 13:51	7439-96-5	
Potassium	**5.6**	mg/L	0.50	0.15	1	10/11/24 13:38	10/12/24 13:51	7440-09-7	
Sodium	**10.5**	mg/L	1.0	0.58	1	10/11/24 13:38	10/13/24 13:15	7440-23-5	
Calcium	**108**	mg/L	1.0	0.12	1	10/11/24 13:38	10/12/24 13:51	7440-70-2	
Magnesium	**17.0**	mg/L	0.050	0.012	1	10/11/24 13:38	10/12/24 13:51	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	10/12/24 10:28	10/14/24 20:32	7440-36-0	
Arsenic	**0.025**	mg/L	0.0050	0.00084	1	10/12/24 10:28	10/14/24 20:32	7440-38-2	
Barium	**0.051**	mg/L	0.0050	0.00047	1	10/12/24 10:28	10/14/24 20:32	7440-39-3	
Beryllium	**0.00014J**	mg/L	0.00050	0.000094	1	10/12/24 10:28	10/14/24 20:32	7440-41-7	
Boron	**0.54**	mg/L	0.040	0.012	1	10/12/24 10:28	10/14/24 20:32	7440-42-8	
Cadmium	**0.00016J**	mg/L	0.00050	0.00010	1	10/12/24 10:28	10/14/24 20:32	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	10/12/24 10:28	10/14/24 20:32	7440-47-3	
Cobalt	**0.033**	mg/L	0.0050	0.00032	1	10/12/24 10:28	10/15/24 19:56	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	10/12/24 10:28	10/14/24 20:32	7439-92-1	
Lithium	**0.051**	mg/L	0.030	0.0016	1	10/12/24 10:28	10/14/24 20:32	7439-93-2	
Molybdenum	**0.0045J**	mg/L	0.010	0.00062	1	10/12/24 10:28	10/14/24 20:32	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	10/12/24 10:28	10/14/24 20:32	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	10/12/24 10:28	10/15/24 19:56	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	**0.00018J**	mg/L	0.00020	0.00013	1	10/16/24 07:30	10/16/24 13:37	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**548**	mg/L	25.0	25.0	1		10/14/24 12:28		
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Minneapolis								
Alkalinity, Total as CaCO3	**149**	mg/L	5.0	1.9	1		10/17/24 13:07		

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ANALYTICAL RESULTS

Project: Hammond AP-1_Week 3
Pace Project No.: 92757972

Sample: HAM-PT-07 **Lab ID: 92757972001** Collected: 10/08/24 15:13 Received: 10/10/24 11:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Minneapolis								
Alkalinity,Bicarbonate (CaCO3)	**149**	mg/L	5.0	1.9	1		10/17/24 13:07		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.9	1		10/17/24 13:07		

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ANALYTICAL RESULTS

Project: Hammond AP-1_Week 3
Pace Project No.: 92757972

Sample: HAM-PT-08 **Lab ID: 92757972002** Collected: 10/08/24 12:45 Received: 10/10/24 11:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions WW 28 Day DU	Analytical Method: EPA 300.0 Pace Analytical Services - Duluth, MN								
Chloride	**18.1**	mg/L	1.0	0.34	1		10/26/24 09:11	16887-00-6	
Fluoride	**0.23**	mg/L	0.050	0.0057	1		10/26/24 09:11	16984-48-8	
Sulfate	**242**	mg/L	1.0	0.086	1		10/26/24 09:11	14808-79-8	
4500S2D Sulfide LL Water DU	Analytical Method: SM 4500-S2 D-2011 Pace Analytical Services - Duluth, MN								
Sulfide	ND	mg/L	0.10	0.011	1		10/15/24 18:03	18496-25-8	
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**2.8**	mg/L	0.040	0.025	1	10/11/24 13:38	10/12/24 13:54	7439-89-6	
Manganese	**2.2**	mg/L	0.040	0.011	1	10/11/24 13:38	10/12/24 13:54	7439-96-5	
Potassium	**5.7**	mg/L	0.50	0.15	1	10/11/24 13:38	10/12/24 13:54	7440-09-7	
Sodium	**9.9**	mg/L	1.0	0.58	1	10/11/24 13:38	10/13/24 13:19	7440-23-5	
Calcium	**106**	mg/L	1.0	0.12	1	10/11/24 13:38	10/12/24 13:54	7440-70-2	
Magnesium	**15.4**	mg/L	0.050	0.012	1	10/11/24 13:38	10/12/24 13:54	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	10/12/24 10:28	10/14/24 20:36	7440-36-0	
Arsenic	**0.066**	mg/L	0.0050	0.00084	1	10/12/24 10:28	10/14/24 20:36	7440-38-2	
Barium	**0.051**	mg/L	0.0050	0.00047	1	10/12/24 10:28	10/14/24 20:36	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	10/12/24 10:28	10/14/24 20:36	7440-41-7	
Boron	**0.58**	mg/L	0.040	0.012	1	10/12/24 10:28	10/14/24 20:36	7440-42-8	
Cadmium	**0.00011J**	mg/L	0.00050	0.00010	1	10/12/24 10:28	10/14/24 20:36	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	10/12/24 10:28	10/14/24 20:36	7440-47-3	
Cobalt	**0.021**	mg/L	0.0050	0.00032	1	10/12/24 10:28	10/15/24 20:00	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	10/12/24 10:28	10/14/24 20:36	7439-92-1	
Lithium	**0.035**	mg/L	0.030	0.0016	1	10/12/24 10:28	10/14/24 20:36	7439-93-2	
Molybdenum	**0.0086J**	mg/L	0.010	0.00062	1	10/12/24 10:28	10/14/24 20:36	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	10/12/24 10:28	10/14/24 20:36	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	10/12/24 10:28	10/15/24 20:00	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	10/16/24 07:30	10/16/24 13:40	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**524**	mg/L	25.0	25.0	1		10/14/24 12:29		
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Minneapolis								
Alkalinity, Total as CaCO3	**114**	mg/L	5.0	1.9	1		10/17/24 12:43		

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ANALYTICAL RESULTS

Project: Hammond AP-1_Week 3
Pace Project No.: 92757972

Sample: HAM-PT-08 **Lab ID: 92757972002** Collected: 10/08/24 12:45 Received: 10/10/24 11:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Minneapolis								
Alkalinity,Bicarbonate (CaCO3)	**114**	mg/L	5.0	1.9	1		10/17/24 12:43		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.9	1		10/17/24 12:43		

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ANALYTICAL RESULTS

Project: Hammond AP-1_Week 3
Pace Project No.: 92757972

Sample: HAM-PT-09 **Lab ID: 92757972003** Collected: 10/09/24 12:40 Received: 10/10/24 11:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions WW 28 Day DU	Analytical Method: EPA 300.0 Pace Analytical Services - Duluth, MN								
Chloride	**45.9**	mg/L	1.0	0.34	1		10/26/24 10:27	16887-00-6	
Fluoride	**0.39**	mg/L	0.050	0.0057	1		10/26/24 10:27	16984-48-8	
Sulfate	**200**	mg/L	1.0	0.086	1		10/26/24 10:27	14808-79-8	
4500S2D Sulfide LL Water DU	Analytical Method: SM 4500-S2 D-2011 Pace Analytical Services - Duluth, MN								
Sulfide	ND	mg/L	0.10	0.011	1		10/15/24 18:03	18496-25-8	
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.073**	mg/L	0.040	0.025	1	10/11/24 13:38	10/12/24 13:57	7439-89-6	
Manganese	**0.58**	mg/L	0.040	0.011	1	10/11/24 13:38	10/12/24 13:57	7439-96-5	
Potassium	**6.0**	mg/L	0.50	0.15	1	10/11/24 13:38	10/12/24 13:57	7440-09-7	
Sodium	**9.5**	mg/L	1.0	0.58	1	10/11/24 13:38	10/13/24 13:22	7440-23-5	
Calcium	**92.4**	mg/L	1.0	0.12	1	10/11/24 13:38	10/12/24 13:57	7440-70-2	
Magnesium	**25.3**	mg/L	0.050	0.012	1	10/11/24 13:38	10/12/24 13:57	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	10/12/24 10:28	10/14/24 20:40	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	10/12/24 10:28	10/14/24 20:40	7440-38-2	
Barium	**0.073**	mg/L	0.0050	0.00047	1	10/12/24 10:28	10/14/24 20:40	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	10/12/24 10:28	10/14/24 20:40	7440-41-7	
Boron	**1.4**	mg/L	0.040	0.012	1	10/12/24 10:28	10/14/24 20:40	7440-42-8	
Cadmium	**0.00018J**	mg/L	0.00050	0.00010	1	10/12/24 10:28	10/14/24 20:40	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	10/12/24 10:28	10/14/24 20:40	7440-47-3	
Cobalt	**0.0040J**	mg/L	0.0050	0.00032	1	10/12/24 10:28	10/15/24 20:11	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	10/12/24 10:28	10/14/24 20:40	7439-92-1	
Lithium	**0.0021J**	mg/L	0.030	0.0016	1	10/12/24 10:28	10/14/24 20:40	7439-93-2	
Molybdenum	**0.18**	mg/L	0.010	0.00062	1	10/12/24 10:28	10/14/24 20:40	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	10/12/24 10:28	10/14/24 20:40	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	10/12/24 10:28	10/15/24 20:11	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	10/16/24 07:30	10/16/24 13:50	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**493**	mg/L	25.0	25.0	1		10/14/24 12:35		
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Minneapolis								
Alkalinity, Total as CaCO3	**123**	mg/L	5.0	1.9	1		10/17/24 13:42		

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ANALYTICAL RESULTS

Project: Hammond AP-1_Week 3
Pace Project No.: 92757972

Sample: HAM-PT-09 **Lab ID: 92757972003** Collected: 10/09/24 12:40 Received: 10/10/24 11:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Minneapolis								
Alkalinity,Bicarbonate (CaCO3)	**123**	mg/L	5.0	1.9	1		10/17/24 13:42		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.9	1		10/17/24 13:42		

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ANALYTICAL RESULTS

Project: Hammond AP-1_Week 3
Pace Project No.: 92757972

Sample: HAM-PT-10 **Lab ID: 92757972004** Collected: 10/09/24 13:44 Received: 10/10/24 11:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions WW 28 Day DU	Analytical Method: EPA 300.0 Pace Analytical Services - Duluth, MN								
Chloride	**50.0**	mg/L	1.0	0.34	1		10/26/24 10:42	16887-00-6	
Fluoride	**0.29**	mg/L	0.050	0.0057	1		10/26/24 10:42	16984-48-8	
Sulfate	**165**	mg/L	1.0	0.086	1		10/26/24 10:42	14808-79-8	
4500S2D Sulfide LL Water DU	Analytical Method: SM 4500-S2 D-2011 Pace Analytical Services - Duluth, MN								
Sulfide	ND	mg/L	0.10	0.011	1		10/15/24 18:03	18496-25-8	
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.12**	mg/L	0.040	0.025	1	10/11/24 13:38	10/12/24 14:02	7439-89-6	
Manganese	**0.60**	mg/L	0.040	0.011	1	10/11/24 13:38	10/12/24 14:02	7439-96-5	
Potassium	**7.0**	mg/L	0.50	0.15	1	10/11/24 13:38	10/12/24 14:02	7440-09-7	
Sodium	**9.1**	mg/L	1.0	0.58	1	10/11/24 13:38	10/13/24 13:26	7440-23-5	
Calcium	**109**	mg/L	1.0	0.12	1	10/11/24 13:38	10/12/24 14:02	7440-70-2	
Magnesium	**14.1**	mg/L	0.050	0.012	1	10/11/24 13:38	10/12/24 14:02	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	10/12/24 10:28	10/14/24 20:45	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	10/12/24 10:28	10/14/24 20:45	7440-38-2	
Barium	**0.054**	mg/L	0.0050	0.00047	1	10/12/24 10:28	10/14/24 20:45	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	10/12/24 10:28	10/14/24 20:45	7440-41-7	
Boron	**1.6**	mg/L	0.040	0.012	1	10/12/24 10:28	10/14/24 20:45	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	10/12/24 10:28	10/14/24 20:45	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	10/12/24 10:28	10/14/24 20:45	7440-47-3	
Cobalt	**0.0013J**	mg/L	0.0050	0.00032	1	10/12/24 10:28	10/15/24 20:15	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	10/12/24 10:28	10/14/24 20:45	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	10/12/24 10:28	10/14/24 20:45	7439-93-2	
Molybdenum	**0.18**	mg/L	0.010	0.00062	1	10/12/24 10:28	10/14/24 20:45	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	10/12/24 10:28	10/14/24 20:45	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	10/12/24 10:28	10/15/24 20:15	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	10/16/24 07:30	10/16/24 13:53	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**484**	mg/L	25.0	25.0	1		10/14/24 12:36		
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Minneapolis								
Alkalinity, Total as CaCO3	**141**	mg/L	5.0	1.9	1		10/17/24 13:47		

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ANALYTICAL RESULTS

Project: Hammond AP-1_Week 3
Pace Project No.: 92757972

Sample: HAM-PT-10 **Lab ID: 92757972004** Collected: 10/09/24 13:44 Received: 10/10/24 11:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Minneapolis								
Alkalinity,Bicarbonate (CaCO3)	**141**	mg/L	5.0	1.9	1		10/17/24 13:47		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.9	1		10/17/24 13:47		

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ANALYTICAL RESULTS

Project: Hammond AP-1_Week 3
Pace Project No.: 92757972

Sample: HAM-PT-11 **Lab ID: 92757972005** Collected: 10/09/24 10:07 Received: 10/10/24 11:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions WW 28 Day DU	Analytical Method: EPA 300.0 Pace Analytical Services - Duluth, MN								
Chloride	**37.6**	mg/L	1.0	0.34	1		10/26/24 10:57	16887-00-6	
Fluoride	**0.32**	mg/L	0.050	0.0057	1		10/26/24 10:57	16984-48-8	
Sulfate	**211**	mg/L	1.0	0.086	1		10/26/24 10:57	14808-79-8	
4500S2D Sulfide LL Water DU	Analytical Method: SM 4500-S2 D-2011 Pace Analytical Services - Duluth, MN								
Sulfide	ND	mg/L	0.10	0.011	1		10/15/24 18:04	18496-25-8	
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.24**	mg/L	0.040	0.025	1	10/11/24 13:38	10/12/24 14:06	7439-89-6	
Manganese	**1.1**	mg/L	0.040	0.011	1	10/11/24 13:38	10/12/24 14:06	7439-96-5	
Potassium	**5.7**	mg/L	0.50	0.15	1	10/11/24 13:38	10/12/24 14:06	7440-09-7	
Sodium	**7.8**	mg/L	1.0	0.58	1	10/11/24 13:38	10/13/24 13:30	7440-23-5	
Calcium	**91.9**	mg/L	1.0	0.12	1	10/11/24 13:38	10/12/24 14:06	7440-70-2	
Magnesium	**21.6**	mg/L	0.050	0.012	1	10/11/24 13:38	10/12/24 14:06	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	10/12/24 10:28	10/24/24 12:53	7440-36-0	
Arsenic	**0.0014J**	mg/L	0.0050	0.00084	1	10/12/24 10:28	10/24/24 12:53	7440-38-2	
Barium	**0.067**	mg/L	0.0050	0.00047	1	10/12/24 10:28	10/24/24 12:53	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	10/12/24 10:28	10/24/24 12:53	7440-41-7	
Boron	**1.5**	mg/L	0.040	0.012	1	10/12/24 10:28	10/24/24 12:53	7440-42-8	
Cadmium	**0.00017J**	mg/L	0.00050	0.00010	1	10/12/24 10:28	10/24/24 12:53	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	10/12/24 10:28	10/24/24 12:53	7440-47-3	
Cobalt	**0.015**	mg/L	0.0050	0.00032	1	10/12/24 10:28	10/24/24 12:53	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	10/12/24 10:28	10/24/24 12:53	7439-92-1	
Lithium	**0.0057J**	mg/L	0.030	0.0016	1	10/12/24 10:28	10/24/24 12:53	7439-93-2	
Molybdenum	**0.066**	mg/L	0.010	0.00062	1	10/12/24 10:28	10/24/24 12:53	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	10/12/24 10:28	10/24/24 12:53	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	10/12/24 10:28	10/24/24 12:53	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	10/16/24 07:30	10/16/24 13:56	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**496**	mg/L	25.0	25.0	1		10/14/24 12:36		
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Minneapolis								
Alkalinity, Total as CaCO3	**108**	mg/L	5.0	1.9	1		10/17/24 13:32		

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ANALYTICAL RESULTS

Project: Hammond AP-1_Week 3
Pace Project No.: 92757972

Sample: HAM-PT-11 **Lab ID: 92757972005** Collected: 10/09/24 10:07 Received: 10/10/24 11:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Minneapolis								
Alkalinity,Bicarbonate (CaCO3)	**108**	mg/L	5.0	1.9	1		10/17/24 13:32		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.9	1		10/17/24 13:32		

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ANALYTICAL RESULTS

Project: Hammond AP-1_Week 3
Pace Project No.: 92757972

Sample: HAM-PT-12 **Lab ID: 92757972006** Collected: 10/09/24 10:40 Received: 10/10/24 11:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions WW 28 Day DU	Analytical Method: EPA 300.0 Pace Analytical Services - Duluth, MN								
Chloride	**41.9**	mg/L	1.0	0.34	1		10/26/24 11:12	16887-00-6	
Fluoride	**0.32**	mg/L	0.050	0.0057	1		10/26/24 11:12	16984-48-8	
Sulfate	**203**	mg/L	1.0	0.086	1		10/26/24 11:12	14808-79-8	
4500S2D Sulfide LL Water DU	Analytical Method: SM 4500-S2 D-2011 Pace Analytical Services - Duluth, MN								
Sulfide	ND	mg/L	0.10	0.011	1		10/15/24 18:04	18496-25-8	
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.091**	mg/L	0.040	0.025	1	10/11/24 13:38	10/12/24 14:10	7439-89-6	
Manganese	**1.1**	mg/L	0.040	0.011	1	10/11/24 13:38	10/12/24 14:10	7439-96-5	
Potassium	**5.6**	mg/L	0.50	0.15	1	10/11/24 13:38	10/12/24 14:10	7440-09-7	
Sodium	**7.8**	mg/L	1.0	0.58	1	10/11/24 13:38	10/13/24 13:35	7440-23-5	
Calcium	**87.3**	mg/L	1.0	0.12	1	10/11/24 13:38	10/12/24 14:10	7440-70-2	
Magnesium	**24.8**	mg/L	0.050	0.012	1	10/11/24 13:38	10/12/24 14:10	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.0022J**	mg/L	0.0030	0.00054	1	10/12/24 10:28	10/24/24 13:10	7440-36-0	B
Arsenic	**0.0015J**	mg/L	0.0050	0.00084	1	10/12/24 10:28	10/24/24 13:10	7440-38-2	
Barium	**0.071**	mg/L	0.0050	0.00047	1	10/12/24 10:28	10/24/24 13:10	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	10/12/24 10:28	10/24/24 13:10	7440-41-7	
Boron	**1.3**	mg/L	0.040	0.012	1	10/12/24 10:28	10/24/24 13:10	7440-42-8	
Cadmium	**0.00031J**	mg/L	0.00050	0.00010	1	10/12/24 10:28	10/24/24 13:10	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	10/12/24 10:28	10/24/24 13:10	7440-47-3	
Cobalt	**0.0044J**	mg/L	0.0050	0.00032	1	10/12/24 10:28	10/24/24 13:10	7440-48-4	
Lead	**0.00074J**	mg/L	0.0010	0.00016	1	10/12/24 10:28	10/24/24 13:10	7439-92-1	
Lithium	**0.0029J**	mg/L	0.030	0.0016	1	10/12/24 10:28	10/24/24 13:10	7439-93-2	
Molybdenum	**0.18**	mg/L	0.010	0.00062	1	10/12/24 10:28	10/24/24 13:10	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	10/12/24 10:28	10/24/24 13:10	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	10/12/24 10:28	10/24/24 13:10	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	10/16/24 07:30	10/16/24 14:03	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**485**	mg/L	25.0	25.0	1		10/14/24 12:36		
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Minneapolis								
Alkalinity, Total as CaCO3	**113**	mg/L	5.0	1.9	1		10/17/24 13:37		

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ANALYTICAL RESULTS

Project: Hammond AP-1_Week 3
Pace Project No.: 92757972

Sample: HAM-PT-12 **Lab ID: 92757972006** Collected: 10/09/24 10:40 Received: 10/10/24 11:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Minneapolis								
Alkalinity,Bicarbonate (CaCO3)	**113**	mg/L	5.0	1.9	1		10/17/24 13:37		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.9	1		10/17/24 13:37		

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ANALYTICAL RESULTS

Project: Hammond AP-1_Week 3
Pace Project No.: 92757972

Sample: HAM-PT-13 **Lab ID: 92757972007** Collected: 10/08/24 13:00 Received: 10/10/24 11:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions WW 28 Day DU	Analytical Method: EPA 300.0 Pace Analytical Services - Duluth, MN								
Chloride	**18.8**	mg/L	1.0	0.34	1		10/26/24 11:27	16887-00-6	
Fluoride	**0.35**	mg/L	0.050	0.0057	1		10/26/24 11:27	16984-48-8	
Sulfate	**254**	mg/L	1.0	0.086	1		10/26/24 11:27	14808-79-8	
4500S2D Sulfide LL Water DU	Analytical Method: SM 4500-S2 D-2011 Pace Analytical Services - Duluth, MN								
Sulfide	ND	mg/L	0.10	0.011	1		10/15/24 18:04	18496-25-8	
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**6.6**	mg/L	0.040	0.025	1	10/12/24 13:49	10/13/24 20:41	7439-89-6	
Manganese	**3.2**	mg/L	0.040	0.011	1	10/12/24 13:49	10/13/24 20:41	7439-96-5	
Potassium	**5.7**	mg/L	0.50	0.15	1	10/12/24 13:49	10/13/24 20:41	7440-09-7	
Sodium	**10.7**	mg/L	1.0	0.58	1	10/12/24 13:49	10/13/24 20:41	7440-23-5	
Calcium	**114**	mg/L	1.0	0.12	1	10/12/24 13:49	10/13/24 20:41	7440-70-2	M1
Magnesium	**16.2**	mg/L	0.050	0.012	1	10/12/24 13:49	10/13/24 20:41	7439-95-4	M1
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.00066J**	mg/L	0.0030	0.00054	1	10/12/24 10:28	10/24/24 13:14	7440-36-0	B
Arsenic	**0.033**	mg/L	0.0050	0.00084	1	10/12/24 10:28	10/24/24 13:14	7440-38-2	
Barium	**0.050**	mg/L	0.0050	0.00047	1	10/12/24 10:28	10/24/24 13:14	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	10/12/24 10:28	10/24/24 13:14	7440-41-7	
Boron	**0.54**	mg/L	0.040	0.012	1	10/12/24 10:28	10/24/24 13:14	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	10/12/24 10:28	10/24/24 13:14	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	10/12/24 10:28	10/24/24 13:14	7440-47-3	
Cobalt	**0.025**	mg/L	0.0050	0.00032	1	10/12/24 10:28	10/24/24 13:14	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	10/12/24 10:28	10/24/24 13:14	7439-92-1	
Lithium	**0.053**	mg/L	0.030	0.0016	1	10/12/24 10:28	10/24/24 13:14	7439-93-2	
Molybdenum	**0.0043J**	mg/L	0.010	0.00062	1	10/12/24 10:28	10/24/24 13:14	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	10/12/24 10:28	10/24/24 13:14	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	10/12/24 10:28	10/24/24 13:14	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	10/16/24 07:30	10/16/24 14:06	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**562**	mg/L	25.0	25.0	1		10/14/24 12:29		
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Minneapolis								
Alkalinity, Total as CaCO3	**132**	mg/L	5.0	1.9	1		10/17/24 13:01		

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ANALYTICAL RESULTS

Project: Hammond AP-1_Week 3
Pace Project No.: 92757972

Sample: HAM-PT-13 **Lab ID: 92757972007** Collected: 10/08/24 13:00 Received: 10/10/24 11:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Minneapolis								
Alkalinity,Bicarbonate (CaCO3)	**132**	mg/L	5.0	1.9	1		10/17/24 13:01		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.9	1		10/17/24 13:01		

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ANALYTICAL RESULTS

Project: Hammond AP-1_Week 3
Pace Project No.: 92757972

Sample: HAM-PT-14 **Lab ID: 92757972008** Collected: 10/08/24 15:30 Received: 10/10/24 11:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions WW 28 Day DU	Analytical Method: EPA 300.0 Pace Analytical Services - Duluth, MN								
Chloride	**20.4**	mg/L	1.0	0.34	1		10/26/24 11:42	16887-00-6	
Fluoride	**0.27**	mg/L	0.050	0.0057	1		10/26/24 11:42	16984-48-8	
Sulfate	**249**	mg/L	1.0	0.086	1		10/26/24 11:42	14808-79-8	
4500S2D Sulfide LL Water DU	Analytical Method: SM 4500-S2 D-2011 Pace Analytical Services - Duluth, MN								
Sulfide	ND	mg/L	0.10	0.011	1		10/15/24 18:04	18496-25-8	
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**13.7**	mg/L	0.040	0.025	1	10/12/24 13:49	10/13/24 20:54	7439-89-6	
Manganese	**2.8**	mg/L	0.040	0.011	1	10/12/24 13:49	10/13/24 20:54	7439-96-5	
Potassium	**6.1**	mg/L	0.50	0.15	1	10/12/24 13:49	10/13/24 20:54	7440-09-7	
Sodium	**11.1**	mg/L	1.0	0.58	1	10/12/24 13:49	10/13/24 20:54	7440-23-5	
Calcium	**116**	mg/L	1.0	0.12	1	10/12/24 13:49	10/13/24 20:54	7440-70-2	
Magnesium	**18.5**	mg/L	0.050	0.012	1	10/12/24 13:49	10/13/24 20:54	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	10/12/24 10:28	10/24/24 13:18	7440-36-0	
Arsenic	**0.15**	mg/L	0.0050	0.00084	1	10/12/24 10:28	10/24/24 13:18	7440-38-2	
Barium	**0.047**	mg/L	0.0050	0.00047	1	10/12/24 10:28	10/24/24 13:18	7440-39-3	
Beryllium	**0.00011J**	mg/L	0.00050	0.000094	1	10/12/24 10:28	10/24/24 13:18	7440-41-7	
Boron	**0.57**	mg/L	0.040	0.012	1	10/12/24 10:28	10/24/24 13:18	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	10/12/24 10:28	10/24/24 13:18	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	10/12/24 10:28	10/24/24 13:18	7440-47-3	
Cobalt	**0.023**	mg/L	0.0050	0.00032	1	10/12/24 10:28	10/24/24 13:18	7440-48-4	
Lead	**0.00026J**	mg/L	0.0010	0.00016	1	10/12/24 10:28	10/24/24 13:18	7439-92-1	
Lithium	**0.046**	mg/L	0.030	0.0016	1	10/12/24 10:28	10/24/24 13:18	7439-93-2	
Molybdenum	**0.015**	mg/L	0.010	0.00062	1	10/12/24 10:28	10/24/24 13:18	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	10/12/24 10:28	10/24/24 13:18	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	10/12/24 10:28	10/24/24 13:18	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	10/16/24 07:30	10/16/24 14:09	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**557**	mg/L	25.0	25.0	1		10/14/24 12:33		
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Minneapolis								
Alkalinity, Total as CaCO3	**151**	mg/L	5.0	1.9	1		10/17/24 13:20		

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ANALYTICAL RESULTS

Project: Hammond AP-1_Week 3
Pace Project No.: 92757972

Sample: HAM-PT-14 **Lab ID: 92757972008** Collected: 10/08/24 15:30 Received: 10/10/24 11:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Minneapolis								
Alkalinity,Bicarbonate (CaCO3)	**151**	mg/L	5.0	1.9	1		10/17/24 13:20		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.9	1		10/17/24 13:20		

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ANALYTICAL RESULTS

Project: Hammond AP-1_Week 3
Pace Project No.: 92757972

Sample: HAM-PT-15 **Lab ID: 92757972009** Collected: 10/08/24 17:04 Received: 10/10/24 11:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions WW 28 Day DU	Analytical Method: EPA 300.0 Pace Analytical Services - Duluth, MN								
Chloride	**17.2**	mg/L	1.0	0.34	1		10/26/24 11:57	16887-00-6	
Fluoride	**0.31**	mg/L	0.050	0.0057	1		10/26/24 11:57	16984-48-8	
Sulfate	**245**	mg/L	1.0	0.086	1		10/26/24 11:57	14808-79-8	
4500S2D Sulfide LL Water DU	Analytical Method: SM 4500-S2 D-2011 Pace Analytical Services - Duluth, MN								
Sulfide	ND	mg/L	0.10	0.011	1		10/15/24 18:04	18496-25-8	
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.95**	mg/L	0.040	0.025	1	10/12/24 13:49	10/13/24 20:58	7439-89-6	
Manganese	**2.5**	mg/L	0.040	0.011	1	10/12/24 13:49	10/13/24 20:58	7439-96-5	
Potassium	**5.3**	mg/L	0.50	0.15	1	10/12/24 13:49	10/13/24 20:58	7440-09-7	
Sodium	**9.2**	mg/L	1.0	0.58	1	10/12/24 13:49	10/13/24 20:58	7440-23-5	
Calcium	**109**	mg/L	1.0	0.12	1	10/12/24 13:49	10/13/24 20:58	7440-70-2	
Magnesium	**13.4**	mg/L	0.050	0.012	1	10/12/24 13:49	10/13/24 20:58	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.00061J**	mg/L	0.0030	0.00054	1	10/12/24 10:28	10/24/24 13:22	7440-36-0	B
Arsenic	**0.013**	mg/L	0.0050	0.00084	1	10/12/24 10:28	10/24/24 13:22	7440-38-2	
Barium	**0.051**	mg/L	0.0050	0.00047	1	10/12/24 10:28	10/24/24 13:22	7440-39-3	
Beryllium	**0.00012J**	mg/L	0.00050	0.000094	1	10/12/24 10:28	10/24/24 13:22	7440-41-7	
Boron	**0.60**	mg/L	0.040	0.012	1	10/12/24 10:28	10/24/24 13:22	7440-42-8	
Cadmium	**0.00025J**	mg/L	0.00050	0.00010	1	10/12/24 10:28	10/24/24 13:22	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	10/12/24 10:28	10/24/24 13:22	7440-47-3	
Cobalt	**0.016**	mg/L	0.0050	0.00032	1	10/12/24 10:28	10/24/24 13:22	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	10/12/24 10:28	10/24/24 13:22	7439-92-1	
Lithium	**0.038**	mg/L	0.030	0.0016	1	10/12/24 10:28	10/24/24 13:22	7439-93-2	
Molybdenum	**0.011**	mg/L	0.010	0.00062	1	10/12/24 10:28	10/24/24 13:22	7439-98-7	
Selenium	**0.0029J**	mg/L	0.0050	0.00096	1	10/12/24 10:28	10/24/24 13:22	7782-49-2	
Thallium	**0.00039J**	mg/L	0.0010	0.00038	1	10/12/24 10:28	10/24/24 13:22	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	10/16/24 07:30	10/16/24 14:11	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**509**	mg/L	25.0	25.0	1		10/14/24 12:33		
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Minneapolis								
Alkalinity, Total as CaCO3	**114**	mg/L	5.0	1.9	1		10/17/24 13:26		

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ANALYTICAL RESULTS

Project: Hammond AP-1_Week 3
Pace Project No.: 92757972

Sample: HAM-PT-15 **Lab ID: 92757972009** Collected: 10/08/24 17:04 Received: 10/10/24 11:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Minneapolis								
Alkalinity,Bicarbonate (CaCO3)	**114**	mg/L	5.0	1.9	1		10/17/24 13:26		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.9	1		10/17/24 13:26		

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ANALYTICAL RESULTS

Project: Hammond AP-1_Week 3
Pace Project No.: 92757972

Sample: HAM-AP1-EB-01 **Lab ID: 92757972010** Collected: 10/09/24 15:00 Received: 10/10/24 11:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions WW 28 Day DU	Analytical Method: EPA 300.0 Pace Analytical Services - Duluth, MN								
Chloride	ND	mg/L	1.0	0.34	1		10/26/24 12:12	16887-00-6	
Fluoride	ND	mg/L	0.050	0.0057	1		10/26/24 12:12	16984-48-8	
Sulfate	ND	mg/L	1.0	0.086	1		10/26/24 12:12	14808-79-8	
4500S2D Sulfide LL Water DU	Analytical Method: SM 4500-S2 D-2011 Pace Analytical Services - Duluth, MN								
Sulfide	ND	mg/L	0.10	0.011	1		10/15/24 18:05	18496-25-8	
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	10/12/24 13:49	10/13/24 21:01	7439-89-6	
Manganese	ND	mg/L	0.040	0.011	1	10/12/24 13:49	10/13/24 21:01	7439-96-5	
Potassium	ND	mg/L	0.50	0.15	1	10/12/24 13:49	10/13/24 21:01	7440-09-7	
Sodium	**0.98J**	mg/L	1.0	0.58	1	10/12/24 13:49	10/13/24 21:01	7440-23-5	
Calcium	**0.31J**	mg/L	1.0	0.12	1	10/12/24 13:49	10/13/24 21:01	7440-70-2	
Magnesium	**0.080**	mg/L	0.050	0.012	1	10/12/24 13:49	10/13/24 21:01	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.00074J**	mg/L	0.0030	0.00054	1	10/12/24 10:28	10/24/24 14:24	7440-36-0	B
Arsenic	**0.00087J**	mg/L	0.0050	0.00084	1	10/12/24 10:28	10/24/24 14:24	7440-38-2	
Barium	**0.0020J**	mg/L	0.0050	0.00047	1	10/12/24 10:28	10/24/24 14:24	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	10/12/24 10:28	10/24/24 14:24	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	10/12/24 10:28	10/24/24 14:24	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	10/12/24 10:28	10/24/24 14:24	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	10/12/24 10:28	10/24/24 14:24	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	10/12/24 10:28	10/24/24 14:24	7440-48-4	
Lead	**0.00019J**	mg/L	0.0010	0.00016	1	10/12/24 10:28	10/24/24 14:24	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	10/12/24 10:28	10/24/24 14:24	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	10/12/24 10:28	10/24/24 14:24	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	10/12/24 10:28	10/24/24 14:24	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	10/12/24 10:28	10/24/24 14:24	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	10/16/24 07:30	10/16/24 14:14	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		10/14/24 12:36		
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Minneapolis								
Alkalinity, Total as CaCO3	ND	mg/L	5.0	1.9	1		10/17/24 13:53		

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ANALYTICAL RESULTS

Project: Hammond AP-1_Week 3
Pace Project No.: 92757972

Sample: HAM-AP1-EB-01 **Lab ID: 92757972010** Collected: 10/09/24 15:00 Received: 10/10/24 11:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Minneapolis								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	1.9	1		10/17/24 13:53		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.9	1		10/17/24 13:53		

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ANALYTICAL RESULTS

Project: Hammond AP-1_Week 3
Pace Project No.: 92757972

Sample: HAM-AP1-FB-01 **Lab ID: 92757972011** Collected: 10/09/24 15:05 Received: 10/10/24 11:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions WW 28 Day DU	Analytical Method: EPA 300.0 Pace Analytical Services - Duluth, MN								
Chloride	ND	mg/L	1.0	0.34	1		10/26/24 12:27	16887-00-6	
Fluoride	ND	mg/L	0.050	0.0057	1		10/26/24 12:27	16984-48-8	
Sulfate	ND	mg/L	1.0	0.086	1		10/26/24 12:27	14808-79-8	
4500S2D Sulfide LL Water DU	Analytical Method: SM 4500-S2 D-2011 Pace Analytical Services - Duluth, MN								
Sulfide	ND	mg/L	0.10	0.011	1		10/15/24 18:05	18496-25-8	
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.032J**	mg/L	0.040	0.025	1	10/12/24 13:49	10/13/24 21:05	7439-89-6	
Manganese	ND	mg/L	0.040	0.011	1	10/12/24 13:49	10/13/24 21:05	7439-96-5	
Potassium	ND	mg/L	0.50	0.15	1	10/12/24 13:49	10/13/24 21:05	7440-09-7	
Sodium	**1.1**	mg/L	1.0	0.58	1	10/12/24 13:49	10/13/24 21:05	7440-23-5	
Calcium	**0.45J**	mg/L	1.0	0.12	1	10/12/24 13:49	10/13/24 21:05	7440-70-2	
Magnesium	**0.12**	mg/L	0.050	0.012	1	10/12/24 13:49	10/13/24 21:05	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	10/12/24 10:28	10/24/24 14:29	7440-36-0	
Arsenic	**0.00098J**	mg/L	0.0050	0.00084	1	10/12/24 10:28	10/24/24 14:29	7440-38-2	
Barium	**0.0023J**	mg/L	0.0050	0.00047	1	10/12/24 10:28	10/24/24 14:29	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	10/12/24 10:28	10/24/24 14:29	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	10/12/24 10:28	10/24/24 14:29	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	10/12/24 10:28	10/24/24 14:29	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	10/12/24 10:28	10/24/24 14:29	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	10/12/24 10:28	10/24/24 14:29	7440-48-4	
Lead	**0.00019J**	mg/L	0.0010	0.00016	1	10/12/24 10:28	10/24/24 14:29	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	10/12/24 10:28	10/24/24 14:29	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	10/12/24 10:28	10/24/24 14:29	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	10/12/24 10:28	10/24/24 14:29	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	10/12/24 10:28	10/24/24 14:29	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	10/16/24 07:30	10/16/24 14:17	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		10/14/24 12:37		
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Minneapolis								
Alkalinity, Total as CaCO3	**5.0**	mg/L	5.0	1.9	1		10/17/24 13:56		

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ANALYTICAL RESULTS

Project: Hammond AP-1_Week 3
Pace Project No.: 92757972

Sample: HAM-AP1-FB-01 **Lab ID: 92757972011** Collected: 10/09/24 15:05 Received: 10/10/24 11:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Minneapolis								
Alkalinity,Bicarbonate (CaCO3)	**5.0**	mg/L	5.0	1.9	1		10/17/24 13:56		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.9	1		10/17/24 13:56		

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ANALYTICAL RESULTS

Project: Hammond AP-1_Week 3
Pace Project No.: 92757972

Sample: HAM-AP1-FD-01 **Lab ID: 92757972012** Collected: 10/08/24 00:00 Received: 10/10/24 11:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions WW 28 Day DU	Analytical Method: EPA 300.0								
	Pace Analytical Services - Duluth, MN								
Chloride	**17.2**	mg/L	1.0	0.34	1		10/26/24 13:12	16887-00-6	
Fluoride	**0.32**	mg/L	0.050	0.0057	1		10/26/24 13:12	16984-48-8	
Sulfate	**247**	mg/L	1.0	0.086	1		10/26/24 13:12	14808-79-8	
4500S2D Sulfide LL Water DU	Analytical Method: SM 4500-S2 D-2011								
	Pace Analytical Services - Duluth, MN								
Sulfide	ND	mg/L	0.10	0.011	1		10/15/24 18:06	18496-25-8	H1
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
	Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.78**	mg/L	0.040	0.025	1	10/12/24 13:49	10/13/24 21:09	7439-89-6	
Manganese	**2.7**	mg/L	0.040	0.011	1	10/12/24 13:49	10/13/24 21:09	7439-96-5	
Potassium	**5.6**	mg/L	0.50	0.15	1	10/12/24 13:49	10/13/24 21:09	7440-09-7	
Sodium	**9.6**	mg/L	1.0	0.58	1	10/12/24 13:49	10/13/24 21:09	7440-23-5	
Calcium	**116**	mg/L	1.0	0.12	1	10/12/24 13:49	10/13/24 21:09	7440-70-2	
Magnesium	**14.1**	mg/L	0.050	0.012	1	10/12/24 13:49	10/13/24 21:09	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
	Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	10/12/24 10:28	10/24/24 14:33	7440-36-0	
Arsenic	**0.012**	mg/L	0.0050	0.00084	1	10/12/24 10:28	10/24/24 14:33	7440-38-2	
Barium	**0.049**	mg/L	0.0050	0.00047	1	10/12/24 10:28	10/24/24 14:33	7440-39-3	
Beryllium	**0.000094J**	mg/L	0.00050	0.000094	1	10/12/24 10:28	10/24/24 14:33	7440-41-7	
Boron	**0.59**	mg/L	0.040	0.012	1	10/12/24 10:28	10/24/24 14:33	7440-42-8	
Cadmium	**0.00028J**	mg/L	0.00050	0.00010	1	10/12/24 10:28	10/24/24 14:33	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	10/12/24 10:28	10/24/24 14:33	7440-47-3	
Cobalt	**0.015**	mg/L	0.0050	0.00032	1	10/12/24 10:28	10/24/24 14:33	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	10/12/24 10:28	10/24/24 14:33	7439-92-1	
Lithium	**0.037**	mg/L	0.030	0.0016	1	10/12/24 10:28	10/24/24 14:33	7439-93-2	
Molybdenum	**0.010**	mg/L	0.010	0.00062	1	10/12/24 10:28	10/24/24 14:33	7439-98-7	
Selenium	**0.0031J**	mg/L	0.0050	0.00096	1	10/12/24 10:28	10/24/24 14:33	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	10/12/24 10:28	10/24/24 14:33	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
	Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	10/16/24 07:30	10/16/24 14:19	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015								
	Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**521**	mg/L	25.0	25.0	1		10/14/24 12:34		
2320B Alkalinity	Analytical Method: SM 2320B								
	Pace Analytical Services - Minneapolis								
Alkalinity, Total as CaCO3	**114**	mg/L	5.0	1.9	1		10/17/24 12:37		

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ANALYTICAL RESULTS

Project: Hammond AP-1_Week 3
Pace Project No.: 92757972

Sample: HAM-AP1-FD-01 **Lab ID: 92757972012** Collected: 10/08/24 00:00 Received: 10/10/24 11:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B Pace Analytical Services - Minneapolis								
Alkalinity,Bicarbonate (CaCO3)	**114**	mg/L	5.0	1.9	1		10/17/24 12:37		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1.9	1		10/17/24 12:37		

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QUALITY CONTROL DATA

Project: Hammond AP-1_Week 3
Pace Project No.: 92757972

QC Batch: 976023
QC Batch Method: EPA 300.0
Analysis Method: EPA 300.0
Analysis Description: 300.0 IC Anions WW 28 Day DU
Laboratory: Pace Analytical Services - Duluth, MN
Associated Lab Samples: 92757972001, 92757972002, 92757972003, 92757972004, 92757972005, 92757972006, 92757972007, 92757972008, 92757972009, 92757972010, 92757972011, 92757972012

METHOD BLANK: 5101385 Matrix: Water
Associated Lab Samples: 92757972001, 92757972002, 92757972003, 92757972004, 92757972005, 92757972006, 92757972007, 92757972008, 92757972009, 92757972010, 92757972011, 92757972012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.34	10/26/24 07:56	
Fluoride	mg/L	ND	0.050	0.0057	10/26/24 07:56	
Sulfate	mg/L	ND	1.0	0.086	10/26/24 07:56	

LABORATORY CONTROL SAMPLE: 5101386

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	100	99.9	100	90-110	
Fluoride	mg/L	5	5.2	104	90-110	
Sulfate	mg/L	100	99.3	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5101387 5101388

Parameter	Units	92757972001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	18.6	100	100	120	120	101	102	90-110	1	20	
Fluoride	mg/L	0.30	5	5	5.6	5.6	106	106	90-110	0	20	
Sulfate	mg/L	238	100	100	331	332	93	94	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5101389 5101390

Parameter	Units	92757972002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	18.1	100	100	121	122	102	104	90-110	1	20	
Fluoride	mg/L	0.23	5	5	5.6	5.7	107	109	90-110	2	20	
Sulfate	mg/L	242	100	100	337	338	94	96	90-110	0	20	

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QUALITY CONTROL DATA

Project: Hammond AP-1_Week 3
Pace Project No.: 92757972

QC Batch: 973697 | Analysis Method: SM 4500-S2 D-2011
QC Batch Method: SM 4500-S2 D-2011 | Analysis Description: 4500S2D Sulfide LL Water DU
Laboratory: Pace Analytical Services - Duluth, MN
Associated Lab Samples: 92757972001, 92757972002, 92757972003, 92757972004, 92757972005, 92757972006, 92757972007, 92757972008, 92757972009, 92757972010

METHOD BLANK: 5088870 Matrix: Water
Associated Lab Samples: 92757972001, 92757972002, 92757972003, 92757972004, 92757972005, 92757972006, 92757972007, 92757972008, 92757972009, 92757972010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	0.011	10/15/24 17:59	

LABORATORY CONTROL SAMPLE: 5088871

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.2	0.18	93	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5088872 5088873

Parameter	Units	10711326001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	<0.011	0.2	0.2	0.20	0.20	99	102	90-110	3	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5088874 5088875

Parameter	Units	10711326002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	<0.011	0.2	0.2	0.19	0.19	97	99	90-110	2	10	

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QUALITY CONTROL DATA

Project: Hammond AP-1_Week 3
Pace Project No.: 92757972

QC Batch: 973699
QC Batch Method: SM 4500-S2 D-2011
Analysis Method: SM 4500-S2 D-2011
Analysis Description: 4500S2D Sulfide LL Water DU
Laboratory: Pace Analytical Services - Duluth, MN
Associated Lab Samples: 92757972011, 92757972012

METHOD BLANK: 5088877 Matrix: Water
Associated Lab Samples: 92757972011, 92757972012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	0.011	10/15/24 18:05	

LABORATORY CONTROL SAMPLE: 5088878

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.2	0.19	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5088879 5088880

Parameter	Units	92757972011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.2	0.2	0.20	0.21	103	105	90-110	1	10	

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QUALITY CONTROL DATA

Project: Hammond AP-1_Week 3
Pace Project No.: 92757972

QC Batch: 888265
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92757972001, 92757972002, 92757972003, 92757972004, 92757972005, 92757972006

METHOD BLANK: 4574207 Matrix: Water
Associated Lab Samples: 92757972001, 92757972002, 92757972003, 92757972004, 92757972005, 92757972006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	10/12/24 10:03	
Iron	mg/L	ND	0.040	0.025	10/12/24 10:03	
Magnesium	mg/L	ND	0.050	0.012	10/12/24 10:03	
Manganese	mg/L	ND	0.040	0.011	10/12/24 10:03	
Potassium	mg/L	ND	0.50	0.15	10/12/24 10:03	
Sodium	mg/L	ND	1.0	0.58	10/13/24 11:52	

LABORATORY CONTROL SAMPLE: 4574208

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	0.95J	95	80-120	
Iron	mg/L	1	0.94	94	80-120	
Magnesium	mg/L	1	0.99	99	80-120	
Manganese	mg/L	1	0.97	97	80-120	
Potassium	mg/L	1	0.92	92	80-120	
Sodium	mg/L	1	1.1	107	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4574209 4574210

Parameter	Units	92755893003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	90300 ug/L	1	1	87.9	89.2	-238	-116	75-125	1	20	M1
Iron	mg/L	3640 ug/L	1	1	5.5	5.7	186	211	75-125	4	20	M1
Magnesium	mg/L	21400 ug/L	1	1	22.2	22.6	78	119	75-125	2	20	
Manganese	mg/L	2620 ug/L	1	1	3.5	3.6	90	102	75-125	3	20	
Potassium	mg/L	3010 ug/L	1	1	4.8	5.0	179	195	75-125	3	20	M1
Sodium	mg/L	131000 ug/L	1	1	129	132	-242	25	75-125	2	20	M1

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QUALITY CONTROL DATA

Project: Hammond AP-1_Week 3
Pace Project No.: 92757972

QC Batch: 888406
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92757972007, 92757972008, 92757972009, 92757972010, 92757972011, 92757972012

METHOD BLANK: 4575061 Matrix: Water
Associated Lab Samples: 92757972007, 92757972008, 92757972009, 92757972010, 92757972011, 92757972012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	10/15/24 20:47	
Iron	mg/L	ND	0.040	0.025	10/15/24 20:47	
Magnesium	mg/L	ND	0.050	0.012	10/15/24 20:47	
Manganese	mg/L	ND	0.040	0.011	10/15/24 20:47	
Potassium	mg/L	ND	0.50	0.15	10/15/24 20:47	
Sodium	mg/L	ND	1.0	0.58	10/15/24 20:47	

LABORATORY CONTROL SAMPLE: 4575062

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	0.95J	95	80-120	
Iron	mg/L	1	0.99	99	80-120	
Magnesium	mg/L	1	1.0	103	80-120	
Manganese	mg/L	1	1.0	101	80-120	
Potassium	mg/L	1	0.96	96	80-120	
Sodium	mg/L	1	0.94J	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4575063 4575064

Parameter	Units	92757972007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	114	1	1	117	116	376	195	75-125	2	20	M1
Iron	mg/L	6.6	1	1	7.7	7.7	116	108	75-125	1	20	
Magnesium	mg/L	16.2	1	1	17.6	17.4	143	117	75-125	2	20	M1
Manganese	mg/L	3.2	1	1	4.2	4.1	98	96	75-125	0	20	
Potassium	mg/L	5.7	1	1	6.6	6.5	91	86	75-125	1	20	
Sodium	mg/L	10.7	1	1	11.9	11.9	121	115	75-125	1	20	

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QUALITY CONTROL DATA

Project: Hammond AP-1_Week 3
Pace Project No.: 92757972

QC Batch: 888402
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92757972001, 92757972002, 92757972003, 92757972004

METHOD BLANK: 4575045 Matrix: Water
Associated Lab Samples: 92757972001, 92757972002, 92757972003, 92757972004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00054	10/14/24 18:48	
Arsenic	mg/L	0.0012J	0.0050	0.00084	10/14/24 18:48	
Barium	mg/L	ND	0.0050	0.00047	10/14/24 18:48	
Beryllium	mg/L	ND	0.00050	0.000094	10/14/24 18:48	
Boron	mg/L	ND	0.040	0.012	10/14/24 18:48	
Cadmium	mg/L	ND	0.00050	0.00010	10/14/24 18:48	
Chromium	mg/L	ND	0.0050	0.0019	10/15/24 18:43	
Cobalt	mg/L	ND	0.0050	0.00032	10/15/24 18:43	
Lead	mg/L	ND	0.0010	0.00016	10/14/24 18:48	
Lithium	mg/L	ND	0.030	0.0016	10/14/24 18:48	
Molybdenum	mg/L	ND	0.010	0.00062	10/14/24 18:48	
Selenium	mg/L	ND	0.0050	0.00096	10/14/24 18:48	
Thallium	mg/L	ND	0.0010	0.00038	10/15/24 18:43	

LABORATORY CONTROL SAMPLE: 4575046

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.099	99	80-120	
Arsenic	mg/L	0.1	0.098	98	80-120	
Barium	mg/L	0.1	0.096	96	80-120	
Beryllium	mg/L	0.1	0.096	96	80-120	
Boron	mg/L	1	0.92	92	80-120	
Cadmium	mg/L	0.1	0.098	98	80-120	
Chromium	mg/L	0.1	0.097	97	80-120	
Cobalt	mg/L	0.1	0.098	98	80-120	
Lead	mg/L	0.1	0.094	94	80-120	
Lithium	mg/L	0.1	0.096	96	80-120	
Molybdenum	mg/L	0.1	0.099	99	80-120	
Selenium	mg/L	0.1	0.095	95	80-120	
Thallium	mg/L	0.1	0.10	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4575047 4575048

Parameter	Units	92755772001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.10	0.095	101	95	75-125	6	20	
Arsenic	mg/L	ND	0.1	0.1	0.098	0.097	96	95	75-125	1	20	

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QUALITY CONTROL DATA

Project: Hammond AP-1_Week 3
Pace Project No.: 92757972

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4575047 4575048

Parameter	Units	92755772001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	mg/L	22.3 ug/L	0.1	0.1	0.12	0.12	102	98	75-125	3	20	
Beryllium	mg/L	ND	0.1	0.1	0.10	0.096	99	96	75-125	3	20	
Boron	mg/L	ND	1	1	0.95	0.92	95	92	75-125	3	20	
Cadmium	mg/L	ND	0.1	0.1	0.097	0.096	97	96	75-125	1	20	
Chromium	mg/L	ND	0.1	0.1	0.10	0.10	98	98	75-125	1	20	
Cobalt	mg/L	ND	0.1	0.1	0.099	0.098	98	96	75-125	1	20	
Lead	mg/L	ND	0.1	0.1	0.095	0.092	95	91	75-125	4	20	
Lithium	mg/L	ND	0.1	0.1	0.099	0.095	99	95	75-125	4	20	
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.096	102	94	75-125	8	20	
Selenium	mg/L	ND	0.1	0.1	0.095	0.095	95	95	75-125	0	20	
Thallium	mg/L	ND	0.1	0.1	0.095	0.095	95	95	75-125	0	20	

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QUALITY CONTROL DATA

Project: Hammond AP-1_Week 3
Pace Project No.: 92757972

QC Batch: 888403
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92757972005, 92757972006, 92757972007, 92757972008, 92757972009, 92757972010, 92757972011, 92757972012

METHOD BLANK: 4575049 Matrix: Water
Associated Lab Samples: 92757972005, 92757972006, 92757972007, 92757972008, 92757972009, 92757972010, 92757972011, 92757972012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	0.00085J	0.0030	0.00054	10/24/24 12:45	
Arsenic	mg/L	ND	0.0050	0.00084	10/24/24 12:45	
Barium	mg/L	ND	0.0050	0.00047	10/24/24 12:45	
Beryllium	mg/L	ND	0.00050	0.000094	10/24/24 12:45	
Boron	mg/L	ND	0.040	0.012	10/24/24 12:45	
Cadmium	mg/L	ND	0.00050	0.00010	10/24/24 12:45	
Chromium	mg/L	ND	0.0050	0.0019	10/24/24 12:45	
Cobalt	mg/L	ND	0.0050	0.00032	10/24/24 12:45	
Lead	mg/L	ND	0.0010	0.00016	10/24/24 12:45	
Lithium	mg/L	ND	0.030	0.0016	10/24/24 12:45	
Molybdenum	mg/L	ND	0.010	0.00062	10/24/24 12:45	
Selenium	mg/L	ND	0.0050	0.00096	10/24/24 12:45	
Thallium	mg/L	ND	0.0010	0.00038	10/24/24 12:45	

LABORATORY CONTROL SAMPLE: 4575050

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.10	100	80-120	
Arsenic	mg/L	0.1	0.097	97	80-120	
Barium	mg/L	0.1	0.098	98	80-120	
Beryllium	mg/L	0.1	0.11	105	80-120	
Boron	mg/L	1	1.0	100	80-120	
Cadmium	mg/L	0.1	0.099	99	80-120	
Chromium	mg/L	0.1	0.098	98	80-120	
Cobalt	mg/L	0.1	0.096	96	80-120	
Lead	mg/L	0.1	0.096	96	80-120	
Lithium	mg/L	0.1	0.11	109	80-120	
Molybdenum	mg/L	0.1	0.098	98	80-120	
Selenium	mg/L	0.1	0.097	97	80-120	
Thallium	mg/L	0.1	0.094	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4575051 4575052

Parameter	Units	92757972005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.097	0.10	96	100	75-125	4	20	

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QUALITY CONTROL DATA

Project: Hammond AP-1_Week 3
Pace Project No.: 92757972

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4575051 4575052

Parameter	Units	92757972005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	0.0014J	0.1	0.1	0.10	0.10	98	100	75-125	2	20	
Barium	mg/L	0.067	0.1	0.1	0.17	0.17	105	103	75-125	1	20	
Beryllium	mg/L	ND	0.1	0.1	0.10	0.10	100	100	75-125	0	20	
Boron	mg/L	1.5	1	1	2.4	2.4	97	92	75-125	2	20	
Cadmium	mg/L	0.00017J	0.1	0.1	0.097	0.097	96	96	75-125	0	20	
Chromium	mg/L	ND	0.1	0.1	0.10	0.10	101	100	75-125	0	20	
Cobalt	mg/L	0.015	0.1	0.1	0.11	0.11	99	96	75-125	3	20	
Lead	mg/L	ND	0.1	0.1	0.093	0.096	93	96	75-125	3	20	
Lithium	mg/L	0.0057J	0.1	0.1	0.11	0.10	99	99	75-125	1	20	
Molybdenum	mg/L	0.066	0.1	0.1	0.17	0.17	101	105	75-125	2	20	
Selenium	mg/L	ND	0.1	0.1	0.098	0.099	97	99	75-125	1	20	
Thallium	mg/L	ND	0.1	0.1	0.093	0.095	93	95	75-125	2	20	

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QUALITY CONTROL DATA

Project: Hammond AP-1_Week 3
Pace Project No.: 92757972

QC Batch: 888937 — Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A — Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92757972001, 92757972002, 92757972003, 92757972004, 92757972005, 92757972006, 92757972007, 92757972008, 92757972009, 92757972010, 92757972011, 92757972012

METHOD BLANK: 4577183 — Matrix: Water
Associated Lab Samples: 92757972001, 92757972002, 92757972003, 92757972004, 92757972005, 92757972006, 92757972007, 92757972008, 92757972009, 92757972010, 92757972011, 92757972012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	10/16/24 12:33	

LABORATORY CONTROL SAMPLE: 4577184

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0024	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4577185 4577186

Parameter	Units	92757972002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0023	0.0024	93	95	75-125	2	20	

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QUALITY CONTROL DATA

Project: Hammond AP-1_Week 3
Pace Project No.: 92757972

QC Batch: 888616 | Analysis Method: SM 2540C-2015
QC Batch Method: SM 2540C-2015 | Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92757972001, 92757972002, 92757972003, 92757972004, 92757972005, 92757972006, 92757972007, 92757972008, 92757972009, 92757972010, 92757972011, 92757972012

METHOD BLANK: 4575788 Matrix: Water
Associated Lab Samples: 92757972001, 92757972002, 92757972003, 92757972004, 92757972005, 92757972006, 92757972007, 92757972008, 92757972009, 92757972010, 92757972011, 92757972012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	10/14/24 12:23	

LABORATORY CONTROL SAMPLE: 4575789

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	396	99	80-120	

SAMPLE DUPLICATE: 4575790

Parameter	Units	92757767001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	220	217	1	10	

SAMPLE DUPLICATE: 4575791

Parameter	Units	92757972009 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	509	508	0	10	

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QUALITY CONTROL DATA

Project: Hammond AP-1_Week 3
Pace Project No.: 92757972

QC Batch: 974088 — Analysis Method: SM 2320B
QC Batch Method: SM 2320B — Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 92757972001, 92757972002, 92757972003, 92757972004, 92757972005, 92757972006, 92757972007, 92757972008, 92757972009, 92757972010, 92757972011, 92757972012

METHOD BLANK: 5091266 — Matrix: Water
Associated Lab Samples: 92757972001, 92757972002, 92757972003, 92757972004, 92757972005, 92757972006, 92757972007, 92757972008, 92757972009, 92757972010, 92757972011, 92757972012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	1.9	10/17/24 10:59	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	1.9	10/17/24 10:59	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	1.9	10/17/24 10:59	

LABORATORY CONTROL SAMPLE & LCSD: 5091267 5091268

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	40	43.3	43.7	108	109	90-110	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5091269 5091270

Parameter	Units	10711077003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	173	40	40	223	218	123	112	80-120	2	20	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5091271 5091272

Parameter	Units	92757972002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	114	40	40	155	155	103	104	80-120	0	20	

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QUALIFIERS

Project: Hammond AP-1_Week 3
Pace Project No.: 92757972

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

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TNI - The NELAC Institute.

ANALYTE QUALIFIERS

B	Analyte was detected in the associated method blank.
H1	Analysis conducted outside the recognized method holding time.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Hammond AP-1_Week 3
Pace Project No.: 92757972

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92757972001	**HAM-PT-07**	EPA 300.0	976023		
92757972002	**HAM-PT-08**	EPA 300.0	976023		
92757972003	**HAM-PT-09**	EPA 300.0	976023		
92757972004	**HAM-PT-10**	EPA 300.0	976023		
92757972005	**HAM-PT-11**	EPA 300.0	976023		
92757972006	**HAM-PT-12**	EPA 300.0	976023		
92757972007	**HAM-PT-13**	EPA 300.0	976023		
92757972008	**HAM-PT-14**	EPA 300.0	976023		
92757972009	**HAM-PT-15**	EPA 300.0	976023		
92757972010	**HAM-AP1-EB-01**	EPA 300.0	976023		
92757972011	**HAM-AP1-FB-01**	EPA 300.0	976023		
92757972012	**HAM-AP1-FD-01**	EPA 300.0	976023		
92757972001	**HAM-PT-07**	SM 4500-S2 D-2011	973697		
92757972002	**HAM-PT-08**	SM 4500-S2 D-2011	973697		
92757972003	**HAM-PT-09**	SM 4500-S2 D-2011	973697		
92757972004	**HAM-PT-10**	SM 4500-S2 D-2011	973697		
92757972005	**HAM-PT-11**	SM 4500-S2 D-2011	973697		
92757972006	**HAM-PT-12**	SM 4500-S2 D-2011	973697		
92757972007	**HAM-PT-13**	SM 4500-S2 D-2011	973697		
92757972008	**HAM-PT-14**	SM 4500-S2 D-2011	973697		
92757972009	**HAM-PT-15**	SM 4500-S2 D-2011	973697		
92757972010	**HAM-AP1-EB-01**	SM 4500-S2 D-2011	973697		
92757972011	**HAM-AP1-FB-01**	SM 4500-S2 D-2011	973699		
92757972012	**HAM-AP1-FD-01**	SM 4500-S2 D-2011	973699		
92757972001	**HAM-PT-07**	EPA 3010A	888265	EPA 6010D	888393
92757972002	**HAM-PT-08**	EPA 3010A	888265	EPA 6010D	888393
92757972003	**HAM-PT-09**	EPA 3010A	888265	EPA 6010D	888393
92757972004	**HAM-PT-10**	EPA 3010A	888265	EPA 6010D	888393
92757972005	**HAM-PT-11**	EPA 3010A	888265	EPA 6010D	888393
92757972006	**HAM-PT-12**	EPA 3010A	888265	EPA 6010D	888393
92757972007	**HAM-PT-13**	EPA 3010A	888406	EPA 6010D	888486
92757972008	**HAM-PT-14**	EPA 3010A	888406	EPA 6010D	888486
92757972009	**HAM-PT-15**	EPA 3010A	888406	EPA 6010D	888486
92757972010	**HAM-AP1-EB-01**	EPA 3010A	888406	EPA 6010D	888486
92757972011	**HAM-AP1-FB-01**	EPA 3010A	888406	EPA 6010D	888486
92757972012	**HAM-AP1-FD-01**	EPA 3010A	888406	EPA 6010D	888486
92757972001	**HAM-PT-07**	EPA 3005A	888402	EPA 6020B	888488
92757972002	**HAM-PT-08**	EPA 3005A	888402	EPA 6020B	888488
92757972003	**HAM-PT-09**	EPA 3005A	888402	EPA 6020B	888488
92757972004	**HAM-PT-10**	EPA 3005A	888402	EPA 6020B	888488
92757972005	**HAM-PT-11**	EPA 3005A	888403	EPA 6020B	888489
92757972006	**HAM-PT-12**	EPA 3005A	888403	EPA 6020B	888489
92757972007	**HAM-PT-13**	EPA 3005A	888403	EPA 6020B	888489
92757972008	**HAM-PT-14**	EPA 3005A	888403	EPA 6020B	888489
92757972009	**HAM-PT-15**	EPA 3005A	888403	EPA 6020B	888489
92757972010	**HAM-AP1-EB-01**	EPA 3005A	888403	EPA 6020B	888489

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Hammond AP-1_Week 3
Pace Project No.: 92757972

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92757972011	**HAM-AP1-FB-01**	EPA 3005A	888403	EPA 6020B	888489
92757972012	**HAM-AP1-FD-01**	EPA 3005A	888403	EPA 6020B	888489
92757972001	**HAM-PT-07**	EPA 7470A	888937	EPA 7470A	889140
92757972002	**HAM-PT-08**	EPA 7470A	888937	EPA 7470A	889140
92757972003	**HAM-PT-09**	EPA 7470A	888937	EPA 7470A	889140
92757972004	**HAM-PT-10**	EPA 7470A	888937	EPA 7470A	889140
92757972005	**HAM-PT-11**	EPA 7470A	888937	EPA 7470A	889140
92757972006	**HAM-PT-12**	EPA 7470A	888937	EPA 7470A	889140
92757972007	**HAM-PT-13**	EPA 7470A	888937	EPA 7470A	889140
92757972008	**HAM-PT-14**	EPA 7470A	888937	EPA 7470A	889140
92757972009	**HAM-PT-15**	EPA 7470A	888937	EPA 7470A	889140
92757972010	**HAM-AP1-EB-01**	EPA 7470A	888937	EPA 7470A	889140
92757972011	**HAM-AP1-FB-01**	EPA 7470A	888937	EPA 7470A	889140
92757972012	**HAM-AP1-FD-01**	EPA 7470A	888937	EPA 7470A	889140
92757972001	**HAM-PT-07**	SM 2540C-2015	888616		
92757972002	**HAM-PT-08**	SM 2540C-2015	888616		
92757972003	**HAM-PT-09**	SM 2540C-2015	888616		
92757972004	**HAM-PT-10**	SM 2540C-2015	888616		
92757972005	**HAM-PT-11**	SM 2540C-2015	888616		
92757972006	**HAM-PT-12**	SM 2540C-2015	888616		
92757972007	**HAM-PT-13**	SM 2540C-2015	888616		
92757972008	**HAM-PT-14**	SM 2540C-2015	888616		
92757972009	**HAM-PT-15**	SM 2540C-2015	888616		
92757972010	**HAM-AP1-EB-01**	SM 2540C-2015	888616		
92757972011	**HAM-AP1-FB-01**	SM 2540C-2015	888616		
92757972012	**HAM-AP1-FD-01**	SM 2540C-2015	888616		
92757972001	**HAM-PT-07**	SM 2320B	974088		
92757972002	**HAM-PT-08**	SM 2320B	974088		
92757972003	**HAM-PT-09**	SM 2320B	974088		
92757972004	**HAM-PT-10**	SM 2320B	974088		
92757972005	**HAM-PT-11**	SM 2320B	974088		
92757972006	**HAM-PT-12**	SM 2320B	974088		
92757972007	**HAM-PT-13**	SM 2320B	974088		
92757972008	**HAM-PT-14**	SM 2320B	974088		
92757972009	**HAM-PT-15**	SM 2320B	974088		
92757972010	**HAM-AP1-EB-01**	SM 2320B	974088		
92757972011	**HAM-AP1-FB-01**	SM 2320B	974088		
92757972012	**HAM-AP1-FD-01**	SM 2320B	974088		

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WO# : 92757972

92757972

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: of

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Geosyntec Contacts	Company Name:	
				Address:	
Email To:	SCS Contacts	Purchase Order No.:	GPC82474-0001	Pace Quote Reference:	
Phone:	Fax:	Project Name:	Hammond AP-1_Week 3	Pace Project Manager:	Bonnie Vang
Requested Due Date/TAT:	10 Day	Project Number:		Pace Profile #:	16483

REGULATORY AGENCY

NPDES | GROUND WATER | DRINKING WATER

UST | RCRA | OTHER CCR

Site Location STATE: GA

Requested Analysis Filtered (Y/N)

ITEM #	Section D Required Client Information: SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	Valid Matrix Codes: MATRIX / CODE — DRINKING WATER DW; WATER WT; WASTE WATER WW; PRODUCT P; SOIL/SOLID SL; OIL OL; WIPE WP; AIR AR; OTHER OT; TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END DATE	COLLECTED COMPOSITE END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	Chloride, Fluoride, Sulfate	Full App III and IV metals	Major Ions (Profile 10839-2)	TDS	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	HAM-PT-07		WG	G	10/8/2024	1513			21	5	3		1				1		X	X	X	X	N	
2	HAM-PT-08		WG	G	10/8/2024	1245			20	5	3		1				1		X	X	X	X	N	
3	HAM-PT-09		WG	G	10/9/2024	1240			21	5	3		1				1		X	X	X	X	N	
4	HAM-PT-10		WG	G	10/9/2024	1344			20	5	3		1				1		X	X	X	X	N	
5	HAM-PT-11		WG	G	10/9/2024	1007			20	5	3		1				1		X	X	X	X	N	
6	HAM-PT-12		WG	G	10/9/2024	1040			21	5	3		1				1		X	X	X	X	N	
7	HAM-PT-13		WG	G	10/8/2024	1300			20	5	3		1				1		X	X	X	X	N	
8	HAM-PT-14		WG	G	10/8/2024	1530			21	5	3		1				1		X	X	X	X	N	
9	HAM-PT-15		WG	G	10/8/2024	1704			20	5	3		1				1		X	X	X	X	N	
10	HAM-AP1-EB-01		WQ	G	10/9/2024	1500			20	5	3		1				1		X	X	X	X	N	
11	HAM-AP1-FB-01		WQ	G	[illegible]	1505			20	5	3		1				1		X	X	X	X	N	
12	HAM-AP1-FD-01		WG	G	10/8/2024	0000			20	5	3		1				1		X	X	X	X	N	

10/9/2024

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Task Code: HAM-CCR-CA-20241009	Elisabeth Russell/Geo	10/10/24	1115	Ryan Williams / Pace	10/10/24	1115	
	Ryan Williams / Pace	10/10/24	1455		10/10	1455	

JN 10/11/2024

SAMPLER NAME AND SIGNATURE			Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	Elisabeth Russell, Zain Webb / Geosyntec Consultants, Inc					
SIGNATURE of SAMPLER:		DATE Signed (MM/DD/YY):				

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-Feb-2007

DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Pwr

Project #:

WO#: 92757972

PM: BV Due Date: 10/24/24

CLIENT: 92- GP-HAM

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace ☐ Other:

Custody Seal Present? ☑ Yes ☐ No Seals Intact? ☑ Yes ☐ No ☐ N/A

Date/Initials Person Examining Contents: 10/11/24 SCA

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer:
☑ IR Gun ID: 730

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 3.3 Correction Factor: Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 3.3

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☐ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☐ No	☐ N/A	4.
Sufficient Volume?	☐ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☐ Yes	☐ No	☐ N/A	
Containers Intact?	☐ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC? 10/11/24 SCA	☑ Yes	☑ No	☐ N/A	9. Sample 2 & Sample 14 do not have same ID name but do have same time &
-Includes Date/Time/ID/Analysis Matrix: W				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10. No VOC.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

WO# : 92757972

PM: BV Due Date: 10/24/24

CLIENT: 92- GP-HAM

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg
**Bottom half of box is to list number of bottles
***Check all unpreserved Nitrates for chlorine

Project #

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Client_____ Profile/EZ (Circle one)_____ Notes_____

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)		BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG84-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AGDU-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
CC																													
1		7																											
2		2																											
3		2																											
4		2																											
5		2																											
6		2																											
7		2																											
8		2																											
9		2																											
10		2																											
11		2																											
12		2																											

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

October 30, 2024

Kristen Jurinko
Southern Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, GA 30308

RE: Project: Hammond AP-1_Week 4
Pace Project No.: 92759101

Dear Kristen Jurinko:

Enclosed are the analytical results for sample(s) received by the laboratory on October 17, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Peachtree Corners, GA

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Bonnie Vang
bonnie.vang@pacelabs.com
704-977-0968
Project Manager

Enclosures

cc: Kip Gray, Geosyntec
Christine Hug, Geosyntec Consultants, Inc.
Thomas Kessler, Geosyntec Consultants
Whitney Law, Geosyntec Consultants
Laura Midkiff, Southern Company
Caroline Nelson, Geosyntec Consultants, Inc
Jamie Newsome, Geosyntec Consultants
Zain Webb, Geosyntec Consultants

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CERTIFICATIONS

Project: Hammond AP-1_Week 4
Pace Project No.: 92759101

Pace Analytical Services Peachtree Corners
110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812
North Carolina Certification #: 381
South Carolina Certification #: 98011001
Virginia Certification #: 460204

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Hammond AP-1_Week 4
Pace Project No.: 92759101

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92759101001	**HAM-PT-07**	Water	10/15/24 14:22	10/17/24 11:22
92759101002	**HAM-PT-08**	Water	10/15/24 14:20	10/17/24 11:22
92759101003	**HAM-PT-09**	Water	10/16/24 12:27	10/17/24 11:22
92759101004	**HAM-PT-10**	Water	10/16/24 10:40	10/17/24 11:22
92759101005	**HAM-PT-11**	Water	10/16/24 10:40	10/17/24 11:22
92759101006	**HAM-PT-12**	Water	10/16/24 14:20	10/17/24 11:22
92759101007	**HAM-PT-13**	Water	10/15/24 13:08	10/17/24 11:22
92759101008	**HAM-PT-14**	Water	10/15/24 11:25	10/17/24 11:22
92759101009	**HAM-PT-15**	Water	10/15/24 15:20	10/17/24 11:22
92759101010	**HAM-AP1-EB-01**	Water	10/16/24 14:05	10/17/24 11:22
92759101011	**HAM-AP1-FB-01**	Water	10/16/24 14:00	10/17/24 11:22
92759101012	**HAM-AP1-FD-01**	Water	10/16/24 00:00	10/17/24 11:22

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Hammond AP-1_Week 4
Pace Project No.: 92759101

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92759101001	**HAM-PT-07**	EPA 6020B	CW1	3
92759101002	**HAM-PT-08**	EPA 6020B	CW1	3
92759101003	**HAM-PT-09**	EPA 6020B	CW1	3
92759101004	**HAM-PT-10**	EPA 6020B	CW1	3
92759101005	**HAM-PT-11**	EPA 6020B	CW1	3
92759101006	**HAM-PT-12**	EPA 6020B	CW1	3
92759101007	**HAM-PT-13**	EPA 6020B	CW1	3
92759101008	**HAM-PT-14**	EPA 6020B	CW1	3
92759101009	**HAM-PT-15**	EPA 6020B	CW1	3
92759101010	**HAM-AP1-EB-01**	EPA 6020B	CW1	4
92759101011	**HAM-AP1-FB-01**	EPA 6020B	CW1	4
92759101012	**HAM-AP1-FD-01**	EPA 6020B	CW1	4

PASI-GA = Pace Analytical Services - Peachtree Corners, GA

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Hammond AP-1_Week 4
Pace Project No.: 92759101

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92759101001	**HAM-PT-07**					
EPA 6020B	Arsenic	0.044	mg/L	0.0050	10/25/24 18:52	
EPA 6020B	Boron	0.56	mg/L	0.040	10/25/24 18:52	
EPA 6020B	Iron	4.3	mg/L	0.040	10/25/24 18:52	
92759101002	**HAM-PT-08**					
EPA 6020B	Arsenic	0.052	mg/L	0.0050	10/25/24 19:07	
EPA 6020B	Boron	0.59	mg/L	0.040	10/25/24 19:07	
EPA 6020B	Iron	2.2	mg/L	0.040	10/25/24 19:07	
92759101003	**HAM-PT-09**					
EPA 6020B	Boron	1.3	mg/L	0.040	10/25/24 19:11	
EPA 6020B	Iron	0.34	mg/L	0.040	10/25/24 19:11	
EPA 6020B	Molybdenum	0.18	mg/L	0.010	10/25/24 19:11	
92759101004	**HAM-PT-10**					
EPA 6020B	Boron	1.5	mg/L	0.040	10/25/24 19:14	
EPA 6020B	Iron	0.51	mg/L	0.040	10/25/24 19:14	
EPA 6020B	Molybdenum	0.16	mg/L	0.010	10/25/24 19:14	
92759101005	**HAM-PT-11**					
EPA 6020B	Boron	1.3	mg/L	0.040	10/25/24 19:18	
EPA 6020B	Iron	0.82	mg/L	0.040	10/25/24 19:18	
EPA 6020B	Molybdenum	0.062	mg/L	0.010	10/25/24 19:18	
92759101006	**HAM-PT-12**					
EPA 6020B	Boron	1.2	mg/L	0.040	10/25/24 19:29	
EPA 6020B	Iron	0.48	mg/L	0.040	10/25/24 19:29	
EPA 6020B	Molybdenum	0.16	mg/L	0.010	10/25/24 19:29	
92759101007	**HAM-PT-13**					
EPA 6020B	Arsenic	0.064	mg/L	0.0050	10/25/24 19:33	
EPA 6020B	Boron	0.54	mg/L	0.040	10/25/24 19:33	
EPA 6020B	Iron	7.2	mg/L	0.040	10/25/24 19:33	
92759101008	**HAM-PT-14**					
EPA 6020B	Arsenic	0.20	mg/L	0.0050	10/25/24 19:37	
EPA 6020B	Boron	0.59	mg/L	0.040	10/25/24 19:37	
EPA 6020B	Iron	14.4	mg/L	0.40	10/28/24 19:18	
92759101009	**HAM-PT-15**					
EPA 6020B	Arsenic	0.022	mg/L	0.0050	10/25/24 19:40	
EPA 6020B	Boron	0.62	mg/L	0.040	10/25/24 19:40	
EPA 6020B	Iron	1.2	mg/L	0.040	10/25/24 19:40	
92759101010	**HAM-AP1-EB-01**					
EPA 6020B	Iron	0.0089J	mg/L	0.040	10/25/24 19:48	
92759101012	**HAM-AP1-FD-01**					
EPA 6020B	Boron	1.3	mg/L	0.040	10/25/24 19:55	
EPA 6020B	Iron	0.78	mg/L	0.040	10/25/24 19:55	
EPA 6020B	Molybdenum	0.063	mg/L	0.010	10/25/24 19:55	

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(704)875-9092

ANALYTICAL RESULTS

Project: Hammond AP-1_Week 4
Pace Project No.: 92759101

Sample: HAM-PT-07 **Lab ID: 92759101001** Collected: 10/15/24 14:22 Received: 10/17/24 11:22 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Arsenic	**0.044**	mg/L	0.0050	0.00084	1	10/23/24 17:06	10/25/24 18:52	7440-38-2	
Boron	**0.56**	mg/L	0.040	0.012	1	10/23/24 17:06	10/25/24 18:52	7440-42-8	
Iron	**4.3**	mg/L	0.040	0.0075	1	10/23/24 17:06	10/25/24 18:52	7439-89-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1_Week 4
Pace Project No.: 92759101

Sample: HAM-PT-08 **Lab ID: 92759101002** Collected: 10/15/24 14:20 Received: 10/17/24 11:22 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Arsenic	**0.052**	mg/L	0.0050	0.00084	1	10/23/24 17:06	10/25/24 19:07	7440-38-2	
Boron	**0.59**	mg/L	0.040	0.012	1	10/23/24 17:06	10/25/24 19:07	7440-42-8	
Iron	**2.2**	mg/L	0.040	0.0075	1	10/23/24 17:06	10/25/24 19:07	7439-89-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1_Week 4
Pace Project No.: 92759101

Sample: HAM-PT-09 **Lab ID: 92759101003** Collected: 10/16/24 12:27 Received: 10/17/24 11:22 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Boron	**1.3**	mg/L	0.040	0.012	1	10/23/24 17:06	10/25/24 19:11	7440-42-8	
Iron	**0.34**	mg/L	0.040	0.0075	1	10/23/24 17:06	10/25/24 19:11	7439-89-6	
Molybdenum	**0.18**	mg/L	0.010	0.00062	1	10/23/24 17:06	10/25/24 19:11	7439-98-7	

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ANALYTICAL RESULTS

Project: Hammond AP-1_Week 4
Pace Project No.: 92759101

Sample: HAM-PT-10 **Lab ID: 92759101004** Collected: 10/16/24 10:40 Received: 10/17/24 11:22 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Boron	**1.5**	mg/L	0.040	0.012	1	10/23/24 17:06	10/25/24 19:14	7440-42-8	
Iron	**0.51**	mg/L	0.040	0.0075	1	10/23/24 17:06	10/25/24 19:14	7439-89-6	
Molybdenum	**0.16**	mg/L	0.010	0.00062	1	10/23/24 17:06	10/25/24 19:14	7439-98-7	

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ANALYTICAL RESULTS

Project: Hammond AP-1_Week 4
Pace Project No.: 92759101

Sample: HAM-PT-11 **Lab ID: 92759101005** Collected: 10/16/24 10:40 Received: 10/17/24 11:22 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Boron	**1.3**	mg/L	0.040	0.012	1	10/23/24 17:06	10/25/24 19:18	7440-42-8	
Iron	**0.82**	mg/L	0.040	0.0075	1	10/23/24 17:06	10/25/24 19:18	7439-89-6	
Molybdenum	**0.062**	mg/L	0.010	0.00062	1	10/23/24 17:06	10/25/24 19:18	7439-98-7	

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ANALYTICAL RESULTS

Project: Hammond AP-1_Week 4
Pace Project No.: 92759101

Sample: HAM-PT-12 **Lab ID: 92759101006** Collected: 10/16/24 14:20 Received: 10/17/24 11:22 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Boron	**1.2**	mg/L	0.040	0.012	1	10/23/24 17:06	10/25/24 19:29	7440-42-8	
Iron	**0.48**	mg/L	0.040	0.0075	1	10/23/24 17:06	10/25/24 19:29	7439-89-6	
Molybdenum	**0.16**	mg/L	0.010	0.00062	1	10/23/24 17:06	10/25/24 19:29	7439-98-7	

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ANALYTICAL RESULTS

Project: Hammond AP-1_Week 4
Pace Project No.: 92759101

Sample: HAM-PT-13 **Lab ID: 92759101007** Collected: 10/15/24 13:08 Received: 10/17/24 11:22 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Arsenic	**0.064**	mg/L	0.0050	0.00084	1	10/23/24 17:06	10/25/24 19:33	7440-38-2	
Boron	**0.54**	mg/L	0.040	0.012	1	10/23/24 17:06	10/25/24 19:33	7440-42-8	
Iron	**7.2**	mg/L	0.040	0.0075	1	10/23/24 17:06	10/25/24 19:33	7439-89-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1_Week 4
Pace Project No.: 92759101

Sample: HAM-PT-14 **Lab ID: 92759101008** Collected: 10/15/24 11:25 Received: 10/17/24 11:22 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Arsenic	**0.20**	mg/L	0.0050	0.00084	1	10/23/24 17:06	10/25/24 19:37	7440-38-2	
Boron	**0.59**	mg/L	0.040	0.012	1	10/23/24 17:06	10/25/24 19:37	7440-42-8	
Iron	**14.4**	mg/L	0.40	0.075	10	10/23/24 17:06	10/28/24 19:18	7439-89-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1_Week 4
Pace Project No.: 92759101

Sample: HAM-PT-15 **Lab ID: 92759101009** Collected: 10/15/24 15:20 Received: 10/17/24 11:22 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Arsenic	**0.022**	mg/L	0.0050	0.00084	1	10/23/24 17:06	10/25/24 19:40	7440-38-2	
Boron	**0.62**	mg/L	0.040	0.012	1	10/23/24 17:06	10/25/24 19:40	7440-42-8	
Iron	**1.2**	mg/L	0.040	0.0075	1	10/23/24 17:06	10/25/24 19:40	7439-89-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1_Week 4
Pace Project No.: 92759101

Sample: HAM-AP1-EB-01 **Lab ID: 92759101010** Collected: 10/16/24 14:05 Received: 10/17/24 11:22 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Arsenic	ND	mg/L	0.0050	0.00084	1	10/23/24 17:06	10/25/24 19:48	7440-38-2	
Boron	ND	mg/L	0.040	0.012	1	10/23/24 17:06	10/25/24 19:48	7440-42-8	
Iron	**0.0089J**	mg/L	0.040	0.0075	1	10/23/24 17:06	10/25/24 19:48	7439-89-6	
Molybdenum	ND	mg/L	0.010	0.00062	1	10/23/24 17:06	10/25/24 19:48	7439-98-7	

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ANALYTICAL RESULTS

Project: Hammond AP-1_Week 4
Pace Project No.: 92759101

Sample: HAM-AP1-FB-01 **Lab ID: 92759101011** Collected: 10/16/24 14:00 Received: 10/17/24 11:22 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Arsenic	ND	mg/L	0.0050	0.00084	1	10/23/24 17:06	10/25/24 19:51	7440-38-2	
Boron	ND	mg/L	0.040	0.012	1	10/23/24 17:06	10/25/24 19:51	7440-42-8	
Iron	ND	mg/L	0.040	0.0075	1	10/23/24 17:06	10/25/24 19:51	7439-89-6	
Molybdenum	ND	mg/L	0.010	0.00062	1	10/23/24 17:06	10/25/24 19:51	7439-98-7	

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ANALYTICAL RESULTS

Project: Hammond AP-1_Week 4
Pace Project No.: 92759101

Sample: HAM-AP1-FD-01 **Lab ID: 92759101012** Collected: 10/16/24 00:00 Received: 10/17/24 11:22 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Arsenic	ND	mg/L	0.0050	0.00084	1	10/23/24 17:06	10/25/24 19:55	7440-38-2	
Boron	**1.3**	mg/L	0.040	0.012	1	10/23/24 17:06	10/25/24 19:55	7440-42-8	
Iron	**0.78**	mg/L	0.040	0.0075	1	10/23/24 17:06	10/25/24 19:55	7439-89-6	
Molybdenum	**0.063**	mg/L	0.010	0.00062	1	10/23/24 17:06	10/25/24 19:55	7439-98-7	

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QUALITY CONTROL DATA

Project: Hammond AP-1_Week 4
Pace Project No.: 92759101

QC Batch: 890896
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92759101001, 92759101002, 92759101003, 92759101004, 92759101005, 92759101006, 92759101007, 92759101008, 92759101009, 92759101010, 92759101011, 92759101012

METHOD BLANK: 4586647 Matrix: Water
Associated Lab Samples: 92759101001, 92759101002, 92759101003, 92759101004, 92759101005, 92759101006, 92759101007, 92759101008, 92759101009, 92759101010, 92759101011, 92759101012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	mg/L	ND	0.0050	0.00084	10/25/24 18:45	
Boron	mg/L	ND	0.040	0.012	10/25/24 18:45	
Iron	mg/L	ND	0.040	0.0075	10/25/24 18:45	
Molybdenum	mg/L	ND	0.010	0.00062	10/25/24 18:45	

LABORATORY CONTROL SAMPLE: 4586648

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	0.1	0.094	94	80-120	
Boron	mg/L	1	0.93	93	80-120	
Iron	mg/L	1	1.0	100	80-120	
Molybdenum	mg/L	0.1	0.096	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4586649 4586650

Parameter	Units	92759101001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	0.044	0.1	0.1	0.14	0.14	101	100	75-125	0	20	
Boron	mg/L	0.56	1	1	1.5	1.4	91	89	75-125	1	20	
Iron	mg/L	4.3	1	1	5.4	5.5	103	113	75-125	2	20	
Molybdenum	mg/L	0.0055J	0.1	0.1	0.10	0.10	99	99	75-125	0	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALIFIERS

Project: Hammond AP-1_Week 4
Pace Project No.: 92759101

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Hammond AP-1_Week 4
Pace Project No.: 92759101

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92759101001	**HAM-PT-07**	EPA 3005A	890896	EPA 6020B	890981
92759101002	**HAM-PT-08**	EPA 3005A	890896	EPA 6020B	890981
92759101003	**HAM-PT-09**	EPA 3005A	890896	EPA 6020B	890981
92759101004	**HAM-PT-10**	EPA 3005A	890896	EPA 6020B	890981
92759101005	**HAM-PT-11**	EPA 3005A	890896	EPA 6020B	890981
92759101006	**HAM-PT-12**	EPA 3005A	890896	EPA 6020B	890981
92759101007	**HAM-PT-13**	EPA 3005A	890896	EPA 6020B	890981
92759101008	**HAM-PT-14**	EPA 3005A	890896	EPA 6020B	890981
92759101009	**HAM-PT-15**	EPA 3005A	890896	EPA 6020B	890981
92759101010	**HAM-AP1-EB-01**	EPA 3005A	890896	EPA 6020B	890981
92759101011	**HAM-AP1-FB-01**	EPA 3005A	890896	EPA 6020B	890981
92759101012	**HAM-AP1-FD-01**	EPA 3005A	890896	EPA 6020B	890981

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

WO# : 92759101

92759101

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Geosyntec Contacts	Company Name:	
				Address:	
Email To:	SCS Contacts	Purchase Order No.:	GPC82474-0001	Pace Quote Reference:	
Phone:	Fax:	Project Name:	Hammond AP-1_Week 4	Pace Project Manager:	Bonnie Vang
Requested Due Date/TAT:	10 Day	Project Number:		Pace Profile #:	16483

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☑ OTHER CCR

Site Location STATE: GA

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE DATE	COLLECTED COMPOSITE TIME	COLLECTED COMPOSITE DATE	COLLECTED COMPOSITE TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	Requested Analysis Filtered (Y/N)											Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
																			N	N	N									
																			Total 601/6022-B, As, Mo, Fe	Total 601/6022-B, As, Fe	Total 601/6022-B, Mo, Fe									
1	HAM-PT-07	WG	G	10/15/2024	1422			19	1			1								X									N	
2	HAM-PT-08	WG	G	10/15/2024	1420			19	1			1								X									N	
3	HAM-PT-09	WG	G	10/16/2024	1227			19	1			1									X								N	
4	HAM-PT-10	WG	G	10/16/2024	1040			18	1			1									X								N	
5	HAM-PT-11	WG	G	10/16/2024	1040			19	1			1									X								N	
6	HAM-PT-12	WG	G	10/16/2024	1420			19	1			1									X								N	
7	HAM-PT-13	WG	G	10/15/2024	1308			20	1			1								X									N	
8	HAM-PT-14	WG	G	10/15/2024	1125			19	1			1								X									N	
9	HAM-PT-15	WG	G	10/15/2024	1520			20	1			1								X									N	
10	HAM-AP1-EB-01	WQ	G	10/16/2024	1405			19	1			1							X										N	
11	HAM-AP1-FB-01	WQ	G	10/16/2024	1400			19	1			1							X										N	
12	HAM-AP1-FD-01	WG	G	10/16/2024	0000			19	1			1							X										N	

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Task Code: HAM-CCR-CA-20241015	Jamie Newsome / GEO	10/17/24	1122	Ryan Williams / Pace	10/17/24	1122	
	Ryan Williams / Pace	10/17/24	1210	MSW	10/17/24	1210	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jamie Newsome, Amanda Tomlinson / Geosyntec Consultants, Inc.

SIGNATURE of SAMPLER: Jamie Newsome DATE Signed (MM/DD/YY): 10/17/2024

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-Feb-2007

Pace

DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☒ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #: **WO#: 92759101**

PM: BV Due Date: 10/31/24

CLIENT: 92- GP-HAM

Courier: ☐ Commercial ☒ Pace ☐ Fed Ex ☐ UPS ☐ USPS ☐ Other:____ ☐ Client

Custody Seal Present? ☒ Yes ☐ No Seals Intact? ☒ Yes ☐ No ☐ N/A

Date/Initials Person Examining Contents: MM 10/17/24

Packing Material: ☒ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☒ N/A

Thermometer: ☐ IR Gun ID: 214

Type of Ice: ☒ Wet ☐ Blue ☐ None

Cooler Temp: 5.4 Correction Factor: Add/Subtract (°C) 0

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 5.4

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☒ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☒ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☒ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☒ No	☐ N/A	4.
Sufficient Volume?	☒ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☒ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☒ Yes	☐ No	☐ N/A	
Containers Intact?	☒ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☒ N/A	8.
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: WG	☒ Yes	☐ No	☐ N/A	9.
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☒ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☒ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☒ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

WO#: 92759101

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg
**Bottom half of box is to list number of bottles
***Check all unpreserved Nitrates for chlorine

Project #

PM: BV Due Date: 10/31/24
CLIENT: 92- GP-HAM

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☒ Kernersville ☐

Client GA Power Profile/EZ (Circle one) 16483 Notes

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)		BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
CC																													
1	\				\	\	1	\	\			\		\	\	\									\	\			
2	\				\	\	1	\	\			\		\	\	\									\	\			
3	\				\	\	1	\	\			\		\	\	\									\	\			
4	\				\	\	1	\	\			\		\	\	\									\	\			
5	\				\	\	1	\	\			\		\	\	\									\	\			
6	\				\	\	1	\	\			\		\	\	\									\	\			
7	\				\	\	1	\	\			\		\	\	\									\	\			
8	\				\	\	1	\	\			\		\	\	\									\	\			
9	\				\	\	1	\	\			\		\	\	\									\	\			
10	\				\	\	1	\	\			\		\	\	\									\	\			
11	\				\	\	1	\	\			\		\	\	\									\	\			
12	\				\	\	1	\	\			\		\	\	\									\	\			

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

January 24, 2025

Kristen Jurinko
Southern Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, GA 30308

RE: Project: Hammond AP-1
Pace Project No.: 92762188

Dear Kristen Jurinko:

Enclosed are the analytical results for sample(s) received by the laboratory on November 06, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Asheville
- Pace Analytical Services - Peachtree Corners, GA

Revision 1: Collected date for sample ID HAM-AP1-FD-01 was updated to 11/4/24, per client request.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Bonnie Vang
bonnie.vang@pacelabs.com
704-977-0968
Project Manager

Enclosures

cc: Kip Gray, Geosyntec
Christine Hug, Geosyntec Consultants, Inc.
Thomas Kessler, Geosyntec Consultants
Whitney Law, Geosyntec Consultants
Laura Midkiff, Southern Company
Caroline Nelson, Geosyntec Consultants, Inc
Jamie Newsome, Geosyntec Consultants
Zain Webb, Geosyntec Consultants

REPORT OF LABORATORY ANALYSIS

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9800 Kincey Ave. Suite 100
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CERTIFICATIONS

Project: Hammond AP-1
Pace Project No.: 92762188

Pace Analytical Services Asheville
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Laboratory ID: 99030
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners
110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812
North Carolina Certification #: 381
South Carolina Certification #: 98011001
Virginia Certification #: 460204

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SAMPLE SUMMARY

Project: Hammond AP-1
Pace Project No.: 92762188

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92762188001	**HAM-PT-07**	Water	11/04/24 12:34	11/06/24 14:15
92762188002	**HAM-PT-08**	Water	11/04/24 12:14	11/06/24 14:15
92762188003	**HAM-PT-09**	Water	11/05/24 11:54	11/06/24 14:15
92762188004	**HAM-PT-10**	Water	11/05/24 09:29	11/06/24 14:15
92762188005	**HAM-PT-11**	Water	11/05/24 09:25	11/06/24 14:15
92762188006	**HAM-PT-12**	Water	11/05/24 11:44	11/06/24 14:15
92762188007	**HAM-PT-13**	Water	11/04/24 11:05	11/06/24 14:15
92762188008	**HAM-PT-14**	Water	11/04/24 14:50	11/06/24 14:15
92762188009	**HAM-PT-15**	Water	11/04/24 14:01	11/06/24 14:15
92762188010	**HAM-AP1-EB-01**	Water	11/05/24 12:36	11/06/24 14:15
92762188011	**HAM-AP1-FB-01**	Water	11/05/24 12:32	11/06/24 14:15
92762188012	**HAM-AP1-FD-01**	Water	11/04/24 00:00	11/06/24 14:15

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SAMPLE ANALYTE COUNT

Project: Hammond AP-1
Pace Project No.: 92762188

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92762188001	**HAM-PT-07**	EPA 6010D	DRB	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92762188002	**HAM-PT-08**	EPA 6010D	DRB	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92762188003	**HAM-PT-09**	EPA 6010D	DRB	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92762188004	**HAM-PT-10**	EPA 6010D	DRB	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92762188005	**HAM-PT-11**	EPA 6010D	DRB	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92762188006	**HAM-PT-12**	EPA 6010D	DRB	6
		EPA 6020B	CW1	13

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SAMPLE ANALYTE COUNT

Project: Hammond AP-1
Pace Project No.: 92762188

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92762188007	**HAM-PT-13**	EPA 6010D	DRB	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92762188008	**HAM-PT-14**	EPA 6010D	DRB	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92762188009	**HAM-PT-15**	EPA 6010D	DRB	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92762188010	**HAM-AP1-EB-01**	EPA 6010D	DRB	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92762188011	**HAM-AP1-FB-01**	EPA 6010D	DRB	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1

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SAMPLE ANALYTE COUNT

Project: Hammond AP-1
Pace Project No.: 92762188

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92762188012	**HAM-AP1-FD-01**	EPA 6010D	DRB	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3

PASI-A = Pace Analytical Services - Asheville
PASI-GA = Pace Analytical Services - Peachtree Corners, GA

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SUMMARY OF DETECTION

Project: Hammond AP-1
Pace Project No.: 92762188

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92762188001	**HAM-PT-07**					
EPA 6010D	Iron	6.6	mg/L	0.040	11/08/24 19:24	
EPA 6010D	Manganese	3.1	mg/L	0.040	11/08/24 19:24	
EPA 6010D	Potassium	5.9	mg/L	0.50	11/08/24 19:24	
EPA 6010D	Sodium	9.8	mg/L	1.0	11/08/24 19:24	M1
EPA 6010D	Calcium	121	mg/L	1.0	11/08/24 19:24	M1
EPA 6010D	Magnesium	17.9	mg/L	0.050	11/08/24 19:24	M1
EPA 6020B	Arsenic	0.11	mg/L	0.0050	11/13/24 17:15	
EPA 6020B	Barium	0.051	mg/L	0.0050	11/13/24 17:15	
EPA 6020B	Boron	0.67	mg/L	0.040	11/13/24 17:15	
EPA 6020B	Cobalt	0.042	mg/L	0.0050	11/13/24 17:15	
EPA 6020B	Lead	0.00019J	mg/L	0.0010	11/13/24 17:15	
EPA 6020B	Lithium	0.051	mg/L	0.030	11/13/24 17:15	
EPA 6020B	Molybdenum	0.0088J	mg/L	0.010	11/13/24 17:15	
SM 2540C-2015	Total Dissolved Solids	542	mg/L	25.0	11/07/24 12:29	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	152	mg/L	5.0	11/12/24 13:55	
SM 2320B-2011	Alkalinity, Total as CaCO3	152	mg/L	5.0	11/12/24 13:55	
EPA 300.0 Rev 2.1 1993	Chloride	16.5	mg/L	1.0	11/07/24 16:25	
EPA 300.0 Rev 2.1 1993	Fluoride	0.29	mg/L	0.10	11/07/24 16:25	
EPA 300.0 Rev 2.1 1993	Sulfate	194	mg/L	4.0	11/08/24 01:54	
92762188002	**HAM-PT-08**					
EPA 6010D	Iron	0.63	mg/L	0.040	11/08/24 19:44	
EPA 6010D	Manganese	1.4	mg/L	0.040	11/08/24 19:44	
EPA 6010D	Potassium	5.7	mg/L	0.50	11/08/24 19:44	
EPA 6010D	Sodium	8.2	mg/L	1.0	11/08/24 19:44	
EPA 6010D	Calcium	105	mg/L	1.0	11/08/24 19:44	
EPA 6010D	Magnesium	14.4	mg/L	0.050	11/08/24 19:44	
EPA 6020B	Arsenic	0.027	mg/L	0.0050	11/13/24 17:19	
EPA 6020B	Barium	0.053	mg/L	0.0050	11/13/24 17:19	
EPA 6020B	Boron	0.70	mg/L	0.040	11/13/24 17:19	
EPA 6020B	Cobalt	0.032	mg/L	0.0050	11/13/24 17:19	
EPA 6020B	Lithium	0.023J	mg/L	0.030	11/13/24 17:19	
EPA 6020B	Molybdenum	0.0097J	mg/L	0.010	11/13/24 17:19	
EPA 6020B	Selenium	0.0014J	mg/L	0.0050	11/13/24 17:19	
SM 2540C-2015	Total Dissolved Solids	474	mg/L	25.0	11/07/24 12:30	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	98.7	mg/L	5.0	11/12/24 14:05	
SM 2320B-2011	Alkalinity, Total as CaCO3	98.7	mg/L	5.0	11/12/24 14:05	
EPA 300.0 Rev 2.1 1993	Chloride	15.6	mg/L	1.0	11/07/24 16:40	
EPA 300.0 Rev 2.1 1993	Fluoride	0.15	mg/L	0.10	11/07/24 16:40	
EPA 300.0 Rev 2.1 1993	Sulfate	187	mg/L	4.0	11/08/24 02:09	
92762188003	**HAM-PT-09**					
EPA 6010D	Iron	0.37	mg/L	0.040	11/08/24 19:49	
EPA 6010D	Manganese	0.44	mg/L	0.040	11/08/24 19:49	
EPA 6010D	Potassium	6.4	mg/L	0.50	11/08/24 19:49	
EPA 6010D	Sodium	9.7	mg/L	1.0	11/08/24 19:49	
EPA 6010D	Calcium	106	mg/L	1.0	11/08/24 19:49	
EPA 6010D	Magnesium	25.0	mg/L	0.050	11/08/24 19:49	

REPORT OF LABORATORY ANALYSIS

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Huntersville, NC 28078
(704)875-9092

SUMMARY OF DETECTION

Project: Hammond AP-1
Pace Project No.: 92762188

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92762188003	**HAM-PT-09**					
EPA 6020B	Antimony	0.00060J	mg/L	0.0030	11/13/24 17:35	
EPA 6020B	Arsenic	0.0028J	mg/L	0.0050	11/13/24 17:35	B
EPA 6020B	Barium	0.072	mg/L	0.0050	11/13/24 17:35	
EPA 6020B	Boron	1.6	mg/L	0.040	11/13/24 17:35	
EPA 6020B	Cadmium	0.00023J	mg/L	0.00050	11/13/24 17:35	
EPA 6020B	Cobalt	0.0040J	mg/L	0.0050	11/13/24 17:35	
EPA 6020B	Lithium	0.0029J	mg/L	0.030	11/13/24 17:35	
EPA 6020B	Molybdenum	0.22	mg/L	0.010	11/13/24 17:35	
EPA 6020B	Selenium	0.00099J	mg/L	0.0050	11/13/24 17:35	
SM 2540C-2015	Total Dissolved Solids	563	mg/L	25.0	11/07/24 12:32	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	122	mg/L	5.0	11/12/24 18:00	
SM 2320B-2011	Alkalinity, Total as CaCO3	122	mg/L	5.0	11/12/24 18:00	
EPA 300.0 Rev 2.1 1993	Chloride	48.3	mg/L	1.0	11/07/24 17:26	
EPA 300.0 Rev 2.1 1993	Fluoride	0.37	mg/L	0.10	11/07/24 17:26	
EPA 300.0 Rev 2.1 1993	Sulfate	165	mg/L	4.0	11/08/24 02:54	
92762188004	**HAM-PT-10**					
EPA 6010D	Iron	0.033J	mg/L	0.040	11/08/24 19:54	
EPA 6010D	Manganese	0.40	mg/L	0.040	11/08/24 19:54	
EPA 6010D	Potassium	6.9	mg/L	0.50	11/08/24 19:54	
EPA 6010D	Sodium	9.2	mg/L	1.0	11/08/24 19:54	
EPA 6010D	Calcium	107	mg/L	1.0	11/08/24 19:54	
EPA 6010D	Magnesium	13.9	mg/L	0.050	11/08/24 19:54	
EPA 6020B	Arsenic	0.0021J	mg/L	0.0050	11/13/24 17:39	B
EPA 6020B	Barium	0.050	mg/L	0.0050	11/13/24 17:39	
EPA 6020B	Boron	1.7	mg/L	0.040	11/13/24 17:39	
EPA 6020B	Cadmium	0.00013J	mg/L	0.00050	11/13/24 17:39	
EPA 6020B	Cobalt	0.0014J	mg/L	0.0050	11/13/24 17:39	
EPA 6020B	Molybdenum	0.21	mg/L	0.010	11/13/24 17:39	
EPA 6020B	Selenium	0.0011J	mg/L	0.0050	11/13/24 17:39	
SM 2540C-2015	Total Dissolved Solids	527	mg/L	25.0	11/07/24 12:32	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	132	mg/L	5.0	11/12/24 18:08	
SM 2320B-2011	Alkalinity, Total as CaCO3	132	mg/L	5.0	11/12/24 18:08	
EPA 300.0 Rev 2.1 1993	Chloride	45.1	mg/L	1.0	11/07/24 17:42	
EPA 300.0 Rev 2.1 1993	Fluoride	0.27	mg/L	0.10	11/07/24 17:42	
EPA 300.0 Rev 2.1 1993	Sulfate	129	mg/L	3.0	11/08/24 03:09	
92762188005	**HAM-PT-11**					
EPA 6010D	Iron	0.19	mg/L	0.040	11/08/24 19:58	
EPA 6010D	Manganese	0.66	mg/L	0.040	11/08/24 19:58	
EPA 6010D	Potassium	6.3	mg/L	0.50	11/08/24 19:58	
EPA 6010D	Sodium	9.1	mg/L	1.0	11/08/24 19:58	
EPA 6010D	Calcium	112	mg/L	1.0	11/08/24 19:58	
EPA 6010D	Magnesium	19.1	mg/L	0.050	11/08/24 19:58	
EPA 6020B	Arsenic	0.0030J	mg/L	0.0050	11/13/24 17:43	B
EPA 6020B	Barium	0.074	mg/L	0.0050	11/13/24 17:43	
EPA 6020B	Boron	1.6	mg/L	0.040	11/13/24 17:43	
EPA 6020B	Cadmium	0.00018J	mg/L	0.00050	11/13/24 17:43	

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SUMMARY OF DETECTION

Project: Hammond AP-1
Pace Project No.: 92762188

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92762188005	**HAM-PT-11**					
EPA 6020B	Cobalt	0.0079	mg/L	0.0050	11/13/24 17:43	
EPA 6020B	Lithium	0.0046J	mg/L	0.030	11/13/24 17:43	
EPA 6020B	Molybdenum	0.11	mg/L	0.010	11/13/24 17:43	
SM 2540C-2015	Total Dissolved Solids	563	mg/L	25.0	11/07/24 12:33	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	128	mg/L	5.0	11/12/24 18:17	
SM 2320B-2011	Alkalinity, Total as CaCO3	128	mg/L	5.0	11/12/24 18:17	
EPA 300.0 Rev 2.1 1993	Chloride	46.9	mg/L	1.0	11/07/24 17:57	
EPA 300.0 Rev 2.1 1993	Fluoride	0.31	mg/L	0.10	11/07/24 17:57	
EPA 300.0 Rev 2.1 1993	Sulfate	156	mg/L	4.0	11/08/24 03:25	
92762188006	**HAM-PT-12**					
EPA 6010D	Iron	0.14	mg/L	0.040	11/08/24 20:13	
EPA 6010D	Manganese	1.4	mg/L	0.040	11/08/24 20:13	
EPA 6010D	Potassium	5.4	mg/L	0.50	11/08/24 20:13	
EPA 6010D	Sodium	7.6	mg/L	1.0	11/08/24 20:13	
EPA 6010D	Calcium	98.0	mg/L	1.0	11/08/24 20:13	
EPA 6010D	Magnesium	31.4	mg/L	0.050	11/08/24 20:13	
EPA 6020B	Arsenic	0.0046J	mg/L	0.0050	11/13/24 18:12	B
EPA 6020B	Barium	0.074	mg/L	0.0050	11/13/24 18:12	
EPA 6020B	Boron	1.1	mg/L	0.040	11/13/24 18:12	
EPA 6020B	Cadmium	0.00037J	mg/L	0.00050	11/13/24 18:12	
EPA 6020B	Cobalt	0.0053	mg/L	0.0050	11/13/24 18:12	
EPA 6020B	Lithium	0.0037J	mg/L	0.030	11/13/24 18:12	
EPA 6020B	Molybdenum	0.12	mg/L	0.010	11/13/24 18:12	
SM 2540C-2015	Total Dissolved Solids	549	mg/L	25.0	11/12/24 15:09	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	107	mg/L	5.0	11/12/24 18:25	
SM 2320B-2011	Alkalinity, Total as CaCO3	107	mg/L	5.0	11/12/24 18:25	
EPA 300.0 Rev 2.1 1993	Chloride	32.2	mg/L	1.0	11/07/24 18:59	
EPA 300.0 Rev 2.1 1993	Fluoride	0.26	mg/L	0.10	11/07/24 18:59	
EPA 300.0 Rev 2.1 1993	Sulfate	204	mg/L	5.0	11/08/24 03:40	
92762188007	**HAM-PT-13**					
EPA 6010D	Iron	8.6	mg/L	0.040	11/08/24 20:18	
EPA 6010D	Manganese	2.9	mg/L	0.040	11/08/24 20:18	
EPA 6010D	Potassium	5.9	mg/L	0.50	11/08/24 20:18	
EPA 6010D	Sodium	11.3	mg/L	1.0	11/08/24 20:18	
EPA 6010D	Calcium	119	mg/L	1.0	11/08/24 20:18	
EPA 6010D	Magnesium	16.9	mg/L	0.050	11/08/24 20:18	
EPA 6020B	Arsenic	0.14	mg/L	0.0050	11/13/24 18:16	
EPA 6020B	Barium	0.050	mg/L	0.0050	11/13/24 18:16	
EPA 6020B	Beryllium	0.00011J	mg/L	0.00050	11/13/24 18:16	
EPA 6020B	Boron	0.65	mg/L	0.040	11/13/24 18:16	
EPA 6020B	Cobalt	0.024	mg/L	0.0050	11/13/24 18:16	
EPA 6020B	Lithium	0.058	mg/L	0.030	11/13/24 18:16	
EPA 6020B	Molybdenum	0.0072J	mg/L	0.010	11/13/24 18:16	
EPA 6020B	Selenium	0.0011J	mg/L	0.0050	11/13/24 18:16	
SM 2540C-2015	Total Dissolved Solids	550	mg/L	25.0	11/07/24 12:31	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	147	mg/L	5.0	11/12/24 14:13	

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SUMMARY OF DETECTION

Project: Hammond AP-1
Pace Project No.: 92762188

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92762188007	**HAM-PT-13**					
SM 2320B-2011	Alkalinity, Total as CaCO3	147	mg/L	5.0	11/12/24 14:13	
EPA 300.0 Rev 2.1 1993	Chloride	18.5	mg/L	1.0	11/07/24 19:14	
EPA 300.0 Rev 2.1 1993	Fluoride	0.32	mg/L	0.10	11/07/24 19:14	
EPA 300.0 Rev 2.1 1993	Sulfate	199	mg/L	4.0	11/08/24 04:41	
92762188008	**HAM-PT-14**					
EPA 6010D	Iron	13.5	mg/L	0.040	11/08/24 20:23	
EPA 6010D	Manganese	2.8	mg/L	0.040	11/08/24 20:23	
EPA 6010D	Potassium	5.8	mg/L	0.50	11/08/24 20:23	
EPA 6010D	Sodium	8.7	mg/L	1.0	11/08/24 20:23	
EPA 6010D	Calcium	123	mg/L	1.0	11/08/24 20:23	
EPA 6010D	Magnesium	17.6	mg/L	0.050	11/08/24 20:23	
EPA 6020B	Arsenic	0.26	mg/L	0.0050	11/13/24 18:20	
EPA 6020B	Barium	0.045	mg/L	0.0050	11/13/24 18:20	
EPA 6020B	Boron	0.66	mg/L	0.040	11/13/24 18:20	
EPA 6020B	Cobalt	0.023	mg/L	0.0050	11/13/24 18:20	
EPA 6020B	Lithium	0.051	mg/L	0.030	11/13/24 18:20	
EPA 6020B	Molybdenum	0.016	mg/L	0.010	11/13/24 18:20	
EPA 6020B	Selenium	0.0012J	mg/L	0.0050	11/13/24 18:20	
SM 2540C-2015	Total Dissolved Solids	628	mg/L	25.0	11/07/24 12:31	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	148	mg/L	5.0	11/12/24 14:31	
SM 2320B-2011	Alkalinity, Total as CaCO3	148	mg/L	5.0	11/12/24 14:31	
EPA 300.0 Rev 2.1 1993	Chloride	15.2	mg/L	1.0	11/07/24 19:30	
EPA 300.0 Rev 2.1 1993	Fluoride	0.25	mg/L	0.10	11/07/24 19:30	
EPA 300.0 Rev 2.1 1993	Sulfate	196	mg/L	4.0	11/08/24 04:56	
92762188009	**HAM-PT-15**					
EPA 6010D	Iron	1.1	mg/L	0.040	11/08/24 20:28	
EPA 6010D	Manganese	2.9	mg/L	0.040	11/08/24 20:28	
EPA 6010D	Potassium	5.3	mg/L	0.50	11/08/24 20:28	
EPA 6010D	Sodium	8.8	mg/L	1.0	11/08/24 20:28	
EPA 6010D	Calcium	119	mg/L	1.0	11/08/24 20:28	
EPA 6010D	Magnesium	14.2	mg/L	0.050	11/08/24 20:28	
EPA 6020B	Arsenic	0.040	mg/L	0.0050	11/13/24 18:24	
EPA 6020B	Barium	0.051	mg/L	0.0050	11/13/24 18:24	
EPA 6020B	Boron	0.74	mg/L	0.040	11/13/24 18:24	
EPA 6020B	Cadmium	0.00034J	mg/L	0.00050	11/13/24 18:24	
EPA 6020B	Cobalt	0.019	mg/L	0.0050	11/13/24 18:24	
EPA 6020B	Lithium	0.046	mg/L	0.030	11/13/24 18:24	
EPA 6020B	Molybdenum	0.012	mg/L	0.010	11/13/24 18:24	
EPA 6020B	Selenium	0.0020J	mg/L	0.0050	11/13/24 18:24	
EPA 6020B	Thallium	0.00041J	mg/L	0.0010	11/13/24 18:24	
SM 2540C-2015	Total Dissolved Solids	543	mg/L	25.0	11/07/24 12:31	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	140	mg/L	5.0	11/12/24 14:41	
SM 2320B-2011	Alkalinity, Total as CaCO3	140	mg/L	5.0	11/12/24 14:41	
EPA 300.0 Rev 2.1 1993	Chloride	16.0	mg/L	1.0	11/07/24 19:45	
EPA 300.0 Rev 2.1 1993	Fluoride	0.28	mg/L	0.10	11/07/24 19:45	
EPA 300.0 Rev 2.1 1993	Sulfate	194	mg/L	4.0	11/08/24 05:12	

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SUMMARY OF DETECTION

Project: Hammond AP-1
Pace Project No.: 92762188

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92762188010	**HAM-AP1-EB-01**					
EPA 6010D	Magnesium	0.019J	mg/L	0.050	11/08/24 20:32	
EPA 6020B	Arsenic	0.0021J	mg/L	0.0050	11/13/24 18:33	B
SM 2540C-2015	Total Dissolved Solids	57.0	mg/L	25.0	11/07/24 12:33	
92762188011	**HAM-AP1-FB-01**					
EPA 6010D	Sodium	0.74J	mg/L	1.0	11/08/24 20:37	
EPA 6010D	Calcium	0.40J	mg/L	1.0	11/08/24 20:37	
EPA 6010D	Magnesium	0.10	mg/L	0.050	11/08/24 20:37	
EPA 6020B	Arsenic	0.0017J	mg/L	0.0050	11/13/24 18:37	B
EPA 6020B	Barium	0.0022J	mg/L	0.0050	11/13/24 18:37	
92762188012	**HAM-AP1-FD-01**					
EPA 6010D	Iron	0.66	mg/L	0.040	11/08/24 20:42	
EPA 6010D	Manganese	1.5	mg/L	0.040	11/08/24 20:42	
EPA 6010D	Potassium	5.6	mg/L	0.50	11/08/24 20:42	
EPA 6010D	Sodium	8.2	mg/L	1.0	11/08/24 20:42	
EPA 6010D	Calcium	106	mg/L	1.0	11/08/24 20:42	
EPA 6010D	Magnesium	14.5	mg/L	0.050	11/08/24 20:42	
EPA 6020B	Arsenic	0.028	mg/L	0.0050	11/13/24 18:41	
EPA 6020B	Barium	0.054	mg/L	0.0050	11/13/24 18:41	
EPA 6020B	Boron	0.70	mg/L	0.040	11/13/24 18:41	
EPA 6020B	Cobalt	0.033	mg/L	0.0050	11/13/24 18:41	
EPA 6020B	Lithium	0.025J	mg/L	0.030	11/13/24 18:41	
EPA 6020B	Molybdenum	0.010	mg/L	0.010	11/13/24 18:41	
EPA 6020B	Selenium	0.0014J	mg/L	0.0050	11/13/24 18:41	
SM 2540C-2015	Total Dissolved Solids	497	mg/L	25.0	11/07/24 12:34	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	102	mg/L	5.0	11/14/24 18:40	
SM 2320B-2011	Alkalinity, Total as CaCO3	102	mg/L	5.0	11/14/24 18:40	
EPA 300.0 Rev 2.1 1993	Chloride	15.8	mg/L	1.0	11/07/24 21:02	
EPA 300.0 Rev 2.1 1993	Fluoride	0.16	mg/L	0.10	11/07/24 21:02	
EPA 300.0 Rev 2.1 1993	Sulfate	190	mg/L	4.0	11/08/24 05:27	M1

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92762188

Sample: HAM-PT-07 **Lab ID: 92762188001** Collected: 11/04/24 12:34 Received: 11/06/24 14:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**6.6**	mg/L	0.040	0.025	1	11/08/24 12:32	11/08/24 19:24	7439-89-6	
Manganese	**3.1**	mg/L	0.040	0.011	1	11/08/24 12:32	11/08/24 19:24	7439-96-5	
Potassium	**5.9**	mg/L	0.50	0.15	1	11/08/24 12:32	11/08/24 19:24	7440-09-7	
Sodium	**9.8**	mg/L	1.0	0.58	1	11/08/24 12:32	11/08/24 19:24	7440-23-5	M1
Calcium	**121**	mg/L	1.0	0.12	1	11/08/24 12:32	11/08/24 19:24	7440-70-2	M1
Magnesium	**17.9**	mg/L	0.050	0.012	1	11/08/24 12:32	11/08/24 19:24	7439-95-4	M1
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	11/08/24 12:13	11/13/24 17:15	7440-36-0	
Arsenic	**0.11**	mg/L	0.0050	0.00084	1	11/08/24 12:13	11/13/24 17:15	7440-38-2	
Barium	**0.051**	mg/L	0.0050	0.00047	1	11/08/24 12:13	11/13/24 17:15	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	11/08/24 12:13	11/13/24 17:15	7440-41-7	
Boron	**0.67**	mg/L	0.040	0.012	1	11/08/24 12:13	11/13/24 17:15	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	11/08/24 12:13	11/13/24 17:15	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	11/08/24 12:13	11/13/24 17:15	7440-47-3	
Cobalt	**0.042**	mg/L	0.0050	0.00032	1	11/08/24 12:13	11/13/24 17:15	7440-48-4	
Lead	**0.00019J**	mg/L	0.0010	0.00016	1	11/08/24 12:13	11/13/24 17:15	7439-92-1	
Lithium	**0.051**	mg/L	0.030	0.0016	1	11/08/24 12:13	11/13/24 17:15	7439-93-2	
Molybdenum	**0.0088J**	mg/L	0.010	0.00062	1	11/08/24 12:13	11/13/24 17:15	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	11/08/24 12:13	11/13/24 17:15	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	11/08/24 12:13	11/13/24 17:15	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	11/19/24 08:00	11/19/24 12:56	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**542**	mg/L	25.0	25.0	1		11/07/24 12:29		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**152**	mg/L	5.0	5.0	1		11/12/24 13:55		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		11/12/24 13:55		
Alkalinity, Total as CaCO3	**152**	mg/L	5.0	5.0	1		11/12/24 13:55		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		11/09/24 04:17	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**16.5**	mg/L	1.0	0.60	1		11/07/24 16:25	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92762188

Sample: HAM-PT-07 **Lab ID: 92762188001** Collected: 11/04/24 12:34 Received: 11/06/24 14:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.29**	mg/L	0.10	0.050	1		11/07/24 16:25	16984-48-8	
Sulfate	**194**	mg/L	4.0	2.0	4		11/08/24 01:54	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92762188

Sample: HAM-PT-08 **Lab ID: 92762188002** Collected: 11/04/24 12:14 Received: 11/06/24 14:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.63**	mg/L	0.040	0.025	1	11/08/24 12:32	11/08/24 19:44	7439-89-6	
Manganese	**1.4**	mg/L	0.040	0.011	1	11/08/24 12:32	11/08/24 19:44	7439-96-5	
Potassium	**5.7**	mg/L	0.50	0.15	1	11/08/24 12:32	11/08/24 19:44	7440-09-7	
Sodium	**8.2**	mg/L	1.0	0.58	1	11/08/24 12:32	11/08/24 19:44	7440-23-5	
Calcium	**105**	mg/L	1.0	0.12	1	11/08/24 12:32	11/08/24 19:44	7440-70-2	
Magnesium	**14.4**	mg/L	0.050	0.012	1	11/08/24 12:32	11/08/24 19:44	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	11/08/24 12:13	11/13/24 17:19	7440-36-0	
Arsenic	**0.027**	mg/L	0.0050	0.00084	1	11/08/24 12:13	11/13/24 17:19	7440-38-2	
Barium	**0.053**	mg/L	0.0050	0.00047	1	11/08/24 12:13	11/13/24 17:19	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	11/08/24 12:13	11/13/24 17:19	7440-41-7	
Boron	**0.70**	mg/L	0.040	0.012	1	11/08/24 12:13	11/13/24 17:19	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	11/08/24 12:13	11/13/24 17:19	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	11/08/24 12:13	11/13/24 17:19	7440-47-3	
Cobalt	**0.032**	mg/L	0.0050	0.00032	1	11/08/24 12:13	11/13/24 17:19	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	11/08/24 12:13	11/13/24 17:19	7439-92-1	
Lithium	**0.023J**	mg/L	0.030	0.0016	1	11/08/24 12:13	11/13/24 17:19	7439-93-2	
Molybdenum	**0.0097J**	mg/L	0.010	0.00062	1	11/08/24 12:13	11/13/24 17:19	7439-98-7	
Selenium	**0.0014J**	mg/L	0.0050	0.00096	1	11/08/24 12:13	11/13/24 17:19	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	11/08/24 12:13	11/13/24 17:19	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	11/19/24 08:00	11/19/24 12:59	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**474**	mg/L	25.0	25.0	1		11/07/24 12:30		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**98.7**	mg/L	5.0	5.0	1		11/12/24 14:05		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		11/12/24 14:05		
Alkalinity, Total as CaCO3	**98.7**	mg/L	5.0	5.0	1		11/12/24 14:05		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		11/09/24 04:19	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**15.6**	mg/L	1.0	0.60	1		11/07/24 16:40	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92762188

Sample: HAM-PT-08 **Lab ID: 92762188002** Collected: 11/04/24 12:14 Received: 11/06/24 14:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.15**	mg/L	0.10	0.050	1		11/07/24 16:40	16984-48-8	
Sulfate	**187**	mg/L	4.0	2.0	4		11/08/24 02:09	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92762188

Sample: HAM-PT-09 **Lab ID: 92762188003** Collected: 11/05/24 11:54 Received: 11/06/24 14:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.37**	mg/L	0.040	0.025	1	11/08/24 12:32	11/08/24 19:49	7439-89-6	
Manganese	**0.44**	mg/L	0.040	0.011	1	11/08/24 12:32	11/08/24 19:49	7439-96-5	
Potassium	**6.4**	mg/L	0.50	0.15	1	11/08/24 12:32	11/08/24 19:49	7440-09-7	
Sodium	**9.7**	mg/L	1.0	0.58	1	11/08/24 12:32	11/08/24 19:49	7440-23-5	
Calcium	**106**	mg/L	1.0	0.12	1	11/08/24 12:32	11/08/24 19:49	7440-70-2	
Magnesium	**25.0**	mg/L	0.050	0.012	1	11/08/24 12:32	11/08/24 19:49	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.00060J**	mg/L	0.0030	0.00054	1	11/08/24 12:13	11/13/24 17:35	7440-36-0	
Arsenic	**0.0028J**	mg/L	0.0050	0.00084	1	11/08/24 12:13	11/13/24 17:35	7440-38-2	B
Barium	**0.072**	mg/L	0.0050	0.00047	1	11/08/24 12:13	11/13/24 17:35	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	11/08/24 12:13	11/13/24 17:35	7440-41-7	
Boron	**1.6**	mg/L	0.040	0.012	1	11/08/24 12:13	11/13/24 17:35	7440-42-8	
Cadmium	**0.00023J**	mg/L	0.00050	0.00010	1	11/08/24 12:13	11/13/24 17:35	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	11/08/24 12:13	11/13/24 17:35	7440-47-3	
Cobalt	**0.0040J**	mg/L	0.0050	0.00032	1	11/08/24 12:13	11/13/24 17:35	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	11/08/24 12:13	11/13/24 17:35	7439-92-1	
Lithium	**0.0029J**	mg/L	0.030	0.0016	1	11/08/24 12:13	11/13/24 17:35	7439-93-2	
Molybdenum	**0.22**	mg/L	0.010	0.00062	1	11/08/24 12:13	11/13/24 17:35	7439-98-7	
Selenium	**0.00099J**	mg/L	0.0050	0.00096	1	11/08/24 12:13	11/13/24 17:35	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	11/08/24 12:13	11/13/24 17:35	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	11/19/24 08:00	11/19/24 13:10	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**563**	mg/L	25.0	25.0	1		11/07/24 12:32		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**122**	mg/L	5.0	5.0	1		11/12/24 18:00		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		11/12/24 18:00		
Alkalinity, Total as CaCO3	**122**	mg/L	5.0	5.0	1		11/12/24 18:00		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		11/09/24 04:21	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**48.3**	mg/L	1.0	0.60	1		11/07/24 17:26	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92762188

Sample: HAM-PT-09 **Lab ID: 92762188003** Collected: 11/05/24 11:54 Received: 11/06/24 14:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.37**	mg/L	0.10	0.050	1		11/07/24 17:26	16984-48-8	
Sulfate	**165**	mg/L	4.0	2.0	4		11/08/24 02:54	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92762188

Sample: HAM-PT-10 **Lab ID: 92762188004** Collected: 11/05/24 09:29 Received: 11/06/24 14:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.033J**	mg/L	0.040	0.025	1	11/08/24 12:32	11/08/24 19:54	7439-89-6	
Manganese	**0.40**	mg/L	0.040	0.011	1	11/08/24 12:32	11/08/24 19:54	7439-96-5	
Potassium	**6.9**	mg/L	0.50	0.15	1	11/08/24 12:32	11/08/24 19:54	7440-09-7	
Sodium	**9.2**	mg/L	1.0	0.58	1	11/08/24 12:32	11/08/24 19:54	7440-23-5	
Calcium	**107**	mg/L	1.0	0.12	1	11/08/24 12:32	11/08/24 19:54	7440-70-2	
Magnesium	**13.9**	mg/L	0.050	0.012	1	11/08/24 12:32	11/08/24 19:54	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	11/08/24 12:13	11/13/24 17:39	7440-36-0	
Arsenic	**0.0021J**	mg/L	0.0050	0.00084	1	11/08/24 12:13	11/13/24 17:39	7440-38-2	B
Barium	**0.050**	mg/L	0.0050	0.00047	1	11/08/24 12:13	11/13/24 17:39	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	11/08/24 12:13	11/13/24 17:39	7440-41-7	
Boron	**1.7**	mg/L	0.040	0.012	1	11/08/24 12:13	11/13/24 17:39	7440-42-8	
Cadmium	**0.00013J**	mg/L	0.00050	0.00010	1	11/08/24 12:13	11/13/24 17:39	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	11/08/24 12:13	11/13/24 17:39	7440-47-3	
Cobalt	**0.0014J**	mg/L	0.0050	0.00032	1	11/08/24 12:13	11/13/24 17:39	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	11/08/24 12:13	11/13/24 17:39	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	11/08/24 12:13	11/13/24 17:39	7439-93-2	
Molybdenum	**0.21**	mg/L	0.010	0.00062	1	11/08/24 12:13	11/13/24 17:39	7439-98-7	
Selenium	**0.0011J**	mg/L	0.0050	0.00096	1	11/08/24 12:13	11/13/24 17:39	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	11/08/24 12:13	11/13/24 17:39	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	11/19/24 08:00	11/19/24 13:12	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**527**	mg/L	25.0	25.0	1		11/07/24 12:32		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**132**	mg/L	5.0	5.0	1		11/12/24 18:08		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		11/12/24 18:08		
Alkalinity, Total as CaCO3	**132**	mg/L	5.0	5.0	1		11/12/24 18:08		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		11/09/24 04:22	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**45.1**	mg/L	1.0	0.60	1		11/07/24 17:42	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92762188

Sample: HAM-PT-10 **Lab ID: 92762188004** Collected: 11/05/24 09:29 Received: 11/06/24 14:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.27**	mg/L	0.10	0.050	1		11/07/24 17:42	16984-48-8	
Sulfate	**129**	mg/L	3.0	1.5	3		11/08/24 03:09	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92762188

Sample: HAM-PT-11 **Lab ID: 92762188005** Collected: 11/05/24 09:25 Received: 11/06/24 14:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.19**	mg/L	0.040	0.025	1	11/08/24 12:32	11/08/24 19:58	7439-89-6	
Manganese	**0.66**	mg/L	0.040	0.011	1	11/08/24 12:32	11/08/24 19:58	7439-96-5	
Potassium	**6.3**	mg/L	0.50	0.15	1	11/08/24 12:32	11/08/24 19:58	7440-09-7	
Sodium	**9.1**	mg/L	1.0	0.58	1	11/08/24 12:32	11/08/24 19:58	7440-23-5	
Calcium	**112**	mg/L	1.0	0.12	1	11/08/24 12:32	11/08/24 19:58	7440-70-2	
Magnesium	**19.1**	mg/L	0.050	0.012	1	11/08/24 12:32	11/08/24 19:58	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	11/08/24 12:13	11/13/24 17:43	7440-36-0	
Arsenic	**0.0030J**	mg/L	0.0050	0.00084	1	11/08/24 12:13	11/13/24 17:43	7440-38-2	B
Barium	**0.074**	mg/L	0.0050	0.00047	1	11/08/24 12:13	11/13/24 17:43	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	11/08/24 12:13	11/13/24 17:43	7440-41-7	
Boron	**1.6**	mg/L	0.040	0.012	1	11/08/24 12:13	11/13/24 17:43	7440-42-8	
Cadmium	**0.00018J**	mg/L	0.00050	0.00010	1	11/08/24 12:13	11/13/24 17:43	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	11/08/24 12:13	11/13/24 17:43	7440-47-3	
Cobalt	**0.0079**	mg/L	0.0050	0.00032	1	11/08/24 12:13	11/13/24 17:43	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	11/08/24 12:13	11/13/24 17:43	7439-92-1	
Lithium	**0.0046J**	mg/L	0.030	0.0016	1	11/08/24 12:13	11/13/24 17:43	7439-93-2	
Molybdenum	**0.11**	mg/L	0.010	0.00062	1	11/08/24 12:13	11/13/24 17:43	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	11/08/24 12:13	11/13/24 17:43	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	11/08/24 12:13	11/13/24 17:43	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	11/19/24 08:00	11/19/24 13:15	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**563**	mg/L	25.0	25.0	1		11/07/24 12:33		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**128**	mg/L	5.0	5.0	1		11/12/24 18:17		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		11/12/24 18:17		
Alkalinity, Total as CaCO3	**128**	mg/L	5.0	5.0	1		11/12/24 18:17		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		11/09/24 04:22	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**46.9**	mg/L	1.0	0.60	1		11/07/24 17:57	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92762188

Sample: HAM-PT-11 **Lab ID: 92762188005** Collected: 11/05/24 09:25 Received: 11/06/24 14:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.31**	mg/L	0.10	0.050	1		11/07/24 17:57	16984-48-8	
Sulfate	**156**	mg/L	4.0	2.0	4		11/08/24 03:25	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92762188

Sample: HAM-PT-12 **Lab ID: 92762188006** Collected: 11/05/24 11:44 Received: 11/06/24 14:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.14**	mg/L	0.040	0.025	1	11/08/24 12:32	11/08/24 20:13	7439-89-6	
Manganese	**1.4**	mg/L	0.040	0.011	1	11/08/24 12:32	11/08/24 20:13	7439-96-5	
Potassium	**5.4**	mg/L	0.50	0.15	1	11/08/24 12:32	11/08/24 20:13	7440-09-7	
Sodium	**7.6**	mg/L	1.0	0.58	1	11/08/24 12:32	11/08/24 20:13	7440-23-5	
Calcium	**98.0**	mg/L	1.0	0.12	1	11/08/24 12:32	11/08/24 20:13	7440-70-2	
Magnesium	**31.4**	mg/L	0.050	0.012	1	11/08/24 12:32	11/08/24 20:13	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	11/08/24 12:13	11/13/24 18:12	7440-36-0	
Arsenic	**0.0046J**	mg/L	0.0050	0.00084	1	11/08/24 12:13	11/13/24 18:12	7440-38-2	B
Barium	**0.074**	mg/L	0.0050	0.00047	1	11/08/24 12:13	11/13/24 18:12	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	11/08/24 12:13	11/13/24 18:12	7440-41-7	
Boron	**1.1**	mg/L	0.040	0.012	1	11/08/24 12:13	11/13/24 18:12	7440-42-8	
Cadmium	**0.00037J**	mg/L	0.00050	0.00010	1	11/08/24 12:13	11/13/24 18:12	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	11/08/24 12:13	11/13/24 18:12	7440-47-3	
Cobalt	**0.0053**	mg/L	0.0050	0.00032	1	11/08/24 12:13	11/13/24 18:12	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	11/08/24 12:13	11/13/24 18:12	7439-92-1	
Lithium	**0.0037J**	mg/L	0.030	0.0016	1	11/08/24 12:13	11/13/24 18:12	7439-93-2	
Molybdenum	**0.12**	mg/L	0.010	0.00062	1	11/08/24 12:13	11/13/24 18:12	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	11/08/24 12:13	11/13/24 18:12	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	11/08/24 12:13	11/13/24 18:12	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	11/19/24 08:00	11/19/24 13:23	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**549**	mg/L	25.0	25.0	1		11/12/24 15:09		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**107**	mg/L	5.0	5.0	1		11/12/24 18:25		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		11/12/24 18:25		
Alkalinity, Total as CaCO3	**107**	mg/L	5.0	5.0	1		11/12/24 18:25		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		11/09/24 04:22	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**32.2**	mg/L	1.0	0.60	1		11/07/24 18:59	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92762188

Sample: HAM-PT-12 **Lab ID: 92762188006** Collected: 11/05/24 11:44 Received: 11/06/24 14:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.26**	mg/L	0.10	0.050	1		11/07/24 18:59	16984-48-8	
Sulfate	**204**	mg/L	5.0	2.5	5		11/08/24 03:40	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92762188

Sample: HAM-PT-13 **Lab ID: 92762188007** Collected: 11/04/24 11:05 Received: 11/06/24 14:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**8.6**	mg/L	0.040	0.025	1	11/08/24 12:32	11/08/24 20:18	7439-89-6	
Manganese	**2.9**	mg/L	0.040	0.011	1	11/08/24 12:32	11/08/24 20:18	7439-96-5	
Potassium	**5.9**	mg/L	0.50	0.15	1	11/08/24 12:32	11/08/24 20:18	7440-09-7	
Sodium	**11.3**	mg/L	1.0	0.58	1	11/08/24 12:32	11/08/24 20:18	7440-23-5	
Calcium	**119**	mg/L	1.0	0.12	1	11/08/24 12:32	11/08/24 20:18	7440-70-2	
Magnesium	**16.9**	mg/L	0.050	0.012	1	11/08/24 12:32	11/08/24 20:18	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	11/08/24 12:13	11/13/24 18:16	7440-36-0	
Arsenic	**0.14**	mg/L	0.0050	0.00084	1	11/08/24 12:13	11/13/24 18:16	7440-38-2	
Barium	**0.050**	mg/L	0.0050	0.00047	1	11/08/24 12:13	11/13/24 18:16	7440-39-3	
Beryllium	**0.00011J**	mg/L	0.00050	0.000094	1	11/08/24 12:13	11/13/24 18:16	7440-41-7	
Boron	**0.65**	mg/L	0.040	0.012	1	11/08/24 12:13	11/13/24 18:16	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	11/08/24 12:13	11/13/24 18:16	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	11/08/24 12:13	11/13/24 18:16	7440-47-3	
Cobalt	**0.024**	mg/L	0.0050	0.00032	1	11/08/24 12:13	11/13/24 18:16	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	11/08/24 12:13	11/13/24 18:16	7439-92-1	
Lithium	**0.058**	mg/L	0.030	0.0016	1	11/08/24 12:13	11/13/24 18:16	7439-93-2	
Molybdenum	**0.0072J**	mg/L	0.010	0.00062	1	11/08/24 12:13	11/13/24 18:16	7439-98-7	
Selenium	**0.0011J**	mg/L	0.0050	0.00096	1	11/08/24 12:13	11/13/24 18:16	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	11/08/24 12:13	11/13/24 18:16	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	11/19/24 08:00	11/19/24 13:25	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**550**	mg/L	25.0	25.0	1		11/07/24 12:31		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**147**	mg/L	5.0	5.0	1		11/12/24 14:13		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		11/12/24 14:13		
Alkalinity, Total as CaCO3	**147**	mg/L	5.0	5.0	1		11/12/24 14:13		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		11/09/24 04:20	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**18.5**	mg/L	1.0	0.60	1		11/07/24 19:14	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92762188

Sample: HAM-PT-13 **Lab ID: 92762188007** Collected: 11/04/24 11:05 Received: 11/06/24 14:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.32**	mg/L	0.10	0.050	1		11/07/24 19:14	16984-48-8	
Sulfate	**199**	mg/L	4.0	2.0	4		11/08/24 04:41	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92762188

Sample: HAM-PT-14 **Lab ID: 92762188008** Collected: 11/04/24 14:50 Received: 11/06/24 14:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**13.5**	mg/L	0.040	0.025	1	11/08/24 12:32	11/08/24 20:23	7439-89-6	
Manganese	**2.8**	mg/L	0.040	0.011	1	11/08/24 12:32	11/08/24 20:23	7439-96-5	
Potassium	**5.8**	mg/L	0.50	0.15	1	11/08/24 12:32	11/08/24 20:23	7440-09-7	
Sodium	**8.7**	mg/L	1.0	0.58	1	11/08/24 12:32	11/08/24 20:23	7440-23-5	
Calcium	**123**	mg/L	1.0	0.12	1	11/08/24 12:32	11/08/24 20:23	7440-70-2	
Magnesium	**17.6**	mg/L	0.050	0.012	1	11/08/24 12:32	11/08/24 20:23	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	11/08/24 12:13	11/13/24 18:20	7440-36-0	
Arsenic	**0.26**	mg/L	0.0050	0.00084	1	11/08/24 12:13	11/13/24 18:20	7440-38-2	
Barium	**0.045**	mg/L	0.0050	0.00047	1	11/08/24 12:13	11/13/24 18:20	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	11/08/24 12:13	11/13/24 18:20	7440-41-7	
Boron	**0.66**	mg/L	0.040	0.012	1	11/08/24 12:13	11/13/24 18:20	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	11/08/24 12:13	11/13/24 18:20	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	11/08/24 12:13	11/13/24 18:20	7440-47-3	
Cobalt	**0.023**	mg/L	0.0050	0.00032	1	11/08/24 12:13	11/13/24 18:20	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	11/08/24 12:13	11/13/24 18:20	7439-92-1	
Lithium	**0.051**	mg/L	0.030	0.0016	1	11/08/24 12:13	11/13/24 18:20	7439-93-2	
Molybdenum	**0.016**	mg/L	0.010	0.00062	1	11/08/24 12:13	11/13/24 18:20	7439-98-7	
Selenium	**0.0012J**	mg/L	0.0050	0.00096	1	11/08/24 12:13	11/13/24 18:20	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	11/08/24 12:13	11/13/24 18:20	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	11/19/24 08:00	11/19/24 13:28	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**628**	mg/L	25.0	25.0	1		11/07/24 12:31		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**148**	mg/L	5.0	5.0	1		11/12/24 14:31		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		11/12/24 14:31		
Alkalinity, Total as CaCO3	**148**	mg/L	5.0	5.0	1		11/12/24 14:31		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		11/09/24 04:20	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**15.2**	mg/L	1.0	0.60	1		11/07/24 19:30	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92762188

Sample: HAM-PT-14 **Lab ID: 92762188008** Collected: 11/04/24 14:50 Received: 11/06/24 14:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.25**	mg/L	0.10	0.050	1		11/07/24 19:30	16984-48-8	
Sulfate	**196**	mg/L	4.0	2.0	4		11/08/24 04:56	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92762188

Sample: HAM-PT-15 **Lab ID: 92762188009** Collected: 11/04/24 14:01 Received: 11/06/24 14:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**1.1**	mg/L	0.040	0.025	1	11/08/24 12:32	11/08/24 20:28	7439-89-6	
Manganese	**2.9**	mg/L	0.040	0.011	1	11/08/24 12:32	11/08/24 20:28	7439-96-5	
Potassium	**5.3**	mg/L	0.50	0.15	1	11/08/24 12:32	11/08/24 20:28	7440-09-7	
Sodium	**8.8**	mg/L	1.0	0.58	1	11/08/24 12:32	11/08/24 20:28	7440-23-5	
Calcium	**119**	mg/L	1.0	0.12	1	11/08/24 12:32	11/08/24 20:28	7440-70-2	
Magnesium	**14.2**	mg/L	0.050	0.012	1	11/08/24 12:32	11/08/24 20:28	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	11/08/24 12:13	11/13/24 18:24	7440-36-0	
Arsenic	**0.040**	mg/L	0.0050	0.00084	1	11/08/24 12:13	11/13/24 18:24	7440-38-2	
Barium	**0.051**	mg/L	0.0050	0.00047	1	11/08/24 12:13	11/13/24 18:24	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	11/08/24 12:13	11/13/24 18:24	7440-41-7	
Boron	**0.74**	mg/L	0.040	0.012	1	11/08/24 12:13	11/13/24 18:24	7440-42-8	
Cadmium	**0.00034J**	mg/L	0.00050	0.00010	1	11/08/24 12:13	11/13/24 18:24	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	11/08/24 12:13	11/13/24 18:24	7440-47-3	
Cobalt	**0.019**	mg/L	0.0050	0.00032	1	11/08/24 12:13	11/13/24 18:24	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	11/08/24 12:13	11/13/24 18:24	7439-92-1	
Lithium	**0.046**	mg/L	0.030	0.0016	1	11/08/24 12:13	11/13/24 18:24	7439-93-2	
Molybdenum	**0.012**	mg/L	0.010	0.00062	1	11/08/24 12:13	11/13/24 18:24	7439-98-7	
Selenium	**0.0020J**	mg/L	0.0050	0.00096	1	11/08/24 12:13	11/13/24 18:24	7782-49-2	
Thallium	**0.00041J**	mg/L	0.0010	0.00038	1	11/08/24 12:13	11/13/24 18:24	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	11/19/24 08:00	11/19/24 13:31	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**543**	mg/L	25.0	25.0	1		11/07/24 12:31		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**140**	mg/L	5.0	5.0	1		11/12/24 14:41		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		11/12/24 14:41		
Alkalinity, Total as CaCO3	**140**	mg/L	5.0	5.0	1		11/12/24 14:41		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		11/09/24 04:20	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**16.0**	mg/L	1.0	0.60	1		11/07/24 19:45	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92762188

Sample: HAM-PT-15 **Lab ID: 92762188009** Collected: 11/04/24 14:01 Received: 11/06/24 14:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.28**	mg/L	0.10	0.050	1		11/07/24 19:45	16984-48-8	
Sulfate	**194**	mg/L	4.0	2.0	4		11/08/24 05:12	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92762188

Sample: HAM-AP1-EB-01 **Lab ID: 92762188010** Collected: 11/05/24 12:36 Received: 11/06/24 14:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	11/08/24 12:32	11/08/24 20:32	7439-89-6	
Manganese	ND	mg/L	0.040	0.011	1	11/08/24 12:32	11/08/24 20:32	7439-96-5	
Potassium	ND	mg/L	0.50	0.15	1	11/08/24 12:32	11/08/24 20:32	7440-09-7	
Sodium	ND	mg/L	1.0	0.58	1	11/08/24 12:32	11/08/24 20:32	7440-23-5	
Calcium	ND	mg/L	1.0	0.12	1	11/08/24 12:32	11/08/24 20:32	7440-70-2	
Magnesium	**0.019J**	mg/L	0.050	0.012	1	11/08/24 12:32	11/08/24 20:32	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	11/08/24 12:13	11/13/24 18:33	7440-36-0	
Arsenic	**0.0021J**	mg/L	0.0050	0.00084	1	11/08/24 12:13	11/13/24 18:33	7440-38-2	B
Barium	ND	mg/L	0.0050	0.00047	1	11/08/24 12:13	11/13/24 18:33	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	11/08/24 12:13	11/13/24 18:33	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	11/08/24 12:13	11/13/24 18:33	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	11/08/24 12:13	11/13/24 18:33	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	11/08/24 12:13	11/13/24 18:33	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	11/08/24 12:13	11/13/24 18:33	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	11/08/24 12:13	11/13/24 18:33	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	11/08/24 12:13	11/13/24 18:33	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	11/08/24 12:13	11/13/24 18:33	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	11/08/24 12:13	11/13/24 18:33	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	11/08/24 12:13	11/13/24 18:33	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	11/19/24 08:00	11/19/24 13:38	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**57.0**	mg/L	25.0	25.0	1		11/07/24 12:33		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		11/12/24 18:33		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		11/12/24 18:33		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		11/12/24 18:33		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		11/09/24 04:23	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		11/07/24 20:01	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92762188

Sample: HAM-AP1-EB-01 **Lab ID: 92762188010** Collected: 11/05/24 12:36 Received: 11/06/24 14:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	ND	mg/L	0.10	0.050	1		11/07/24 20:01	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		11/07/24 20:01	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92762188

Sample: HAM-AP1-FB-01 **Lab ID: 92762188011** Collected: 11/05/24 12:32 Received: 11/06/24 14:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	11/08/24 12:32	11/08/24 20:37	7439-89-6	
Manganese	ND	mg/L	0.040	0.011	1	11/08/24 12:32	11/08/24 20:37	7439-96-5	
Potassium	ND	mg/L	0.50	0.15	1	11/08/24 12:32	11/08/24 20:37	7440-09-7	
Sodium	**0.74J**	mg/L	1.0	0.58	1	11/08/24 12:32	11/08/24 20:37	7440-23-5	
Calcium	**0.40J**	mg/L	1.0	0.12	1	11/08/24 12:32	11/08/24 20:37	7440-70-2	
Magnesium	**0.10**	mg/L	0.050	0.012	1	11/08/24 12:32	11/08/24 20:37	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	11/08/24 12:13	11/13/24 18:37	7440-36-0	
Arsenic	**0.0017J**	mg/L	0.0050	0.00084	1	11/08/24 12:13	11/13/24 18:37	7440-38-2	B
Barium	**0.0022J**	mg/L	0.0050	0.00047	1	11/08/24 12:13	11/13/24 18:37	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	11/08/24 12:13	11/13/24 18:37	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	11/08/24 12:13	11/13/24 18:37	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	11/08/24 12:13	11/13/24 18:37	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	11/08/24 12:13	11/13/24 18:37	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	11/08/24 12:13	11/13/24 18:37	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	11/08/24 12:13	11/13/24 18:37	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	11/08/24 12:13	11/13/24 18:37	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	11/08/24 12:13	11/13/24 18:37	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	11/08/24 12:13	11/13/24 18:37	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	11/08/24 12:13	11/13/24 18:37	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	11/19/24 08:00	11/19/24 13:41	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		11/07/24 12:33		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		11/14/24 18:36		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		11/14/24 18:36		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		11/14/24 18:36		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		11/09/24 04:23	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		11/07/24 20:16	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92762188

Sample: HAM-AP1-FB-01 **Lab ID: 92762188011** Collected: 11/05/24 12:32 Received: 11/06/24 14:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	ND	mg/L	0.10	0.050	1		11/07/24 20:16	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		11/07/24 20:16	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92762188

Sample: HAM-AP1-FD-01 **Lab ID: 92762188012** Collected: 11/04/24 00:00 Received: 11/06/24 14:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.66**	mg/L	0.040	0.025	1	11/08/24 12:32	11/08/24 20:42	7439-89-6	
Manganese	**1.5**	mg/L	0.040	0.011	1	11/08/24 12:32	11/08/24 20:42	7439-96-5	
Potassium	**5.6**	mg/L	0.50	0.15	1	11/08/24 12:32	11/08/24 20:42	7440-09-7	
Sodium	**8.2**	mg/L	1.0	0.58	1	11/08/24 12:32	11/08/24 20:42	7440-23-5	
Calcium	**106**	mg/L	1.0	0.12	1	11/08/24 12:32	11/08/24 20:42	7440-70-2	
Magnesium	**14.5**	mg/L	0.050	0.012	1	11/08/24 12:32	11/08/24 20:42	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	11/08/24 12:13	11/13/24 18:41	7440-36-0	
Arsenic	**0.028**	mg/L	0.0050	0.00084	1	11/08/24 12:13	11/13/24 18:41	7440-38-2	
Barium	**0.054**	mg/L	0.0050	0.00047	1	11/08/24 12:13	11/13/24 18:41	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	11/08/24 12:13	11/13/24 18:41	7440-41-7	
Boron	**0.70**	mg/L	0.040	0.012	1	11/08/24 12:13	11/13/24 18:41	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	11/08/24 12:13	11/13/24 18:41	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	11/08/24 12:13	11/13/24 18:41	7440-47-3	
Cobalt	**0.033**	mg/L	0.0050	0.00032	1	11/08/24 12:13	11/13/24 18:41	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	11/08/24 12:13	11/13/24 18:41	7439-92-1	
Lithium	**0.025J**	mg/L	0.030	0.0016	1	11/08/24 12:13	11/13/24 18:41	7439-93-2	
Molybdenum	**0.010**	mg/L	0.010	0.00062	1	11/08/24 12:13	11/13/24 18:41	7439-98-7	
Selenium	**0.0014J**	mg/L	0.0050	0.00096	1	11/08/24 12:13	11/13/24 18:41	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	11/08/24 12:13	11/13/24 18:41	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	11/19/24 08:00	11/19/24 13:43	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**497**	mg/L	25.0	25.0	1		11/07/24 12:34		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**102**	mg/L	5.0	5.0	1		11/14/24 18:40		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		11/14/24 18:40		
Alkalinity, Total as CaCO3	**102**	mg/L	5.0	5.0	1		11/14/24 18:40		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		11/09/24 04:23	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**15.8**	mg/L	1.0	0.60	1		11/07/24 21:02	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92762188

Sample: HAM-AP1-FD-01 **Lab ID: 92762188012** Collected: 11/04/24 00:00 Received: 11/06/24 14:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.16**	mg/L	0.10	0.050	1		11/07/24 21:02	16984-48-8	
Sulfate	**190**	mg/L	4.0	2.0	4		11/08/24 05:27	14808-79-8	M1

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92762188

QC Batch: 894321
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92762188001, 92762188002, 92762188003, 92762188004, 92762188005, 92762188006, 92762188007, 92762188008, 92762188009, 92762188010, 92762188011, 92762188012

METHOD BLANK: 4604089 Matrix: Water
Associated Lab Samples: 92762188001, 92762188002, 92762188003, 92762188004, 92762188005, 92762188006, 92762188007, 92762188008, 92762188009, 92762188010, 92762188011, 92762188012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	11/08/24 19:14	
Iron	mg/L	ND	0.040	0.025	11/08/24 19:14	
Magnesium	mg/L	ND	0.050	0.012	11/08/24 19:14	
Manganese	mg/L	ND	0.040	0.011	11/08/24 19:14	
Potassium	mg/L	ND	0.50	0.15	11/08/24 19:14	
Sodium	mg/L	ND	1.0	0.58	11/08/24 19:14	

LABORATORY CONTROL SAMPLE: 4604090

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	0.98J	98	80-120	
Iron	mg/L	1	1.0	103	80-120	
Magnesium	mg/L	1	1.0	103	80-120	
Manganese	mg/L	1	0.97	97	80-120	
Potassium	mg/L	1	0.98	98	80-120	
Sodium	mg/L	1	1.0	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4604091 4604092

Parameter	Units	92762188001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	121	1	1	123	122	206	36	75-125	1	20	M1
Iron	mg/L	6.6	1	1	7.8	7.6	120	96	75-125	3	20	
Magnesium	mg/L	17.9	1	1	19.2	18.9	133	101	75-125	2	20	M1
Manganese	mg/L	3.1	1	1	4.1	4.0	92	84	75-125	2	20	
Potassium	mg/L	5.9	1	1	7.0	6.9	113	100	75-125	2	20	
Sodium	mg/L	9.8	1	1	11.1	10.9	132	112	75-125	2	20	M1

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92762188

QC Batch: 894324
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92762188001, 92762188002, 92762188003, 92762188004, 92762188005, 92762188006, 92762188007, 92762188008, 92762188009, 92762188010, 92762188011, 92762188012

METHOD BLANK: 4604104 Matrix: Water
Associated Lab Samples: 92762188001, 92762188002, 92762188003, 92762188004, 92762188005, 92762188006, 92762188007, 92762188008, 92762188009, 92762188010, 92762188011, 92762188012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00054	11/13/24 17:06	
Arsenic	mg/L	0.0016J	0.0050	0.00084	11/13/24 17:06	
Barium	mg/L	ND	0.0050	0.00047	11/13/24 17:06	
Beryllium	mg/L	ND	0.00050	0.000094	11/13/24 17:06	
Boron	mg/L	ND	0.040	0.012	11/13/24 17:06	
Cadmium	mg/L	ND	0.00050	0.00010	11/13/24 17:06	
Chromium	mg/L	ND	0.0050	0.0019	11/13/24 17:06	
Cobalt	mg/L	ND	0.0050	0.00032	11/13/24 17:06	
Lead	mg/L	ND	0.0010	0.00016	11/13/24 17:06	
Lithium	mg/L	ND	0.030	0.0016	11/13/24 17:06	
Molybdenum	mg/L	ND	0.010	0.00062	11/13/24 17:06	
Selenium	mg/L	ND	0.0050	0.00096	11/13/24 17:06	
Thallium	mg/L	ND	0.0010	0.00038	11/13/24 17:06	

LABORATORY CONTROL SAMPLE: 4604105

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.10	100	80-120	
Arsenic	mg/L	0.1	0.099	99	80-120	
Barium	mg/L	0.1	0.097	97	80-120	
Beryllium	mg/L	0.1	0.099	99	80-120	
Boron	mg/L	1	1.0	100	80-120	
Cadmium	mg/L	0.1	0.099	99	80-120	
Chromium	mg/L	0.1	0.097	97	80-120	
Cobalt	mg/L	0.1	0.098	98	80-120	
Lead	mg/L	0.1	0.10	101	80-120	
Lithium	mg/L	0.1	0.10	100	80-120	
Molybdenum	mg/L	0.1	0.10	102	80-120	
Selenium	mg/L	0.1	0.099	99	80-120	
Thallium	mg/L	0.1	0.099	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4604106 4604107

Parameter	Units	92762188002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.11	0.10	107	103	75-125	3	20	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92762188

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4604106 4604107

Parameter	Units	92762188002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	0.027	0.1	0.1	0.13	0.13	101	98	75-125	2	20	
Barium	mg/L	0.053	0.1	0.1	0.17	0.16	114	109	75-125	3	20	
Beryllium	mg/L	ND	0.1	0.1	0.10	0.10	100	99	75-125	0	20	
Boron	mg/L	0.70	1	1	1.8	1.7	105	103	75-125	1	20	
Cadmium	mg/L	ND	0.1	0.1	0.10	0.099	101	99	75-125	3	20	
Chromium	mg/L	ND	0.1	0.1	0.096	0.094	96	94	75-125	2	20	
Cobalt	mg/L	0.032	0.1	0.1	0.13	0.13	95	95	75-125	0	20	
Lead	mg/L	ND	0.1	0.1	0.096	0.095	96	95	75-125	1	20	
Lithium	mg/L	0.023J	0.1	0.1	0.13	0.12	102	101	75-125	1	20	
Molybdenum	mg/L	0.0097J	0.1	0.1	0.12	0.11	106	102	75-125	3	20	
Selenium	mg/L	0.0014J	0.1	0.1	0.10	0.099	101	98	75-125	3	20	
Thallium	mg/L	ND	0.1	0.1	0.096	0.094	95	94	75-125	2	20	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92762188

QC Batch: 896849 — Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A — Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92762188001, 92762188002, 92762188003, 92762188004, 92762188005, 92762188006, 92762188007, 92762188008, 92762188009, 92762188010, 92762188011, 92762188012

METHOD BLANK: 4616941 — Matrix: Water
Associated Lab Samples: 92762188001, 92762188002, 92762188003, 92762188004, 92762188005, 92762188006, 92762188007, 92762188008, 92762188009, 92762188010, 92762188011, 92762188012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	11/19/24 12:51	

LABORATORY CONTROL SAMPLE: 4616942

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0025	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4616943 4616944

Parameter	Units	92762188002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0026	0.0025	103	100	75-125	3	20	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92762188

QC Batch: 894298 — Analysis Method: SM 2540C-2015
QC Batch Method: SM 2540C-2015 — Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92762188001, 92762188002, 92762188003, 92762188004, 92762188005, 92762188007, 92762188008, 92762188009, 92762188010, 92762188011, 92762188012

METHOD BLANK: 4603995 — Matrix: Water
Associated Lab Samples: 92762188001, 92762188002, 92762188003, 92762188004, 92762188005, 92762188007, 92762188008, 92762188009, 92762188010, 92762188011, 92762188012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	11/07/24 12:28	

LABORATORY CONTROL SAMPLE: 4603996

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	407	102	80-120	

SAMPLE DUPLICATE: 4603997

Parameter	Units	92762188001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	542	568	5	10	

SAMPLE DUPLICATE: 4603998

Parameter	Units	92762188011 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	ND	ND		10	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92762188

QC Batch: 895288
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92762188006

METHOD BLANK: 4608785 Matrix: Water
Associated Lab Samples: 92762188006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	11/12/24 13:42	

LABORATORY CONTROL SAMPLE: 4608786

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	418	104	80-120	

SAMPLE DUPLICATE: 4608787

Parameter	Units	92762733002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1360	1350	1	10	

SAMPLE DUPLICATE: 4608788

Parameter	Units	92762733009 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	362	379	5	10	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92762188

QC Batch: 895260
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92762188001, 92762188002, 92762188007, 92762188008, 92762188009

METHOD BLANK: 4608680 Matrix: Water
Associated Lab Samples: 92762188001, 92762188002, 92762188007, 92762188008, 92762188009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	11/14/24 14:11	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	11/14/24 14:11	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	11/14/24 14:11	

LABORATORY CONTROL SAMPLE: 4608681

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	49.5	99	80-120	

LABORATORY CONTROL SAMPLE: 4608682

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.0	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4608683 4608684

Parameter	Units	92762323004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	293	50	50	339	341	91	95	80-120	1	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4608685 4608686

Parameter	Units	92762323005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	27.7	50	50	73.5	71.9	92	88	80-120	2	25	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92762188

QC Batch: 895261
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92762188003, 92762188004, 92762188005, 92762188006, 92762188010

METHOD BLANK: 4608687 Matrix: Water
Associated Lab Samples: 92762188003, 92762188004, 92762188005, 92762188006, 92762188010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	11/12/24 15:34	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	11/12/24 15:34	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	11/12/24 15:34	

LABORATORY CONTROL SAMPLE: 4608688

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.3	101	80-120	

LABORATORY CONTROL SAMPLE: 4608689

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	48.9	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4608690 4608691

Parameter	Units	92762023002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	8.9	50	50	60.8	60.7	104	103	80-120	0	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4608692 4608693

Parameter	Units	92762023003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	109	50	50	159	161	102	104	80-120	1	25	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92762188

QC Batch: 895967
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92762188011, 92762188012

METHOD BLANK: 4611978 Matrix: Water
Associated Lab Samples: 92762188011, 92762188012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	11/14/24 18:11	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	11/14/24 18:11	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	11/14/24 18:11	

LABORATORY CONTROL SAMPLE: 4611979

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	49.5	99	80-120	

LABORATORY CONTROL SAMPLE: 4611980

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	49.8	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4611981 4611982

Parameter	Units	92762616004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	24.3	50	50	74.3	74.0	100	99	80-120	0	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4611983 4611984

Parameter	Units	92762616005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	24.2	50	50	73.6	74.2	99	100	80-120	1	25	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92762188

QC Batch: 894848
QC Batch Method: SM 4500-S2D-2011
Analysis Method: SM 4500-S2D-2011
Analysis Description: 4500S2D Sulfide Water
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92762188001, 92762188002, 92762188003, 92762188004, 92762188005, 92762188006, 92762188007, 92762188008, 92762188009, 92762188010, 92762188011, 92762188012

METHOD BLANK: 4607175 Matrix: Water
Associated Lab Samples: 92762188001, 92762188002, 92762188003, 92762188004, 92762188005, 92762188006, 92762188007, 92762188008, 92762188009, 92762188010, 92762188011, 92762188012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	0.022	11/09/24 04:16	

LABORATORY CONTROL SAMPLE: 4607176

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	0.52	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4607177 4607178

Parameter	Units	92762188001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.54	0.57	106	113	80-120	6	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4607179 4607180

Parameter	Units	92762188012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.51	0.53	101	106	80-120	5	10	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92762188

QC Batch: 894254
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92762188001, 92762188002, 92762188003, 92762188004, 92762188005, 92762188006, 92762188007, 92762188008, 92762188009, 92762188010, 92762188011

METHOD BLANK: 4603880 Matrix: Water
Associated Lab Samples: 92762188001, 92762188002, 92762188003, 92762188004, 92762188005, 92762188006, 92762188007, 92762188008, 92762188009, 92762188010, 92762188011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	11/07/24 12:33	
Fluoride	mg/L	ND	0.10	0.050	11/07/24 12:33	
Sulfate	mg/L	ND	1.0	0.50	11/07/24 12:33	

LABORATORY CONTROL SAMPLE: 4603881

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.8	100	90-110	
Fluoride	mg/L	2.5	2.7	107	90-110	
Sulfate	mg/L	50	51.2	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4603882 4603883

Parameter	Units	92762268002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	55.6	50	50	94.6	96.5	78	82	90-110	2	10	M1
Fluoride	mg/L	0.21	2.5	2.5	3.1	3.4	114	127	90-110	11	10	M1,R1
Sulfate	mg/L	125	50	50	173	176	97	102	90-110	2	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4603884 4603885

Parameter	Units	92762188002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	15.6	50	50	65.3	65.9	99	101	90-110	1	10	
Fluoride	mg/L	0.15	2.5	2.5	2.4	2.4	90	91	90-110	1	10	
Sulfate	mg/L	187	50	50	232	233	91	92	90-110	0	10	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92762188

QC Batch: 894256
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92762188012

METHOD BLANK: 4603887 Matrix: Water
Associated Lab Samples: 92762188012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	11/07/24 20:32	
Fluoride	mg/L	ND	0.10	0.050	11/07/24 20:32	
Sulfate	mg/L	ND	1.0	0.50	11/07/24 20:32	

LABORATORY CONTROL SAMPLE: 4603888

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.7	101	90-110	
Fluoride	mg/L	2.5	2.4	95	90-110	
Sulfate	mg/L	50	51.7	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4603889 4603890

Parameter	Units	92762188012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	15.8	50	50	65.2	65.9	99	100	90-110	1	10	
Fluoride	mg/L	0.16	2.5	2.5	2.4	2.5	90	93	90-110	3	10	
Sulfate	mg/L	190	50	50	231	233	82	86	90-110	1	10	M1

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QUALIFIERS

Project: Hammond AP-1
Pace Project No.: 92762188

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

B	Analyte was detected in the associated method blank.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
R1	RPD value was outside control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Hammond AP-1
Pace Project No.: 92762188

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92762188001	**HAM-PT-07**	EPA 3010A	894321	EPA 6010D	894759
92762188002	**HAM-PT-08**	EPA 3010A	894321	EPA 6010D	894759
92762188003	**HAM-PT-09**	EPA 3010A	894321	EPA 6010D	894759
92762188004	**HAM-PT-10**	EPA 3010A	894321	EPA 6010D	894759
92762188005	**HAM-PT-11**	EPA 3010A	894321	EPA 6010D	894759
92762188006	**HAM-PT-12**	EPA 3010A	894321	EPA 6010D	894759
92762188007	**HAM-PT-13**	EPA 3010A	894321	EPA 6010D	894759
92762188008	**HAM-PT-14**	EPA 3010A	894321	EPA 6010D	894759
92762188009	**HAM-PT-15**	EPA 3010A	894321	EPA 6010D	894759
92762188010	**HAM-AP1-EB-01**	EPA 3010A	894321	EPA 6010D	894759
92762188011	**HAM-AP1-FB-01**	EPA 3010A	894321	EPA 6010D	894759
92762188012	**HAM-AP1-FD-01**	EPA 3010A	894321	EPA 6010D	894759
92762188001	**HAM-PT-07**	EPA 3005A	894324	EPA 6020B	894778
92762188002	**HAM-PT-08**	EPA 3005A	894324	EPA 6020B	894778
92762188003	**HAM-PT-09**	EPA 3005A	894324	EPA 6020B	894778
92762188004	**HAM-PT-10**	EPA 3005A	894324	EPA 6020B	894778
92762188005	**HAM-PT-11**	EPA 3005A	894324	EPA 6020B	894778
92762188006	**HAM-PT-12**	EPA 3005A	894324	EPA 6020B	894778
92762188007	**HAM-PT-13**	EPA 3005A	894324	EPA 6020B	894778
92762188008	**HAM-PT-14**	EPA 3005A	894324	EPA 6020B	894778
92762188009	**HAM-PT-15**	EPA 3005A	894324	EPA 6020B	894778
92762188010	**HAM-AP1-EB-01**	EPA 3005A	894324	EPA 6020B	894778
92762188011	**HAM-AP1-FB-01**	EPA 3005A	894324	EPA 6020B	894778
92762188012	**HAM-AP1-FD-01**	EPA 3005A	894324	EPA 6020B	894778
92762188001	**HAM-PT-07**	EPA 7470A	896849	EPA 7470A	896905
92762188002	**HAM-PT-08**	EPA 7470A	896849	EPA 7470A	896905
92762188003	**HAM-PT-09**	EPA 7470A	896849	EPA 7470A	896905
92762188004	**HAM-PT-10**	EPA 7470A	896849	EPA 7470A	896905
92762188005	**HAM-PT-11**	EPA 7470A	896849	EPA 7470A	896905
92762188006	**HAM-PT-12**	EPA 7470A	896849	EPA 7470A	896905
92762188007	**HAM-PT-13**	EPA 7470A	896849	EPA 7470A	896905
92762188008	**HAM-PT-14**	EPA 7470A	896849	EPA 7470A	896905
92762188009	**HAM-PT-15**	EPA 7470A	896849	EPA 7470A	896905
92762188010	**HAM-AP1-EB-01**	EPA 7470A	896849	EPA 7470A	896905
92762188011	**HAM-AP1-FB-01**	EPA 7470A	896849	EPA 7470A	896905
92762188012	**HAM-AP1-FD-01**	EPA 7470A	896849	EPA 7470A	896905
92762188001	**HAM-PT-07**	SM 2540C-2015	894298		
92762188002	**HAM-PT-08**	SM 2540C-2015	894298		
92762188003	**HAM-PT-09**	SM 2540C-2015	894298		
92762188004	**HAM-PT-10**	SM 2540C-2015	894298		
92762188005	**HAM-PT-11**	SM 2540C-2015	894298		
92762188006	**HAM-PT-12**	SM 2540C-2015	895288		
92762188007	**HAM-PT-13**	SM 2540C-2015	894298		
92762188008	**HAM-PT-14**	SM 2540C-2015	894298		
92762188009	**HAM-PT-15**	SM 2540C-2015	894298		
92762188010	**HAM-AP1-EB-01**	SM 2540C-2015	894298		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Hammond AP-1
Pace Project No.: 92762188

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92762188011	**HAM-AP1-FB-01**	SM 2540C-2015	894298		
92762188012	**HAM-AP1-FD-01**	SM 2540C-2015	894298		
92762188001	**HAM-PT-07**	SM 2320B-2011	895260		
92762188002	**HAM-PT-08**	SM 2320B-2011	895260		
92762188003	**HAM-PT-09**	SM 2320B-2011	895261		
92762188004	**HAM-PT-10**	SM 2320B-2011	895261		
92762188005	**HAM-PT-11**	SM 2320B-2011	895261		
92762188006	**HAM-PT-12**	SM 2320B-2011	895261		
92762188007	**HAM-PT-13**	SM 2320B-2011	895260		
92762188008	**HAM-PT-14**	SM 2320B-2011	895260		
92762188009	**HAM-PT-15**	SM 2320B-2011	895260		
92762188010	**HAM-AP1-EB-01**	SM 2320B-2011	895261		
92762188011	**HAM-AP1-FB-01**	SM 2320B-2011	895967		
92762188012	**HAM-AP1-FD-01**	SM 2320B-2011	895967		
92762188001	**HAM-PT-07**	SM 4500-S2D-2011	894848		
92762188002	**HAM-PT-08**	SM 4500-S2D-2011	894848		
92762188003	**HAM-PT-09**	SM 4500-S2D-2011	894848		
92762188004	**HAM-PT-10**	SM 4500-S2D-2011	894848		
92762188005	**HAM-PT-11**	SM 4500-S2D-2011	894848		
92762188006	**HAM-PT-12**	SM 4500-S2D-2011	894848		
92762188007	**HAM-PT-13**	SM 4500-S2D-2011	894848		
92762188008	**HAM-PT-14**	SM 4500-S2D-2011	894848		
92762188009	**HAM-PT-15**	SM 4500-S2D-2011	894848		
92762188010	**HAM-AP1-EB-01**	SM 4500-S2D-2011	894848		
92762188011	**HAM-AP1-FB-01**	SM 4500-S2D-2011	894848		
92762188012	**HAM-AP1-FD-01**	SM 4500-S2D-2011	894848		
92762188001	**HAM-PT-07**	EPA 300.0 Rev 2.1 1993	894254		
92762188002	**HAM-PT-08**	EPA 300.0 Rev 2.1 1993	894254		
92762188003	**HAM-PT-09**	EPA 300.0 Rev 2.1 1993	894254		
92762188004	**HAM-PT-10**	EPA 300.0 Rev 2.1 1993	894254		
92762188005	**HAM-PT-11**	EPA 300.0 Rev 2.1 1993	894254		
92762188006	**HAM-PT-12**	EPA 300.0 Rev 2.1 1993	894254		
92762188007	**HAM-PT-13**	EPA 300.0 Rev 2.1 1993	894254		
92762188008	**HAM-PT-14**	EPA 300.0 Rev 2.1 1993	894254		
92762188009	**HAM-PT-15**	EPA 300.0 Rev 2.1 1993	894254		
92762188010	**HAM-AP1-EB-01**	EPA 300.0 Rev 2.1 1993	894254		
92762188011	**HAM-AP1-FB-01**	EPA 300.0 Rev 2.1 1993	894254		
92762188012	**HAM-AP1-FD-01**	EPA 300.0 Rev 2.1 1993	894256		

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Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Doc

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed ac

WO# : 92762188

92762188

Section A Required Client Information:		Section B Required Project Information		Section C Invoice Information	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co
Address:	Atlanta, GA	Copy To:	Geosyntec Contacts	Company Name:	
				Address:	
Email To:	SCS Contacts	Purchase Order No:	GPC82474-0001	Pace Quote Reference:	
Phone:	Fax:	Project Name:	Hammond AP-1	Pace Project Manager:	Bonnie Vang
Requested Due Date/TAT:	10 Day	Project Number:		Pace Profile #:	16483

REGULATORY AGENCY

NPDES | GROUND WATER | DRINKING WATER

UST | RCRA | OTHER CCR

Site Location STATE: GA

Requested Analysis Filtered (Y/N)

ITEM #	Section D Required Client Information: SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX / CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	Chloride, Fluoride, Sulfate	Full App III and IV metals	Major Ions (Profile 10839-2)	TDS	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
		DRINKING WATER DW; WATER WT; WASTE WATER WW; PRODUCT P; SOIL/SOLID SL; OIL OL; WIPE WP; AIR AR; OTHER OT; TISSUE TS																	Y/N	N	N	N	N		
1	HAM-PT-07	WG	G	11/4/2024	1234			20	5	3		1					1		X	X	X	X	N	
2	HAM-PT-08	WG	G	11/4/2024	1214			19	5	3		1					1		X	X	X	X	N	
3	HAM-PT-09	WG	G	11/5/2024	1154			20	5	3		1					1		X	X	X	X	N	
4	HAM-PT-10	WG	G	11/5/2024	0929			20	5	3		1					1		X	X	X	X	N	
5	HAM-PT-11	WG	G	11/5/2024	0925			20	5	3		1					1		X	X	X	X	N	
6	HAM-PT-12	WG	G	11/5/2024	1144			20	5	3		1					1		X	X	X	X	N	
7	HAM-PT-13	WG	G	11/4/2024	1105			20	5	3		1					1		X	X	X	X	N	
8	HAM-PT-14	WG	G	11/4/2024	1450			19	5	3		1					1		X	X	X	X	N	
9	HAM-PT-15	WG	G	11/4/2024	1401			20	5	3		1					1		X	X	X	X	N	
10	HAM-AP1-EB-01	WQ	G	11/5/2024	1236			20	5	3		1					1		X	X	X	X	N	
11	HAM-AP1-FB-01 C.H.	WQ	G	11/5/2024	1232			20	5	3		1					1		X	X	X	X	N	
12	HAM-AP1-FD-01 * 11/4/2024	WG	G	11/5/2024	0000			20	5	3		1					1		X	X	X	X	N	

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Task Code: HAM-CCR-CA-20241104	Zain Webb / Geosyntec	11/6/24	1330	Ryan Williams / Pace	11/6/24	1330	
* Sample date for HAM-AP1-FD-01 revised by C.Hug on 1/22/2025	Ryan Williams / Pace	11/6/24	1415	Charlie Hug	11/6/24	1415	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Tristan Halterman, Zain Webb / Geosyntec Consultants, Inc.

SIGNATURE of SAMPLER: Tristan Halterman Zain Webb — DATE Signed (MM/DD/YY): 11/6/24

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-Feb-2007

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Doc

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed ac

WO# : 92762188

92762188

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Geosyntec Contacts	Company Name:	
				Address:	
Email To:	SCS Contacts	Purchase Order No:	GPC82474-0001	Pace Quote Reference:	
Phone:	Fax:	Project Name:	Hammond AP-1	Pace Project Manager:	Bonnie Vang
Requested Due Date/TAT:	10 Day	Project Number:		Pace Profile #:	16483

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER

☐ UST ☐ RCRA ☑ OTHER CCR

Site Location STATE: GA

Requested Analysis Filtered (Y/N)

ITEM #	Section D Required Client Information: SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	Valid Matrix Codes: MATRIX / CODE — DRINKING WATER DW; WATER WT; WASTE WATER WW; PRODUCT P; SOIL/SOLID SL; OIL OL; WIPE WP; AIR AR; OTHER OT; TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE DATE	COLLECTED COMPOSITE TIME	COLLECTED COMPOSITE DATE	COLLECTED COMPOSITE TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Tbst Y/N	Chloride, Fluoride, Sulfate	Full App. III and IV metals	Major Ions (Profile 10839-21)	TDS								Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
																				Y/N	N	N	N	N									
1	HAM-PT-07		WG	G	11/4/2024	1234			20	5	3		1					1		X	X	X	X									N	
2	HAM-PT-08		WG	G	11/4/2024	1214			19	5	3		1					1		X	X	X	X									N	
3	HAM-PT-09		WG	G	11/5/2024	1154			20	5	3		1					1		X	X	X	X									N	
4	HAM-PT-10		WG	G	11/5/2024	0929			20	5	3		1					1		X	X	X	X									N	
5	HAM-PT-11		WG	G	11/5/2024	0925			20	5	3		1					1		X	X	X	X									N	
6	HAM-PT-12		WG	G	11/5/2024	1144			20	5	3		1					1		X	X	X	X									N	
7	HAM-PT-13		WG	G	11/4/2024	1105			20	5	3		1					1		X	X	X	X									N	
8	HAM-PT-14		WG	G	11/4/2024	1450			19	5	3		1					1		X	X	X	X									N	
9	HAM-PT-15		WG	G	11/4/2024	1401			20	5	3		1					1		X	X	X	X									N	
10	HAM-AP1-EB-01		WQ	G	11/5/2024	1236			20	5	3		1					1		X	X	X	X									N	
11	HAM-AP1-FB-01		WQ	G	11/5/2024	1232			20	5	3		1					1		X	X	X	X									N	
12	HAM-AP1-FD-01		WG	G	11/5/2024	0000			20	5	3		1					1		X	X	X	X									N	

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Task Code: HAM-CCR-CA-20241104	Zain Webb / Geosyntec	11/6/24	1330	Ryan Williams / Pace	11/6/24	1330	
	Ryan Williams / Pace	11/6/24	1415	Charles Finch	11/6/24	1415	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Tristan Halterman, Zain Webb / Geosyntec Consultants, Inc.

SIGNATURE of SAMPLER: Tristan Halterman / Zain Webb — DATE Signed (MM/DD/YY): 11/6/24

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-Feb-2007

DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Georgia Power

Project #:

WO#: 92762188

PM: BV Due Date: 11/21/24

CLIENT: 92- GP-HAM

Courier: ☐ Commercial ☐ Fed Ex ☑ Pace ☐ UPS ☐ USPS ☐ Other:____ ☐ Client

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No ☑ N/A

Date/Initials Person Examining Contents: 11/8/24 CM

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 083

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 3.9 Correction Factor: Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C

☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 3.9

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: W				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

Field Data Required? ☐ Yes ☐ No

COMMENTS/SAMPLE DISCREPANCY

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

WO# : 92762188

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg
**Bottom half of box is to list number of bottles
***Check all unpreserved Nitrates for chlorine

Project # PM: BV Due Date: 11/21/24
CLIENT: 92- GP-HAM

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Client_____ Profile/EZ (Circle one)_____ Notes_____

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)		BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
CC																														
1		2	1				1	1																						
2		2	1				1	1																						
3		2	1				1	1																						
4		2	1				1	1																						
5		2	1				1	1																						
6		2	1				1	1																						
7		2	1				1	1																						
8		2	1				1	1																						
9		2	1				1	1																						
10		2	1				1	1																						
11		2	1				1	1																						
12		2	1				1	1																						

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

December 18, 2024

Kristen Jurinko
Southern Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, GA 30308

RE: Project: Hammond AP-1
Pace Project No.: 92767477

Dear Kristen Jurinko:

Enclosed are the analytical results for sample(s) received by the laboratory on December 05, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Asheville
- Pace Analytical Services - Peachtree Corners, GA

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Bonnie Vang
bonnie.vang@pacelabs.com
704-977-0968
Project Manager

Enclosures

cc: Kip Gray, Geosyntec
Christine Hug, Geosyntec Consultants, Inc.
Thomas Kessler, Geosyntec Consultants
Whitney Law, Geosyntec Consultants
Laura Midkiff, Southern Company
Caroline Nelson, Geosyntec Consultants, Inc
Jamie Newsome, Geosyntec Consultants
Zain Webb, Geosyntec Consultants

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Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: Hammond AP-1
Pace Project No.: 92767477

Pace Analytical Services Asheville
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Laboratory ID: 99030
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners
110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812
North Carolina Certification #: 381
South Carolina Certification #: 98011001
Virginia Certification #: 460204

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE SUMMARY

Project: Hammond AP-1
Pace Project No.: 92767477

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92767477001	**HAM-PT-07**	Water	12/02/24 15:01	12/05/24 11:35
92767477002	**HAM-PT-08**	Water	12/02/24 12:18	12/05/24 11:35
92767477003	**HAM-PT-09**	Water	12/03/24 13:20	12/05/24 11:35
92767477004	**HAM-PT-10**	Water	12/03/24 11:57	12/05/24 11:35
92767477005	**HAM-PT-11**	Water	12/03/24 14:37	12/05/24 11:35
92767477006	**HAM-PT-12**	Water	12/03/24 13:57	12/05/24 11:35
92767477007	**HAM-PT-13**	Water	12/02/24 13:17	12/05/24 11:35
92767477008	**HAM-PT-14**	Water	12/02/24 14:35	12/05/24 11:35
92767477009	**HAM-PT-15**	Water	12/02/24 16:25	12/05/24 11:35
92767477010	**HAM-AP1-EB-01**	Water	12/03/24 15:50	12/05/24 11:35
92767477011	**HAM-AP1-FB-01**	Water	12/03/24 15:45	12/05/24 11:35
92767477012	**HAM-AP1-FD-01**	Water	12/03/24 00:00	12/05/24 11:35

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SAMPLE ANALYTE COUNT

Project: Hammond AP-1
Pace Project No.: 92767477

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92767477001	**HAM-PT-07**	EPA 6010D	MJS2	6
		EPA 6020B	CW1, MT1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	YEG	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92767477002	**HAM-PT-08**	EPA 6010D	MJS2	6
		EPA 6020B	CW1, MT1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	YEG	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92767477003	**HAM-PT-09**	EPA 6010D	MJS2	6
		EPA 6020B	CW1, MT1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	YEG	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92767477004	**HAM-PT-10**	EPA 6010D	MJS2	6
		EPA 6020B	CW1, MT1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	YEG	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92767477005	**HAM-PT-11**	EPA 6010D	MJS2	6
		EPA 6020B	CW1, MT1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	YEG	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92767477006	**HAM-PT-12**	EPA 6010D	MJS2	6
		EPA 6020B	CW1, MT1	13

REPORT OF LABORATORY ANALYSIS

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Huntersville, NC 28078
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SAMPLE ANALYTE COUNT

Project: Hammond AP-1
Pace Project No.: 92767477

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	YEG	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92767477007	**HAM-PT-13**	EPA 6010D	MJS2	6
		EPA 6020B	CW1, MT1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	YEG	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92767477008	**HAM-PT-14**	EPA 6010D	MJS2	6
		EPA 6020B	CW1, MT1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	YEG	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92767477009	**HAM-PT-15**	EPA 6010D	MJS2	6
		EPA 6020B	CW1, MT1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	YEG	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92767477010	**HAM-AP1-EB-01**	EPA 6010D	MJS2	6
		EPA 6020B	CW1, MT1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	YEG	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92767477011	**HAM-AP1-FB-01**	EPA 6010D	MJS2	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1

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SAMPLE ANALYTE COUNT

Project: Hammond AP-1
Pace Project No.: 92767477

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		SM 2320B-2011	YEG	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92767477012	**HAM-AP1-FD-01**	EPA 6010D	MJS2	6
		EPA 6020B	CW1, MT1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	YEG	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	JCM	3

PASI-A = Pace Analytical Services - Asheville
PASI-GA = Pace Analytical Services - Peachtree Corners, GA

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SUMMARY OF DETECTION

Project: Hammond AP-1
Pace Project No.: 92767477

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92767477001	**HAM-PT-07**					
EPA 6010D	Iron	7.7	mg/L	0.040	12/06/24 03:47	
EPA 6010D	Manganese	3.4	mg/L	0.040	12/06/24 03:47	
EPA 6010D	Potassium	6.0	mg/L	0.50	12/06/24 03:47	
EPA 6010D	Sodium	8.5	mg/L	1.0	12/06/24 03:47	
EPA 6010D	Calcium	129	mg/L	1.0	12/06/24 03:47	M1
EPA 6010D	Magnesium	17.7	mg/L	0.050	12/06/24 03:47	
EPA 6020B	Arsenic	0.15	mg/L	0.0050	12/09/24 20:19	
EPA 6020B	Barium	0.047	mg/L	0.0050	12/09/24 20:19	
EPA 6020B	Beryllium	0.000071J	mg/L	0.00050	12/09/24 20:19	
EPA 6020B	Boron	0.72	mg/L	0.050	12/10/24 16:43	
EPA 6020B	Cadmium	0.00012J	mg/L	0.00050	12/09/24 20:19	
EPA 6020B	Chromium	0.00032J	mg/L	0.0050	12/09/24 20:19	
EPA 6020B	Cobalt	0.048	mg/L	0.0050	12/09/24 20:19	
EPA 6020B	Lithium	0.050	mg/L	0.030	12/09/24 20:19	
EPA 6020B	Molybdenum	0.011	mg/L	0.010	12/09/24 20:19	
EPA 6020B	Selenium	0.00097J	mg/L	0.0050	12/09/24 20:19	
EPA 6020B	Thallium	0.00024J	mg/L	0.0010	12/09/24 20:19	
SM 2540C-2015	Total Dissolved Solids	528	mg/L	25.0	12/06/24 12:08	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	150	mg/L	5.0	12/09/24 17:32	
SM 2320B-2011	Alkalinity, Total as CaCO3	150	mg/L	5.0	12/09/24 17:32	
EPA 300.0 Rev 2.1 1993	Chloride	16.5	mg/L	1.0	12/06/24 12:07	
EPA 300.0 Rev 2.1 1993	Fluoride	0.35	mg/L	0.10	12/06/24 12:07	
EPA 300.0 Rev 2.1 1993	Sulfate	192	mg/L	4.0	12/06/24 18:02	
92767477002	**HAM-PT-08**					
EPA 6010D	Iron	0.32	mg/L	0.040	12/06/24 04:07	
EPA 6010D	Manganese	1.5	mg/L	0.040	12/06/24 04:07	
EPA 6010D	Potassium	6.0	mg/L	0.50	12/06/24 04:07	
EPA 6010D	Sodium	7.4	mg/L	1.0	12/06/24 04:07	
EPA 6010D	Calcium	111	mg/L	1.0	12/06/24 04:07	
EPA 6010D	Magnesium	14.3	mg/L	0.050	12/06/24 04:07	
EPA 6020B	Arsenic	0.010	mg/L	0.0050	12/09/24 20:31	
EPA 6020B	Barium	0.052	mg/L	0.0050	12/09/24 20:31	
EPA 6020B	Beryllium	0.000070J	mg/L	0.00050	12/09/24 20:31	
EPA 6020B	Boron	0.85	mg/L	0.050	12/10/24 16:47	
EPA 6020B	Chromium	0.00040J	mg/L	0.0050	12/09/24 20:31	
EPA 6020B	Cobalt	0.048	mg/L	0.0050	12/09/24 20:31	
EPA 6020B	Lithium	0.020J	mg/L	0.030	12/09/24 20:31	
EPA 6020B	Molybdenum	0.0068J	mg/L	0.010	12/09/24 20:31	
EPA 6020B	Selenium	0.0012J	mg/L	0.0050	12/09/24 20:31	
SM 2540C-2015	Total Dissolved Solids	451	mg/L	25.0	12/06/24 12:08	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	84.2	mg/L	5.0	12/09/24 17:50	
SM 2320B-2011	Alkalinity, Total as CaCO3	84.2	mg/L	5.0	12/09/24 17:50	
EPA 300.0 Rev 2.1 1993	Chloride	17.5	mg/L	1.0	12/06/24 12:22	
EPA 300.0 Rev 2.1 1993	Fluoride	0.14	mg/L	0.10	12/06/24 12:22	
EPA 300.0 Rev 2.1 1993	Sulfate	187	mg/L	4.0	12/06/24 18:17	

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SUMMARY OF DETECTION

Project: Hammond AP-1
Pace Project No.: 92767477

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92767477003	**HAM-PT-09**					
EPA 6010D	Iron	0.049	mg/L	0.040	12/06/24 04:12	
EPA 6010D	Manganese	0.37	mg/L	0.040	12/06/24 04:12	
EPA 6010D	Potassium	6.9	mg/L	0.50	12/06/24 04:12	
EPA 6010D	Sodium	10.1	mg/L	1.0	12/06/24 04:12	
EPA 6010D	Calcium	116	mg/L	1.0	12/06/24 04:12	
EPA 6010D	Magnesium	23.1	mg/L	0.050	12/06/24 04:12	
EPA 6020B	Arsenic	0.0020J	mg/L	0.0050	12/09/24 20:35	
EPA 6020B	Barium	0.066	mg/L	0.0050	12/09/24 20:35	
EPA 6020B	Beryllium	0.000030J	mg/L	0.00050	12/09/24 20:35	
EPA 6020B	Boron	1.6	mg/L	0.050	12/10/24 16:51	
EPA 6020B	Cadmium	0.00024J	mg/L	0.00050	12/09/24 20:35	
EPA 6020B	Chromium	0.00037J	mg/L	0.0050	12/09/24 20:35	
EPA 6020B	Cobalt	0.0028J	mg/L	0.0050	12/09/24 20:35	
EPA 6020B	Lithium	0.0025J	mg/L	0.030	12/09/24 20:35	
EPA 6020B	Molybdenum	0.25	mg/L	0.010	12/09/24 20:35	
EPA 6020B	Selenium	0.00096J	mg/L	0.0050	12/09/24 20:35	
SM 2540C-2015	Total Dissolved Solids	521	mg/L	25.0	12/09/24 11:55	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	121	mg/L	5.0	12/09/24 19:21	
SM 2320B-2011	Alkalinity, Total as CaCO3	121	mg/L	5.0	12/09/24 19:21	
EPA 300.0 Rev 2.1 1993	Chloride	48.3	mg/L	1.0	12/06/24 12:37	
EPA 300.0 Rev 2.1 1993	Fluoride	0.40	mg/L	0.10	12/06/24 12:37	
EPA 300.0 Rev 2.1 1993	Sulfate	157	mg/L	3.0	12/06/24 18:31	
92767477004	**HAM-PT-10**					
EPA 6010D	Manganese	0.37	mg/L	0.040	12/06/24 04:27	
EPA 6010D	Potassium	7.1	mg/L	0.50	12/06/24 04:27	
EPA 6010D	Sodium	8.8	mg/L	1.0	12/06/24 04:27	
EPA 6010D	Calcium	114	mg/L	1.0	12/06/24 04:27	
EPA 6010D	Magnesium	13.8	mg/L	0.050	12/06/24 04:27	
EPA 6020B	Barium	0.047	mg/L	0.0050	12/09/24 20:39	
EPA 6020B	Boron	1.7	mg/L	0.050	12/10/24 16:55	
EPA 6020B	Cadmium	0.00015J	mg/L	0.00050	12/09/24 20:39	
EPA 6020B	Chromium	0.00025J	mg/L	0.0050	12/09/24 20:39	
EPA 6020B	Cobalt	0.0015J	mg/L	0.0050	12/09/24 20:39	
EPA 6020B	Lithium	0.0010J	mg/L	0.030	12/09/24 20:39	
EPA 6020B	Molybdenum	0.18	mg/L	0.010	12/09/24 20:39	
EPA 6020B	Selenium	0.00095J	mg/L	0.0050	12/09/24 20:39	
SM 2540C-2015	Total Dissolved Solids	470	mg/L	25.0	12/09/24 11:55	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	118	mg/L	5.0	12/09/24 19:29	
SM 2320B-2011	Alkalinity, Total as CaCO3	118	mg/L	5.0	12/09/24 19:29	
EPA 300.0 Rev 2.1 1993	Chloride	46.1	mg/L	1.0	12/06/24 12:52	
EPA 300.0 Rev 2.1 1993	Fluoride	0.27	mg/L	0.10	12/06/24 12:52	
EPA 300.0 Rev 2.1 1993	Sulfate	130	mg/L	3.0	12/06/24 18:46	
92767477005	**HAM-PT-11**					
EPA 6010D	Iron	0.17	mg/L	0.040	12/06/24 04:32	
EPA 6010D	Manganese	0.45	mg/L	0.040	12/06/24 04:32	
EPA 6010D	Potassium	7.2	mg/L	0.50	12/06/24 04:32	

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SUMMARY OF DETECTION

Project: Hammond AP-1
Pace Project No.: 92767477

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92767477005	**HAM-PT-11**					
EPA 6010D	Sodium	9.5	mg/L	1.0	12/06/24 04:32	
EPA 6010D	Calcium	120	mg/L	1.0	12/06/24 04:32	
EPA 6010D	Magnesium	16.9	mg/L	0.050	12/06/24 04:32	
EPA 6020B	Barium	0.067	mg/L	0.0050	12/09/24 20:43	
EPA 6020B	Boron	1.6	mg/L	0.050	12/10/24 16:59	
EPA 6020B	Cadmium	0.00015J	mg/L	0.00050	12/09/24 20:43	
EPA 6020B	Chromium	0.00045J	mg/L	0.0050	12/09/24 20:43	
EPA 6020B	Cobalt	0.0044J	mg/L	0.0050	12/09/24 20:43	
EPA 6020B	Lithium	0.0027J	mg/L	0.030	12/09/24 20:43	
EPA 6020B	Molybdenum	0.12	mg/L	0.010	12/09/24 20:43	
EPA 6020B	Selenium	0.00092J	mg/L	0.0050	12/09/24 20:43	
SM 2540C-2015	Total Dissolved Solids	486	mg/L	25.0	12/09/24 11:55	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	122	mg/L	5.0	12/09/24 19:38	
SM 2320B-2011	Alkalinity, Total as CaCO3	122	mg/L	5.0	12/09/24 19:38	
EPA 300.0 Rev 2.1 1993	Chloride	44.0	mg/L	1.0	12/06/24 13:07	
EPA 300.0 Rev 2.1 1993	Fluoride	0.31	mg/L	0.10	12/06/24 13:07	
EPA 300.0 Rev 2.1 1993	Sulfate	139	mg/L	3.0	12/06/24 19:01	
92767477006	**HAM-PT-12**					
EPA 6010D	Iron	0.33	mg/L	0.040	12/06/24 04:37	
EPA 6010D	Manganese	0.86	mg/L	0.040	12/06/24 04:37	
EPA 6010D	Potassium	6.1	mg/L	0.50	12/06/24 04:37	
EPA 6010D	Sodium	10.9	mg/L	1.0	12/06/24 04:37	
EPA 6010D	Calcium	105	mg/L	1.0	12/06/24 04:37	
EPA 6010D	Magnesium	28.7	mg/L	0.050	12/06/24 04:37	
EPA 6020B	Arsenic	0.0027J	mg/L	0.0050	12/09/24 20:47	
EPA 6020B	Barium	0.062	mg/L	0.0050	12/09/24 20:47	
EPA 6020B	Beryllium	0.000057J	mg/L	0.00050	12/09/24 20:47	
EPA 6020B	Boron	1.6	mg/L	0.050	12/10/24 17:03	
EPA 6020B	Cadmium	0.00028J	mg/L	0.00050	12/09/24 20:47	
EPA 6020B	Chromium	0.00067J	mg/L	0.0050	12/09/24 20:47	
EPA 6020B	Cobalt	0.0035J	mg/L	0.0050	12/09/24 20:47	
EPA 6020B	Lead	0.000093J	mg/L	0.0010	12/09/24 20:47	
EPA 6020B	Lithium	0.0023J	mg/L	0.030	12/09/24 20:47	
EPA 6020B	Molybdenum	0.16	mg/L	0.010	12/09/24 20:47	
SM 2540C-2015	Total Dissolved Solids	526	mg/L	25.0	12/09/24 11:55	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	116	mg/L	5.0	12/09/24 19:47	
SM 2320B-2011	Alkalinity, Total as CaCO3	116	mg/L	5.0	12/09/24 19:47	
EPA 300.0 Rev 2.1 1993	Chloride	44.2	mg/L	1.0	12/06/24 13:22	
EPA 300.0 Rev 2.1 1993	Fluoride	0.30	mg/L	0.10	12/06/24 13:22	
EPA 300.0 Rev 2.1 1993	Sulfate	179	mg/L	4.0	12/06/24 19:15	
92767477007	**HAM-PT-13**					
EPA 6010D	Iron	9.5	mg/L	0.040	12/06/24 04:41	
EPA 6010D	Manganese	3.0	mg/L	0.040	12/06/24 04:41	
EPA 6010D	Potassium	6.1	mg/L	0.50	12/06/24 04:41	
EPA 6010D	Sodium	10.1	mg/L	1.0	12/06/24 04:41	
EPA 6010D	Calcium	129	mg/L	1.0	12/06/24 04:41	

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SUMMARY OF DETECTION

Project: Hammond AP-1
Pace Project No.: 92767477

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92767477007	**HAM-PT-13**					
EPA 6010D	Magnesium	17.8	mg/L	0.050	12/06/24 04:41	
EPA 6020B	Arsenic	0.19	mg/L	0.0050	12/09/24 20:51	
EPA 6020B	Barium	0.047	mg/L	0.0050	12/09/24 20:51	
EPA 6020B	Beryllium	0.000082J	mg/L	0.00050	12/09/24 20:51	
EPA 6020B	Boron	0.70	mg/L	0.050	12/10/24 17:36	
EPA 6020B	Cadmium	0.000054J	mg/L	0.00050	12/09/24 20:51	
EPA 6020B	Chromium	0.00039J	mg/L	0.0050	12/09/24 20:51	
EPA 6020B	Cobalt	0.023	mg/L	0.0050	12/09/24 20:51	
EPA 6020B	Lead	0.00011J	mg/L	0.0010	12/09/24 20:51	
EPA 6020B	Lithium	0.058	mg/L	0.030	12/09/24 20:51	
EPA 6020B	Molybdenum	0.0085J	mg/L	0.010	12/09/24 20:51	
EPA 6020B	Selenium	0.0011J	mg/L	0.0050	12/09/24 20:51	
EPA 6020B	Thallium	0.00023J	mg/L	0.0010	12/09/24 20:51	
SM 2540C-2015	Total Dissolved Solids	528	mg/L	25.0	12/06/24 12:08	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	145	mg/L	5.0	12/09/24 17:58	
SM 2320B-2011	Alkalinity, Total as CaCO3	145	mg/L	5.0	12/09/24 17:58	
EPA 300.0 Rev 2.1 1993	Chloride	18.6	mg/L	1.0	12/06/24 13:37	
EPA 300.0 Rev 2.1 1993	Fluoride	0.37	mg/L	0.10	12/06/24 13:37	
EPA 300.0 Rev 2.1 1993	Sulfate	200	mg/L	4.0	12/06/24 19:30	
92767477008	**HAM-PT-14**					
EPA 6010D	Iron	14.2	mg/L	0.040	12/06/24 16:54	
EPA 6010D	Manganese	2.9	mg/L	0.040	12/06/24 16:54	
EPA 6010D	Potassium	6.1	mg/L	0.50	12/06/24 16:54	
EPA 6010D	Sodium	8.0	mg/L	1.0	12/06/24 16:54	
EPA 6010D	Calcium	137	mg/L	1.0	12/06/24 16:54	
EPA 6010D	Magnesium	18.9	mg/L	0.050	12/06/24 16:54	
EPA 6020B	Arsenic	0.27	mg/L	0.0050	12/09/24 20:55	
EPA 6020B	Barium	0.043	mg/L	0.0050	12/09/24 20:55	
EPA 6020B	Beryllium	0.000056J	mg/L	0.00050	12/09/24 20:55	
EPA 6020B	Boron	0.74	mg/L	0.050	12/10/24 17:40	
EPA 6020B	Chromium	0.00036J	mg/L	0.0050	12/09/24 20:55	
EPA 6020B	Cobalt	0.024	mg/L	0.0050	12/09/24 20:55	
EPA 6020B	Lead	0.00015J	mg/L	0.0010	12/09/24 20:55	
EPA 6020B	Lithium	0.054	mg/L	0.030	12/09/24 20:55	
EPA 6020B	Molybdenum	0.016	mg/L	0.010	12/09/24 20:55	
EPA 6020B	Selenium	0.0010J	mg/L	0.0050	12/09/24 20:55	
SM 2540C-2015	Total Dissolved Solids	560	mg/L	25.0	12/06/24 12:09	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	149	mg/L	5.0	12/09/24 18:08	
SM 2320B-2011	Alkalinity, Total as CaCO3	149	mg/L	5.0	12/09/24 18:08	
EPA 300.0 Rev 2.1 1993	Chloride	17.8	mg/L	1.0	12/06/24 19:26	
EPA 300.0 Rev 2.1 1993	Fluoride	0.31	mg/L	0.10	12/06/24 19:26	
EPA 300.0 Rev 2.1 1993	Sulfate	184	mg/L	5.0	12/06/24 20:44	
92767477009	**HAM-PT-15**					
EPA 6010D	Iron	0.38	mg/L	0.040	12/06/24 04:51	
EPA 6010D	Manganese	2.4	mg/L	0.040	12/06/24 04:51	
EPA 6010D	Potassium	6.1	mg/L	0.50	12/06/24 04:51	

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SUMMARY OF DETECTION

Project: Hammond AP-1
Pace Project No.: 92767477

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92767477009	**HAM-PT-15**					
EPA 6010D	Sodium	9.3	mg/L	1.0	12/06/24 04:51	
EPA 6010D	Calcium	129	mg/L	1.0	12/06/24 04:51	
EPA 6010D	Magnesium	14.6	mg/L	0.050	12/06/24 04:51	
EPA 6020B	Antimony	0.00063J	mg/L	0.0030	12/09/24 20:59	
EPA 6020B	Arsenic	0.024	mg/L	0.0050	12/09/24 20:59	
EPA 6020B	Barium	0.051	mg/L	0.0050	12/09/24 20:59	
EPA 6020B	Beryllium	0.000062J	mg/L	0.00050	12/09/24 20:59	
EPA 6020B	Boron	0.86	mg/L	0.050	12/10/24 17:44	
EPA 6020B	Cadmium	0.00025J	mg/L	0.00050	12/09/24 20:59	
EPA 6020B	Chromium	0.00026J	mg/L	0.0050	12/09/24 20:59	
EPA 6020B	Cobalt	0.025	mg/L	0.0050	12/09/24 20:59	
EPA 6020B	Lithium	0.041	mg/L	0.030	12/09/24 20:59	
EPA 6020B	Molybdenum	0.015	mg/L	0.010	12/09/24 20:59	
EPA 6020B	Selenium	0.0017J	mg/L	0.0050	12/09/24 20:59	
EPA 6020B	Thallium	0.00044J	mg/L	0.0010	12/09/24 20:59	
SM 2540C-2015	Total Dissolved Solids	497	mg/L	25.0	12/06/24 12:09	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	141	mg/L	5.0	12/09/24 18:18	
SM 2320B-2011	Alkalinity, Total as CaCO3	141	mg/L	5.0	12/09/24 18:18	
EPA 300.0 Rev 2.1 1993	Chloride	17.4	mg/L	1.0	12/06/24 19:42	
EPA 300.0 Rev 2.1 1993	Fluoride	0.37	mg/L	0.10	12/06/24 19:42	
EPA 300.0 Rev 2.1 1993	Sulfate	175	mg/L	4.0	12/06/24 21:31	
92767477010	**HAM-AP1-EB-01**					
EPA 6010D	Iron	0.037J	mg/L	0.040	12/06/24 05:01	
EPA 6010D	Sodium	1.1	mg/L	1.0	12/06/24 05:01	
EPA 6010D	Calcium	0.62J	mg/L	1.0	12/06/24 05:01	
EPA 6010D	Magnesium	0.14	mg/L	0.050	12/06/24 05:01	
EPA 6020B	Barium	0.0037J	mg/L	0.0050	12/10/24 16:14	
EPA 6020B	Chromium	0.00078J	mg/L	0.0050	12/09/24 21:07	
EPA 6020B	Lead	0.00047J	mg/L	0.0010	12/09/24 21:07	
SM 2540C-2015	Total Dissolved Solids	40.0	mg/L	25.0	12/09/24 11:56	
92767477011	**HAM-AP1-FB-01**					
EPA 6010D	Calcium	0.18J	mg/L	1.0	12/06/24 05:06	
EPA 6010D	Magnesium	0.027J	mg/L	0.050	12/06/24 05:06	
EPA 6020B	Barium	0.00084J	mg/L	0.0050	12/09/24 21:19	
EPA 6020B	Boron	0.018J	mg/L	0.050	12/09/24 21:19	
EPA 6020B	Chromium	0.00033J	mg/L	0.0050	12/09/24 21:19	
EPA 6020B	Lead	0.00010J	mg/L	0.0010	12/09/24 21:19	
92767477012	**HAM-AP1-FD-01**					
EPA 6010D	Iron	0.029J	mg/L	0.040	12/06/24 05:11	
EPA 6010D	Manganese	0.37	mg/L	0.040	12/06/24 05:11	
EPA 6010D	Potassium	7.1	mg/L	0.50	12/06/24 05:11	
EPA 6010D	Sodium	8.9	mg/L	1.0	12/06/24 05:11	
EPA 6010D	Calcium	113	mg/L	1.0	12/06/24 05:11	
EPA 6010D	Magnesium	13.8	mg/L	0.050	12/06/24 05:11	
EPA 6020B	Barium	0.047	mg/L	0.0050	12/09/24 21:23	
EPA 6020B	Boron	1.8	mg/L	0.25	12/11/24 13:45	

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SUMMARY OF DETECTION

Project: Hammond AP-1
Pace Project No.: 92767477

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92767477012	**HAM-AP1-FD-01**					
EPA 6020B	Cadmium	0.00013J	mg/L	0.00050	12/09/24 21:23	
EPA 6020B	Chromium	0.00030J	mg/L	0.0050	12/09/24 21:23	
EPA 6020B	Cobalt	0.0015J	mg/L	0.0050	12/09/24 21:23	
EPA 6020B	Lithium	0.0010J	mg/L	0.030	12/09/24 21:23	
EPA 6020B	Molybdenum	0.17	mg/L	0.010	12/09/24 21:23	
EPA 6020B	Selenium	0.0012J	mg/L	0.0050	12/09/24 21:23	
SM 2540C-2015	Total Dissolved Solids	468	mg/L	25.0	12/09/24 11:57	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	121	mg/L	5.0	12/09/24 20:13	
SM 2320B-2011	Alkalinity, Total as CaCO3	121	mg/L	5.0	12/09/24 20:13	
EPA 300.0 Rev 2.1 1993	Chloride	46.0	mg/L	1.0	12/07/24 18:43	
EPA 300.0 Rev 2.1 1993	Fluoride	0.29	mg/L	0.10	12/07/24 18:43	
EPA 300.0 Rev 2.1 1993	Sulfate	132	mg/L	3.0	12/08/24 04:55	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92767477

Sample: HAM-PT-07 **Lab ID: 92767477001** Collected: 12/02/24 15:01 Received: 12/05/24 11:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**7.7**	mg/L	0.040	0.025	1	12/05/24 17:27	12/06/24 03:47	7439-89-6	
Manganese	**3.4**	mg/L	0.040	0.011	1	12/05/24 17:27	12/06/24 03:47	7439-96-5	
Potassium	**6.0**	mg/L	0.50	0.15	1	12/05/24 17:27	12/06/24 03:47	7440-09-7	
Sodium	**8.5**	mg/L	1.0	0.58	1	12/05/24 17:27	12/06/24 03:47	7440-23-5	
Calcium	**129**	mg/L	1.0	0.12	1	12/05/24 17:27	12/06/24 03:47	7440-70-2	M1
Magnesium	**17.7**	mg/L	0.050	0.012	1	12/05/24 17:27	12/06/24 03:47	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00038	1	12/05/24 17:00	12/09/24 20:19	7440-36-0	
Arsenic	**0.15**	mg/L	0.0050	0.0016	1	12/05/24 17:00	12/09/24 20:19	7440-38-2	
Barium	**0.047**	mg/L	0.0050	0.00019	1	12/05/24 17:00	12/09/24 20:19	7440-39-3	
Beryllium	**0.000071J**	mg/L	0.00050	0.000026	1	12/05/24 17:00	12/09/24 20:19	7440-41-7	
Boron	**0.72**	mg/L	0.050	0.014	1	12/05/24 17:00	12/10/24 16:43	7440-42-8	
Cadmium	**0.00012J**	mg/L	0.00050	0.000041	1	12/05/24 17:00	12/09/24 20:19	7440-43-9	
Chromium	**0.00032J**	mg/L	0.0050	0.00015	1	12/05/24 17:00	12/09/24 20:19	7440-47-3	
Cobalt	**0.048**	mg/L	0.0050	0.000098	1	12/05/24 17:00	12/09/24 20:19	7440-48-4	
Lead	ND	mg/L	0.0010	0.000076	1	12/05/24 17:00	12/09/24 20:19	7439-92-1	
Lithium	**0.050**	mg/L	0.030	0.00028	1	12/05/24 17:00	12/09/24 20:19	7439-93-2	
Molybdenum	**0.011**	mg/L	0.010	0.00035	1	12/05/24 17:00	12/09/24 20:19	7439-98-7	
Selenium	**0.00097J**	mg/L	0.0050	0.00092	1	12/05/24 17:00	12/09/24 20:19	7782-49-2	
Thallium	**0.00024J**	mg/L	0.0010	0.00020	1	12/05/24 17:00	12/09/24 20:19	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	12/12/24 16:00	12/13/24 09:31	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**528**	mg/L	25.0	25.0	1		12/06/24 12:08		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**150**	mg/L	5.0	5.0	1		12/09/24 17:32		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		12/09/24 17:32		
Alkalinity, Total as CaCO3	**150**	mg/L	5.0	5.0	1		12/09/24 17:32		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		12/07/24 03:54	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**16.5**	mg/L	1.0	0.60	1		12/06/24 12:07	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92767477

Sample: HAM-PT-07 **Lab ID: 92767477001** Collected: 12/02/24 15:01 Received: 12/05/24 11:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.35**	mg/L	0.10	0.050	1		12/06/24 12:07	16984-48-8	
Sulfate	**192**	mg/L	4.0	2.0	4		12/06/24 18:02	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92767477

Sample: HAM-PT-08 **Lab ID: 92767477002** Collected: 12/02/24 12:18 Received: 12/05/24 11:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.32**	mg/L	0.040	0.025	1	12/05/24 17:27	12/06/24 04:07	7439-89-6	
Manganese	**1.5**	mg/L	0.040	0.011	1	12/05/24 17:27	12/06/24 04:07	7439-96-5	
Potassium	**6.0**	mg/L	0.50	0.15	1	12/05/24 17:27	12/06/24 04:07	7440-09-7	
Sodium	**7.4**	mg/L	1.0	0.58	1	12/05/24 17:27	12/06/24 04:07	7440-23-5	
Calcium	**111**	mg/L	1.0	0.12	1	12/05/24 17:27	12/06/24 04:07	7440-70-2	
Magnesium	**14.3**	mg/L	0.050	0.012	1	12/05/24 17:27	12/06/24 04:07	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00038	1	12/05/24 17:00	12/09/24 20:31	7440-36-0	
Arsenic	**0.010**	mg/L	0.0050	0.0016	1	12/05/24 17:00	12/09/24 20:31	7440-38-2	
Barium	**0.052**	mg/L	0.0050	0.00019	1	12/05/24 17:00	12/09/24 20:31	7440-39-3	
Beryllium	**0.000070J**	mg/L	0.00050	0.000026	1	12/05/24 17:00	12/09/24 20:31	7440-41-7	
Boron	**0.85**	mg/L	0.050	0.014	1	12/05/24 17:00	12/10/24 16:47	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.000041	1	12/05/24 17:00	12/09/24 20:31	7440-43-9	
Chromium	**0.00040J**	mg/L	0.0050	0.00015	1	12/05/24 17:00	12/09/24 20:31	7440-47-3	
Cobalt	**0.048**	mg/L	0.0050	0.000098	1	12/05/24 17:00	12/09/24 20:31	7440-48-4	
Lead	ND	mg/L	0.0010	0.000076	1	12/05/24 17:00	12/09/24 20:31	7439-92-1	
Lithium	**0.020J**	mg/L	0.030	0.00028	1	12/05/24 17:00	12/09/24 20:31	7439-93-2	
Molybdenum	**0.0068J**	mg/L	0.010	0.00035	1	12/05/24 17:00	12/09/24 20:31	7439-98-7	
Selenium	**0.0012J**	mg/L	0.0050	0.00092	1	12/05/24 17:00	12/09/24 20:31	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00020	1	12/05/24 17:00	12/09/24 20:31	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	12/12/24 16:00	12/13/24 09:33	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**451**	mg/L	25.0	25.0	1		12/06/24 12:08		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**84.2**	mg/L	5.0	5.0	1		12/09/24 17:50		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		12/09/24 17:50		
Alkalinity, Total as CaCO3	**84.2**	mg/L	5.0	5.0	1		12/09/24 17:50		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		12/07/24 03:56	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**17.5**	mg/L	1.0	0.60	1		12/06/24 12:22	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92767477

Sample: HAM-PT-08 **Lab ID: 92767477002** Collected: 12/02/24 12:18 Received: 12/05/24 11:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.14**	mg/L	0.10	0.050	1		12/06/24 12:22	16984-48-8	
Sulfate	**187**	mg/L	4.0	2.0	4		12/06/24 18:17	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92767477

Sample: HAM-PT-09 **Lab ID: 92767477003** Collected: 12/03/24 13:20 Received: 12/05/24 11:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.049**	mg/L	0.040	0.025	1	12/05/24 17:27	12/06/24 04:12	7439-89-6	
Manganese	**0.37**	mg/L	0.040	0.011	1	12/05/24 17:27	12/06/24 04:12	7439-96-5	
Potassium	**6.9**	mg/L	0.50	0.15	1	12/05/24 17:27	12/06/24 04:12	7440-09-7	
Sodium	**10.1**	mg/L	1.0	0.58	1	12/05/24 17:27	12/06/24 04:12	7440-23-5	
Calcium	**116**	mg/L	1.0	0.12	1	12/05/24 17:27	12/06/24 04:12	7440-70-2	
Magnesium	**23.1**	mg/L	0.050	0.012	1	12/05/24 17:27	12/06/24 04:12	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00038	1	12/05/24 17:00	12/09/24 20:35	7440-36-0	
Arsenic	**0.0020J**	mg/L	0.0050	0.0016	1	12/05/24 17:00	12/09/24 20:35	7440-38-2	
Barium	**0.066**	mg/L	0.0050	0.00019	1	12/05/24 17:00	12/09/24 20:35	7440-39-3	
Beryllium	**0.000030J**	mg/L	0.00050	0.000026	1	12/05/24 17:00	12/09/24 20:35	7440-41-7	
Boron	**1.6**	mg/L	0.050	0.014	1	12/05/24 17:00	12/10/24 16:51	7440-42-8	
Cadmium	**0.00024J**	mg/L	0.00050	0.000041	1	12/05/24 17:00	12/09/24 20:35	7440-43-9	
Chromium	**0.00037J**	mg/L	0.0050	0.00015	1	12/05/24 17:00	12/09/24 20:35	7440-47-3	
Cobalt	**0.0028J**	mg/L	0.0050	0.000098	1	12/05/24 17:00	12/09/24 20:35	7440-48-4	
Lead	ND	mg/L	0.0010	0.000076	1	12/05/24 17:00	12/09/24 20:35	7439-92-1	
Lithium	**0.0025J**	mg/L	0.030	0.00028	1	12/05/24 17:00	12/09/24 20:35	7439-93-2	
Molybdenum	**0.25**	mg/L	0.010	0.00035	1	12/05/24 17:00	12/09/24 20:35	7439-98-7	
Selenium	**0.00096J**	mg/L	0.0050	0.00092	1	12/05/24 17:00	12/09/24 20:35	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00020	1	12/05/24 17:00	12/09/24 20:35	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	12/12/24 16:00	12/13/24 09:43	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**521**	mg/L	25.0	25.0	1		12/09/24 11:55		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**121**	mg/L	5.0	5.0	1		12/09/24 19:21		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		12/09/24 19:21		
Alkalinity, Total as CaCO3	**121**	mg/L	5.0	5.0	1		12/09/24 19:21		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		12/07/24 04:00	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**48.3**	mg/L	1.0	0.60	1		12/06/24 12:37	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92767477

Sample: HAM-PT-09 **Lab ID: 92767477003** Collected: 12/03/24 13:20 Received: 12/05/24 11:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.40**	mg/L	0.10	0.050	1		12/06/24 12:37	16984-48-8	
Sulfate	**157**	mg/L	3.0	1.5	3		12/06/24 18:31	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92767477

Sample: HAM-PT-10 **Lab ID: 92767477004** Collected: 12/03/24 11:57 Received: 12/05/24 11:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	12/05/24 17:27	12/06/24 04:27	7439-89-6	
Manganese	**0.37**	mg/L	0.040	0.011	1	12/05/24 17:27	12/06/24 04:27	7439-96-5	
Potassium	**7.1**	mg/L	0.50	0.15	1	12/05/24 17:27	12/06/24 04:27	7440-09-7	
Sodium	**8.8**	mg/L	1.0	0.58	1	12/05/24 17:27	12/06/24 04:27	7440-23-5	
Calcium	**114**	mg/L	1.0	0.12	1	12/05/24 17:27	12/06/24 04:27	7440-70-2	
Magnesium	**13.8**	mg/L	0.050	0.012	1	12/05/24 17:27	12/06/24 04:27	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00038	1	12/05/24 17:00	12/09/24 20:39	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0016	1	12/05/24 17:00	12/09/24 20:39	7440-38-2	
Barium	**0.047**	mg/L	0.0050	0.00019	1	12/05/24 17:00	12/09/24 20:39	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000026	1	12/05/24 17:00	12/09/24 20:39	7440-41-7	
Boron	**1.7**	mg/L	0.050	0.014	1	12/05/24 17:00	12/10/24 16:55	7440-42-8	
Cadmium	**0.00015J**	mg/L	0.00050	0.000041	1	12/05/24 17:00	12/09/24 20:39	7440-43-9	
Chromium	**0.00025J**	mg/L	0.0050	0.00015	1	12/05/24 17:00	12/09/24 20:39	7440-47-3	
Cobalt	**0.0015J**	mg/L	0.0050	0.000098	1	12/05/24 17:00	12/09/24 20:39	7440-48-4	
Lead	ND	mg/L	0.0010	0.000076	1	12/05/24 17:00	12/09/24 20:39	7439-92-1	
Lithium	**0.0010J**	mg/L	0.030	0.00028	1	12/05/24 17:00	12/09/24 20:39	7439-93-2	
Molybdenum	**0.18**	mg/L	0.010	0.00035	1	12/05/24 17:00	12/09/24 20:39	7439-98-7	
Selenium	**0.00095J**	mg/L	0.0050	0.00092	1	12/05/24 17:00	12/09/24 20:39	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00020	1	12/05/24 17:00	12/09/24 20:39	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	12/12/24 16:00	12/13/24 09:46	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**470**	mg/L	25.0	25.0	1		12/09/24 11:55		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**118**	mg/L	5.0	5.0	1		12/09/24 19:29		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		12/09/24 19:29		
Alkalinity, Total as CaCO3	**118**	mg/L	5.0	5.0	1		12/09/24 19:29		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		12/07/24 04:01	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**46.1**	mg/L	1.0	0.60	1		12/06/24 12:52	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92767477

Sample: HAM-PT-10 **Lab ID: 92767477004** Collected: 12/03/24 11:57 Received: 12/05/24 11:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.27**	mg/L	0.10	0.050	1		12/06/24 12:52	16984-48-8	
Sulfate	**130**	mg/L	3.0	1.5	3		12/06/24 18:46	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92767477

Sample: HAM-PT-11 **Lab ID: 92767477005** Collected: 12/03/24 14:37 Received: 12/05/24 11:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.17**	mg/L	0.040	0.025	1	12/05/24 17:27	12/06/24 04:32	7439-89-6	
Manganese	**0.45**	mg/L	0.040	0.011	1	12/05/24 17:27	12/06/24 04:32	7439-96-5	
Potassium	**7.2**	mg/L	0.50	0.15	1	12/05/24 17:27	12/06/24 04:32	7440-09-7	
Sodium	**9.5**	mg/L	1.0	0.58	1	12/05/24 17:27	12/06/24 04:32	7440-23-5	
Calcium	**120**	mg/L	1.0	0.12	1	12/05/24 17:27	12/06/24 04:32	7440-70-2	
Magnesium	**16.9**	mg/L	0.050	0.012	1	12/05/24 17:27	12/06/24 04:32	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00038	1	12/05/24 17:00	12/09/24 20:43	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0016	1	12/05/24 17:00	12/09/24 20:43	7440-38-2	
Barium	**0.067**	mg/L	0.0050	0.00019	1	12/05/24 17:00	12/09/24 20:43	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000026	1	12/05/24 17:00	12/09/24 20:43	7440-41-7	
Boron	**1.6**	mg/L	0.050	0.014	1	12/05/24 17:00	12/10/24 16:59	7440-42-8	
Cadmium	**0.00015J**	mg/L	0.00050	0.000041	1	12/05/24 17:00	12/09/24 20:43	7440-43-9	
Chromium	**0.00045J**	mg/L	0.0050	0.00015	1	12/05/24 17:00	12/09/24 20:43	7440-47-3	
Cobalt	**0.0044J**	mg/L	0.0050	0.000098	1	12/05/24 17:00	12/09/24 20:43	7440-48-4	
Lead	ND	mg/L	0.0010	0.000076	1	12/05/24 17:00	12/09/24 20:43	7439-92-1	
Lithium	**0.0027J**	mg/L	0.030	0.00028	1	12/05/24 17:00	12/09/24 20:43	7439-93-2	
Molybdenum	**0.12**	mg/L	0.010	0.00035	1	12/05/24 17:00	12/09/24 20:43	7439-98-7	
Selenium	**0.00092J**	mg/L	0.0050	0.00092	1	12/05/24 17:00	12/09/24 20:43	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00020	1	12/05/24 17:00	12/09/24 20:43	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	12/12/24 16:00	12/13/24 09:53	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**486**	mg/L	25.0	25.0	1		12/09/24 11:55		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**122**	mg/L	5.0	5.0	1		12/09/24 19:38		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		12/09/24 19:38		
Alkalinity, Total as CaCO3	**122**	mg/L	5.0	5.0	1		12/09/24 19:38		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		12/07/24 04:01	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**44.0**	mg/L	1.0	0.60	1		12/06/24 13:07	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92767477

Sample: HAM-PT-11 **Lab ID: 92767477005** Collected: 12/03/24 14:37 Received: 12/05/24 11:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.31**	mg/L	0.10	0.050	1		12/06/24 13:07	16984-48-8	
Sulfate	**139**	mg/L	3.0	1.5	3		12/06/24 19:01	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92767477

Sample: HAM-PT-12 **Lab ID: 92767477006** Collected: 12/03/24 13:57 Received: 12/05/24 11:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.33**	mg/L	0.040	0.025	1	12/05/24 17:27	12/06/24 04:37	7439-89-6	
Manganese	**0.86**	mg/L	0.040	0.011	1	12/05/24 17:27	12/06/24 04:37	7439-96-5	
Potassium	**6.1**	mg/L	0.50	0.15	1	12/05/24 17:27	12/06/24 04:37	7440-09-7	
Sodium	**10.9**	mg/L	1.0	0.58	1	12/05/24 17:27	12/06/24 04:37	7440-23-5	
Calcium	**105**	mg/L	1.0	0.12	1	12/05/24 17:27	12/06/24 04:37	7440-70-2	
Magnesium	**28.7**	mg/L	0.050	0.012	1	12/05/24 17:27	12/06/24 04:37	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00038	1	12/05/24 17:00	12/09/24 20:47	7440-36-0	
Arsenic	**0.0027J**	mg/L	0.0050	0.0016	1	12/05/24 17:00	12/09/24 20:47	7440-38-2	
Barium	**0.062**	mg/L	0.0050	0.00019	1	12/05/24 17:00	12/09/24 20:47	7440-39-3	
Beryllium	**0.000057J**	mg/L	0.00050	0.000026	1	12/05/24 17:00	12/09/24 20:47	7440-41-7	
Boron	**1.6**	mg/L	0.050	0.014	1	12/05/24 17:00	12/10/24 17:03	7440-42-8	
Cadmium	**0.00028J**	mg/L	0.00050	0.000041	1	12/05/24 17:00	12/09/24 20:47	7440-43-9	
Chromium	**0.00067J**	mg/L	0.0050	0.00015	1	12/05/24 17:00	12/09/24 20:47	7440-47-3	
Cobalt	**0.0035J**	mg/L	0.0050	0.000098	1	12/05/24 17:00	12/09/24 20:47	7440-48-4	
Lead	**0.000093J**	mg/L	0.0010	0.000076	1	12/05/24 17:00	12/09/24 20:47	7439-92-1	
Lithium	**0.0023J**	mg/L	0.030	0.00028	1	12/05/24 17:00	12/09/24 20:47	7439-93-2	
Molybdenum	**0.16**	mg/L	0.010	0.00035	1	12/05/24 17:00	12/09/24 20:47	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00092	1	12/05/24 17:00	12/09/24 20:47	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00020	1	12/05/24 17:00	12/09/24 20:47	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	12/12/24 16:00	12/13/24 09:56	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**526**	mg/L	25.0	25.0	1		12/09/24 11:55		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**116**	mg/L	5.0	5.0	1		12/09/24 19:47		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		12/09/24 19:47		
Alkalinity, Total as CaCO3	**116**	mg/L	5.0	5.0	1		12/09/24 19:47		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		12/07/24 04:02	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**44.2**	mg/L	1.0	0.60	1		12/06/24 13:22	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92767477

Sample: HAM-PT-12 **Lab ID: 92767477006** Collected: 12/03/24 13:57 Received: 12/05/24 11:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.30**	mg/L	0.10	0.050	1		12/06/24 13:22	16984-48-8	
Sulfate	**179**	mg/L	4.0	2.0	4		12/06/24 19:15	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92767477

Sample: HAM-PT-13 **Lab ID: 92767477007** Collected: 12/02/24 13:17 Received: 12/05/24 11:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**9.5**	mg/L	0.040	0.025	1	12/05/24 17:27	12/06/24 04:41	7439-89-6	
Manganese	**3.0**	mg/L	0.040	0.011	1	12/05/24 17:27	12/06/24 04:41	7439-96-5	
Potassium	**6.1**	mg/L	0.50	0.15	1	12/05/24 17:27	12/06/24 04:41	7440-09-7	
Sodium	**10.1**	mg/L	1.0	0.58	1	12/05/24 17:27	12/06/24 04:41	7440-23-5	
Calcium	**129**	mg/L	1.0	0.12	1	12/05/24 17:27	12/06/24 04:41	7440-70-2	
Magnesium	**17.8**	mg/L	0.050	0.012	1	12/05/24 17:27	12/06/24 04:41	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00038	1	12/05/24 17:00	12/09/24 20:51	7440-36-0	
Arsenic	**0.19**	mg/L	0.0050	0.0016	1	12/05/24 17:00	12/09/24 20:51	7440-38-2	
Barium	**0.047**	mg/L	0.0050	0.00019	1	12/05/24 17:00	12/09/24 20:51	7440-39-3	
Beryllium	**0.000082J**	mg/L	0.00050	0.000026	1	12/05/24 17:00	12/09/24 20:51	7440-41-7	
Boron	**0.70**	mg/L	0.050	0.014	1	12/05/24 17:00	12/10/24 17:36	7440-42-8	
Cadmium	**0.000054J**	mg/L	0.00050	0.000041	1	12/05/24 17:00	12/09/24 20:51	7440-43-9	
Chromium	**0.00039J**	mg/L	0.0050	0.00015	1	12/05/24 17:00	12/09/24 20:51	7440-47-3	
Cobalt	**0.023**	mg/L	0.0050	0.000098	1	12/05/24 17:00	12/09/24 20:51	7440-48-4	
Lead	**0.00011J**	mg/L	0.0010	0.000076	1	12/05/24 17:00	12/09/24 20:51	7439-92-1	
Lithium	**0.058**	mg/L	0.030	0.00028	1	12/05/24 17:00	12/09/24 20:51	7439-93-2	
Molybdenum	**0.0085J**	mg/L	0.010	0.00035	1	12/05/24 17:00	12/09/24 20:51	7439-98-7	
Selenium	**0.0011J**	mg/L	0.0050	0.00092	1	12/05/24 17:00	12/09/24 20:51	7782-49-2	
Thallium	**0.00023J**	mg/L	0.0010	0.00020	1	12/05/24 17:00	12/09/24 20:51	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	12/12/24 16:00	12/13/24 09:58	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**528**	mg/L	25.0	25.0	1		12/06/24 12:08		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**145**	mg/L	5.0	5.0	1		12/09/24 17:58		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		12/09/24 17:58		
Alkalinity, Total as CaCO3	**145**	mg/L	5.0	5.0	1		12/09/24 17:58		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		12/07/24 03:56	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**18.6**	mg/L	1.0	0.60	1		12/06/24 13:37	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92767477

Sample: HAM-PT-13 **Lab ID: 92767477007** Collected: 12/02/24 13:17 Received: 12/05/24 11:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.37**	mg/L	0.10	0.050	1		12/06/24 13:37	16984-48-8	
Sulfate	**200**	mg/L	4.0	2.0	4		12/06/24 19:30	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92767477

Sample: HAM-PT-14 **Lab ID: 92767477008** Collected: 12/02/24 14:35 Received: 12/05/24 11:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**14.2**	mg/L	0.040	0.025	1	12/05/24 17:27	12/06/24 16:54	7439-89-6	
Manganese	**2.9**	mg/L	0.040	0.011	1	12/05/24 17:27	12/06/24 16:54	7439-96-5	
Potassium	**6.1**	mg/L	0.50	0.15	1	12/05/24 17:27	12/06/24 16:54	7440-09-7	
Sodium	**8.0**	mg/L	1.0	0.58	1	12/05/24 17:27	12/06/24 16:54	7440-23-5	
Calcium	**137**	mg/L	1.0	0.12	1	12/05/24 17:27	12/06/24 16:54	7440-70-2	
Magnesium	**18.9**	mg/L	0.050	0.012	1	12/05/24 17:27	12/06/24 16:54	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00038	1	12/05/24 17:00	12/09/24 20:55	7440-36-0	
Arsenic	**0.27**	mg/L	0.0050	0.0016	1	12/05/24 17:00	12/09/24 20:55	7440-38-2	
Barium	**0.043**	mg/L	0.0050	0.00019	1	12/05/24 17:00	12/09/24 20:55	7440-39-3	
Beryllium	**0.000056J**	mg/L	0.00050	0.000026	1	12/05/24 17:00	12/09/24 20:55	7440-41-7	
Boron	**0.74**	mg/L	0.050	0.014	1	12/05/24 17:00	12/10/24 17:40	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.000041	1	12/05/24 17:00	12/09/24 20:55	7440-43-9	
Chromium	**0.00036J**	mg/L	0.0050	0.00015	1	12/05/24 17:00	12/09/24 20:55	7440-47-3	
Cobalt	**0.024**	mg/L	0.0050	0.000098	1	12/05/24 17:00	12/09/24 20:55	7440-48-4	
Lead	**0.00015J**	mg/L	0.0010	0.000076	1	12/05/24 17:00	12/09/24 20:55	7439-92-1	
Lithium	**0.054**	mg/L	0.030	0.00028	1	12/05/24 17:00	12/09/24 20:55	7439-93-2	
Molybdenum	**0.016**	mg/L	0.010	0.00035	1	12/05/24 17:00	12/09/24 20:55	7439-98-7	
Selenium	**0.0010J**	mg/L	0.0050	0.00092	1	12/05/24 17:00	12/09/24 20:55	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00020	1	12/05/24 17:00	12/09/24 20:55	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	12/12/24 16:00	12/13/24 10:01	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**560**	mg/L	25.0	25.0	1		12/06/24 12:09		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**149**	mg/L	5.0	5.0	1		12/09/24 18:08		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		12/09/24 18:08		
Alkalinity, Total as CaCO3	**149**	mg/L	5.0	5.0	1		12/09/24 18:08		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		12/07/24 03:56	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**17.8**	mg/L	1.0	0.60	1		12/06/24 19:26	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92767477

Sample: HAM-PT-14 **Lab ID: 92767477008** Collected: 12/02/24 14:35 Received: 12/05/24 11:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.31**	mg/L	0.10	0.050	1		12/06/24 19:26	16984-48-8	
Sulfate	**184**	mg/L	5.0	2.5	5		12/06/24 20:44	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92767477

Sample: HAM-PT-15 **Lab ID: 92767477009** Collected: 12/02/24 16:25 Received: 12/05/24 11:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.38**	mg/L	0.040	0.025	1	12/05/24 17:27	12/06/24 04:51	7439-89-6	
Manganese	**2.4**	mg/L	0.040	0.011	1	12/05/24 17:27	12/06/24 04:51	7439-96-5	
Potassium	**6.1**	mg/L	0.50	0.15	1	12/05/24 17:27	12/06/24 04:51	7440-09-7	
Sodium	**9.3**	mg/L	1.0	0.58	1	12/05/24 17:27	12/06/24 04:51	7440-23-5	
Calcium	**129**	mg/L	1.0	0.12	1	12/05/24 17:27	12/06/24 04:51	7440-70-2	
Magnesium	**14.6**	mg/L	0.050	0.012	1	12/05/24 17:27	12/06/24 04:51	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.00063J**	mg/L	0.0030	0.00038	1	12/05/24 17:00	12/09/24 20:59	7440-36-0	
Arsenic	**0.024**	mg/L	0.0050	0.0016	1	12/05/24 17:00	12/09/24 20:59	7440-38-2	
Barium	**0.051**	mg/L	0.0050	0.00019	1	12/05/24 17:00	12/09/24 20:59	7440-39-3	
Beryllium	**0.000062J**	mg/L	0.00050	0.000026	1	12/05/24 17:00	12/09/24 20:59	7440-41-7	
Boron	**0.86**	mg/L	0.050	0.014	1	12/05/24 17:00	12/10/24 17:44	7440-42-8	
Cadmium	**0.00025J**	mg/L	0.00050	0.000041	1	12/05/24 17:00	12/09/24 20:59	7440-43-9	
Chromium	**0.00026J**	mg/L	0.0050	0.00015	1	12/05/24 17:00	12/09/24 20:59	7440-47-3	
Cobalt	**0.025**	mg/L	0.0050	0.000098	1	12/05/24 17:00	12/09/24 20:59	7440-48-4	
Lead	ND	mg/L	0.0010	0.000076	1	12/05/24 17:00	12/09/24 20:59	7439-92-1	
Lithium	**0.041**	mg/L	0.030	0.00028	1	12/05/24 17:00	12/09/24 20:59	7439-93-2	
Molybdenum	**0.015**	mg/L	0.010	0.00035	1	12/05/24 17:00	12/09/24 20:59	7439-98-7	
Selenium	**0.0017J**	mg/L	0.0050	0.00092	1	12/05/24 17:00	12/09/24 20:59	7782-49-2	
Thallium	**0.00044J**	mg/L	0.0010	0.00020	1	12/05/24 17:00	12/09/24 20:59	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	12/12/24 16:00	12/13/24 10:04	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**497**	mg/L	25.0	25.0	1		12/06/24 12:09		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**141**	mg/L	5.0	5.0	1		12/09/24 18:18		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		12/09/24 18:18		
Alkalinity, Total as CaCO3	**141**	mg/L	5.0	5.0	1		12/09/24 18:18		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		12/07/24 03:57	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**17.4**	mg/L	1.0	0.60	1		12/06/24 19:42	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92767477

Sample: HAM-PT-15 **Lab ID: 92767477009** Collected: 12/02/24 16:25 Received: 12/05/24 11:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.37**	mg/L	0.10	0.050	1		12/06/24 19:42	16984-48-8	
Sulfate	**175**	mg/L	4.0	2.0	4		12/06/24 21:31	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92767477

Sample: HAM-AP1-EB-01 **Lab ID: 92767477010** Collected: 12/03/24 15:50 Received: 12/05/24 11:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.037J**	mg/L	0.040	0.025	1	12/05/24 17:27	12/06/24 05:01	7439-89-6	
Manganese	ND	mg/L	0.040	0.011	1	12/05/24 17:27	12/06/24 05:01	7439-96-5	
Potassium	ND	mg/L	0.50	0.15	1	12/05/24 17:27	12/06/24 05:01	7440-09-7	
Sodium	**1.1**	mg/L	1.0	0.58	1	12/05/24 17:27	12/06/24 05:01	7440-23-5	
Calcium	**0.62J**	mg/L	1.0	0.12	1	12/05/24 17:27	12/06/24 05:01	7440-70-2	
Magnesium	**0.14**	mg/L	0.050	0.012	1	12/05/24 17:27	12/06/24 05:01	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00038	1	12/05/24 17:00	12/09/24 21:07	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0016	1	12/05/24 17:00	12/09/24 21:07	7440-38-2	
Barium	**0.0037J**	mg/L	0.0050	0.00019	1	12/05/24 17:00	12/10/24 16:14	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000026	1	12/05/24 17:00	12/09/24 21:07	7440-41-7	
Boron	ND	mg/L	0.050	0.014	1	12/05/24 17:00	12/10/24 16:14	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.000041	1	12/05/24 17:00	12/09/24 21:07	7440-43-9	
Chromium	**0.00078J**	mg/L	0.0050	0.00015	1	12/05/24 17:00	12/09/24 21:07	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.000098	1	12/05/24 17:00	12/09/24 21:07	7440-48-4	
Lead	**0.00047J**	mg/L	0.0010	0.000076	1	12/05/24 17:00	12/09/24 21:07	7439-92-1	
Lithium	ND	mg/L	0.030	0.00028	1	12/05/24 17:00	12/09/24 21:07	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00035	1	12/05/24 17:00	12/09/24 21:07	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00092	1	12/05/24 17:00	12/09/24 21:07	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00020	1	12/05/24 17:00	12/09/24 21:07	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	12/12/24 16:00	12/13/24 10:06	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**40.0**	mg/L	25.0	25.0	1		12/09/24 11:56		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		12/09/24 19:55		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		12/09/24 19:55		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		12/09/24 19:55		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		12/07/24 04:03	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		12/06/24 12:34	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92767477

Sample: HAM-AP1-EB-01 **Lab ID: 92767477010** Collected: 12/03/24 15:50 Received: 12/05/24 11:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	ND	mg/L	0.10	0.050	1		12/06/24 12:34	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		12/06/24 12:34	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92767477

Sample: HAM-AP1-FB-01 **Lab ID: 92767477011** Collected: 12/03/24 15:45 Received: 12/05/24 11:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	12/05/24 17:27	12/06/24 05:06	7439-89-6	
Manganese	ND	mg/L	0.040	0.011	1	12/05/24 17:27	12/06/24 05:06	7439-96-5	
Potassium	ND	mg/L	0.50	0.15	1	12/05/24 17:27	12/06/24 05:06	7440-09-7	
Sodium	ND	mg/L	1.0	0.58	1	12/05/24 17:27	12/06/24 05:06	7440-23-5	
Calcium	**0.18J**	mg/L	1.0	0.12	1	12/05/24 17:27	12/06/24 05:06	7440-70-2	
Magnesium	**0.027J**	mg/L	0.050	0.012	1	12/05/24 17:27	12/06/24 05:06	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00038	1	12/05/24 17:00	12/09/24 21:19	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0016	1	12/05/24 17:00	12/09/24 21:19	7440-38-2	
Barium	**0.00084J**	mg/L	0.0050	0.00019	1	12/05/24 17:00	12/09/24 21:19	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000026	1	12/05/24 17:00	12/09/24 21:19	7440-41-7	
Boron	**0.018J**	mg/L	0.050	0.014	1	12/05/24 17:00	12/09/24 21:19	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.000041	1	12/05/24 17:00	12/09/24 21:19	7440-43-9	
Chromium	**0.00033J**	mg/L	0.0050	0.00015	1	12/05/24 17:00	12/09/24 21:19	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.000098	1	12/05/24 17:00	12/09/24 21:19	7440-48-4	
Lead	**0.00010J**	mg/L	0.0010	0.000076	1	12/05/24 17:00	12/09/24 21:19	7439-92-1	
Lithium	ND	mg/L	0.030	0.00028	1	12/05/24 17:00	12/09/24 21:19	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00035	1	12/05/24 17:00	12/09/24 21:19	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00092	1	12/05/24 17:00	12/09/24 21:19	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00020	1	12/05/24 17:00	12/09/24 21:19	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	12/12/24 16:00	12/13/24 10:09	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		12/09/24 11:56		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		12/09/24 20:00		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		12/09/24 20:00		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		12/09/24 20:00		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		12/07/24 04:03	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		12/06/24 12:50	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92767477

Sample: HAM-AP1-FB-01 **Lab ID: 92767477011** Collected: 12/03/24 15:45 Received: 12/05/24 11:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	ND	mg/L	0.10	0.050	1		12/06/24 12:50	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		12/06/24 12:50	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92767477

Sample: HAM-AP1-FD-01 **Lab ID: 92767477012** Collected: 12/03/24 00:00 Received: 12/05/24 11:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	**0.029J**	mg/L	0.040	0.025	1	12/05/24 17:27	12/06/24 05:11	7439-89-6	
Manganese	**0.37**	mg/L	0.040	0.011	1	12/05/24 17:27	12/06/24 05:11	7439-96-5	
Potassium	**7.1**	mg/L	0.50	0.15	1	12/05/24 17:27	12/06/24 05:11	7440-09-7	
Sodium	**8.9**	mg/L	1.0	0.58	1	12/05/24 17:27	12/06/24 05:11	7440-23-5	
Calcium	**113**	mg/L	1.0	0.12	1	12/05/24 17:27	12/06/24 05:11	7440-70-2	
Magnesium	**13.8**	mg/L	0.050	0.012	1	12/05/24 17:27	12/06/24 05:11	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00038	1	12/05/24 17:00	12/09/24 21:23	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0016	1	12/05/24 17:00	12/09/24 21:23	7440-38-2	
Barium	**0.047**	mg/L	0.0050	0.00019	1	12/05/24 17:00	12/09/24 21:23	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000026	1	12/05/24 17:00	12/09/24 21:23	7440-41-7	
Boron	**1.8**	mg/L	0.25	0.069	5	12/05/24 17:00	12/11/24 13:45	7440-42-8	
Cadmium	**0.00013J**	mg/L	0.00050	0.000041	1	12/05/24 17:00	12/09/24 21:23	7440-43-9	
Chromium	**0.00030J**	mg/L	0.0050	0.00015	1	12/05/24 17:00	12/09/24 21:23	7440-47-3	
Cobalt	**0.0015J**	mg/L	0.0050	0.000098	1	12/05/24 17:00	12/09/24 21:23	7440-48-4	
Lead	ND	mg/L	0.0010	0.000076	1	12/05/24 17:00	12/09/24 21:23	7439-92-1	
Lithium	**0.0010J**	mg/L	0.030	0.00028	1	12/05/24 17:00	12/09/24 21:23	7439-93-2	
Molybdenum	**0.17**	mg/L	0.010	0.00035	1	12/05/24 17:00	12/09/24 21:23	7439-98-7	
Selenium	**0.0012J**	mg/L	0.0050	0.00092	1	12/05/24 17:00	12/09/24 21:23	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00020	1	12/05/24 17:00	12/09/24 21:23	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	12/12/24 16:00	12/13/24 10:11	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**468**	mg/L	25.0	25.0	1		12/09/24 11:57		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**121**	mg/L	5.0	5.0	1		12/09/24 20:13		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		12/09/24 20:13		
Alkalinity, Total as CaCO3	**121**	mg/L	5.0	5.0	1		12/09/24 20:13		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		12/07/24 04:04	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**46.0**	mg/L	1.0	0.60	1		12/07/24 18:43	16887-00-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92767477

Sample: HAM-AP1-FD-01 **Lab ID: 92767477012** Collected: 12/03/24 00:00 Received: 12/05/24 11:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.29**	mg/L	0.10	0.050	1		12/07/24 18:43	16984-48-8	
Sulfate	**132**	mg/L	3.0	1.5	3		12/08/24 04:55	14808-79-8	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92767477

QC Batch: 900606
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92767477001, 92767477002, 92767477003, 92767477004, 92767477005, 92767477006, 92767477007, 92767477008, 92767477009, 92767477010, 92767477011, 92767477012

METHOD BLANK: 4635885 Matrix: Water
Associated Lab Samples: 92767477001, 92767477002, 92767477003, 92767477004, 92767477005, 92767477006, 92767477007, 92767477008, 92767477009, 92767477010, 92767477011, 92767477012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	12/06/24 03:38	
Iron	mg/L	ND	0.040	0.025	12/06/24 03:38	
Magnesium	mg/L	ND	0.050	0.012	12/06/24 03:38	
Manganese	mg/L	ND	0.040	0.011	12/06/24 03:38	
Potassium	mg/L	ND	0.50	0.15	12/06/24 03:38	
Sodium	mg/L	ND	1.0	0.58	12/06/24 03:38	

LABORATORY CONTROL SAMPLE: 4635886

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.1	107	80-120	
Iron	mg/L	1	1.1	107	80-120	
Magnesium	mg/L	1	1.1	106	80-120	
Manganese	mg/L	1	1.1	107	80-120	
Potassium	mg/L	1	1.1	111	80-120	
Sodium	mg/L	1	1.1	110	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4635887 4635888

Parameter	Units	92767477001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	129	1	1	130	128	47	-83	75-125	1	20	M1
Iron	mg/L	7.7	1	1	8.6	8.7	98	99	75-125	0	20	
Magnesium	mg/L	17.7	1	1	18.8	18.5	111	87	75-125	1	20	
Manganese	mg/L	3.4	1	1	4.3	4.3	90	90	75-125	0	20	
Potassium	mg/L	6.0	1	1	7.1	7.1	114	112	75-125	0	20	
Sodium	mg/L	8.5	1	1	9.6	9.5	112	104	75-125	1	20	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92767477

QC Batch: 900605
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92767477001, 92767477002, 92767477003, 92767477004, 92767477005, 92767477006, 92767477007, 92767477008, 92767477009, 92767477010, 92767477011, 92767477012

METHOD BLANK: 4635874 Matrix: Water
Associated Lab Samples: 92767477001, 92767477002, 92767477003, 92767477004, 92767477005, 92767477006, 92767477007, 92767477008, 92767477009, 92767477010, 92767477011, 92767477012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00038	12/10/24 15:58	
Arsenic	mg/L	ND	0.0050	0.0016	12/10/24 15:58	
Barium	mg/L	ND	0.0050	0.00019	12/10/24 15:58	
Beryllium	mg/L	ND	0.00050	0.000026	12/10/24 15:58	
Boron	mg/L	ND	0.050	0.014	12/10/24 15:58	
Cadmium	mg/L	ND	0.00050	0.000041	12/10/24 15:58	
Chromium	mg/L	ND	0.0050	0.00015	12/10/24 15:58	
Cobalt	mg/L	ND	0.0050	0.000098	12/10/24 15:58	
Lead	mg/L	ND	0.0010	0.000076	12/10/24 15:58	
Lithium	mg/L	ND	0.030	0.00028	12/10/24 15:58	
Molybdenum	mg/L	ND	0.010	0.00035	12/10/24 15:58	
Selenium	mg/L	ND	0.0050	0.00092	12/10/24 15:58	
Thallium	mg/L	ND	0.0010	0.00020	12/10/24 15:58	

LABORATORY CONTROL SAMPLE: 4635875

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.10	101	80-120	
Arsenic	mg/L	0.1	0.10	100	80-120	
Barium	mg/L	0.1	0.10	102	80-120	
Beryllium	mg/L	0.1	0.10	102	80-120	
Boron	mg/L	1	1.1	110	80-120	
Cadmium	mg/L	0.1	0.099	99	80-120	
Chromium	mg/L	0.1	0.10	104	80-120	
Cobalt	mg/L	0.1	0.10	104	80-120	
Lead	mg/L	0.1	0.10	103	80-120	
Lithium	mg/L	0.1	0.10	103	80-120	
Molybdenum	mg/L	0.1	0.10	104	80-120	
Selenium	mg/L	0.1	0.099	99	80-120	
Thallium	mg/L	0.1	0.10	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4635876 4635877

Parameter	Units	92766149001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	0.00092J	0.1	0.1	0.097	0.098	96	97	75-125	1	20	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92767477

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4635876 4635877

Parameter	Units	92766149001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	0.0045J	0.1	0.1	0.11	0.11	106	106	75-125	0	20	
Barium	mg/L	0.019	0.1	0.1	0.12	0.12	105	106	75-125	0	20	
Beryllium	mg/L	0.0037	0.1	0.1	0.097	0.099	94	95	75-125	2	20	
Boron	mg/L	23.8	1	1	24.3	23.6	51	-17	75-125	3	20	M1
Cadmium	mg/L	0.015	0.1	0.1	0.11	0.11	96	97	75-125	1	20	
Chromium	mg/L	0.00041J	0.1	0.1	0.11	0.11	109	109	75-125	0	20	
Cobalt	mg/L	0.0075	0.1	0.1	0.11	0.12	107	109	75-125	1	20	
Lead	mg/L	0.00033J	0.1	0.1	0.088	0.090	88	90	75-125	2	20	
Lithium	mg/L	0.0032J	0.1	0.1	0.10	0.11	101	102	75-125	1	20	
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.11	104	106	75-125	1	20	
Selenium	mg/L	0.0022J	0.1	0.1	0.11	0.11	106	108	75-125	1	20	
Thallium	mg/L	ND	0.1	0.1	0.091	0.093	91	93	75-125	2	20	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92767477

QC Batch: 902280
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92767477001, 92767477002, 92767477003, 92767477004, 92767477005, 92767477006, 92767477007, 92767477008, 92767477009, 92767477010, 92767477011, 92767477012

METHOD BLANK: 4643843 Matrix: Water
Associated Lab Samples: 92767477001, 92767477002, 92767477003, 92767477004, 92767477005, 92767477006, 92767477007, 92767477008, 92767477009, 92767477010, 92767477011, 92767477012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	12/13/24 09:25	

LABORATORY CONTROL SAMPLE: 4643844

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0022	89	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4643845 4643846

Parameter	Units	92767477002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0022	0.0021	86	83	75-125	4	20	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92767477

QC Batch: 900794 | Analysis Method: SM 2540C-2015
QC Batch Method: SM 2540C-2015 | Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92767477001, 92767477002, 92767477007, 92767477008, 92767477009

METHOD BLANK: 4636624 Matrix: Water
Associated Lab Samples: 92767477001, 92767477002, 92767477007, 92767477008, 92767477009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	12/06/24 12:02	

LABORATORY CONTROL SAMPLE: 4636625

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	403	101	80-120	

SAMPLE DUPLICATE: 4636626

Parameter	Units	92767533001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1150	1220	6	10	

SAMPLE DUPLICATE: 4636627

Parameter	Units	92767550007 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	2760	2720	2	10	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92767477

QC Batch: 901268 | Analysis Method: SM 2540C-2015
QC Batch Method: SM 2540C-2015 | Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92767477003, 92767477004, 92767477005, 92767477006, 92767477010, 92767477011, 92767477012

METHOD BLANK: 4638882 Matrix: Water
Associated Lab Samples: 92767477003, 92767477004, 92767477005, 92767477006, 92767477010, 92767477011, 92767477012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	12/09/24 11:52	

LABORATORY CONTROL SAMPLE: 4638883

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	405	101	80-120	

SAMPLE DUPLICATE: 4638884

Parameter	Units	92766727005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	87.0	82.0	6	10	

SAMPLE DUPLICATE: 4638885

Parameter	Units	92767477011 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	ND	ND		10	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92767477

QC Batch: 901259 | Analysis Method: SM 2320B-2011
QC Batch Method: SM 2320B-2011 | Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92767477001, 92767477002, 92767477007, 92767477008, 92767477009

METHOD BLANK: 4638849 Matrix: Water
Associated Lab Samples: 92767477001, 92767477002, 92767477007, 92767477008, 92767477009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	12/09/24 15:34	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	12/09/24 15:34	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	12/09/24 15:34	

LABORATORY CONTROL SAMPLE: 4638850

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.7	103	80-120	

LABORATORY CONTROL SAMPLE: 4638851

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	52.3	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4638852 4638853

Parameter	Units	92766964006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	22.7	50	50	72.0	71.5	99	98	80-120	1	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4638854 4638855

Parameter	Units	92766964008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	25.1	50	50	74.0	75.3	98	100	80-120	2	25	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92767477

QC Batch: 901260 | Analysis Method: SM 2320B-2011
QC Batch Method: SM 2320B-2011 | Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92767477003, 92767477004, 92767477005, 92767477006, 92767477010, 92767477011, 92767477012

METHOD BLANK: 4638858 Matrix: Water
Associated Lab Samples: 92767477003, 92767477004, 92767477005, 92767477006, 92767477010, 92767477011, 92767477012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	12/09/24 19:00	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	12/09/24 19:00	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	12/09/24 19:00	

LABORATORY CONTROL SAMPLE: 4638859

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.8	104	80-120	

LABORATORY CONTROL SAMPLE: 4638860

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	52.1	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4638861 4638862

Parameter	Units	92767661014 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	42.9	50	50	92.7	91.6	100	97	80-120	1	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4638863 4638864

Parameter	Units	92767674002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	85.9	50	50	132	134	93	97	80-120	1	25	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92767477

QC Batch: 900997
QC Batch Method: SM 4500-S2D-2011
Analysis Method: SM 4500-S2D-2011
Analysis Description: 4500S2D Sulfide Water
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92767477001, 92767477002, 92767477007, 92767477008, 92767477009

METHOD BLANK: 4638176 Matrix: Water
Associated Lab Samples: 92767477001, 92767477002, 92767477007, 92767477008, 92767477009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	0.022	12/07/24 03:46	

LABORATORY CONTROL SAMPLE: 4638177

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	0.51	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4638178 4638179

Parameter	Units	92767533001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.49	0.50	95	97	80-120	2	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4638180 4638181

Parameter	Units	92767550007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.44	0.47	86	92	80-120	7	10	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92767477

QC Batch: 900998 — Analysis Method: SM 4500-S2D-2011
QC Batch Method: SM 4500-S2D-2011 — Analysis Description: 4500S2D Sulfide Water
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92767477003, 92767477004, 92767477005, 92767477006, 92767477010, 92767477011, 92767477012

METHOD BLANK: 4638182 — Matrix: Water
Associated Lab Samples: 92767477003, 92767477004, 92767477005, 92767477006, 92767477010, 92767477011, 92767477012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	0.022	12/07/24 03:59	

LABORATORY CONTROL SAMPLE: 4638183

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	0.51	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4638184 4638185

Parameter	Units	92767477003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.52	0.52	101	102	80-120	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4638186 4638187

Parameter	Units	92767830002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.51	0.51	99	101	80-120	1	10	

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REPORT OF LABORATORY ANALYSIS

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(704)875-9092

QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92767477

QC Batch: 900636
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92767477001, 92767477002, 92767477003, 92767477004, 92767477005, 92767477006, 92767477007

METHOD BLANK: 4636162 Matrix: Water
Associated Lab Samples: 92767477001, 92767477002, 92767477003, 92767477004, 92767477005, 92767477006, 92767477007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	12/05/24 22:24	
Fluoride	mg/L	ND	0.10	0.050	12/05/24 22:24	
Sulfate	mg/L	ND	1.0	0.50	12/05/24 22:24	

LABORATORY CONTROL SAMPLE: 4636163

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.1	100	90-110	
Fluoride	mg/L	2.5	2.5	101	90-110	
Sulfate	mg/L	50	51.1	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4636164 4636165

Parameter	Units	92767407009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	8.0	50	50	59.6	63.5	103	111	90-110	6	10	M1
Fluoride	mg/L	0.074J	2.5	2.5	2.5	2.7	99	106	90-110	7	10	
Sulfate	mg/L	9.9	50	50	61.8	66.0	104	112	90-110	7	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4636166 4636167

Parameter	Units	92767407011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	23.9	50	50	76.1	78.1	104	108	90-110	3	10	
Fluoride	mg/L	0.11	2.5	2.5	2.5	2.6	96	100	90-110	4	10	
Sulfate	mg/L	6.2	50	50	59.2	61.2	106	110	90-110	3	10	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92767477

QC Batch: 900731
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92767477008, 92767477009, 92767477010, 92767477011

METHOD BLANK: 4636419 Matrix: Water
Associated Lab Samples: 92767477008, 92767477009, 92767477010, 92767477011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	12/06/24 12:03	
Fluoride	mg/L	ND	0.10	0.050	12/06/24 12:03	
Sulfate	mg/L	ND	1.0	0.50	12/06/24 12:03	

LABORATORY CONTROL SAMPLE: 4636420

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.5	101	90-110	
Fluoride	mg/L	2.5	2.5	98	90-110	
Sulfate	mg/L	50	50.2	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4636421 4636422

Parameter	Units	92767505005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	7.8	50	50	58.2	59.5	101	103	90-110	2	10	
Fluoride	mg/L	0.092J	2.5	2.5	2.6	2.6	99	101	90-110	3	10	
Sulfate	mg/L	5.0	50	50	55.3	56.5	100	103	90-110	2	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4636423 4636424

Parameter	Units	92767477011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	ND	50	50	50.5	51.1	101	102	90-110	1	10	
Fluoride	mg/L	ND	2.5	2.5	2.4	2.5	98	99	90-110	1	10	
Sulfate	mg/L	ND	50	50	49.7	50.3	99	101	90-110	1	10	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92767477

QC Batch: 901028
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92767477012

METHOD BLANK: 4638247 Matrix: Water
Associated Lab Samples: 92767477012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	12/07/24 13:29	
Fluoride	mg/L	ND	0.10	0.050	12/07/24 13:29	
Sulfate	mg/L	ND	1.0	0.50	12/07/24 13:29	

LABORATORY CONTROL SAMPLE: 4638248

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.6	99	90-110	
Fluoride	mg/L	2.5	2.5	101	90-110	
Sulfate	mg/L	50	50.4	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4638249 4638250

Parameter	Units	92767805006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	6.2	50	50	52.9	53.6	93	95	90-110	1	10	
Fluoride	mg/L	0.075J	2.5	2.5	2.5	2.5	97	98	90-110	2	10	
Sulfate	mg/L	2.7	50	50	50.1	50.8	95	96	90-110	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4638251 4638252

Parameter	Units	92767661002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	5.1	50	50	52.0	52.3	94	94	90-110	1	10	
Fluoride	mg/L	0.21	2.5	2.5	2.7	2.6	100	96	90-110	4	10	
Sulfate	mg/L	293	50	50	336	333	85	80	90-110	1	10	M1

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QUALIFIERS

Project: Hammond AP-1
Pace Project No.: 92767477

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Hammond AP-1
Pace Project No.: 92767477

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92767477001	**HAM-PT-07**	EPA 3010A	900606	EPA 6010D	900663
92767477002	**HAM-PT-08**	EPA 3010A	900606	EPA 6010D	900663
92767477003	**HAM-PT-09**	EPA 3010A	900606	EPA 6010D	900663
92767477004	**HAM-PT-10**	EPA 3010A	900606	EPA 6010D	900663
92767477005	**HAM-PT-11**	EPA 3010A	900606	EPA 6010D	900663
92767477006	**HAM-PT-12**	EPA 3010A	900606	EPA 6010D	900663
92767477007	**HAM-PT-13**	EPA 3010A	900606	EPA 6010D	900663
92767477008	**HAM-PT-14**	EPA 3010A	900606	EPA 6010D	900663
92767477009	**HAM-PT-15**	EPA 3010A	900606	EPA 6010D	900663
92767477010	**HAM-AP1-EB-01**	EPA 3010A	900606	EPA 6010D	900663
92767477011	**HAM-AP1-FB-01**	EPA 3010A	900606	EPA 6010D	900663
92767477012	**HAM-AP1-FD-01**	EPA 3010A	900606	EPA 6010D	900663
92767477001	**HAM-PT-07**	EPA 3005A	900605	EPA 6020B	900671
92767477002	**HAM-PT-08**	EPA 3005A	900605	EPA 6020B	900671
92767477003	**HAM-PT-09**	EPA 3005A	900605	EPA 6020B	900671
92767477004	**HAM-PT-10**	EPA 3005A	900605	EPA 6020B	900671
92767477005	**HAM-PT-11**	EPA 3005A	900605	EPA 6020B	900671
92767477006	**HAM-PT-12**	EPA 3005A	900605	EPA 6020B	900671
92767477007	**HAM-PT-13**	EPA 3005A	900605	EPA 6020B	900671
92767477008	**HAM-PT-14**	EPA 3005A	900605	EPA 6020B	900671
92767477009	**HAM-PT-15**	EPA 3005A	900605	EPA 6020B	900671
92767477010	**HAM-AP1-EB-01**	EPA 3005A	900605	EPA 6020B	900671
92767477011	**HAM-AP1-FB-01**	EPA 3005A	900605	EPA 6020B	900671
92767477012	**HAM-AP1-FD-01**	EPA 3005A	900605	EPA 6020B	900671
92767477001	**HAM-PT-07**	EPA 7470A	902280	EPA 7470A	902462
92767477002	**HAM-PT-08**	EPA 7470A	902280	EPA 7470A	902462
92767477003	**HAM-PT-09**	EPA 7470A	902280	EPA 7470A	902462
92767477004	**HAM-PT-10**	EPA 7470A	902280	EPA 7470A	902462
92767477005	**HAM-PT-11**	EPA 7470A	902280	EPA 7470A	902462
92767477006	**HAM-PT-12**	EPA 7470A	902280	EPA 7470A	902462
92767477007	**HAM-PT-13**	EPA 7470A	902280	EPA 7470A	902462
92767477008	**HAM-PT-14**	EPA 7470A	902280	EPA 7470A	902462
92767477009	**HAM-PT-15**	EPA 7470A	902280	EPA 7470A	902462
92767477010	**HAM-AP1-EB-01**	EPA 7470A	902280	EPA 7470A	902462
92767477011	**HAM-AP1-FB-01**	EPA 7470A	902280	EPA 7470A	902462
92767477012	**HAM-AP1-FD-01**	EPA 7470A	902280	EPA 7470A	902462
92767477001	**HAM-PT-07**	SM 2540C-2015	900794		
92767477002	**HAM-PT-08**	SM 2540C-2015	900794		
92767477003	**HAM-PT-09**	SM 2540C-2015	901268		
92767477004	**HAM-PT-10**	SM 2540C-2015	901268		
92767477005	**HAM-PT-11**	SM 2540C-2015	901268		
92767477006	**HAM-PT-12**	SM 2540C-2015	901268		
92767477007	**HAM-PT-13**	SM 2540C-2015	900794		
92767477008	**HAM-PT-14**	SM 2540C-2015	900794		
92767477009	**HAM-PT-15**	SM 2540C-2015	900794		
92767477010	**HAM-AP1-EB-01**	SM 2540C-2015	901268		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Hammond AP-1
Pace Project No.: 92767477

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92767477011	**HAM-AP1-FB-01**	SM 2540C-2015	901268		
92767477012	**HAM-AP1-FD-01**	SM 2540C-2015	901268		
92767477001	**HAM-PT-07**	SM 2320B-2011	901259		
92767477002	**HAM-PT-08**	SM 2320B-2011	901259		
92767477003	**HAM-PT-09**	SM 2320B-2011	901260		
92767477004	**HAM-PT-10**	SM 2320B-2011	901260		
92767477005	**HAM-PT-11**	SM 2320B-2011	901260		
92767477006	**HAM-PT-12**	SM 2320B-2011	901260		
92767477007	**HAM-PT-13**	SM 2320B-2011	901259		
92767477008	**HAM-PT-14**	SM 2320B-2011	901259		
92767477009	**HAM-PT-15**	SM 2320B-2011	901259		
92767477010	**HAM-AP1-EB-01**	SM 2320B-2011	901260		
92767477011	**HAM-AP1-FB-01**	SM 2320B-2011	901260		
92767477012	**HAM-AP1-FD-01**	SM 2320B-2011	901260		
92767477001	**HAM-PT-07**	SM 4500-S2D-2011	900997		
92767477002	**HAM-PT-08**	SM 4500-S2D-2011	900997		
92767477003	**HAM-PT-09**	SM 4500-S2D-2011	900998		
92767477004	**HAM-PT-10**	SM 4500-S2D-2011	900998		
92767477005	**HAM-PT-11**	SM 4500-S2D-2011	900998		
92767477006	**HAM-PT-12**	SM 4500-S2D-2011	900998		
92767477007	**HAM-PT-13**	SM 4500-S2D-2011	900997		
92767477008	**HAM-PT-14**	SM 4500-S2D-2011	900997		
92767477009	**HAM-PT-15**	SM 4500-S2D-2011	900997		
92767477010	**HAM-AP1-EB-01**	SM 4500-S2D-2011	900998		
92767477011	**HAM-AP1-FB-01**	SM 4500-S2D-2011	900998		
92767477012	**HAM-AP1-FD-01**	SM 4500-S2D-2011	900998		
92767477001	**HAM-PT-07**	EPA 300.0 Rev 2.1 1993	900636		
92767477002	**HAM-PT-08**	EPA 300.0 Rev 2.1 1993	900636		
92767477003	**HAM-PT-09**	EPA 300.0 Rev 2.1 1993	900636		
92767477004	**HAM-PT-10**	EPA 300.0 Rev 2.1 1993	900636		
92767477005	**HAM-PT-11**	EPA 300.0 Rev 2.1 1993	900636		
92767477006	**HAM-PT-12**	EPA 300.0 Rev 2.1 1993	900636		
92767477007	**HAM-PT-13**	EPA 300.0 Rev 2.1 1993	900636		
92767477008	**HAM-PT-14**	EPA 300.0 Rev 2.1 1993	900731		
92767477009	**HAM-PT-15**	EPA 300.0 Rev 2.1 1993	900731		
92767477010	**HAM-AP1-EB-01**	EPA 300.0 Rev 2.1 1993	900731		
92767477011	**HAM-AP1-FB-01**	EPA 300.0 Rev 2.1 1993	900731		
92767477012	**HAM-AP1-FD-01**	EPA 300.0 Rev 2.1 1993	901028		

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Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt
	Effective Date: 05/24/2024

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Me

WO# : 92767477

92767477

Sample Condition Upon Receipt

Client Name: GA Power

Project #:

Courier: ☐ Commercial ☑ Fed Ex ☐ UPS ☐ USPS ☑ Pace ☐ Client ☐ Other:

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No ☑ N/A

Date/Initials Person Examining Contents: 12/5/24 KH

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 230

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 3.1 Correction Factor: Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 3.1

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix:	12/5/24 WW			
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

Pace ANALYTICAL SERVICES

DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

WO#: 92767477

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg
**Bottom half of box is to list number of bottles
***Check all unpreserved Nitrates for chlorine

Project #

PM: BV Due Date: 12/19/24
CLIENT: 92- GP-HAM

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Client_____ Profile/EZ (Circle one)_____ Notes_____

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)		BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
CC																														
1		2	1				1	1																						
2		2	1				1	1																						
3		2	1				1	1																						
4		2	1				1	1																						
5		2	1				1	1																						
6		2	1				1	1																						
7		2	1				1	1																						
8		2	1				1	1																						
9		2	1				1	1																						
10		2	1				1	1																						
11		2	1				1	1																						
12		2	1				1	1																						

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

Pace Analytical
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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: of

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Geosyntec Contacts	Company Name:	
				Address:	
Email To:	SCS Contacts	Purchase Order No.:	GPC82474-0001	Pace Quote Reference:	
Phone:	Fax:	Project Name:	Hammond AP-1	Pace Project Manager:	Bonnie Vang
Requested Due Date/TAT:	10 Day	Project Number:		Pace Profile #:	16483

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☑ OTHER CCR

Site Location STATE: GA

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE DATE	COLLECTED COMPOSITE TIME	COLLECTED COMPOSITE DATE	COLLECTED COMPOSITE TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	Chloride, Fluoride, Sulfate	Full App. III and IV metals	Major Ions (Profile 10839-2)	TDS	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 92767477
																		Y/N	N	N	N	N		
1	HAM-PT-07	WG	G	12/2/2024	1501			19	5	3		1					1		X	X	X	X	N	001
2	HAM-PT-08	WG	G	12/2/2024	1218			19	5	3		1					1		X	X	X	X	N	002
3	HAM-PT-09	WG	G	12/3/2024	1320			17	5	3		1					1		X	X	X	X	N	003
4	HAM-PT-10	WG	G	12/3/2024	1157			18	5	3		1					1		X	X	X	X	N	004
5	HAM-PT-11	WG	G	12/3/2024	1437			17	5	3		1					1		X	X	X	X	N	005
6	HAM-PT-12	WG	G	12/3/2024	1357			18	5	3		1					1		X	X	X	X	N	006
7	HAM-PT-13	WG	G	12/2/2024	1317			19	5	3		1					1		X	X	X	X	N	007
8	HAM-PT-14	WG	G	12/2/2024	1435			18	5	3		1					1		X	X	X	X	N	008
9	HAM-PT-15	WG	G	12/2/2024	1625			18	5	3		1					1		X	X	X	X	N	009
10	HAM-AP1-EB-01	WQ	G	12/3/2024	1550			18	5	3		1					1		X	X	X	X	N	010
11	HAM-AP1-FB-01	WQ	G	12/3/2024	1545			18	5	3		1					1		X	X	X	X	N	011
12	HAM-AP1-FD-01	WG	G	12/3/2024	0000			18	5	3		1					1		X	X	X	X	N	012

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Task Code: HAM-CCR-CA-20241202	Zain Webb / Geosyntec	12/5/24	9:17	Ryan Willian / Pace	12/5/24	0917	
	Ryan Willian / Pace	12/5/24	1135	Claude Hinds	12/5/24	1135	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Zain Webb / Geosyntec Consultants, Inc.

SIGNATURE of SAMPLER: Zain Webb DATE Signed (MM/DD/YY): 12/3/24

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

January 28, 2025

Kristen Jurinko
Southern Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, GA 30308

RE: Project: Hammond AP-1
Pace Project No.: 92772942

Dear Kristen Jurinko:

Enclosed are the analytical results for sample(s) received by the laboratory on January 08, 2025. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Asheville
- Pace Analytical Services - Peachtree Corners, GA
- Pace Analytical Services - West Columbia

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Bonnie Vang
bonnie.vang@pacelabs.com
704-977-0968
Project Manager

Enclosures

cc: Kip Gray, Geosyntec
Christine Hug, Geosyntec Consultants, Inc.
Thomas Kessler, Geosyntec Consultants
Whitney Law, Geosyntec Consultants
Laura Midkiff, Southern Company
Caroline Nelson, Geosyntec Consultants, Inc
Jamie Newsome, Geosyntec Consultants
Zain Webb, Geosyntec Consultants

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Hammond AP-1
Pace Project No.: 92772942

Pace Analytical Services Asheville
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Laboratory ID: 99030
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners
110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812
North Carolina Certification #: 381
South Carolina Certification #: 98011001
Virginia Certification #: 460204

Pace Analytical Services West Columbia
106 Vantage Point Drive, West Columbia, SC 29172
Alaska Dept. of Energy Conservation, Cert# 20-002
California ELAP, cert# 3049
DoD, DoD QSM V5.4, cert# I.2224
DOE, DoD/DOE QSM V5.4, cert# I.2224.01
Florida, Dept. of Health, cert# E87653-70
Georgia, Env. Protection Division, cert# E87653
Illinois, EPA NELAP, cert# 2000552024-9
Kansas, Dept. of Health and Environment, cert# E-10417
Kentucky, Dept. for Env. Protection, UST, cert# 103582
Kentucky, Dept. for Env. Protection, cert# 98037
Louisiana, Dept. of Environmental Quality, cert# 5125
North Carolina, DEQ, Water Resources, cert# 329
New Jersey, Dept. of Env. Protection, cert# NLC 240005
Oklahoma, Dept. of Env. Quality, cert# 2023-175
Oregon, ELAP, cert# 4181-006
Pennsylvania, Dept. of Env. Protection, cert# 003
South Carolina, Dept. of Env. Services, cert# 32010001
Texas, Commission on Env. Quality, cert# TX-C24-00083
Virginia, Dept. of General Services, cert# 13080
Wisconsin, Dept. of Natural Resources, cert# 399136100

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SAMPLE SUMMARY

Project: Hammond AP-1
Pace Project No.: 92772942

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92772942001	**HAM-PT-07**	Water	01/06/25 15:44	01/08/25 12:45
92772942002	**HAM-PT-08**	Water	01/06/25 16:50	01/08/25 12:45
92772942003	**HAM-PT-09**	Water	01/07/25 10:37	01/08/25 12:45
92772942004	**HAM-PT-10**	Water	01/07/25 12:30	01/08/25 12:45
92772942005	**HAM-PT-11**	Water	01/07/25 11:37	01/08/25 12:45
92772942006	**HAM-PT-12**	Water	01/07/25 09:36	01/08/25 12:45
92772942007	**HAM-PT-13**	Water	01/06/25 12:47	01/08/25 12:45
92772942008	**HAM-PT-14**	Water	01/06/25 12:40	01/08/25 12:45
92772942009	**HAM-PT-15**	Water	01/06/25 14:23	01/08/25 12:45
92772942010	**HAM-AP1-EB-01**	Water	01/07/25 12:55	01/08/25 12:45
92772942011	**HAM-AP1-FB-01**	Water	01/07/25 12:50	01/08/25 12:45
92772942012	**HAM-AP1-FD-01**	Water	01/06/25 00:00	01/08/25 12:45

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SAMPLE ANALYTE COUNT

Project: Hammond AP-1
Pace Project No.: 92772942

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92772942001	**HAM-PT-07**	EPA 6020B	CW1	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6020B	BK1, BW	18
		EPA 7470A	KAJ1	1
92772942002	**HAM-PT-08**	EPA 6020B	CW1	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6020B	BK1, BW	18
		EPA 7470A	KAJ1	1
92772942003	**HAM-PT-09**	EPA 6020B	CW1	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6020B	BK1, BW	18
		EPA 7470A	KAJ1	1
92772942004	**HAM-PT-10**	EPA 6020B	CW1	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6020B	BK1, BW	18
		EPA 7470A	KAJ1	1
92772942005	**HAM-PT-11**	EPA 6020B	CW1	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6020B	BK1, BW	18
		EPA 7470A	KAJ1	1
92772942006	**HAM-PT-12**	EPA 6020B	CW1	1
		SM 2540C-2015	DL1	1

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Hammond AP-1
Pace Project No.: 92772942

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6020B	BK1, BW	18
		EPA 7470A	KAJ1	1
92772942007	**HAM-PT-13**	EPA 6020B	CW1	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6020B	BK1, BW	18
		EPA 7470A	KAJ1	1
92772942008	**HAM-PT-14**	EPA 6020B	CW1	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6020B	BK1, BW	18
		EPA 7470A	KAJ1	1
92772942009	**HAM-PT-15**	EPA 6020B	CW1	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6020B	BK1, BW	18
		EPA 7470A	KAJ1	1
92772942010	**HAM-AP1-EB-01**	EPA 6020B	CW1	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6020B	BK1	18
		EPA 7470A	KAJ1	1
92772942011	**HAM-AP1-FB-01**	EPA 6020B	CW1	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1

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SAMPLE ANALYTE COUNT

Project: Hammond AP-1
Pace Project No.: 92772942

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6020B	BK1	18
		EPA 7470A	KAJ1	1
92772942012	**HAM-AP1-FD-01**	EPA 6020B	CW1	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6020B	BK1, BW	18
		EPA 7470A	KAJ1	1

PASI-A = Pace Analytical Services - Asheville
PASI-GA = Pace Analytical Services - Peachtree Corners, GA
PASI-WC = Pace Analytical Services - West Columbia

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SUMMARY OF DETECTION

Project: Hammond AP-1
Pace Project No.: 92772942

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92772942001	**HAM-PT-07**					
EPA 6020B	Lithium	0.049	mg/L	0.030	01/23/25 14:09	
SM 2540C-2015	Total Dissolved Solids	529	mg/L	25.0	01/09/25 13:49	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	163	mg/L	5.0	01/14/25 13:45	
SM 2320B-2011	Alkalinity, Total as CaCO3	163	mg/L	5.0	01/14/25 13:45	
EPA 300.0 Rev 2.1 1993	Chloride	18.1	mg/L	1.0	01/09/25 08:15	
EPA 300.0 Rev 2.1 1993	Fluoride	0.38	mg/L	0.10	01/09/25 08:15	
EPA 300.0 Rev 2.1 1993	Sulfate	181	mg/L	4.0	01/09/25 18:17	
EPA 6020B	Arsenic	0.18	mg/L	0.0050	01/13/25 18:21	
EPA 6020B	Barium	0.047	mg/L	0.0050	01/13/25 18:21	
EPA 6020B	Boron	0.83J	mg/L	0.80	01/14/25 16:44	
EPA 6020B	Calcium	113	mg/L	20.0	01/14/25 16:44	
EPA 6020B	Cobalt	0.042	mg/L	0.0050	01/13/25 18:21	
EPA 6020B	Iron	7.8	mg/L	0.040	01/13/25 18:21	
EPA 6020B	Magnesium	16.5	mg/L	0.050	01/13/25 18:21	
EPA 6020B	Manganese	3.2	mg/L	0.80	01/14/25 16:44	
EPA 6020B	Molybdenum	0.011	mg/L	0.010	01/13/25 18:21	
EPA 6020B	Potassium	5.8	mg/L	0.50	01/13/25 18:21	
EPA 6020B	Sodium	8.1	mg/L	1.0	01/13/25 18:21	
EPA 6020B	Thallium	0.00027J	mg/L	0.0010	01/14/25 15:42	
92772942002	**HAM-PT-08**					
EPA 6020B	Lithium	0.028J	mg/L	0.030	01/23/25 14:13	
SM 2540C-2015	Total Dissolved Solids	479	mg/L	25.0	01/09/25 13:49	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	111	mg/L	5.0	01/14/25 13:54	
SM 2320B-2011	Alkalinity, Total as CaCO3	111	mg/L	5.0	01/14/25 13:54	
EPA 300.0 Rev 2.1 1993	Chloride	17.7	mg/L	1.0	01/09/25 08:32	
EPA 300.0 Rev 2.1 1993	Fluoride	0.23	mg/L	0.10	01/09/25 08:32	
EPA 300.0 Rev 2.1 1993	Sulfate	183	mg/L	4.0	01/09/25 18:32	
EPA 6020B	Arsenic	0.062	mg/L	0.0050	01/13/25 18:30	
EPA 6020B	Barium	0.051	mg/L	0.0050	01/13/25 18:30	
EPA 6020B	Boron	0.92J	mg/L	0.80	01/14/25 16:53	
EPA 6020B	Calcium	105	mg/L	20.0	01/14/25 16:53	
EPA 6020B	Cobalt	0.042	mg/L	0.0050	01/13/25 18:30	
EPA 6020B	Iron	1.3	mg/L	0.040	01/13/25 18:30	
EPA 6020B	Magnesium	13.7	mg/L	0.050	01/13/25 18:30	
EPA 6020B	Manganese	2.7	mg/L	0.80	01/14/25 16:53	
EPA 6020B	Molybdenum	0.010J	mg/L	0.010	01/13/25 18:30	
EPA 6020B	Potassium	5.5	mg/L	0.50	01/13/25 18:30	
EPA 6020B	Sodium	7.2	mg/L	1.0	01/13/25 18:30	
EPA 6020B	Thallium	0.00025J	mg/L	0.0010	01/14/25 15:51	
92772942003	**HAM-PT-09**					
EPA 6020B	Lithium	0.0021J	mg/L	0.030	01/23/25 14:17	
SM 2540C-2015	Total Dissolved Solids	490	mg/L	25.0	01/09/25 13:55	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	131	mg/L	5.0	01/14/25 17:01	
SM 2320B-2011	Alkalinity, Total as CaCO3	131	mg/L	5.0	01/14/25 17:01	
EPA 300.0 Rev 2.1 1993	Chloride	50.2	mg/L	1.0	01/09/25 08:48	
EPA 300.0 Rev 2.1 1993	Fluoride	0.37	mg/L	0.10	01/09/25 08:48	

REPORT OF LABORATORY ANALYSIS

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SUMMARY OF DETECTION

Project: Hammond AP-1
Pace Project No.: 92772942

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92772942003	**HAM-PT-09**					
EPA 300.0 Rev 2.1 1993	Sulfate	127	mg/L	3.0	01/09/25 18:47	
EPA 6020B	Barium	0.065	mg/L	0.0050	01/13/25 18:38	
EPA 6020B	Boron	1.8	mg/L	0.80	01/14/25 17:01	
EPA 6020B	Cadmium	0.00013J	mg/L	0.00050	01/13/25 18:38	
EPA 6020B	Calcium	90.2	mg/L	20.0	01/14/25 17:01	
EPA 6020B	Cobalt	0.0023J	mg/L	0.0050	01/13/25 18:38	
EPA 6020B	Iron	0.26	mg/L	0.040	01/13/25 18:38	
EPA 6020B	Magnesium	20.7	mg/L	0.050	01/13/25 18:38	
EPA 6020B	Manganese	0.36J	mg/L	0.80	01/14/25 17:01	
EPA 6020B	Molybdenum	0.19	mg/L	0.010	01/13/25 18:38	
EPA 6020B	Potassium	6.7	mg/L	0.50	01/13/25 18:38	
EPA 6020B	Sodium	14.1	mg/L	1.0	01/13/25 18:38	
EPA 6020B	Thallium	0.00019J	mg/L	0.0010	01/13/25 18:38	BC
92772942004	**HAM-PT-10**					
EPA 6020B	Lithium	0.00058J	mg/L	0.030	01/23/25 14:21	
SM 2540C-2015	Total Dissolved Solids	414	mg/L	25.0	01/09/25 13:56	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	105	mg/L	5.0	01/15/25 11:47	
SM 2320B-2011	Alkalinity, Total as CaCO3	105	mg/L	5.0	01/15/25 11:47	
EPA 300.0 Rev 2.1 1993	Chloride	50.4	mg/L	1.0	01/09/25 09:04	
EPA 300.0 Rev 2.1 1993	Fluoride	0.20	mg/L	0.10	01/09/25 09:04	
EPA 300.0 Rev 2.1 1993	Sulfate	112	mg/L	3.0	01/09/25 19:02	
EPA 6020B	Barium	0.048	mg/L	0.0050	01/13/25 18:47	
EPA 6020B	Boron	1.6	mg/L	0.80	01/14/25 17:10	
EPA 6020B	Calcium	93.1	mg/L	20.0	01/14/25 17:10	
EPA 6020B	Cobalt	0.0013J	mg/L	0.0050	01/13/25 18:47	
EPA 6020B	Iron	0.19	mg/L	0.040	01/13/25 18:47	
EPA 6020B	Magnesium	12.3	mg/L	0.050	01/13/25 18:47	
EPA 6020B	Manganese	0.42J	mg/L	0.80	01/14/25 17:10	
EPA 6020B	Molybdenum	0.043	mg/L	0.010	01/13/25 18:47	
EPA 6020B	Potassium	7.1	mg/L	0.50	01/13/25 18:47	
EPA 6020B	Sodium	10.3	mg/L	1.0	01/13/25 18:47	
92772942005	**HAM-PT-11**					
EPA 6020B	Lithium	0.0010J	mg/L	0.030	01/23/25 14:25	
SM 2540C-2015	Total Dissolved Solids	424	mg/L	25.0	01/09/25 13:56	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	121	mg/L	5.0	01/15/25 12:13	
SM 2320B-2011	Alkalinity, Total as CaCO3	121	mg/L	5.0	01/15/25 12:13	
EPA 300.0 Rev 2.1 1993	Chloride	34.5	mg/L	1.0	01/09/25 09:21	
EPA 300.0 Rev 2.1 1993	Fluoride	0.28	mg/L	0.10	01/09/25 09:21	
EPA 300.0 Rev 2.1 1993	Sulfate	103	mg/L	4.0	01/09/25 19:18	
EPA 6020B	Barium	0.060	mg/L	0.0050	01/13/25 18:56	
EPA 6020B	Boron	1.7	mg/L	0.80	01/14/25 17:19	
EPA 6020B	Calcium	88.8	mg/L	20.0	01/14/25 17:19	
EPA 6020B	Cobalt	0.0017J	mg/L	0.0050	01/13/25 18:56	
EPA 6020B	Iron	0.014J	mg/L	0.040	01/13/25 18:56	
EPA 6020B	Magnesium	12.8	mg/L	0.050	01/13/25 18:56	
EPA 6020B	Manganese	0.33J	mg/L	0.80	01/14/25 17:19	

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SUMMARY OF DETECTION

Project: Hammond AP-1
Pace Project No.: 92772942

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92772942005	**HAM-PT-11**					
EPA 6020B	Molybdenum	0.12	mg/L	0.010	01/13/25 18:56	
EPA 6020B	Potassium	6.7	mg/L	0.50	01/13/25 18:56	
EPA 6020B	Sodium	8.9	mg/L	1.0	01/13/25 18:56	
92772942006	**HAM-PT-12**					
EPA 6020B	Lithium	0.00095J	mg/L	0.030	01/23/25 14:51	
SM 2540C-2015	Total Dissolved Solids	506	mg/L	25.0	01/09/25 13:56	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	126	mg/L	5.0	01/15/25 12:38	
SM 2320B-2011	Alkalinity, Total as CaCO3	126	mg/L	5.0	01/15/25 12:38	
EPA 300.0 Rev 2.1 1993	Chloride	55.0	mg/L	1.0	01/09/25 09:37	M1
EPA 300.0 Rev 2.1 1993	Fluoride	0.27	mg/L	0.10	01/09/25 09:37	M1
EPA 300.0 Rev 2.1 1993	Sulfate	130	mg/L	3.0	01/09/25 20:03	M1
EPA 6020B	Barium	0.057	mg/L	0.0050	01/13/25 19:05	
EPA 6020B	Boron	1.8	mg/L	0.80	01/14/25 17:28	
EPA 6020B	Cadmium	0.00013J	mg/L	0.00050	01/13/25 19:05	
EPA 6020B	Calcium	90.2	mg/L	20.0	01/14/25 17:28	
EPA 6020B	Cobalt	0.0019J	mg/L	0.0050	01/13/25 19:05	
EPA 6020B	Iron	0.11	mg/L	0.040	01/13/25 19:05	
EPA 6020B	Magnesium	17.8	mg/L	0.050	01/13/25 19:05	
EPA 6020B	Manganese	0.41J	mg/L	0.80	01/14/25 17:28	
EPA 6020B	Molybdenum	0.13	mg/L	0.010	01/13/25 19:05	
EPA 6020B	Potassium	6.5	mg/L	0.50	01/13/25 19:05	
EPA 6020B	Sodium	12.8	mg/L	1.0	01/13/25 19:05	
EPA 6020B	Thallium	0.00017J	mg/L	0.0010	01/13/25 19:05	BC
92772942007	**HAM-PT-13**					
EPA 6020B	Lithium	0.053	mg/L	0.030	01/23/25 14:55	
SM 2540C-2015	Total Dissolved Solids	540	mg/L	25.0	01/09/25 13:49	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	155	mg/L	5.0	01/14/25 14:03	
SM 2320B-2011	Alkalinity, Total as CaCO3	155	mg/L	5.0	01/14/25 14:03	
EPA 300.0 Rev 2.1 1993	Chloride	19.1	mg/L	1.0	01/09/25 10:59	
EPA 300.0 Rev 2.1 1993	Fluoride	0.42	mg/L	0.10	01/09/25 10:59	
EPA 300.0 Rev 2.1 1993	Sulfate	186	mg/L	4.0	01/09/25 20:48	
EPA 6020B	Arsenic	0.20	mg/L	0.0050	01/13/25 19:14	
EPA 6020B	Barium	0.047	mg/L	0.0050	01/13/25 19:14	
EPA 6020B	Boron	0.79J	mg/L	0.80	01/14/25 17:37	
EPA 6020B	Calcium	113	mg/L	20.0	01/14/25 17:37	
EPA 6020B	Cobalt	0.021	mg/L	0.0050	01/13/25 19:14	
EPA 6020B	Iron	7.7	mg/L	0.040	01/13/25 19:14	
EPA 6020B	Magnesium	16.4	mg/L	0.050	01/13/25 19:14	
EPA 6020B	Manganese	2.8	mg/L	0.80	01/14/25 17:37	
EPA 6020B	Molybdenum	0.0088J	mg/L	0.010	01/13/25 19:14	
EPA 6020B	Potassium	6.0	mg/L	0.50	01/13/25 19:14	
EPA 6020B	Sodium	8.8	mg/L	1.0	01/13/25 19:14	
EPA 6020B	Thallium	0.00030J	mg/L	0.0010	01/14/25 16:00	
92772942008	**HAM-PT-14**					
EPA 6020B	Lithium	0.054	mg/L	0.030	01/23/25 14:59	
SM 2540C-2015	Total Dissolved Solids	551	mg/L	25.0	01/09/25 13:49	

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SUMMARY OF DETECTION

Project: Hammond AP-1
Pace Project No.: 92772942

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92772942008	**HAM-PT-14**					
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	161	mg/L	5.0	01/14/25 14:35	
SM 2320B-2011	Alkalinity, Total as CaCO3	161	mg/L	5.0	01/14/25 14:35	
EPA 300.0 Rev 2.1 1993	Chloride	19.5	mg/L	1.0	01/09/25 11:15	
EPA 300.0 Rev 2.1 1993	Fluoride	0.34	mg/L	0.10	01/09/25 11:15	
EPA 300.0 Rev 2.1 1993	Sulfate	213	mg/L	4.0	01/09/25 21:03	
EPA 6020B	Arsenic	0.26	mg/L	0.0050	01/13/25 19:22	
EPA 6020B	Barium	0.043	mg/L	0.0050	01/13/25 19:22	
EPA 6020B	Boron	0.80J	mg/L	0.80	01/15/25 13:49	
EPA 6020B	Calcium	125	mg/L	20.0	01/15/25 13:49	
EPA 6020B	Cobalt	0.023	mg/L	0.0050	01/13/25 19:22	
EPA 6020B	Iron	10.5	mg/L	0.040	01/13/25 19:22	
EPA 6020B	Magnesium	16.8	mg/L	0.050	01/13/25 19:22	
EPA 6020B	Manganese	3.2	mg/L	0.80	01/15/25 13:49	
EPA 6020B	Molybdenum	0.013	mg/L	0.010	01/13/25 19:22	
EPA 6020B	Potassium	5.7	mg/L	0.50	01/13/25 19:22	
EPA 6020B	Sodium	7.9	mg/L	1.0	01/13/25 19:22	
EPA 6020B	Thallium	0.00015J	mg/L	0.0010	01/13/25 19:22	BC
92772942009	**HAM-PT-15**					
EPA 6020B	Lithium	0.043	mg/L	0.030	01/23/25 15:03	
SM 2540C-2015	Total Dissolved Solids	519	mg/L	25.0	01/09/25 13:50	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	155	mg/L	5.0	01/14/25 14:51	
SM 2320B-2011	Alkalinity, Total as CaCO3	155	mg/L	5.0	01/14/25 14:51	
EPA 300.0 Rev 2.1 1993	Chloride	16.1	mg/L	1.0	01/09/25 11:31	
EPA 300.0 Rev 2.1 1993	Fluoride	0.37	mg/L	0.10	01/09/25 11:31	
EPA 300.0 Rev 2.1 1993	Sulfate	187	mg/L	4.0	01/09/25 21:19	
EPA 6020B	Arsenic	0.053	mg/L	0.0050	01/13/25 19:49	
EPA 6020B	Barium	0.049	mg/L	0.0050	01/13/25 19:49	
EPA 6020B	Boron	0.90J	mg/L	0.80	01/15/25 13:58	
EPA 6020B	Cadmium	0.00039J	mg/L	0.00050	01/13/25 19:49	
EPA 6020B	Calcium	121	mg/L	20.0	01/15/25 13:58	
EPA 6020B	Cobalt	0.025	mg/L	0.0050	01/13/25 19:49	
EPA 6020B	Iron	0.90	mg/L	0.040	01/13/25 19:49	
EPA 6020B	Magnesium	14.3	mg/L	0.050	01/13/25 19:49	
EPA 6020B	Manganese	4.0	mg/L	0.80	01/15/25 13:58	
EPA 6020B	Molybdenum	0.014	mg/L	0.010	01/13/25 19:49	
EPA 6020B	Potassium	5.7	mg/L	0.50	01/13/25 19:49	
EPA 6020B	Sodium	7.7	mg/L	1.0	01/13/25 19:49	
EPA 6020B	Thallium	0.00055J	mg/L	0.0010	01/14/25 16:09	
92772942010	**HAM-AP1-EB-01**					
EPA 6020B	Magnesium	0.022J	mg/L	0.050	01/13/25 19:58	
EPA 6020B	Manganese	0.0050J	mg/L	0.040	01/13/25 19:58	
92772942011	**HAM-AP1-FB-01**					
EPA 6020B	Manganese	0.0019J	mg/L	0.040	01/13/25 20:06	
92772942012	**HAM-AP1-FD-01**					
EPA 6020B	Lithium	0.031	mg/L	0.030	01/23/25 15:16	

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SUMMARY OF DETECTION

Project: Hammond AP-1
Pace Project No.: 92772942

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92772942012	**HAM-AP1-FD-01**					
SM 2540C-2015	Total Dissolved Solids	478	mg/L	25.0	01/09/25 13:51	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	112	mg/L	5.0	01/14/25 15:02	
SM 2320B-2011	Alkalinity, Total as CaCO3	112	mg/L	5.0	01/14/25 15:02	
EPA 300.0 Rev 2.1 1993	Chloride	17.8	mg/L	1.0	01/09/25 11:48	
EPA 300.0 Rev 2.1 1993	Fluoride	0.23	mg/L	0.10	01/09/25 11:48	
EPA 300.0 Rev 2.1 1993	Sulfate	187	mg/L	4.0	01/09/25 21:34	
EPA 6020B	Arsenic	0.063	mg/L	0.0050	01/13/25 20:15	
EPA 6020B	Barium	0.051	mg/L	0.0050	01/13/25 20:15	
EPA 6020B	Boron	0.91J	mg/L	0.80	01/15/25 14:06	
EPA 6020B	Calcium	111	mg/L	20.0	01/15/25 14:06	
EPA 6020B	Cobalt	0.041	mg/L	0.0050	01/13/25 20:15	
EPA 6020B	Iron	1.3	mg/L	0.040	01/13/25 20:15	
EPA 6020B	Magnesium	13.5	mg/L	0.050	01/13/25 20:15	
EPA 6020B	Manganese	2.9	mg/L	0.80	01/15/25 14:06	
EPA 6020B	Molybdenum	0.0095J	mg/L	0.010	01/13/25 20:15	
EPA 6020B	Potassium	5.4	mg/L	0.50	01/13/25 20:15	
EPA 6020B	Sodium	7.0	mg/L	1.0	01/13/25 20:15	
EPA 6020B	Thallium	0.00024J	mg/L	0.0010	01/14/25 16:18	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92772942

Sample: HAM-PT-07 **Lab ID: 92772942001** Collected: 01/06/25 15:44 Received: 01/08/25 12:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Lithium	**0.049**	mg/L	0.030	0.00028	1	01/23/25 10:10	01/23/25 14:09	7439-93-2	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**529**	mg/L	25.0	25.0	1		01/09/25 13:49		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**163**	mg/L	5.0	5.0	1		01/14/25 13:45		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		01/14/25 13:45		
Alkalinity, Total as CaCO3	**163**	mg/L	5.0	5.0	1		01/14/25 13:45		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		01/10/25 03:15	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**18.1**	mg/L	1.0	0.60	1		01/09/25 08:15	16887-00-6	
Fluoride	**0.38**	mg/L	0.10	0.050	1		01/09/25 08:15	16984-48-8	
Sulfate	**181**	mg/L	4.0	2.0	4		01/09/25 18:17	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	01/13/25 09:30	01/13/25 18:21	7440-36-0	
Arsenic	**0.18**	mg/L	0.0050	0.0012	1	01/13/25 09:30	01/13/25 18:21	7440-38-2	
Barium	**0.047**	mg/L	0.0050	0.0012	1	01/13/25 09:30	01/13/25 18:21	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	01/13/25 09:30	01/13/25 18:21	7440-41-7	
Boron	**0.83J**	mg/L	0.80	0.12	20	01/13/25 09:30	01/14/25 16:44	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	01/13/25 09:30	01/13/25 18:21	7440-43-9	
Calcium	**113**	mg/L	20.0	2.0	20	01/13/25 09:30	01/14/25 16:44	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	01/13/25 09:30	01/13/25 18:21	7440-47-3	
Cobalt	**0.042**	mg/L	0.0050	0.0012	1	01/13/25 09:30	01/13/25 18:21	7440-48-4	
Iron	**7.8**	mg/L	0.040	0.012	1	01/13/25 09:30	01/13/25 18:21	7439-89-6	
Lead	ND	mg/L	0.0010	0.00025	1	01/13/25 09:30	01/13/25 18:21	7439-92-1	
Magnesium	**16.5**	mg/L	0.050	0.010	1	01/13/25 09:30	01/13/25 18:21	7439-95-4	
Manganese	**3.2**	mg/L	0.80	0.025	20	01/13/25 09:30	01/14/25 16:44	7439-96-5	
Molybdenum	**0.011**	mg/L	0.010	0.0025	1	01/13/25 09:30	01/13/25 18:21	7439-98-7	
Potassium	**5.8**	mg/L	0.50	0.10	1	01/13/25 09:30	01/13/25 18:21	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	01/13/25 09:30	01/13/25 18:21	7782-49-2	
Sodium	**8.1**	mg/L	1.0	0.15	1	01/13/25 09:30	01/13/25 18:21	7440-23-5	
Thallium	**0.00027J**	mg/L	0.0010	0.00015	1	01/13/25 09:30	01/14/25 15:42	7440-28-0	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92772942

Sample: HAM-PT-07 **Lab ID: 92772942001** Collected: 01/06/25 15:44 Received: 01/08/25 12:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WCOL 7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - West Columbia								
Mercury	ND	mg/L	0.00080	0.00036	1	01/15/25 07:18	01/25/25 12:06	7439-97-6	P1

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92772942

Sample: HAM-PT-08 **Lab ID: 92772942002** Collected: 01/06/25 16:50 Received: 01/08/25 12:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Lithium	**0.028J**	mg/L	0.030	0.00028	1	01/23/25 10:10	01/23/25 14:13	7439-93-2	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**479**	mg/L	25.0	25.0	1		01/09/25 13:49		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**111**	mg/L	5.0	5.0	1		01/14/25 13:54		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		01/14/25 13:54		
Alkalinity, Total as CaCO3	**111**	mg/L	5.0	5.0	1		01/14/25 13:54		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		01/10/25 03:17	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**17.7**	mg/L	1.0	0.60	1		01/09/25 08:32	16887-00-6	
Fluoride	**0.23**	mg/L	0.10	0.050	1		01/09/25 08:32	16984-48-8	
Sulfate	**183**	mg/L	4.0	2.0	4		01/09/25 18:32	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	01/13/25 09:30	01/13/25 18:30	7440-36-0	
Arsenic	**0.062**	mg/L	0.0050	0.0012	1	01/13/25 09:30	01/13/25 18:30	7440-38-2	
Barium	**0.051**	mg/L	0.0050	0.0012	1	01/13/25 09:30	01/13/25 18:30	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	01/13/25 09:30	01/13/25 18:30	7440-41-7	
Boron	**0.92J**	mg/L	0.80	0.12	20	01/13/25 09:30	01/14/25 16:53	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	01/13/25 09:30	01/13/25 18:30	7440-43-9	
Calcium	**105**	mg/L	20.0	2.0	20	01/13/25 09:30	01/14/25 16:53	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	01/13/25 09:30	01/13/25 18:30	7440-47-3	
Cobalt	**0.042**	mg/L	0.0050	0.0012	1	01/13/25 09:30	01/13/25 18:30	7440-48-4	
Iron	**1.3**	mg/L	0.040	0.012	1	01/13/25 09:30	01/13/25 18:30	7439-89-6	
Lead	ND	mg/L	0.0010	0.00025	1	01/13/25 09:30	01/13/25 18:30	7439-92-1	
Magnesium	**13.7**	mg/L	0.050	0.010	1	01/13/25 09:30	01/13/25 18:30	7439-95-4	
Manganese	**2.7**	mg/L	0.80	0.025	20	01/13/25 09:30	01/14/25 16:53	7439-96-5	
Molybdenum	**0.010J**	mg/L	0.010	0.0025	1	01/13/25 09:30	01/13/25 18:30	7439-98-7	
Potassium	**5.5**	mg/L	0.50	0.10	1	01/13/25 09:30	01/13/25 18:30	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	01/13/25 09:30	01/13/25 18:30	7782-49-2	
Sodium	**7.2**	mg/L	1.0	0.15	1	01/13/25 09:30	01/13/25 18:30	7440-23-5	
Thallium	**0.00025J**	mg/L	0.0010	0.00015	1	01/13/25 09:30	01/14/25 15:51	7440-28-0	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92772942

Sample: HAM-PT-08 **Lab ID: 92772942002** Collected: 01/06/25 16:50 Received: 01/08/25 12:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WCOL 7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - West Columbia								
Mercury	ND	mg/L	0.00020	0.000091	1	01/15/25 07:18	01/25/25 12:14	7439-97-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92772942

Sample: HAM-PT-09 **Lab ID: 92772942003** Collected: 01/07/25 10:37 Received: 01/08/25 12:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Lithium	**0.0021J**	mg/L	0.030	0.00028	1	01/23/25 10:10	01/23/25 14:17	7439-93-2	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**490**	mg/L	25.0	25.0	1		01/09/25 13:55		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**131**	mg/L	5.0	5.0	1		01/14/25 17:01		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		01/14/25 17:01		
Alkalinity, Total as CaCO3	**131**	mg/L	5.0	5.0	1		01/14/25 17:01		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		01/10/25 03:22	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**50.2**	mg/L	1.0	0.60	1		01/09/25 08:48	16887-00-6	
Fluoride	**0.37**	mg/L	0.10	0.050	1		01/09/25 08:48	16984-48-8	
Sulfate	**127**	mg/L	3.0	1.5	3		01/09/25 18:47	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	01/13/25 09:30	01/13/25 18:38	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	01/13/25 09:30	01/13/25 18:38	7440-38-2	
Barium	**0.065**	mg/L	0.0050	0.0012	1	01/13/25 09:30	01/13/25 18:38	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	01/13/25 09:30	01/13/25 18:38	7440-41-7	
Boron	**1.8**	mg/L	0.80	0.12	20	01/13/25 09:30	01/14/25 17:01	7440-42-8	
Cadmium	**0.00013J**	mg/L	0.00050	0.00012	1	01/13/25 09:30	01/13/25 18:38	7440-43-9	
Calcium	**90.2**	mg/L	20.0	2.0	20	01/13/25 09:30	01/14/25 17:01	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	01/13/25 09:30	01/13/25 18:38	7440-47-3	
Cobalt	**0.0023J**	mg/L	0.0050	0.0012	1	01/13/25 09:30	01/13/25 18:38	7440-48-4	
Iron	**0.26**	mg/L	0.040	0.012	1	01/13/25 09:30	01/13/25 18:38	7439-89-6	
Lead	ND	mg/L	0.0010	0.00025	1	01/13/25 09:30	01/13/25 18:38	7439-92-1	
Magnesium	**20.7**	mg/L	0.050	0.010	1	01/13/25 09:30	01/13/25 18:38	7439-95-4	
Manganese	**0.36J**	mg/L	0.80	0.025	20	01/13/25 09:30	01/14/25 17:01	7439-96-5	
Molybdenum	**0.19**	mg/L	0.010	0.0025	1	01/13/25 09:30	01/13/25 18:38	7439-98-7	
Potassium	**6.7**	mg/L	0.50	0.10	1	01/13/25 09:30	01/13/25 18:38	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	01/13/25 09:30	01/13/25 18:38	7782-49-2	
Sodium	**14.1**	mg/L	1.0	0.15	1	01/13/25 09:30	01/13/25 18:38	7440-23-5	
Thallium	**0.00019J**	mg/L	0.0010	0.00015	1	01/13/25 09:30	01/13/25 18:38	7440-28-0	BC

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92772942

Sample: HAM-PT-09 **Lab ID: 92772942003** Collected: 01/07/25 10:37 Received: 01/08/25 12:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WCOL 7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - West Columbia								
Mercury	ND	mg/L	0.00020	0.000091	1	01/15/25 07:18	01/25/25 12:16	7439-97-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92772942

Sample: HAM-PT-10 **Lab ID: 92772942004** Collected: 01/07/25 12:30 Received: 01/08/25 12:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Lithium	**0.00058J**	mg/L	0.030	0.00028	1	01/23/25 10:10	01/23/25 14:21	7439-93-2	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**414**	mg/L	25.0	25.0	1		01/09/25 13:56		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**105**	mg/L	5.0	5.0	1		01/15/25 11:47		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		01/15/25 11:47		
Alkalinity, Total as CaCO3	**105**	mg/L	5.0	5.0	1		01/15/25 11:47		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		01/10/25 03:23	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**50.4**	mg/L	1.0	0.60	1		01/09/25 09:04	16887-00-6	
Fluoride	**0.20**	mg/L	0.10	0.050	1		01/09/25 09:04	16984-48-8	
Sulfate	**112**	mg/L	3.0	1.5	3		01/09/25 19:02	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	01/13/25 09:30	01/13/25 18:47	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	01/13/25 09:30	01/13/25 18:47	7440-38-2	
Barium	**0.048**	mg/L	0.0050	0.0012	1	01/13/25 09:30	01/13/25 18:47	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	01/13/25 09:30	01/13/25 18:47	7440-41-7	
Boron	**1.6**	mg/L	0.80	0.12	20	01/13/25 09:30	01/14/25 17:10	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	01/13/25 09:30	01/13/25 18:47	7440-43-9	
Calcium	**93.1**	mg/L	20.0	2.0	20	01/13/25 09:30	01/14/25 17:10	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	01/13/25 09:30	01/13/25 18:47	7440-47-3	
Cobalt	**0.0013J**	mg/L	0.0050	0.0012	1	01/13/25 09:30	01/13/25 18:47	7440-48-4	
Iron	**0.19**	mg/L	0.040	0.012	1	01/13/25 09:30	01/13/25 18:47	7439-89-6	
Lead	ND	mg/L	0.0010	0.00025	1	01/13/25 09:30	01/13/25 18:47	7439-92-1	
Magnesium	**12.3**	mg/L	0.050	0.010	1	01/13/25 09:30	01/13/25 18:47	7439-95-4	
Manganese	**0.42J**	mg/L	0.80	0.025	20	01/13/25 09:30	01/14/25 17:10	7439-96-5	
Molybdenum	**0.043**	mg/L	0.010	0.0025	1	01/13/25 09:30	01/13/25 18:47	7439-98-7	
Potassium	**7.1**	mg/L	0.50	0.10	1	01/13/25 09:30	01/13/25 18:47	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	01/13/25 09:30	01/13/25 18:47	7782-49-2	
Sodium	**10.3**	mg/L	1.0	0.15	1	01/13/25 09:30	01/13/25 18:47	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	01/13/25 09:30	01/13/25 18:47	7440-28-0	BC

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92772942

Sample: HAM-PT-10 **Lab ID: 92772942004** Collected: 01/07/25 12:30 Received: 01/08/25 12:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WCOL 7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - West Columbia								
Mercury	ND	mg/L	0.00020	0.000091	1	01/15/25 07:18	01/25/25 12:19	7439-97-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92772942

Sample: HAM-PT-11 **Lab ID: 92772942005** Collected: 01/07/25 11:37 Received: 01/08/25 12:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Lithium	**0.0010J**	mg/L	0.030	0.00028	1	01/23/25 10:10	01/23/25 14:25	7439-93-2	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**424**	mg/L	25.0	25.0	1		01/09/25 13:56		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**121**	mg/L	5.0	5.0	1		01/15/25 12:13		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		01/15/25 12:13		
Alkalinity, Total as CaCO3	**121**	mg/L	5.0	5.0	1		01/15/25 12:13		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		01/10/25 03:24	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**34.5**	mg/L	1.0	0.60	1		01/09/25 09:21	16887-00-6	
Fluoride	**0.28**	mg/L	0.10	0.050	1		01/09/25 09:21	16984-48-8	
Sulfate	**103**	mg/L	4.0	2.0	4		01/09/25 19:18	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	01/13/25 09:30	01/13/25 18:56	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	01/13/25 09:30	01/13/25 18:56	7440-38-2	
Barium	**0.060**	mg/L	0.0050	0.0012	1	01/13/25 09:30	01/13/25 18:56	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	01/13/25 09:30	01/13/25 18:56	7440-41-7	
Boron	**1.7**	mg/L	0.80	0.12	20	01/13/25 09:30	01/14/25 17:19	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	01/13/25 09:30	01/13/25 18:56	7440-43-9	
Calcium	**88.8**	mg/L	20.0	2.0	20	01/13/25 09:30	01/14/25 17:19	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	01/13/25 09:30	01/13/25 18:56	7440-47-3	
Cobalt	**0.0017J**	mg/L	0.0050	0.0012	1	01/13/25 09:30	01/13/25 18:56	7440-48-4	
Iron	**0.014J**	mg/L	0.040	0.012	1	01/13/25 09:30	01/13/25 18:56	7439-89-6	
Lead	ND	mg/L	0.0010	0.00025	1	01/13/25 09:30	01/13/25 18:56	7439-92-1	
Magnesium	**12.8**	mg/L	0.050	0.010	1	01/13/25 09:30	01/13/25 18:56	7439-95-4	
Manganese	**0.33J**	mg/L	0.80	0.025	20	01/13/25 09:30	01/14/25 17:19	7439-96-5	
Molybdenum	**0.12**	mg/L	0.010	0.0025	1	01/13/25 09:30	01/13/25 18:56	7439-98-7	
Potassium	**6.7**	mg/L	0.50	0.10	1	01/13/25 09:30	01/13/25 18:56	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	01/13/25 09:30	01/13/25 18:56	7782-49-2	
Sodium	**8.9**	mg/L	1.0	0.15	1	01/13/25 09:30	01/13/25 18:56	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	01/13/25 09:30	01/13/25 18:56	7440-28-0	BC

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92772942

Sample: HAM-PT-11 **Lab ID: 92772942005** Collected: 01/07/25 11:37 Received: 01/08/25 12:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WCOL 7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - West Columbia								
Mercury	ND	mg/L	0.00020	0.000091	1	01/15/25 07:18	01/25/25 12:22	7439-97-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92772942

Sample: HAM-PT-12 **Lab ID: 92772942006** Collected: 01/07/25 09:36 Received: 01/08/25 12:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Lithium	**0.00095J**	mg/L	0.030	0.00028	1	01/23/25 10:10	01/23/25 14:51	7439-93-2	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**506**	mg/L	25.0	25.0	1		01/09/25 13:56		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**126**	mg/L	5.0	5.0	1		01/15/25 12:38		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		01/15/25 12:38		
Alkalinity, Total as CaCO3	**126**	mg/L	5.0	5.0	1		01/15/25 12:38		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		01/10/25 03:24	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**55.0**	mg/L	1.0	0.60	1		01/09/25 09:37	16887-00-6	M1
Fluoride	**0.27**	mg/L	0.10	0.050	1		01/09/25 09:37	16984-48-8	M1
Sulfate	**130**	mg/L	3.0	1.5	3		01/09/25 20:03	14808-79-8	M1
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	01/13/25 09:30	01/13/25 19:05	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	01/13/25 09:30	01/13/25 19:05	7440-38-2	
Barium	**0.057**	mg/L	0.0050	0.0012	1	01/13/25 09:30	01/13/25 19:05	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	01/13/25 09:30	01/13/25 19:05	7440-41-7	
Boron	**1.8**	mg/L	0.80	0.12	20	01/13/25 09:30	01/14/25 17:28	7440-42-8	
Cadmium	**0.00013J**	mg/L	0.00050	0.00012	1	01/13/25 09:30	01/13/25 19:05	7440-43-9	
Calcium	**90.2**	mg/L	20.0	2.0	20	01/13/25 09:30	01/14/25 17:28	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	01/13/25 09:30	01/13/25 19:05	7440-47-3	
Cobalt	**0.0019J**	mg/L	0.0050	0.0012	1	01/13/25 09:30	01/13/25 19:05	7440-48-4	
Iron	**0.11**	mg/L	0.040	0.012	1	01/13/25 09:30	01/13/25 19:05	7439-89-6	
Lead	ND	mg/L	0.0010	0.00025	1	01/13/25 09:30	01/13/25 19:05	7439-92-1	
Magnesium	**17.8**	mg/L	0.050	0.010	1	01/13/25 09:30	01/13/25 19:05	7439-95-4	
Manganese	**0.41J**	mg/L	0.80	0.025	20	01/13/25 09:30	01/14/25 17:28	7439-96-5	
Molybdenum	**0.13**	mg/L	0.010	0.0025	1	01/13/25 09:30	01/13/25 19:05	7439-98-7	
Potassium	**6.5**	mg/L	0.50	0.10	1	01/13/25 09:30	01/13/25 19:05	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	01/13/25 09:30	01/13/25 19:05	7782-49-2	
Sodium	**12.8**	mg/L	1.0	0.15	1	01/13/25 09:30	01/13/25 19:05	7440-23-5	
Thallium	**0.00017J**	mg/L	0.0010	0.00015	1	01/13/25 09:30	01/13/25 19:05	7440-28-0	BC

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92772942

Sample: HAM-PT-12 **Lab ID: 92772942006** Collected: 01/07/25 09:36 Received: 01/08/25 12:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WCOL 7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - West Columbia								
Mercury	ND	mg/L	0.00020	0.000091	1	01/15/25 07:18	01/25/25 12:24	7439-97-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92772942

Sample: HAM-PT-13 **Lab ID: 92772942007** Collected: 01/06/25 12:47 Received: 01/08/25 12:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Lithium	**0.053**	mg/L	0.030	0.00028	1	01/23/25 10:10	01/23/25 14:55	7439-93-2	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**540**	mg/L	25.0	25.0	1		01/09/25 13:49		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**155**	mg/L	5.0	5.0	1		01/14/25 14:03		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		01/14/25 14:03		
Alkalinity, Total as CaCO3	**155**	mg/L	5.0	5.0	1		01/14/25 14:03		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		01/10/25 03:17	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**19.1**	mg/L	1.0	0.60	1		01/09/25 10:59	16887-00-6	
Fluoride	**0.42**	mg/L	0.10	0.050	1		01/09/25 10:59	16984-48-8	
Sulfate	**186**	mg/L	4.0	2.0	4		01/09/25 20:48	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	01/13/25 09:30	01/13/25 19:14	7440-36-0	
Arsenic	**0.20**	mg/L	0.0050	0.0012	1	01/13/25 09:30	01/13/25 19:14	7440-38-2	
Barium	**0.047**	mg/L	0.0050	0.0012	1	01/13/25 09:30	01/13/25 19:14	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	01/13/25 09:30	01/13/25 19:14	7440-41-7	
Boron	**0.79J**	mg/L	0.80	0.12	20	01/13/25 09:30	01/14/25 17:37	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	01/13/25 09:30	01/13/25 19:14	7440-43-9	
Calcium	**113**	mg/L	20.0	2.0	20	01/13/25 09:30	01/14/25 17:37	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	01/13/25 09:30	01/13/25 19:14	7440-47-3	
Cobalt	**0.021**	mg/L	0.0050	0.0012	1	01/13/25 09:30	01/13/25 19:14	7440-48-4	
Iron	**7.7**	mg/L	0.040	0.012	1	01/13/25 09:30	01/13/25 19:14	7439-89-6	
Lead	ND	mg/L	0.0010	0.00025	1	01/13/25 09:30	01/13/25 19:14	7439-92-1	
Magnesium	**16.4**	mg/L	0.050	0.010	1	01/13/25 09:30	01/13/25 19:14	7439-95-4	
Manganese	**2.8**	mg/L	0.80	0.025	20	01/13/25 09:30	01/14/25 17:37	7439-96-5	
Molybdenum	**0.0088J**	mg/L	0.010	0.0025	1	01/13/25 09:30	01/13/25 19:14	7439-98-7	
Potassium	**6.0**	mg/L	0.50	0.10	1	01/13/25 09:30	01/13/25 19:14	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	01/13/25 09:30	01/13/25 19:14	7782-49-2	
Sodium	**8.8**	mg/L	1.0	0.15	1	01/13/25 09:30	01/13/25 19:14	7440-23-5	
Thallium	**0.00030J**	mg/L	0.0010	0.00015	1	01/13/25 09:30	01/14/25 16:00	7440-28-0	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92772942

Sample: HAM-PT-13 **Lab ID: 92772942007** Collected: 01/06/25 12:47 Received: 01/08/25 12:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WCOL 7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - West Columbia								
Mercury	ND	mg/L	0.00020	0.000091	1	01/15/25 07:18	01/25/25 12:33	7439-97-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92772942

Sample: HAM-PT-14 **Lab ID: 92772942008** Collected: 01/06/25 12:40 Received: 01/08/25 12:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Lithium	**0.054**	mg/L	0.030	0.00028	1	01/23/25 10:10	01/23/25 14:59	7439-93-2	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**551**	mg/L	25.0	25.0	1		01/09/25 13:49		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**161**	mg/L	5.0	5.0	1		01/14/25 14:35		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		01/14/25 14:35		
Alkalinity, Total as CaCO3	**161**	mg/L	5.0	5.0	1		01/14/25 14:35		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		01/10/25 03:17	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**19.5**	mg/L	1.0	0.60	1		01/09/25 11:15	16887-00-6	
Fluoride	**0.34**	mg/L	0.10	0.050	1		01/09/25 11:15	16984-48-8	
Sulfate	**213**	mg/L	4.0	2.0	4		01/09/25 21:03	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	01/13/25 09:30	01/13/25 19:22	7440-36-0	
Arsenic	**0.26**	mg/L	0.0050	0.0012	1	01/13/25 09:30	01/13/25 19:22	7440-38-2	
Barium	**0.043**	mg/L	0.0050	0.0012	1	01/13/25 09:30	01/13/25 19:22	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	01/13/25 09:30	01/13/25 19:22	7440-41-7	
Boron	**0.80J**	mg/L	0.80	0.12	20	01/13/25 09:30	01/15/25 13:49	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	01/13/25 09:30	01/13/25 19:22	7440-43-9	
Calcium	**125**	mg/L	20.0	2.0	20	01/13/25 09:30	01/15/25 13:49	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	01/13/25 09:30	01/13/25 19:22	7440-47-3	
Cobalt	**0.023**	mg/L	0.0050	0.0012	1	01/13/25 09:30	01/13/25 19:22	7440-48-4	
Iron	**10.5**	mg/L	0.040	0.012	1	01/13/25 09:30	01/13/25 19:22	7439-89-6	
Lead	ND	mg/L	0.0010	0.00025	1	01/13/25 09:30	01/13/25 19:22	7439-92-1	
Magnesium	**16.8**	mg/L	0.050	0.010	1	01/13/25 09:30	01/13/25 19:22	7439-95-4	
Manganese	**3.2**	mg/L	0.80	0.025	20	01/13/25 09:30	01/15/25 13:49	7439-96-5	
Molybdenum	**0.013**	mg/L	0.010	0.0025	1	01/13/25 09:30	01/13/25 19:22	7439-98-7	
Potassium	**5.7**	mg/L	0.50	0.10	1	01/13/25 09:30	01/13/25 19:22	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	01/13/25 09:30	01/13/25 19:22	7782-49-2	
Sodium	**7.9**	mg/L	1.0	0.15	1	01/13/25 09:30	01/13/25 19:22	7440-23-5	
Thallium	**0.00015J**	mg/L	0.0010	0.00015	1	01/13/25 09:30	01/13/25 19:22	7440-28-0	BC

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92772942

Sample: HAM-PT-14 **Lab ID: 92772942008** Collected: 01/06/25 12:40 Received: 01/08/25 12:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WCOL 7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - West Columbia								
Mercury	ND	mg/L	0.00020	0.000091	1	01/15/25 07:18	01/25/25 12:35	7439-97-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92772942

Sample: HAM-PT-15 **Lab ID: 92772942009** Collected: 01/06/25 14:23 Received: 01/08/25 12:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Lithium	**0.043**	mg/L	0.030	0.00028	1	01/23/25 10:10	01/23/25 15:03	7439-93-2	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**519**	mg/L	25.0	25.0	1		01/09/25 13:50		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**155**	mg/L	5.0	5.0	1		01/14/25 14:51		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		01/14/25 14:51		
Alkalinity, Total as CaCO3	**155**	mg/L	5.0	5.0	1		01/14/25 14:51		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		01/10/25 03:18	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**16.1**	mg/L	1.0	0.60	1		01/09/25 11:31	16887-00-6	
Fluoride	**0.37**	mg/L	0.10	0.050	1		01/09/25 11:31	16984-48-8	
Sulfate	**187**	mg/L	4.0	2.0	4		01/09/25 21:19	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	01/13/25 09:30	01/13/25 19:49	7440-36-0	
Arsenic	**0.053**	mg/L	0.0050	0.0012	1	01/13/25 09:30	01/13/25 19:49	7440-38-2	
Barium	**0.049**	mg/L	0.0050	0.0012	1	01/13/25 09:30	01/13/25 19:49	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	01/13/25 09:30	01/13/25 19:49	7440-41-7	
Boron	**0.90J**	mg/L	0.80	0.12	20	01/13/25 09:30	01/15/25 13:58	7440-42-8	
Cadmium	**0.00039J**	mg/L	0.00050	0.00012	1	01/13/25 09:30	01/13/25 19:49	7440-43-9	
Calcium	**121**	mg/L	20.0	2.0	20	01/13/25 09:30	01/15/25 13:58	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	01/13/25 09:30	01/13/25 19:49	7440-47-3	
Cobalt	**0.025**	mg/L	0.0050	0.0012	1	01/13/25 09:30	01/13/25 19:49	7440-48-4	
Iron	**0.90**	mg/L	0.040	0.012	1	01/13/25 09:30	01/13/25 19:49	7439-89-6	
Lead	ND	mg/L	0.0010	0.00025	1	01/13/25 09:30	01/13/25 19:49	7439-92-1	
Magnesium	**14.3**	mg/L	0.050	0.010	1	01/13/25 09:30	01/13/25 19:49	7439-95-4	
Manganese	**4.0**	mg/L	0.80	0.025	20	01/13/25 09:30	01/15/25 13:58	7439-96-5	
Molybdenum	**0.014**	mg/L	0.010	0.0025	1	01/13/25 09:30	01/13/25 19:49	7439-98-7	
Potassium	**5.7**	mg/L	0.50	0.10	1	01/13/25 09:30	01/13/25 19:49	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	01/13/25 09:30	01/13/25 19:49	7782-49-2	
Sodium	**7.7**	mg/L	1.0	0.15	1	01/13/25 09:30	01/13/25 19:49	7440-23-5	
Thallium	**0.00055J**	mg/L	0.0010	0.00015	1	01/13/25 09:30	01/14/25 16:09	7440-28-0	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92772942

Sample: HAM-PT-15 **Lab ID: 92772942009** Collected: 01/06/25 14:23 Received: 01/08/25 12:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WCOL 7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - West Columbia								
Mercury	ND	mg/L	0.00020	0.000091	1	01/15/25 07:18	01/25/25 12:38	7439-97-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92772942

Sample: HAM-AP1-EB-01 **Lab ID: 92772942010** Collected: 01/07/25 12:55 Received: 01/08/25 12:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Lithium	ND	mg/L	0.030	0.00028	1	01/23/25 10:10	01/23/25 15:07	7439-93-2	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		01/09/25 18:15		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		01/15/25 12:56		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		01/15/25 12:56		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		01/15/25 12:56		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		01/10/25 03:25	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		01/08/25 23:33	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		01/08/25 23:33	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		01/08/25 23:33	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	01/13/25 09:30	01/13/25 19:58	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	01/13/25 09:30	01/13/25 19:58	7440-38-2	
Barium	ND	mg/L	0.0050	0.0012	1	01/13/25 09:30	01/13/25 19:58	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	01/13/25 09:30	01/13/25 19:58	7440-41-7	
Boron	ND	mg/L	0.040	0.0062	1	01/13/25 09:30	01/13/25 19:58	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	01/13/25 09:30	01/13/25 19:58	7440-43-9	
Calcium	ND	mg/L	1.0	0.10	1	01/13/25 09:30	01/13/25 19:58	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	01/13/25 09:30	01/13/25 19:58	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.0012	1	01/13/25 09:30	01/13/25 19:58	7440-48-4	
Iron	ND	mg/L	0.040	0.012	1	01/13/25 09:30	01/13/25 19:58	7439-89-6	
Lead	ND	mg/L	0.0010	0.00025	1	01/13/25 09:30	01/13/25 19:58	7439-92-1	
Magnesium	**0.022J**	mg/L	0.050	0.010	1	01/13/25 09:30	01/13/25 19:58	7439-95-4	
Manganese	**0.0050J**	mg/L	0.040	0.0012	1	01/13/25 09:30	01/13/25 19:58	7439-96-5	
Molybdenum	ND	mg/L	0.010	0.0025	1	01/13/25 09:30	01/13/25 19:58	7439-98-7	
Potassium	ND	mg/L	0.50	0.10	1	01/13/25 09:30	01/13/25 19:58	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	01/13/25 09:30	01/13/25 19:58	7782-49-2	
Sodium	ND	mg/L	1.0	0.15	1	01/13/25 09:30	01/13/25 19:58	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	01/13/25 09:30	01/13/25 19:58	7440-28-0	BC

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92772942

Sample: HAM-AP1-EB-01 **Lab ID: 92772942010** Collected: 01/07/25 12:55 Received: 01/08/25 12:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WCOL 7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - West Columbia								
Mercury	ND	mg/L	0.00080	0.00036	1	01/15/25 07:18	01/25/25 12:41	7439-97-6	P1

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92772942

Sample: HAM-AP1-FB-01 **Lab ID: 92772942011** Collected: 01/07/25 12:50 Received: 01/08/25 12:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Lithium	ND	mg/L	0.030	0.00028	1	01/23/25 10:10	01/23/25 15:12	7439-93-2	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		01/09/25 18:16		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		01/15/25 13:00		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		01/15/25 13:00		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		01/15/25 13:00		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		01/10/25 03:25	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		01/08/25 23:49	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		01/08/25 23:49	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		01/08/25 23:49	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	01/13/25 09:30	01/13/25 20:06	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	01/13/25 09:30	01/13/25 20:06	7440-38-2	
Barium	ND	mg/L	0.0050	0.0012	1	01/13/25 09:30	01/13/25 20:06	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	01/13/25 09:30	01/13/25 20:06	7440-41-7	
Boron	ND	mg/L	0.040	0.0062	1	01/13/25 09:30	01/13/25 20:06	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	01/13/25 09:30	01/13/25 20:06	7440-43-9	
Calcium	ND	mg/L	1.0	0.10	1	01/13/25 09:30	01/13/25 20:06	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	01/13/25 09:30	01/13/25 20:06	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.0012	1	01/13/25 09:30	01/13/25 20:06	7440-48-4	
Iron	ND	mg/L	0.040	0.012	1	01/13/25 09:30	01/13/25 20:06	7439-89-6	
Lead	ND	mg/L	0.0010	0.00025	1	01/13/25 09:30	01/13/25 20:06	7439-92-1	
Magnesium	ND	mg/L	0.050	0.010	1	01/13/25 09:30	01/13/25 20:06	7439-95-4	
Manganese	**0.0019J**	mg/L	0.040	0.0012	1	01/13/25 09:30	01/13/25 20:06	7439-96-5	
Molybdenum	ND	mg/L	0.010	0.0025	1	01/13/25 09:30	01/13/25 20:06	7439-98-7	
Potassium	ND	mg/L	0.50	0.10	1	01/13/25 09:30	01/13/25 20:06	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	01/13/25 09:30	01/13/25 20:06	7782-49-2	
Sodium	ND	mg/L	1.0	0.15	1	01/13/25 09:30	01/13/25 20:06	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	01/13/25 09:30	01/13/25 20:06	7440-28-0	BC

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92772942

Sample: HAM-AP1-FB-01 **Lab ID: 92772942011** Collected: 01/07/25 12:50 Received: 01/08/25 12:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WCOL 7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - West Columbia								
Mercury	ND	mg/L	0.00020	0.000091	1	01/15/25 07:18	01/25/25 12:49	7439-97-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92772942

Sample: HAM-AP1-FD-01 **Lab ID: 92772942012** Collected: 01/06/25 00:00 Received: 01/08/25 12:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Lithium	**0.031**	mg/L	0.030	0.00028	1	01/23/25 10:10	01/23/25 15:16	7439-93-2	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**478**	mg/L	25.0	25.0	1		01/09/25 13:51		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**112**	mg/L	5.0	5.0	1		01/14/25 15:02		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		01/14/25 15:02		
Alkalinity, Total as CaCO3	**112**	mg/L	5.0	5.0	1		01/14/25 15:02		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		01/10/25 03:18	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**17.8**	mg/L	1.0	0.60	1		01/09/25 11:48	16887-00-6	
Fluoride	**0.23**	mg/L	0.10	0.050	1		01/09/25 11:48	16984-48-8	
Sulfate	**187**	mg/L	4.0	2.0	4		01/09/25 21:34	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	01/13/25 09:30	01/13/25 20:15	7440-36-0	
Arsenic	**0.063**	mg/L	0.0050	0.0012	1	01/13/25 09:30	01/13/25 20:15	7440-38-2	
Barium	**0.051**	mg/L	0.0050	0.0012	1	01/13/25 09:30	01/13/25 20:15	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	01/13/25 09:30	01/13/25 20:15	7440-41-7	
Boron	**0.91J**	mg/L	0.80	0.12	20	01/13/25 09:30	01/15/25 14:06	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	01/13/25 09:30	01/13/25 20:15	7440-43-9	
Calcium	**111**	mg/L	20.0	2.0	20	01/13/25 09:30	01/15/25 14:06	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	01/13/25 09:30	01/13/25 20:15	7440-47-3	
Cobalt	**0.041**	mg/L	0.0050	0.0012	1	01/13/25 09:30	01/13/25 20:15	7440-48-4	
Iron	**1.3**	mg/L	0.040	0.012	1	01/13/25 09:30	01/13/25 20:15	7439-89-6	
Lead	ND	mg/L	0.0010	0.00025	1	01/13/25 09:30	01/13/25 20:15	7439-92-1	
Magnesium	**13.5**	mg/L	0.050	0.010	1	01/13/25 09:30	01/13/25 20:15	7439-95-4	
Manganese	**2.9**	mg/L	0.80	0.025	20	01/13/25 09:30	01/15/25 14:06	7439-96-5	
Molybdenum	**0.0095J**	mg/L	0.010	0.0025	1	01/13/25 09:30	01/13/25 20:15	7439-98-7	
Potassium	**5.4**	mg/L	0.50	0.10	1	01/13/25 09:30	01/13/25 20:15	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	01/13/25 09:30	01/13/25 20:15	7782-49-2	
Sodium	**7.0**	mg/L	1.0	0.15	1	01/13/25 09:30	01/13/25 20:15	7440-23-5	
Thallium	**0.00024J**	mg/L	0.0010	0.00015	1	01/13/25 09:30	01/14/25 16:18	7440-28-0	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92772942

Sample: HAM-AP1-FD-01 **Lab ID: 92772942012** Collected: 01/06/25 00:00 Received: 01/08/25 12:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WCOL 7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - West Columbia								
Mercury	ND	mg/L	0.00020	0.000091	1	01/15/25 07:18	01/25/25 12:51	7439-97-6	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92772942

QC Batch: 910720 — Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A — Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92772942001, 92772942002, 92772942003, 92772942004, 92772942005, 92772942006, 92772942007, 92772942008, 92772942009, 92772942010, 92772942011, 92772942012

METHOD BLANK: 4683194 — Matrix: Water
Associated Lab Samples: 92772942001, 92772942002, 92772942003, 92772942004, 92772942005, 92772942006, 92772942007, 92772942008, 92772942009, 92772942010, 92772942011, 92772942012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lithium	mg/L	ND	0.030	0.00028	01/23/25 14:00	

LABORATORY CONTROL SAMPLE: 4683195

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lithium	mg/L	0.1	0.11	108	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4683196 4683197

Parameter	Units	92772942005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lithium	mg/L	0.0010J	0.1	0.1	0.10	0.10	102	103	75-125	1	20	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92772942

QC Batch: 907726 — Analysis Method: SM 2540C-2015
QC Batch Method: SM 2540C-2015 — Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92772942001, 92772942002, 92772942003, 92772942004, 92772942005, 92772942006, 92772942007, 92772942008, 92772942009, 92772942012

METHOD BLANK: 4669204 — Matrix: Water
Associated Lab Samples: 92772942001, 92772942002, 92772942003, 92772942004, 92772942005, 92772942006, 92772942007, 92772942008, 92772942009, 92772942012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	01/09/25 13:47	

LABORATORY CONTROL SAMPLE: 4669205

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	362	90	80-120	

SAMPLE DUPLICATE: 4669206

Parameter	Units	92772563001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	248	254	2	10	

SAMPLE DUPLICATE: 4669207

Parameter	Units	92772479002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	112	120	7	10	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92772942

QC Batch: 907875
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92772942010, 92772942011

METHOD BLANK: 4670248 Matrix: Water
Associated Lab Samples: 92772942010, 92772942011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	01/09/25 18:14	

LABORATORY CONTROL SAMPLE: 4670249

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	361	90	80-120	

SAMPLE DUPLICATE: 4670250

Parameter	Units	92773113036 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	107	118	10	10	

SAMPLE DUPLICATE: 4670251

Parameter	Units	92773113037 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	43.0	65.0	41	10	D6

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92772942

QC Batch: 907689 | Analysis Method: SM 2320B-2011
QC Batch Method: SM 2320B-2011 | Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92772942001, 92772942002, 92772942003, 92772942007, 92772942008, 92772942009, 92772942012

METHOD BLANK: 4668970 Matrix: Water
Associated Lab Samples: 92772942001, 92772942002, 92772942003, 92772942007, 92772942008, 92772942009, 92772942012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	01/14/25 12:57	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	01/14/25 12:57	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	01/14/25 12:57	

LABORATORY CONTROL SAMPLE: 4668971

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.2	100	80-120	

LABORATORY CONTROL SAMPLE: 4668972

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.5	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4672574 4672575

Parameter	Units	92772765001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	912	50	50	951	959	77	93	80-120	1	25	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4672576 4672577

Parameter	Units	92772942003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	131	50	50	182	183	103	104	80-120	0	25	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92772942

QC Batch: 908504 — Analysis Method: SM 2320B-2011
QC Batch Method: SM 2320B-2011 — Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92772942004, 92772942005, 92772942006, 92772942010, 92772942011

METHOD BLANK: 4672951 — Matrix: Water
Associated Lab Samples: 92772942004, 92772942005, 92772942006, 92772942010, 92772942011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	01/15/25 11:28	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	01/15/25 11:28	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	01/15/25 11:28	

LABORATORY CONTROL SAMPLE: 4672952

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.8	104	80-120	

LABORATORY CONTROL SAMPLE: 4672953

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.4	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4672954 — 4672955

Parameter	Units	92772942004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	105	50	50	156	157	103	105	80-120	1	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4672956 — 4672957

Parameter	Units	92772942005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	121	50	50	167	168	92	93	80-120	0	25	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92772942

QC Batch: 907927
QC Batch Method: SM 4500-S2D-2011
Analysis Method: SM 4500-S2D-2011
Analysis Description: 4500S2D Sulfide Water
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92772942001, 92772942002, 92772942003, 92772942004, 92772942005, 92772942006, 92772942007, 92772942008, 92772942009, 92772942010, 92772942011, 92772942012

METHOD BLANK: 4670468 Matrix: Water
Associated Lab Samples: 92772942001, 92772942002, 92772942003, 92772942004, 92772942005, 92772942006, 92772942007, 92772942008, 92772942009, 92772942010, 92772942011, 92772942012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	0.022	01/10/25 03:13	

LABORATORY CONTROL SAMPLE: 4670469

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	0.53	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4670472 4670473

Parameter	Units	92772515002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.48	0.53	95	105	80-120	10	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4670499 4670500

Parameter	Units	92772942001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.53	0.52	107	104	80-120	2	10	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92772942

QC Batch: 907517
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92772942001, 92772942002, 92772942003, 92772942004, 92772942005, 92772942006, 92772942007, 92772942008, 92772942009, 92772942010, 92772942011, 92772942012

METHOD BLANK: 4668315 Matrix: Water
Associated Lab Samples: 92772942001, 92772942002, 92772942003, 92772942004, 92772942005, 92772942006, 92772942007, 92772942008, 92772942009, 92772942010, 92772942011, 92772942012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	01/08/25 21:52	
Fluoride	mg/L	ND	0.10	0.050	01/08/25 21:52	
Sulfate	mg/L	ND	1.0	0.50	01/08/25 21:52	

LABORATORY CONTROL SAMPLE: 4668316

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.6	101	90-110	
Fluoride	mg/L	2.5	2.4	97	90-110	
Sulfate	mg/L	50	50.8	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4668317 4668318

Parameter	Units	92772897001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	2.4	50	50	54.2	55.0	103	105	90-110	2	10	
Fluoride	mg/L	0.059J	2.5	2.5	2.6	2.6	101	102	90-110	1	10	
Sulfate	mg/L	5.2	50	50	57.1	57.9	104	105	90-110	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4668319 4668320

Parameter	Units	92772942006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	55.0	50	50	92.6	93.1	75	76	90-110	0	10	M1
Fluoride	mg/L	0.27	2.5	2.5	3.0	3.1	109	111	90-110	2	10	M1
Sulfate	mg/L	130	50	50	171	171	83	84	90-110	0	10	M1

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92772942

QC Batch: 908184
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: WC 6020B MET
Laboratory: Pace Analytical Services - West Columbia
Associated Lab Samples: 92772942001, 92772942002, 92772942003, 92772942004, 92772942005, 92772942006, 92772942007, 92772942008, 92772942009, 92772942010, 92772942011, 92772942012

METHOD BLANK: 4671543 Matrix: Water
Associated Lab Samples: 92772942001, 92772942002, 92772942003, 92772942004, 92772942005, 92772942006, 92772942007, 92772942008, 92772942009, 92772942010, 92772942011, 92772942012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00050	01/13/25 16:18	
Arsenic	mg/L	ND	0.0050	0.0012	01/13/25 16:18	
Barium	mg/L	ND	0.0050	0.0012	01/13/25 16:18	
Beryllium	mg/L	ND	0.00050	0.00015	01/13/25 16:18	
Boron	mg/L	ND	0.040	0.0062	01/13/25 16:18	
Cadmium	mg/L	ND	0.00050	0.00012	01/13/25 16:18	
Calcium	mg/L	ND	1.0	0.10	01/13/25 16:18	
Chromium	mg/L	ND	0.0050	0.0012	01/13/25 16:18	
Cobalt	mg/L	ND	0.0050	0.0012	01/13/25 16:18	
Iron	mg/L	ND	0.040	0.012	01/13/25 16:18	
Lead	mg/L	ND	0.0010	0.00025	01/13/25 16:18	
Magnesium	mg/L	ND	0.050	0.010	01/13/25 16:18	
Manganese	mg/L	ND	0.040	0.0012	01/13/25 16:18	
Molybdenum	mg/L	ND	0.010	0.0025	01/13/25 16:18	
Potassium	mg/L	ND	0.50	0.10	01/13/25 16:18	
Selenium	mg/L	ND	0.0050	0.0012	01/13/25 16:18	
Sodium	mg/L	ND	1.0	0.15	01/13/25 16:18	
Thallium	mg/L	ND	0.0010	0.00015	01/13/25 16:18	

LABORATORY CONTROL SAMPLE: 4671544

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.098	98	80-120	
Arsenic	mg/L	0.1	0.10	104	80-120	
Barium	mg/L	0.1	0.097	97	80-120	
Beryllium	mg/L	0.1	0.10	102	80-120	
Boron	mg/L	0.1	0.10	102	80-120	
Cadmium	mg/L	0.1	0.099	99	80-120	
Calcium	mg/L	1	1.0	104	80-120	
Chromium	mg/L	0.1	0.10	101	80-120	
Cobalt	mg/L	0.1	0.11	112	80-120	
Iron	mg/L	1	0.99	99	80-120	
Lead	mg/L	0.1	0.11	111	80-120	
Magnesium	mg/L	1	1.0	102	80-120	
Manganese	mg/L	0.1	0.11	107	80-120	
Molybdenum	mg/L	0.1	0.10	100	80-120	
Potassium	mg/L	1	1.1	108	80-120	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92772942

LABORATORY CONTROL SAMPLE: 4671544

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Selenium	mg/L	0.1	0.10	102	80-120	
Sodium	mg/L	1	1.0	102	80-120	
Thallium	mg/L	0.1	0.12	118	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4671545 4671546

Parameter	Units	92772921001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.089	0.089	88	89	75-125	1	20	
Arsenic	mg/L	ND	0.1	0.1	0.095	0.096	94	95	75-125	1	20	
Barium	mg/L	37.4 ug/L	0.1	0.1	0.14	0.14	104	102	75-125	1	20	
Beryllium	mg/L	0.27J ug/L	0.1	0.1	0.11	0.11	107	106	75-125	1	20	
Boron	mg/L	13.0J ug/L	0.1	0.1	0.12	0.12	110	108	75-125	2	20	
Cadmium	mg/L	ND	0.1	0.1	0.10	0.10	100	101	75-125	0	20	
Calcium	mg/L	5300 ug/L	1	1	6.1	6.0	84	75	75-125	1	20	
Chromium	mg/L	1.9J ug/L	0.1	0.1	0.092	0.093	90	91	75-125	1	20	
Cobalt	mg/L	ND	0.1	0.1	0.11	0.11	109	108	75-125	1	20	
Iron	mg/L	1560 ug/L	1	1	2.8	2.7	119	114	75-125	2	20	
Lead	mg/L	2.2 ug/L	0.1	0.1	0.10	0.10	102	101	75-125	2	20	
Magnesium	mg/L	1350 ug/L	1	1	2.5	2.5	111	114	75-125	1	20	
Manganese	mg/L	66.1 ug/L	0.1	0.1	0.17	0.16	103	97	75-125	3	20	
Molybdenum	mg/L	ND	0.1	0.1	0.090	0.090	89	89	75-125	0	20	
Potassium	mg/L	1740 ug/L	1	1	2.8	2.8	107	107	75-125	0	20	
Selenium	mg/L	ND	0.1	0.1	0.10	0.10	101	102	75-125	1	20	
Sodium	mg/L	11100 ug/L	1	1	11.9	11.8	86	72	75-125	1	20	M1
Thallium	mg/L	ND	0.1	0.1	0.11	0.11	110	107	75-125	3	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4671547 4671548

Parameter	Units	92773107001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.090	0.065	86	61	75-125	33	20	M1,R1
Arsenic	mg/L	ND	0.1	0.1	0.090	0.096	80	86	75-125	6	20	
Barium	mg/L	116 ug/L	0.1	0.1	0.21	0.22	96	104	75-125	3	20	
Beryllium	mg/L	ND	0.1	0.1	0.099	0.098	98	98	75-125	1	20	
Boron	mg/L	ND	0.1	0.1	0.12J	0.12J	100	100	75-125		20	
Cadmium	mg/L	ND	0.1	0.1	0.095	0.094	94	94	75-125	1	20	
Calcium	mg/L	31600 ug/L	1	1	32.4	31.8	80	17	75-125	2	20	M1
Chromium	mg/L	18.8J ug/L	0.1	0.1	0.097	0.11	79	91	75-125	12	20	
Cobalt	mg/L	ND	0.1	0.1	0.097	0.097	95	95	75-125	0	20	
Lead	mg/L	39.9 ug/L	0.1	0.1	0.13	0.14	95	96	75-125	1	20	
Magnesium	mg/L	4030 ug/L	1	1	5.2	5.4	112	139	75-125	5	20	M1

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92772942

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4671547 4671548

Parameter	Units	92773107001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Manganese	mg/L	205 ug/L	0.1	0.1	0.31J	0.30J	103	98	75-125	2	20	
Molybdenum	mg/L	ND	0.1	0.1	0.073J	0.064J	69	59	75-125		20	M1
Potassium	mg/L	3430J ug/L	1	1	4.5J	4.9J	106	150	75-125	9	20	M1
Selenium	mg/L	24.2J ug/L	0.1	0.1	0.12	0.12	92	97	75-125	4	20	
Sodium	mg/L	8910 ug/L	1	1	9.8J	9.6J	94	67	75-125	3	20	M1
Thallium	mg/L	ND	0.1	0.1	0.10	0.099	99	99	75-125	1	20	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92772942

QC Batch: 908632
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: WCOL 7470 Mercury
Laboratory: Pace Analytical Services - West Columbia
Associated Lab Samples: 92772942001, 92772942002, 92772942003, 92772942004, 92772942005, 92772942006, 92772942007, 92772942008, 92772942009, 92772942010, 92772942011, 92772942012

METHOD BLANK: 4673761 Matrix: Water
Associated Lab Samples: 92772942001, 92772942002, 92772942003, 92772942004, 92772942005, 92772942006, 92772942007, 92772942008, 92772942009, 92772942010, 92772942011, 92772942012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.000091	01/25/25 12:00	

LABORATORY CONTROL SAMPLE: 4673762

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.002	0.0018	91	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4673763 4673764

Parameter	Units	92772942001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.008	0.008	0.0073	0.0072	92	91	80-120	1	20	P1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4673765 4673766

Parameter	Units	92772942010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.008	0.008	0.0069	0.0070	87	88	80-120	1	20	P1

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QUALIFIERS

Project: Hammond AP-1
Pace Project No.: 92772942

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

BC	The same analyte was detected in an associated blank at a concentration above 1/2 the reporting limit but below the laboratory reporting limit.
D6	The precision between the sample and sample duplicate exceeded laboratory control limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
P1	Routine initial sample volume or weight was not used for extraction, resulting in elevated reporting limits.
R1	RPD value was outside control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Hammond AP-1
Pace Project No.: 92772942

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92772942001	**HAM-PT-07**	EPA 3005A	910720	EPA 6020B	910853
92772942002	**HAM-PT-08**	EPA 3005A	910720	EPA 6020B	910853
92772942003	**HAM-PT-09**	EPA 3005A	910720	EPA 6020B	910853
92772942004	**HAM-PT-10**	EPA 3005A	910720	EPA 6020B	910853
92772942005	**HAM-PT-11**	EPA 3005A	910720	EPA 6020B	910853
92772942006	**HAM-PT-12**	EPA 3005A	910720	EPA 6020B	910853
92772942007	**HAM-PT-13**	EPA 3005A	910720	EPA 6020B	910853
92772942008	**HAM-PT-14**	EPA 3005A	910720	EPA 6020B	910853
92772942009	**HAM-PT-15**	EPA 3005A	910720	EPA 6020B	910853
92772942010	**HAM-AP1-EB-01**	EPA 3005A	910720	EPA 6020B	910853
92772942011	**HAM-AP1-FB-01**	EPA 3005A	910720	EPA 6020B	910853
92772942012	**HAM-AP1-FD-01**	EPA 3005A	910720	EPA 6020B	910853
92772942001	**HAM-PT-07**	SM 2540C-2015	907726		
92772942002	**HAM-PT-08**	SM 2540C-2015	907726		
92772942003	**HAM-PT-09**	SM 2540C-2015	907726		
92772942004	**HAM-PT-10**	SM 2540C-2015	907726		
92772942005	**HAM-PT-11**	SM 2540C-2015	907726		
92772942006	**HAM-PT-12**	SM 2540C-2015	907726		
92772942007	**HAM-PT-13**	SM 2540C-2015	907726		
92772942008	**HAM-PT-14**	SM 2540C-2015	907726		
92772942009	**HAM-PT-15**	SM 2540C-2015	907726		
92772942010	**HAM-AP1-EB-01**	SM 2540C-2015	907875		
92772942011	**HAM-AP1-FB-01**	SM 2540C-2015	907875		
92772942012	**HAM-AP1-FD-01**	SM 2540C-2015	907726		
92772942001	**HAM-PT-07**	SM 2320B-2011	907689		
92772942002	**HAM-PT-08**	SM 2320B-2011	907689		
92772942003	**HAM-PT-09**	SM 2320B-2011	907689		
92772942004	**HAM-PT-10**	SM 2320B-2011	908504		
92772942005	**HAM-PT-11**	SM 2320B-2011	908504		
92772942006	**HAM-PT-12**	SM 2320B-2011	908504		
92772942007	**HAM-PT-13**	SM 2320B-2011	907689		
92772942008	**HAM-PT-14**	SM 2320B-2011	907689		
92772942009	**HAM-PT-15**	SM 2320B-2011	907689		
92772942010	**HAM-AP1-EB-01**	SM 2320B-2011	908504		
92772942011	**HAM-AP1-FB-01**	SM 2320B-2011	908504		
92772942012	**HAM-AP1-FD-01**	SM 2320B-2011	907689		
92772942001	**HAM-PT-07**	SM 4500-S2D-2011	907927		
92772942002	**HAM-PT-08**	SM 4500-S2D-2011	907927		
92772942003	**HAM-PT-09**	SM 4500-S2D-2011	907927		
92772942004	**HAM-PT-10**	SM 4500-S2D-2011	907927		
92772942005	**HAM-PT-11**	SM 4500-S2D-2011	907927		
92772942006	**HAM-PT-12**	SM 4500-S2D-2011	907927		
92772942007	**HAM-PT-13**	SM 4500-S2D-2011	907927		
92772942008	**HAM-PT-14**	SM 4500-S2D-2011	907927		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Hammond AP-1
Pace Project No.: 92772942

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92772942009	**HAM-PT-15**	SM 4500-S2D-2011	907927		
92772942010	**HAM-AP1-EB-01**	SM 4500-S2D-2011	907927		
92772942011	**HAM-AP1-FB-01**	SM 4500-S2D-2011	907927		
92772942012	**HAM-AP1-FD-01**	SM 4500-S2D-2011	907927		
92772942001	**HAM-PT-07**	EPA 300.0 Rev 2.1 1993	907517		
92772942002	**HAM-PT-08**	EPA 300.0 Rev 2.1 1993	907517		
92772942003	**HAM-PT-09**	EPA 300.0 Rev 2.1 1993	907517		
92772942004	**HAM-PT-10**	EPA 300.0 Rev 2.1 1993	907517		
92772942005	**HAM-PT-11**	EPA 300.0 Rev 2.1 1993	907517		
92772942006	**HAM-PT-12**	EPA 300.0 Rev 2.1 1993	907517		
92772942007	**HAM-PT-13**	EPA 300.0 Rev 2.1 1993	907517		
92772942008	**HAM-PT-14**	EPA 300.0 Rev 2.1 1993	907517		
92772942009	**HAM-PT-15**	EPA 300.0 Rev 2.1 1993	907517		
92772942010	**HAM-AP1-EB-01**	EPA 300.0 Rev 2.1 1993	907517		
92772942011	**HAM-AP1-FB-01**	EPA 300.0 Rev 2.1 1993	907517		
92772942012	**HAM-AP1-FD-01**	EPA 300.0 Rev 2.1 1993	907517		
92772942001	**HAM-PT-07**	EPA 3005A	908184	EPA 6020B	908439
92772942002	**HAM-PT-08**	EPA 3005A	908184	EPA 6020B	908439
92772942003	**HAM-PT-09**	EPA 3005A	908184	EPA 6020B	908439
92772942004	**HAM-PT-10**	EPA 3005A	908184	EPA 6020B	908439
92772942005	**HAM-PT-11**	EPA 3005A	908184	EPA 6020B	908439
92772942006	**HAM-PT-12**	EPA 3005A	908184	EPA 6020B	908439
92772942007	**HAM-PT-13**	EPA 3005A	908184	EPA 6020B	908439
92772942008	**HAM-PT-14**	EPA 3005A	908184	EPA 6020B	908439
92772942009	**HAM-PT-15**	EPA 3005A	908184	EPA 6020B	908439
92772942010	**HAM-AP1-EB-01**	EPA 3005A	908184	EPA 6020B	908439
92772942011	**HAM-AP1-FB-01**	EPA 3005A	908184	EPA 6020B	908439
92772942012	**HAM-AP1-FD-01**	EPA 3005A	908184	EPA 6020B	908439
92772942001	**HAM-PT-07**	EPA 7470A	908632	EPA 7470A	911697
92772942002	**HAM-PT-08**	EPA 7470A	908632	EPA 7470A	911697
92772942003	**HAM-PT-09**	EPA 7470A	908632	EPA 7470A	911697
92772942004	**HAM-PT-10**	EPA 7470A	908632	EPA 7470A	911697
92772942005	**HAM-PT-11**	EPA 7470A	908632	EPA 7470A	911697
92772942006	**HAM-PT-12**	EPA 7470A	908632	EPA 7470A	911697
92772942007	**HAM-PT-13**	EPA 7470A	908632	EPA 7470A	911697
92772942008	**HAM-PT-14**	EPA 7470A	908632	EPA 7470A	911697
92772942009	**HAM-PT-15**	EPA 7470A	908632	EPA 7470A	911697
92772942010	**HAM-AP1-EB-01**	EPA 7470A	908632	EPA 7470A	911697
92772942011	**HAM-AP1-FB-01**	EPA 7470A	908632	EPA 7470A	911697
92772942012	**HAM-AP1-FD-01**	EPA 7470A	908632	EPA 7470A	911697

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WO# : 92772942

92772942

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Docun

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accura

Page: 1 of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Geosyntec Contacts	Company Name:	
				Address:	
Email To:	SCS Contacts	Purchase Order No.:	GPC82474-0001	Pace Quote Reference:	
Phone:	Fax:	Project Name:	Hammond AP-1	Pace Project Manager:	Bonnie Vang
Requested Due Date/TAT:	10 Day	Project Number:		Pace Profile #:	16483

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER

☐ UST ☐ RCRA ☑ OTHER CCR

Site Location STATE: GA

ITEM #	Section D Required Client Information — SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE DATE	COLLECTED COMPOSITE TIME	COLLECTED COMPOSITE DATE	COLLECTED COMPOSITE TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	Chloride, Fluoride, Sulfate	Full App. III and IV metals	Major Ions (Profile 10835-2)	TDS	Residual Chlorine (Y/N)	92772942 Pace Project No./ Lab I.D.
	Valid Matrix Codes: MATRIX / CODE — DRINKING WATER DW; WATER WT; WASTE WATER WW; PRODUCT P; SOIL/SOLID SL; OIL OL; WIPE WP; AIR AR; OTHER OT; TISSUE TS																Y/N →	N	N	N	N		
1	HAM-PT-07	WG	G	1/6/2025	1544				5	3		1				1		X	X	X	X	N	
2	HAM-PT-08	WG	G	1/6/2025	1650				5	3		1				1		X	X	X	X	N	
3	HAM-PT-09	WG	G	1/7/2025	1037				5	3		1				1		X	X	X	X	N	
4	HAM-PT-10	WG	G	1/7/2025	1230				5	3		1				1		X	X	X	X	N	
5	HAM-PT-11	WG	G	1/7/2025	1137		JN 1/8/2025		5	3		1				1		X	X	X	X	N	
6	HAM-PT-12	WG	G	1/7/2025	0936				5	3		1				1		X	X	X	X	N	
7	HAM-PT-13	WG	G	1/6/2025	1247				5	3		1				1		X	X	X	X	N	
8	HAM-PT-14	WG	G	1/6/2025	1240				5	3		1				1		X	X	X	X	N	
9	HAM-PT-15	WG	G	1/6/2025	1423				5	3		1				1		X	X	X	X	N	
10	HAM-AP1-EB-01	WQ	G	1/7/2025	1255				5	3		1				1		X	X	X	X	N	
11	HAM-AP1-FB-01	WQ	G	1/7/2025	1250				5	3		1				1		X	X	X	X	N	
12	HAM-AP1-FD-01	WG	G	1/6/2025	0000				5	3		1				1		X	X	X	X	N	

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Task Code: HAM-CCR-CA-20250106	Thomas Kessler / Geo	1/7/2025	1700	[illegible] / Geosyntec	1/7/25	1700	
	[illegible] / Geosyntec	1/8/25	1030	Ryan Williams / Pace	1/9/25	1030	
	Ryan Williams / Pace	1/8/25	1245	[illegible]	1/8/25	1245	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Thomas Kessler / Geosyntec Consultants, Inc

SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY):

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-Feb-2007

Pace

DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Georgia Power

Project #:

WO#: 92772942

PM: BV **Due Date: 01/22/25**

CLIENT: 92- GP-HAM

Courier: ☐ Commercial ☐ FedEx ☑ Pace ☐ UPS ☐ USPS ☐ Other:____ ☐ Client

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No ☑ N/A

Date/Initials Person Examining Contents: 1/8/25 GH

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 083

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 4.1 Correction Factor: Add/Subtract (°C) 0.0

Cooler Temp Corrected (°C): 4.1

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: W				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____

Qualtrax ID: 69614

Page 1 of 2

DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

WO# : 92772942

PM: BV Due Date: 01/22/25

CLIENT: 92- GP-HAM

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Project #

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Client_____ Profile/EZ (Circle one)_____ Notes_____

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)		BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG8U-40 mL Amber Unpreserved vials (N/A)
CC																													
1		2	1				1	1																					
2		2	1				1	1																					
3		2	1				1	1																					
4		2	1				1	1																					
5		2	1				1	1																					
6		2	1				1	1																					
7		2	1				1	1																					
8		2	1				1	1																					
9		2	1				1	1																					
10		2	1				1	1																					
11		2	1				1	1																					
12		2	1				1	1																					

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

Qualtrax ID: 69614

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

April 03, 2025

Kristen Jurinko
Southern Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, GA 30308

RE: Project: Hammond AP-1-CA-20250203
Pace Project No.: 92778486

Dear Kristen Jurinko:

Enclosed are the analytical results for sample(s) received by the laboratory on February 07, 2025. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace National - Mt. Juliet
- Pace Analytical Services - Asheville
- Pace Analytical Services - West Columbia

Revision 1: Sample ID's for FB-01 and FD-01 were corrected to match COC.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Bonnie Vang
bonnie.vang@pacelabs.com
704-977-0968
Project Manager

Enclosures

cc: Kip Gray, Geosyntec
Christine Hug, Geosyntec Consultants, Inc.
Thomas Kessler, Geosyntec Consultants
Whitney Law, Geosyntec Consultants
Laura Midkiff, Southern Company
Caroline Nelson, Geosyntec Consultants, Inc
Jamie Newsome, Geosyntec Consultants
Zain Webb, Geosyntec Consultants

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: Hammond AP-1-CA-20250203
Pace Project No.: 92778486

Pace Analytical Services National

12065 Lebanon Road, Mt. Juliet, TN 37122
Alabama Certification #: 40660
Alaska Certification 17-026
Arizona Certification #: AZ0612
Arkansas Certification #: 88-0469
California Certification #: 2932
Canada Certification #: 1461.01
Colorado Certification #: TN00003
Connecticut Certification #: PH-0197
DOD Certification: #1461.01
EPA# TN00003
Florida Certification #: E87487
Georgia DW Certification #: 923
Georgia Certification: NELAP
Idaho Certification #: TN00003
Illinois Certification #: 200008
Indiana Certification #: C-TN-01
Iowa Certification #: 364
Kansas Certification #: E-10277
Kentucky UST Certification #: 16
Kentucky Certification #: 90010
Louisiana Certification #: AI30792
Louisiana DW Certification #: LA180010
Maine Certification #: TN0002
Maryland Certification #: 324
Massachusetts Certification #: M-TN003
Michigan Certification #: 9958
Minnesota Certification #: 047-999-395
Mississippi Certification #: TN00003
Missouri Certification #: 340
Montana Certification #: CERT0086
Nebraska Certification #: NE-OS-15-05
Nevada Certification #: TN-03-2002-34
New Hampshire Certification #: 2975
New Jersey Certification #: TN002
New Mexico DW Certification
New York Certification #: 11742
North Carolina Aquatic Toxicity Certification #: 41
North Carolina Drinking Water Certification #: 21704
North Carolina Environmental Certificate #: 375
North Dakota Certification #: R-140
Ohio VAP Certification #: CL0069
Oklahoma Certification #: 9915
Oregon Certification #: TN200002
Pennsylvania Certification #: 68-02979
Rhode Island Certification #: LAO00356
South Carolina Certification #: 84004
South Dakota Certification
Tennessee DW/Chem/Micro Certification #: 2006
Texas Mold Certification #: LAB0152
Texas Certification #: T 104704245-17-14
USDA Soil Permit #: P330-15-00234
Utah Certification #: TN00003
Virginia Certification #: VT2006
Vermont Dept. of Health: ID# VT-2006
Virginia Certification #: 460132
Washington Certification #: C847
West Virginia Certification #: 233
Wisconsin Certification #: 998093910
Wyoming UST Certification #: via A2LA 2926.01
A2LA-ISO 17025 Certification #: 1461.01
A2LA-ISO 17025 Certification #: 1461.02
AIHA-LAP/LLC EMLAP Certification #:100789

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Laboratory ID: 99030
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services West Columbia

106 Vantage Point Drive, West Columbia, SC 29172
Alaska Dept. of Energy Conservation, Cert# 20-002
California ELAP, cert# 3049
DoD, DoD QSM V5.4, cert# I.2224
DOE, DoD/DOE QSM V5.4, cert# I.2224.01
Florida, Dept. of Health, cert# E87653-70
Georgia, Env. Protection Division, cert# E87653
Illinois, EPA NELAP, cert# 2000552024-9
Kansas, Dept. of Health and Environment, cert# E-10417
Kentucky, Dept. for Env. Protection, UST, cert# 103582
Kentucky, Dept. for Env. Protection, cert# 98037
Louisiana, Dept. of Environmental Quality, cert# 5125
North Carolina, DEQ, Water Resources, cert# 329
New Jersey, Dept. of Env. Protection, cert# NLC 240005
Oklahoma, Dept. of Env. Quality, cert# 2023-175
Oregon, ELAP, cert# 4181-006
Pennsylvania, Dept. of Env. Protection, cert# 003
South Carolina, Dept. of Env. Services, cert# 32010001
Texas, Commission on Env. Quality, cert# TX-C24-00083
Virginia, Dept. of General Services, cert# 13080
Wisconsin, Dept. of Natural Resources, cert# 399136100

REPORT OF LABORATORY ANALYSIS

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE SUMMARY

Project: Hammond AP-1-CA-20250203
Pace Project No.: 92778486

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92778486001	**HAM-PT-07**	Water	02/04/25 11:56	02/07/25 14:35
92778486002	**HAM-PT-08**	Water	02/04/25 13:39	02/07/25 14:35
92778486003	**HAM-PT-09**	Water	02/05/25 11:21	02/07/25 14:35
92778486004	**HAM-PT-10**	Water	02/05/25 10:00	02/07/25 14:35
92778486005	**HAM-PT-11**	Water	02/05/25 10:01	02/07/25 14:35
92778486006	**HAM-PT-12**	Water	02/05/25 11:41	02/07/25 14:35
92778486007	**HAM-PT-13**	Water	02/04/25 10:05	02/07/25 14:35
92778486008	**HAM-PT-14**	Water	02/04/25 10:08	02/07/25 14:35
92778486009	**HAM-PT-15**	Water	02/04/25 14:55	02/07/25 14:35
92778486010	**HAM-AP1-EB-01**	Water	02/05/25 12:30	02/07/25 14:35
92778486011	**HAM-AP1-FB-01**	Water	02/05/25 12:20	02/07/25 14:35
92778486012	**HAM-AP1-FD-01**	Water	02/05/25 00:00	02/07/25 14:35

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SAMPLE ANALYTE COUNT

Project: Hammond AP-1-CA-20250203
Pace Project No.: 92778486

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92778486001	**HAM-PT-07**	EPA 6020B	JPD	1	PAN
		EPA 7470A	MAB2	1	PASI-A
		SM 2320B-2011	YEG	3	PASI-A
		SM 2540C-2015	CMW1	1	PASI-A
		SM 4500-S2D-2011	JP1	1	PASI-A
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6020B	BK1	18	PASI-WC
92778486002	**HAM-PT-08**	EPA 6020B	JPD	1	PAN
		EPA 7470A	MAB2	1	PASI-A
		SM 2320B-2011	YEG	3	PASI-A
		SM 2540C-2015	CMW1	1	PASI-A
		SM 4500-S2D-2011	JP1	1	PASI-A
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6020B	BK1	18	PASI-WC
92778486003	**HAM-PT-09**	EPA 6020B	JPD	1	PAN
		EPA 7470A	MAB2	1	PASI-A
		SM 2320B-2011	SMS	3	PASI-A
		SM 2540C-2015	YEG	1	PASI-A
		SM 4500-S2D-2011	JP1	1	PASI-A
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6020B	BK1	18	PASI-WC
92778486004	**HAM-PT-10**	EPA 6020B	JPD	1	PAN
		EPA 7470A	MAB2	1	PASI-A
		SM 2320B-2011	SMS	3	PASI-A
		SM 2540C-2015	YEG	1	PASI-A
		SM 4500-S2D-2011	JP1	1	PASI-A
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6020B	BK1	18	PASI-WC
92778486005	**HAM-PT-11**	EPA 6020B	JPD	1	PAN
		EPA 7470A	MAB2	1	PASI-A
		SM 2320B-2011	SMS	3	PASI-A
		SM 2540C-2015	YEG	1	PASI-A
		SM 4500-S2D-2011	JP1	1	PASI-A
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6020B	BK1	18	PASI-WC
92778486006	**HAM-PT-12**	EPA 6020B	JPD	1	PAN
		EPA 7470A	MAB2	1	PASI-A

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SAMPLE ANALYTE COUNT

Project: Hammond AP-1-CA-20250203
Pace Project No.: 92778486

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 2320B-2011	SMS	3	PASI-A
		SM 2540C-2015	YEG	1	PASI-A
		SM 4500-S2D-2011	JP1	1	PASI-A
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6020B	BK1	18	PASI-WC
92778486007	**HAM-PT-13**	EPA 6020B	JPD	1	PAN
		EPA 7470A	MAB2	1	PASI-A
		SM 2320B-2011	YEG	3	PASI-A
		SM 2540C-2015	CMW1	1	PASI-A
		SM 4500-S2D-2011	JP1	1	PASI-A
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6020B	BK1	18	PASI-WC
92778486008	**HAM-PT-14**	EPA 6020B	JPD	1	PAN
		EPA 7470A	MAB2	1	PASI-A
		SM 2320B-2011	YEG	3	PASI-A
		SM 2540C-2015	CMW1	1	PASI-A
		SM 4500-S2D-2011	JP1	1	PASI-A
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6020B	BK1	18	PASI-WC
92778486009	**HAM-PT-15**	EPA 6020B	JPD	1	PAN
		EPA 7470A	MAB2	1	PASI-A
		SM 2320B-2011	YEG	3	PASI-A
		SM 2540C-2015	CMW1	1	PASI-A
		SM 4500-S2D-2011	JP1	1	PASI-A
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6020B	BK1	18	PASI-WC
92778486010	**HAM-AP1-EB-01**	EPA 6020B	JPD	1	PAN
		EPA 7470A	MAB2	1	PASI-A
		SM 2320B-2011	SMS	3	PASI-A
		SM 2540C-2015	YEG	1	PASI-A
		SM 4500-S2D-2011	JP1	1	PASI-A
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6020B	BK1	18	PASI-WC
92778486011	**HAM-AP1-FB-01**	EPA 6020B	JPD	1	PAN
		EPA 7470A	MAB2	1	PASI-A
		SM 2320B-2011	SMS	3	PASI-A
		SM 2540C-2015	YEG	1	PASI-A

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: Hammond AP-1-CA-20250203
Pace Project No.: 92778486

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 4500-S2D-2011	JP1	1	PASI-A
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6020B	BK1	18	PASI-WC
92778486012	**HAM-AP1-FD-01**	EPA 6020B	JPD	1	PAN
		EPA 7470A	MAB2	1	PASI-A
		SM 2320B-2011	SMS	3	PASI-A
		SM 2540C-2015	YEG	1	PASI-A
		SM 4500-S2D-2011	JP1	1	PASI-A
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6020B	BK1	18	PASI-WC

PAN = Pace National - Mt. Juliet
PASI-A = Pace Analytical Services - Asheville
PASI-WC = Pace Analytical Services - West Columbia

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SUMMARY OF DETECTION

Project: Hammond AP-1-CA-20250203
Pace Project No.: 92778486

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92778486001	**HAM-PT-07**					
EPA 6020B	Lithium	0.0461	mg/L	0.0300	03/07/25 02:49	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	169	mg/L	5.0	02/10/25 19:38	
SM 2320B-2011	Alkalinity, Total as CaCO3	169	mg/L	5.0	02/10/25 19:38	
SM 2540C-2015	Total Dissolved Solids	520	mg/L	25.0	02/08/25 13:02	
EPA 300.0 Rev 2.1 1993	Chloride	19.3	mg/L	1.0	02/09/25 05:28	
EPA 300.0 Rev 2.1 1993	Fluoride	0.40	mg/L	0.10	02/09/25 05:28	
EPA 300.0 Rev 2.1 1993	Sulfate	157	mg/L	4.0	02/09/25 09:38	
EPA 6020B	Arsenic	0.15	mg/L	0.0050	03/20/25 13:01	
EPA 6020B	Barium	0.047	mg/L	0.0050	03/20/25 13:01	
EPA 6020B	Boron	0.74	mg/L	0.40	03/20/25 22:50	
EPA 6020B	Calcium	121	mg/L	10.0	03/20/25 17:21	
EPA 6020B	Cobalt	0.036	mg/L	0.0050	03/20/25 13:01	
EPA 6020B	Iron	7.5	mg/L	0.040	03/20/25 13:01	
EPA 6020B	Magnesium	16.8	mg/L	0.050	03/20/25 13:01	
EPA 6020B	Manganese	3.4	mg/L	0.40	03/20/25 17:21	
EPA 6020B	Molybdenum	0.013	mg/L	0.010	03/20/25 13:01	
EPA 6020B	Potassium	5.5	mg/L	0.50	03/20/25 13:01	
EPA 6020B	Sodium	8.4	mg/L	1.0	03/20/25 13:01	
EPA 6020B	Thallium	0.00019J	mg/L	0.0010	03/20/25 13:01	
92778486002	**HAM-PT-08**					
EPA 6020B	Lithium	0.0201J	mg/L	0.0300	03/07/25 02:52	J
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	113	mg/L	5.0	02/10/25 19:49	
SM 2320B-2011	Alkalinity, Total as CaCO3	113	mg/L	5.0	02/10/25 19:49	
SM 2540C-2015	Total Dissolved Solids	483	mg/L	25.0	02/08/25 13:02	
EPA 300.0 Rev 2.1 1993	Chloride	19.6	mg/L	1.0	02/08/25 18:29	
EPA 300.0 Rev 2.1 1993	Fluoride	0.18	mg/L	0.10	02/08/25 18:29	
EPA 300.0 Rev 2.1 1993	Sulfate	170	mg/L	4.0	02/09/25 03:04	M1
EPA 6020B	Arsenic	0.033	mg/L	0.0050	03/20/25 13:06	
EPA 6020B	Barium	0.049	mg/L	0.0050	03/20/25 13:06	
EPA 6020B	Boron	0.82	mg/L	0.40	03/20/25 22:59	
EPA 6020B	Calcium	107	mg/L	10.0	03/20/25 17:25	
EPA 6020B	Cobalt	0.040	mg/L	0.0050	03/20/25 13:06	
EPA 6020B	Iron	1.8	mg/L	0.040	03/20/25 13:06	
EPA 6020B	Magnesium	13.4	mg/L	0.050	03/20/25 13:06	
EPA 6020B	Manganese	2.3	mg/L	0.40	03/20/25 17:25	
EPA 6020B	Molybdenum	0.0096J	mg/L	0.010	03/20/25 13:06	
EPA 6020B	Potassium	5.0	mg/L	0.50	03/20/25 13:06	
EPA 6020B	Sodium	6.8	mg/L	1.0	03/20/25 13:06	
EPA 6020B	Thallium	0.00018J	mg/L	0.0010	03/20/25 13:06	
92778486003	**HAM-PT-09**					
EPA 6020B	Lithium	0.00155J	mg/L	0.0300	03/07/25 02:55	J
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	131	mg/L	5.0	02/12/25 19:10	
SM 2320B-2011	Alkalinity, Total as CaCO3	131	mg/L	5.0	02/12/25 19:10	
SM 2540C-2015	Total Dissolved Solids	422	mg/L	25.0	02/11/25 12:06	
EPA 300.0 Rev 2.1 1993	Chloride	50.4	mg/L	1.0	02/08/25 19:10	
EPA 300.0 Rev 2.1 1993	Fluoride	0.37	mg/L	0.10	02/08/25 19:10	

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SUMMARY OF DETECTION

Project: Hammond AP-1-CA-20250203
Pace Project No.: 92778486

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92778486003	**HAM-PT-09**					
EPA 300.0 Rev 2.1 1993	Sulfate	111	mg/L	3.0	02/09/25 03:46	
EPA 6020B	Barium	0.060	mg/L	0.0050	03/20/25 13:10	
EPA 6020B	Boron	1.6	mg/L	0.40	03/20/25 23:08	
EPA 6020B	Calcium	89.3	mg/L	10.0	03/20/25 17:39	
EPA 6020B	Cobalt	0.0022J	mg/L	0.0050	03/20/25 13:10	
EPA 6020B	Iron	1.0	mg/L	0.040	03/20/25 13:10	
EPA 6020B	Magnesium	20.6	mg/L	0.050	03/20/25 13:10	
EPA 6020B	Manganese	0.33	mg/L	0.040	03/20/25 13:10	
EPA 6020B	Molybdenum	0.23	mg/L	0.010	03/20/25 13:10	
EPA 6020B	Potassium	6.2	mg/L	0.50	03/20/25 13:10	
EPA 6020B	Sodium	12.3	mg/L	1.0	03/20/25 13:10	
92778486004	**HAM-PT-10**					
EPA 6020B	Lithium	0.000905J	mg/L	0.0300	03/07/25 02:58	J
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	114	mg/L	5.0	02/12/25 19:25	
SM 2320B-2011	Alkalinity, Total as CaCO3	114	mg/L	5.0	02/12/25 19:25	
SM 2540C-2015	Total Dissolved Solids	401	mg/L	25.0	02/11/25 12:07	
EPA 300.0 Rev 2.1 1993	Chloride	46.3	mg/L	1.0	02/08/25 19:24	
EPA 300.0 Rev 2.1 1993	Fluoride	0.19	mg/L	0.10	02/08/25 19:24	
EPA 300.0 Rev 2.1 1993	Sulfate	110	mg/L	3.0	02/09/25 04:00	
EPA 6020B	Barium	0.046	mg/L	0.0050	03/20/25 13:15	
EPA 6020B	Boron	1.5	mg/L	0.40	03/20/25 23:17	
EPA 6020B	Calcium	98.1	mg/L	10.0	03/20/25 17:44	
EPA 6020B	Cobalt	0.0014J	mg/L	0.0050	03/20/25 13:15	
EPA 6020B	Iron	1.0	mg/L	0.040	03/20/25 13:15	
EPA 6020B	Magnesium	12.9	mg/L	0.050	03/20/25 13:15	
EPA 6020B	Manganese	0.43	mg/L	0.040	03/20/25 13:15	
EPA 6020B	Molybdenum	0.079	mg/L	0.010	03/20/25 13:15	
EPA 6020B	Potassium	6.6	mg/L	0.50	03/20/25 13:15	
EPA 6020B	Sodium	9.1	mg/L	1.0	03/20/25 13:15	
92778486005	**HAM-PT-11**					
EPA 6020B	Lithium	0.00159J	mg/L	0.0300	03/07/25 03:08	J
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	121	mg/L	5.0	02/12/25 19:32	
SM 2320B-2011	Alkalinity, Total as CaCO3	121	mg/L	5.0	02/12/25 19:32	
SM 2540C-2015	Total Dissolved Solids	400	mg/L	25.0	02/11/25 12:07	
EPA 300.0 Rev 2.1 1993	Chloride	37.7	mg/L	1.0	02/08/25 19:38	
EPA 300.0 Rev 2.1 1993	Fluoride	0.27	mg/L	0.10	02/08/25 19:38	
EPA 300.0 Rev 2.1 1993	Sulfate	96.4	mg/L	3.0	02/09/25 04:14	
EPA 6020B	Barium	0.062	mg/L	0.0050	03/20/25 13:20	
EPA 6020B	Boron	1.5	mg/L	0.40	03/20/25 23:26	
EPA 6020B	Calcium	95.8	mg/L	10.0	03/20/25 17:48	
EPA 6020B	Cobalt	0.0024J	mg/L	0.0050	03/20/25 13:20	
EPA 6020B	Iron	0.89	mg/L	0.040	03/20/25 13:20	
EPA 6020B	Magnesium	13.8	mg/L	0.050	03/20/25 13:20	
EPA 6020B	Manganese	0.35	mg/L	0.040	03/20/25 13:20	
EPA 6020B	Molybdenum	0.11	mg/L	0.010	03/20/25 13:20	
EPA 6020B	Potassium	6.3	mg/L	0.50	03/20/25 13:20	

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SUMMARY OF DETECTION

Project: Hammond AP-1-CA-20250203
Pace Project No.: 92778486

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92778486005	**HAM-PT-11**					
EPA 6020B	Sodium	8.5	mg/L	1.0	03/20/25 13:20	
92778486006	**HAM-PT-12**					
EPA 6020B	Lithium	0.00122J	mg/L	0.0300	03/07/25 03:11	J
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	120	mg/L	5.0	02/12/25 19:40	
SM 2320B-2011	Alkalinity, Total as CaCO3	120	mg/L	5.0	02/12/25 19:40	
SM 2540C-2015	Total Dissolved Solids	416	mg/L	25.0	02/11/25 12:07	
EPA 300.0 Rev 2.1 1993	Chloride	44.0	mg/L	1.0	02/08/25 19:52	
EPA 300.0 Rev 2.1 1993	Fluoride	0.25	mg/L	0.10	02/08/25 19:52	
EPA 300.0 Rev 2.1 1993	Sulfate	114	mg/L	3.0	02/09/25 04:29	
EPA 6020B	Barium	0.055	mg/L	0.0050	03/20/25 13:24	
EPA 6020B	Boron	1.6	mg/L	0.40	03/20/25 23:35	
EPA 6020B	Cadmium	0.00015J	mg/L	0.00050	03/20/25 13:24	
EPA 6020B	Calcium	91.4	mg/L	10.0	03/20/25 17:53	
EPA 6020B	Cobalt	0.0023J	mg/L	0.0050	03/20/25 13:24	
EPA 6020B	Iron	1.4	mg/L	0.040	03/20/25 13:24	
EPA 6020B	Magnesium	19.1	mg/L	0.050	03/20/25 13:24	
EPA 6020B	Manganese	0.44	mg/L	0.040	03/20/25 13:24	
EPA 6020B	Molybdenum	0.16	mg/L	0.010	03/20/25 13:24	
EPA 6020B	Potassium	6.0	mg/L	0.50	03/20/25 13:24	
EPA 6020B	Sodium	11.0	mg/L	1.0	03/20/25 13:24	
92778486007	**HAM-PT-13**					
EPA 6020B	Lithium	0.0520	mg/L	0.0300	03/07/25 03:14	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	163	mg/L	5.0	02/10/25 19:58	
SM 2320B-2011	Alkalinity, Total as CaCO3	163	mg/L	5.0	02/10/25 19:58	
SM 2540C-2015	Total Dissolved Solids	527	mg/L	25.0	02/08/25 13:03	
EPA 300.0 Rev 2.1 1993	Chloride	20.2	mg/L	1.0	02/08/25 20:06	
EPA 300.0 Rev 2.1 1993	Fluoride	0.35	mg/L	0.10	02/08/25 20:06	
EPA 300.0 Rev 2.1 1993	Sulfate	161	mg/L	4.0	02/09/25 04:43	
EPA 6020B	Arsenic	0.19	mg/L	0.0050	03/20/25 13:29	
EPA 6020B	Barium	0.046	mg/L	0.0050	03/20/25 13:29	
EPA 6020B	Boron	0.73	mg/L	0.40	03/20/25 23:44	
EPA 6020B	Calcium	114	mg/L	10.0	03/20/25 17:58	
EPA 6020B	Cobalt	0.018	mg/L	0.0050	03/20/25 13:29	
EPA 6020B	Iron	7.6	mg/L	0.040	03/20/25 13:29	
EPA 6020B	Magnesium	16.4	mg/L	0.050	03/20/25 13:29	
EPA 6020B	Manganese	2.9	mg/L	0.40	03/20/25 17:58	
EPA 6020B	Molybdenum	0.0099J	mg/L	0.010	03/20/25 13:29	
EPA 6020B	Potassium	5.4	mg/L	0.50	03/20/25 13:29	
EPA 6020B	Sodium	8.4	mg/L	1.0	03/20/25 13:29	
EPA 6020B	Thallium	0.00021J	mg/L	0.0010	03/20/25 13:29	
92778486008	**HAM-PT-14**					
EPA 6020B	Lithium	0.0528	mg/L	0.0300	03/07/25 03:17	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	170	mg/L	5.0	02/10/25 20:09	
SM 2320B-2011	Alkalinity, Total as CaCO3	170	mg/L	5.0	02/10/25 20:09	
SM 2540C-2015	Total Dissolved Solids	546	mg/L	25.0	02/08/25 13:03	
EPA 300.0 Rev 2.1 1993	Chloride	20.5	mg/L	1.0	02/08/25 20:20	

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SUMMARY OF DETECTION

Project: Hammond AP-1-CA-20250203
Pace Project No.: 92778486

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92778486008	**HAM-PT-14**					
EPA 300.0 Rev 2.1 1993	Fluoride	0.30	mg/L	0.10	02/08/25 20:20	
EPA 300.0 Rev 2.1 1993	Sulfate	170	mg/L	4.0	02/09/25 05:25	
EPA 6020B	Arsenic	0.26	mg/L	0.0050	03/20/25 13:34	
EPA 6020B	Barium	0.043	mg/L	0.0050	03/20/25 13:34	
EPA 6020B	Boron	0.75	mg/L	0.40	03/20/25 23:53	
EPA 6020B	Calcium	123	mg/L	10.0	03/20/25 18:02	
EPA 6020B	Cobalt	0.019	mg/L	0.0050	03/20/25 13:34	
EPA 6020B	Iron	11.7	mg/L	0.040	03/20/25 13:34	
EPA 6020B	Magnesium	16.8	mg/L	0.050	03/20/25 13:34	
EPA 6020B	Manganese	3.1	mg/L	0.40	03/20/25 18:02	
EPA 6020B	Molybdenum	0.015	mg/L	0.010	03/20/25 13:34	
EPA 6020B	Potassium	5.6	mg/L	0.50	03/20/25 13:34	
EPA 6020B	Sodium	8.8	mg/L	1.0	03/20/25 13:34	
92778486009	**HAM-PT-15**					
EPA 6020B	Lithium	0.0421	mg/L	0.0300	03/07/25 03:21	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	146	mg/L	5.0	02/10/25 20:20	
SM 2320B-2011	Alkalinity, Total as CaCO3	146	mg/L	5.0	02/10/25 20:20	
SM 2540C-2015	Total Dissolved Solids	515	mg/L	25.0	02/08/25 13:03	
EPA 300.0 Rev 2.1 1993	Chloride	17.4	mg/L	1.0	02/08/25 21:02	
EPA 300.0 Rev 2.1 1993	Fluoride	0.32	mg/L	0.10	02/08/25 21:02	
EPA 300.0 Rev 2.1 1993	Sulfate	173	mg/L	4.0	02/09/25 05:39	M1
EPA 6020B	Arsenic	0.078	mg/L	0.0050	03/20/25 13:38	
EPA 6020B	Barium	0.052	mg/L	0.0050	03/20/25 13:38	
EPA 6020B	Boron	0.80	mg/L	0.40	03/21/25 00:02	
EPA 6020B	Cadmium	0.00031J	mg/L	0.00050	03/20/25 13:38	
EPA 6020B	Calcium	117	mg/L	10.0	03/20/25 18:07	
EPA 6020B	Cobalt	0.026	mg/L	0.0050	03/20/25 13:38	
EPA 6020B	Iron	2.3	mg/L	0.040	03/20/25 13:38	
EPA 6020B	Magnesium	14.6	mg/L	0.050	03/20/25 13:38	
EPA 6020B	Manganese	4.1	mg/L	0.40	03/20/25 18:07	
EPA 6020B	Molybdenum	0.014	mg/L	0.010	03/20/25 13:38	
EPA 6020B	Potassium	5.4	mg/L	0.50	03/20/25 13:38	
EPA 6020B	Sodium	7.4	mg/L	1.0	03/20/25 13:38	
EPA 6020B	Thallium	0.00050J	mg/L	0.0010	03/20/25 13:38	
92778486010	**HAM-AP1-EB-01**					
EPA 6020B	Iron	0.050	mg/L	0.040	03/20/25 13:43	
EPA 6020B	Manganese	0.0015J	mg/L	0.040	03/20/25 13:43	
92778486011	**HAM-AP1-FB-01**					
EPA 6020B	Lithium	0.00809J	mg/L	0.0300	03/07/25 03:27	J
92778486012	**HAM-AP1-FD-01**					
EPA 6020B	Lithium	0.0538	mg/L	0.0300	03/07/25 03:30	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	172	mg/L	5.0	02/12/25 19:54	
SM 2320B-2011	Alkalinity, Total as CaCO3	172	mg/L	5.0	02/12/25 19:54	
SM 2540C-2015	Total Dissolved Solids	516	mg/L	25.0	02/11/25 12:08	
EPA 300.0 Rev 2.1 1993	Chloride	20.6	mg/L	1.0	02/08/25 21:43	

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SUMMARY OF DETECTION

Project: Hammond AP-1-CA-20250203
Pace Project No.: 92778486

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92778486012	**HAM-AP1-FD-01**					
EPA 300.0 Rev 2.1 1993	Fluoride	0.30	mg/L	0.10	02/08/25 21:43	
EPA 300.0 Rev 2.1 1993	Sulfate	165	mg/L	4.0	02/09/25 06:20	
EPA 6020B	Arsenic	0.26	mg/L	0.0050	03/20/25 14:01	
EPA 6020B	Barium	0.043	mg/L	0.0050	03/20/25 14:01	
EPA 6020B	Boron	0.77	mg/L	0.40	03/20/25 17:14	
EPA 6020B	Calcium	115	mg/L	10.0	03/20/25 18:21	M1
EPA 6020B	Cobalt	0.019	mg/L	0.0050	03/20/25 14:01	
EPA 6020B	Iron	11.3	mg/L	0.040	03/20/25 14:01	M1
EPA 6020B	Magnesium	16.7	mg/L	0.050	03/20/25 14:01	M1
EPA 6020B	Manganese	2.8	mg/L	0.40	03/20/25 17:14	
EPA 6020B	Molybdenum	0.015	mg/L	0.010	03/20/25 14:01	
EPA 6020B	Potassium	5.5	mg/L	0.50	03/20/25 14:01	
EPA 6020B	Sodium	8.8	mg/L	1.0	03/20/25 14:01	

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ANALYTICAL RESULTS

Project: Hammond AP-1-CA-20250203
Pace Project No.: 92778486

Sample: HAM-PT-07 **Lab ID: 92778486001** Collected: 02/04/25 11:56 Received: 02/07/25 14:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.0461**	mg/L	0.0300	0.000600	1	03/06/25 22:51	03/07/25 02:49	7439-93-2	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	02/09/25 17:53	02/11/25 14:43	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**169**	mg/L	5.0	5.0	1		02/10/25 19:38		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/10/25 19:38		
Alkalinity, Total as CaCO3	**169**	mg/L	5.0	5.0	1		02/10/25 19:38		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**520**	mg/L	25.0	25.0	1		02/08/25 13:02		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		02/08/25 03:47	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**19.3**	mg/L	1.0	0.60	1		02/09/25 05:28	16887-00-6	
Fluoride	**0.40**	mg/L	0.10	0.050	1		02/09/25 05:28	16984-48-8	
Sulfate	**157**	mg/L	4.0	2.0	4		02/09/25 09:38	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	03/19/25 06:10	03/20/25 13:01	7440-36-0	
Arsenic	**0.15**	mg/L	0.0050	0.0012	1	03/19/25 06:10	03/20/25 13:01	7440-38-2	
Barium	**0.047**	mg/L	0.0050	0.0012	1	03/19/25 06:10	03/20/25 13:01	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	03/19/25 06:10	03/20/25 13:01	7440-41-7	
Boron	**0.74**	mg/L	0.40	0.062	10	03/19/25 06:10	03/20/25 22:50	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/19/25 06:10	03/20/25 13:01	7440-43-9	
Calcium	**121**	mg/L	10.0	1.0	10	03/19/25 06:10	03/20/25 17:21	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/19/25 06:10	03/20/25 13:01	7440-47-3	
Cobalt	**0.036**	mg/L	0.0050	0.0012	1	03/19/25 06:10	03/20/25 13:01	7440-48-4	
Iron	**7.5**	mg/L	0.040	0.012	1	03/19/25 06:10	03/20/25 13:01	7439-89-6	
Lead	ND	mg/L	0.0010	0.00025	1	03/19/25 06:10	03/20/25 13:01	7439-92-1	
Magnesium	**16.8**	mg/L	0.050	0.010	1	03/19/25 06:10	03/20/25 13:01	7439-95-4	
Manganese	**3.4**	mg/L	0.40	0.012	10	03/19/25 06:10	03/20/25 17:21	7439-96-5	
Molybdenum	**0.013**	mg/L	0.010	0.0025	1	03/19/25 06:10	03/20/25 13:01	7439-98-7	
Potassium	**5.5**	mg/L	0.50	0.10	1	03/19/25 06:10	03/20/25 13:01	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	03/19/25 06:10	03/20/25 13:01	7782-49-2	

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ANALYTICAL RESULTS

Project: Hammond AP-1-CA-20250203
Pace Project No.: 92778486

Sample: HAM-PT-07 **Lab ID: 92778486001** Collected: 02/04/25 11:56 Received: 02/07/25 14:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Sodium	**8.4**	mg/L	1.0	0.15	1	03/19/25 06:10	03/20/25 13:01	7440-23-5	
Thallium	**0.00019J**	mg/L	0.0010	0.00015	1	03/19/25 06:10	03/20/25 13:01	7440-28-0	

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ANALYTICAL RESULTS

Project: Hammond AP-1-CA-20250203
Pace Project No.: 92778486

Sample: HAM-PT-08 **Lab ID: 92778486002** Collected: 02/04/25 13:39 Received: 02/07/25 14:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.0201J**	mg/L	0.0300	0.000600	1	03/06/25 22:51	03/07/25 02:52	7439-93-2	J
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	02/09/25 17:53	02/11/25 14:45	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**113**	mg/L	5.0	5.0	1		02/10/25 19:49		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/10/25 19:49		
Alkalinity, Total as CaCO3	**113**	mg/L	5.0	5.0	1		02/10/25 19:49		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**483**	mg/L	25.0	25.0	1		02/08/25 13:02		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		02/08/25 03:47	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**19.6**	mg/L	1.0	0.60	1		02/08/25 18:29	16887-00-6	
Fluoride	**0.18**	mg/L	0.10	0.050	1		02/08/25 18:29	16984-48-8	
Sulfate	**170**	mg/L	4.0	2.0	4		02/09/25 03:04	14808-79-8	M1
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	03/19/25 06:10	03/20/25 13:06	7440-36-0	
Arsenic	**0.033**	mg/L	0.0050	0.0012	1	03/19/25 06:10	03/20/25 13:06	7440-38-2	
Barium	**0.049**	mg/L	0.0050	0.0012	1	03/19/25 06:10	03/20/25 13:06	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	03/19/25 06:10	03/20/25 13:06	7440-41-7	
Boron	**0.82**	mg/L	0.40	0.062	10	03/19/25 06:10	03/20/25 22:59	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/19/25 06:10	03/20/25 13:06	7440-43-9	
Calcium	**107**	mg/L	10.0	1.0	10	03/19/25 06:10	03/20/25 17:25	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/19/25 06:10	03/20/25 13:06	7440-47-3	
Cobalt	**0.040**	mg/L	0.0050	0.0012	1	03/19/25 06:10	03/20/25 13:06	7440-48-4	
Iron	**1.8**	mg/L	0.040	0.012	1	03/19/25 06:10	03/20/25 13:06	7439-89-6	
Lead	ND	mg/L	0.0010	0.00025	1	03/19/25 06:10	03/20/25 13:06	7439-92-1	
Magnesium	**13.4**	mg/L	0.050	0.010	1	03/19/25 06:10	03/20/25 13:06	7439-95-4	
Manganese	**2.3**	mg/L	0.40	0.012	10	03/19/25 06:10	03/20/25 17:25	7439-96-5	
Molybdenum	**0.0096J**	mg/L	0.010	0.0025	1	03/19/25 06:10	03/20/25 13:06	7439-98-7	
Potassium	**5.0**	mg/L	0.50	0.10	1	03/19/25 06:10	03/20/25 13:06	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	03/19/25 06:10	03/20/25 13:06	7782-49-2	

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ANALYTICAL RESULTS

Project: Hammond AP-1-CA-20250203
Pace Project No.: 92778486

Sample: HAM-PT-08 **Lab ID: 92778486002** Collected: 02/04/25 13:39 Received: 02/07/25 14:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Sodium	**6.8**	mg/L	1.0	0.15	1	03/19/25 06:10	03/20/25 13:06	7440-23-5	
Thallium	**0.00018J**	mg/L	0.0010	0.00015	1	03/19/25 06:10	03/20/25 13:06	7440-28-0	

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ANALYTICAL RESULTS

Project: Hammond AP-1-CA-20250203
Pace Project No.: 92778486

Sample: HAM-PT-09 **Lab ID: 92778486003** Collected: 02/05/25 11:21 Received: 02/07/25 14:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.00155J**	mg/L	0.0300	0.000600	1	03/06/25 22:51	03/07/25 02:55	7439-93-2	J
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	02/09/25 17:53	02/11/25 14:47	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**131**	mg/L	5.0	5.0	1		02/12/25 19:10		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/12/25 19:10		
Alkalinity, Total as CaCO3	**131**	mg/L	5.0	5.0	1		02/12/25 19:10		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**422**	mg/L	25.0	25.0	1		02/11/25 12:06		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		02/08/25 03:56	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**50.4**	mg/L	1.0	0.60	1		02/08/25 19:10	16887-00-6	
Fluoride	**0.37**	mg/L	0.10	0.050	1		02/08/25 19:10	16984-48-8	
Sulfate	**111**	mg/L	3.0	1.5	3		02/09/25 03:46	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	03/19/25 06:10	03/20/25 13:10	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	03/19/25 06:10	03/20/25 13:10	7440-38-2	
Barium	**0.060**	mg/L	0.0050	0.0012	1	03/19/25 06:10	03/20/25 13:10	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	03/19/25 06:10	03/20/25 13:10	7440-41-7	
Boron	**1.6**	mg/L	0.40	0.062	10	03/19/25 06:10	03/20/25 23:08	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/19/25 06:10	03/20/25 13:10	7440-43-9	
Calcium	**89.3**	mg/L	10.0	1.0	10	03/19/25 06:10	03/20/25 17:39	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/19/25 06:10	03/20/25 13:10	7440-47-3	
Cobalt	**0.0022J**	mg/L	0.0050	0.0012	1	03/19/25 06:10	03/20/25 13:10	7440-48-4	
Iron	**1.0**	mg/L	0.040	0.012	1	03/19/25 06:10	03/20/25 13:10	7439-89-6	
Lead	ND	mg/L	0.0010	0.00025	1	03/19/25 06:10	03/20/25 13:10	7439-92-1	
Magnesium	**20.6**	mg/L	0.050	0.010	1	03/19/25 06:10	03/20/25 13:10	7439-95-4	
Manganese	**0.33**	mg/L	0.040	0.0012	1	03/19/25 06:10	03/20/25 13:10	7439-96-5	
Molybdenum	**0.23**	mg/L	0.010	0.0025	1	03/19/25 06:10	03/20/25 13:10	7439-98-7	
Potassium	**6.2**	mg/L	0.50	0.10	1	03/19/25 06:10	03/20/25 13:10	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	03/19/25 06:10	03/20/25 13:10	7782-49-2	

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ANALYTICAL RESULTS

Project: Hammond AP-1-CA-20250203
Pace Project No.: 92778486

Sample: HAM-PT-09 **Lab ID: 92778486003** Collected: 02/05/25 11:21 Received: 02/07/25 14:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Sodium	**12.3**	mg/L	1.0	0.15	1	03/19/25 06:10	03/20/25 13:10	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	03/19/25 06:10	03/20/25 13:10	7440-28-0	

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ANALYTICAL RESULTS

Project: Hammond AP-1-CA-20250203
Pace Project No.: 92778486

Sample: HAM-PT-10 **Lab ID: 92778486004** Collected: 02/05/25 10:00 Received: 02/07/25 14:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.000905J**	mg/L	0.0300	0.000600	1	03/06/25 22:51	03/07/25 02:58	7439-93-2	J
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	02/09/25 17:53	02/11/25 14:49	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**114**	mg/L	5.0	5.0	1		02/12/25 19:25		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/12/25 19:25		
Alkalinity, Total as CaCO3	**114**	mg/L	5.0	5.0	1		02/12/25 19:25		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**401**	mg/L	25.0	25.0	1		02/11/25 12:07		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		02/08/25 03:56	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**46.3**	mg/L	1.0	0.60	1		02/08/25 19:24	16887-00-6	
Fluoride	**0.19**	mg/L	0.10	0.050	1		02/08/25 19:24	16984-48-8	
Sulfate	**110**	mg/L	3.0	1.5	3		02/09/25 04:00	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	03/19/25 06:10	03/20/25 13:15	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	03/19/25 06:10	03/20/25 13:15	7440-38-2	
Barium	**0.046**	mg/L	0.0050	0.0012	1	03/19/25 06:10	03/20/25 13:15	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	03/19/25 06:10	03/20/25 13:15	7440-41-7	
Boron	**1.5**	mg/L	0.40	0.062	10	03/19/25 06:10	03/20/25 23:17	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/19/25 06:10	03/20/25 13:15	7440-43-9	
Calcium	**98.1**	mg/L	10.0	1.0	10	03/19/25 06:10	03/20/25 17:44	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/19/25 06:10	03/20/25 13:15	7440-47-3	
Cobalt	**0.0014J**	mg/L	0.0050	0.0012	1	03/19/25 06:10	03/20/25 13:15	7440-48-4	
Iron	**1.0**	mg/L	0.040	0.012	1	03/19/25 06:10	03/20/25 13:15	7439-89-6	
Lead	ND	mg/L	0.0010	0.00025	1	03/19/25 06:10	03/20/25 13:15	7439-92-1	
Magnesium	**12.9**	mg/L	0.050	0.010	1	03/19/25 06:10	03/20/25 13:15	7439-95-4	
Manganese	**0.43**	mg/L	0.040	0.0012	1	03/19/25 06:10	03/20/25 13:15	7439-96-5	
Molybdenum	**0.079**	mg/L	0.010	0.0025	1	03/19/25 06:10	03/20/25 13:15	7439-98-7	
Potassium	**6.6**	mg/L	0.50	0.10	1	03/19/25 06:10	03/20/25 13:15	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	03/19/25 06:10	03/20/25 13:15	7782-49-2	

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ANALYTICAL RESULTS

Project: Hammond AP-1-CA-20250203
Pace Project No.: 92778486

Sample: HAM-PT-10 **Lab ID: 92778486004** Collected: 02/05/25 10:00 Received: 02/07/25 14:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Sodium	**9.1**	mg/L	1.0	0.15	1	03/19/25 06:10	03/20/25 13:15	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	03/19/25 06:10	03/20/25 13:15	7440-28-0	

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ANALYTICAL RESULTS

Project: Hammond AP-1-CA-20250203
Pace Project No.: 92778486

Sample: HAM-PT-11 **Lab ID: 92778486005** Collected: 02/05/25 10:01 Received: 02/07/25 14:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.00159J**	mg/L	0.0300	0.000600	1	03/06/25 22:51	03/07/25 03:08	7439-93-2	J
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	02/09/25 17:53	02/11/25 14:51	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**121**	mg/L	5.0	5.0	1		02/12/25 19:32		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/12/25 19:32		
Alkalinity, Total as CaCO3	**121**	mg/L	5.0	5.0	1		02/12/25 19:32		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**400**	mg/L	25.0	25.0	1		02/11/25 12:07		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		02/08/25 03:57	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**37.7**	mg/L	1.0	0.60	1		02/08/25 19:38	16887-00-6	
Fluoride	**0.27**	mg/L	0.10	0.050	1		02/08/25 19:38	16984-48-8	
Sulfate	**96.4**	mg/L	3.0	1.5	3		02/09/25 04:14	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	03/19/25 06:10	03/20/25 13:20	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	03/19/25 06:10	03/20/25 13:20	7440-38-2	
Barium	**0.062**	mg/L	0.0050	0.0012	1	03/19/25 06:10	03/20/25 13:20	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	03/19/25 06:10	03/20/25 13:20	7440-41-7	
Boron	**1.5**	mg/L	0.40	0.062	10	03/19/25 06:10	03/20/25 23:26	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/19/25 06:10	03/20/25 13:20	7440-43-9	
Calcium	**95.8**	mg/L	10.0	1.0	10	03/19/25 06:10	03/20/25 17:48	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/19/25 06:10	03/20/25 13:20	7440-47-3	
Cobalt	**0.0024J**	mg/L	0.0050	0.0012	1	03/19/25 06:10	03/20/25 13:20	7440-48-4	
Iron	**0.89**	mg/L	0.040	0.012	1	03/19/25 06:10	03/20/25 13:20	7439-89-6	
Lead	ND	mg/L	0.0010	0.00025	1	03/19/25 06:10	03/20/25 13:20	7439-92-1	
Magnesium	**13.8**	mg/L	0.050	0.010	1	03/19/25 06:10	03/20/25 13:20	7439-95-4	
Manganese	**0.35**	mg/L	0.040	0.0012	1	03/19/25 06:10	03/20/25 13:20	7439-96-5	
Molybdenum	**0.11**	mg/L	0.010	0.0025	1	03/19/25 06:10	03/20/25 13:20	7439-98-7	
Potassium	**6.3**	mg/L	0.50	0.10	1	03/19/25 06:10	03/20/25 13:20	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	03/19/25 06:10	03/20/25 13:20	7782-49-2	

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ANALYTICAL RESULTS

Project: Hammond AP-1-CA-20250203
Pace Project No.: 92778486

Sample: HAM-PT-11 **Lab ID: 92778486005** Collected: 02/05/25 10:01 Received: 02/07/25 14:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Sodium	**8.5**	mg/L	1.0	0.15	1	03/19/25 06:10	03/20/25 13:20	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	03/19/25 06:10	03/20/25 13:20	7440-28-0	

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ANALYTICAL RESULTS

Project: Hammond AP-1-CA-20250203
Pace Project No.: 92778486

Sample: HAM-PT-12 **Lab ID: 92778486006** Collected: 02/05/25 11:41 Received: 02/07/25 14:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.00122J**	mg/L	0.0300	0.000600	1	03/06/25 22:51	03/07/25 03:11	7439-93-2	J
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	02/09/25 17:53	02/11/25 14:57	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**120**	mg/L	5.0	5.0	1		02/12/25 19:40		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/12/25 19:40		
Alkalinity, Total as CaCO3	**120**	mg/L	5.0	5.0	1		02/12/25 19:40		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**416**	mg/L	25.0	25.0	1		02/11/25 12:07		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		02/08/25 03:57	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**44.0**	mg/L	1.0	0.60	1		02/08/25 19:52	16887-00-6	
Fluoride	**0.25**	mg/L	0.10	0.050	1		02/08/25 19:52	16984-48-8	
Sulfate	**114**	mg/L	3.0	1.5	3		02/09/25 04:29	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	03/19/25 06:10	03/20/25 13:24	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	03/19/25 06:10	03/20/25 13:24	7440-38-2	
Barium	**0.055**	mg/L	0.0050	0.0012	1	03/19/25 06:10	03/20/25 13:24	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	03/19/25 06:10	03/20/25 13:24	7440-41-7	
Boron	**1.6**	mg/L	0.40	0.062	10	03/19/25 06:10	03/20/25 23:35	7440-42-8	
Cadmium	**0.00015J**	mg/L	0.00050	0.00012	1	03/19/25 06:10	03/20/25 13:24	7440-43-9	
Calcium	**91.4**	mg/L	10.0	1.0	10	03/19/25 06:10	03/20/25 17:53	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/19/25 06:10	03/20/25 13:24	7440-47-3	
Cobalt	**0.0023J**	mg/L	0.0050	0.0012	1	03/19/25 06:10	03/20/25 13:24	7440-48-4	
Iron	**1.4**	mg/L	0.040	0.012	1	03/19/25 06:10	03/20/25 13:24	7439-89-6	
Lead	ND	mg/L	0.0010	0.00025	1	03/19/25 06:10	03/20/25 13:24	7439-92-1	
Magnesium	**19.1**	mg/L	0.050	0.010	1	03/19/25 06:10	03/20/25 13:24	7439-95-4	
Manganese	**0.44**	mg/L	0.040	0.0012	1	03/19/25 06:10	03/20/25 13:24	7439-96-5	
Molybdenum	**0.16**	mg/L	0.010	0.0025	1	03/19/25 06:10	03/20/25 13:24	7439-98-7	
Potassium	**6.0**	mg/L	0.50	0.10	1	03/19/25 06:10	03/20/25 13:24	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	03/19/25 06:10	03/20/25 13:24	7782-49-2	

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ANALYTICAL RESULTS

Project: Hammond AP-1-CA-20250203
Pace Project No.: 92778486

Sample: HAM-PT-12 **Lab ID: 92778486006** Collected: 02/05/25 11:41 Received: 02/07/25 14:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Sodium	**11.0**	mg/L	1.0	0.15	1	03/19/25 06:10	03/20/25 13:24	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	03/19/25 06:10	03/20/25 13:24	7440-28-0	

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ANALYTICAL RESULTS

Project: Hammond AP-1-CA-20250203
Pace Project No.: 92778486

Sample: HAM-PT-13 **Lab ID: 92778486007** Collected: 02/04/25 10:05 Received: 02/07/25 14:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.0520**	mg/L	0.0300	0.000600	1	03/06/25 22:51	03/07/25 03:14	7439-93-2	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	02/09/25 17:53	02/11/25 15:00	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**163**	mg/L	5.0	5.0	1		02/10/25 19:58		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/10/25 19:58		
Alkalinity, Total as CaCO3	**163**	mg/L	5.0	5.0	1		02/10/25 19:58		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**527**	mg/L	25.0	25.0	1		02/08/25 13:03		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		02/08/25 03:47	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**20.2**	mg/L	1.0	0.60	1		02/08/25 20:06	16887-00-6	
Fluoride	**0.35**	mg/L	0.10	0.050	1		02/08/25 20:06	16984-48-8	
Sulfate	**161**	mg/L	4.0	2.0	4		02/09/25 04:43	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	03/19/25 06:10	03/20/25 13:29	7440-36-0	
Arsenic	**0.19**	mg/L	0.0050	0.0012	1	03/19/25 06:10	03/20/25 13:29	7440-38-2	
Barium	**0.046**	mg/L	0.0050	0.0012	1	03/19/25 06:10	03/20/25 13:29	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	03/19/25 06:10	03/20/25 13:29	7440-41-7	
Boron	**0.73**	mg/L	0.40	0.062	10	03/19/25 06:10	03/20/25 23:44	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/19/25 06:10	03/20/25 13:29	7440-43-9	
Calcium	**114**	mg/L	10.0	1.0	10	03/19/25 06:10	03/20/25 17:58	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/19/25 06:10	03/20/25 13:29	7440-47-3	
Cobalt	**0.018**	mg/L	0.0050	0.0012	1	03/19/25 06:10	03/20/25 13:29	7440-48-4	
Iron	**7.6**	mg/L	0.040	0.012	1	03/19/25 06:10	03/20/25 13:29	7439-89-6	
Lead	ND	mg/L	0.0010	0.00025	1	03/19/25 06:10	03/20/25 13:29	7439-92-1	
Magnesium	**16.4**	mg/L	0.050	0.010	1	03/19/25 06:10	03/20/25 13:29	7439-95-4	
Manganese	**2.9**	mg/L	0.40	0.012	10	03/19/25 06:10	03/20/25 17:58	7439-96-5	
Molybdenum	**0.0099J**	mg/L	0.010	0.0025	1	03/19/25 06:10	03/20/25 13:29	7439-98-7	
Potassium	**5.4**	mg/L	0.50	0.10	1	03/19/25 06:10	03/20/25 13:29	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	03/19/25 06:10	03/20/25 13:29	7782-49-2	

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ANALYTICAL RESULTS

Project: Hammond AP-1-CA-20250203
Pace Project No.: 92778486

Sample: HAM-PT-13 **Lab ID: 92778486007** Collected: 02/04/25 10:05 Received: 02/07/25 14:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Sodium	**8.4**	mg/L	1.0	0.15	1	03/19/25 06:10	03/20/25 13:29	7440-23-5	
Thallium	**0.00021J**	mg/L	0.0010	0.00015	1	03/19/25 06:10	03/20/25 13:29	7440-28-0	

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ANALYTICAL RESULTS

Project: Hammond AP-1-CA-20250203
Pace Project No.: 92778486

Sample: HAM-PT-14 **Lab ID: 92778486008** Collected: 02/04/25 10:08 Received: 02/07/25 14:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.0528**	mg/L	0.0300	0.000600	1	03/06/25 22:51	03/07/25 03:17	7439-93-2	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	02/09/25 17:53	02/11/25 15:02	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**170**	mg/L	5.0	5.0	1		02/10/25 20:09		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/10/25 20:09		
Alkalinity, Total as CaCO3	**170**	mg/L	5.0	5.0	1		02/10/25 20:09		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**546**	mg/L	25.0	25.0	1		02/08/25 13:03		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		02/08/25 03:48	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**20.5**	mg/L	1.0	0.60	1		02/08/25 20:20	16887-00-6	
Fluoride	**0.30**	mg/L	0.10	0.050	1		02/08/25 20:20	16984-48-8	
Sulfate	**170**	mg/L	4.0	2.0	4		02/09/25 05:25	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	03/19/25 06:10	03/20/25 13:34	7440-36-0	
Arsenic	**0.26**	mg/L	0.0050	0.0012	1	03/19/25 06:10	03/20/25 13:34	7440-38-2	
Barium	**0.043**	mg/L	0.0050	0.0012	1	03/19/25 06:10	03/20/25 13:34	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	03/19/25 06:10	03/20/25 13:34	7440-41-7	
Boron	**0.75**	mg/L	0.40	0.062	10	03/19/25 06:10	03/20/25 23:53	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/19/25 06:10	03/20/25 13:34	7440-43-9	
Calcium	**123**	mg/L	10.0	1.0	10	03/19/25 06:10	03/20/25 18:02	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/19/25 06:10	03/20/25 13:34	7440-47-3	
Cobalt	**0.019**	mg/L	0.0050	0.0012	1	03/19/25 06:10	03/20/25 13:34	7440-48-4	
Iron	**11.7**	mg/L	0.040	0.012	1	03/19/25 06:10	03/20/25 13:34	7439-89-6	
Lead	ND	mg/L	0.0010	0.00025	1	03/19/25 06:10	03/20/25 13:34	7439-92-1	
Magnesium	**16.8**	mg/L	0.050	0.010	1	03/19/25 06:10	03/20/25 13:34	7439-95-4	
Manganese	**3.1**	mg/L	0.40	0.012	10	03/19/25 06:10	03/20/25 18:02	7439-96-5	
Molybdenum	**0.015**	mg/L	0.010	0.0025	1	03/19/25 06:10	03/20/25 13:34	7439-98-7	
Potassium	**5.6**	mg/L	0.50	0.10	1	03/19/25 06:10	03/20/25 13:34	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	03/19/25 06:10	03/20/25 13:34	7782-49-2	

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ANALYTICAL RESULTS

Project: Hammond AP-1-CA-20250203
Pace Project No.: 92778486

Sample: HAM-PT-14 **Lab ID: 92778486008** Collected: 02/04/25 10:08 Received: 02/07/25 14:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Sodium	**8.8**	mg/L	1.0	0.15	1	03/19/25 06:10	03/20/25 13:34	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	03/19/25 06:10	03/20/25 13:34	7440-28-0	

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ANALYTICAL RESULTS

Project: Hammond AP-1-CA-20250203
Pace Project No.: 92778486

Sample: HAM-PT-15 **Lab ID: 92778486009** Collected: 02/04/25 14:55 Received: 02/07/25 14:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.0421**	mg/L	0.0300	0.000600	1	03/06/25 22:51	03/07/25 03:21	7439-93-2	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	02/09/25 17:53	02/11/25 15:04	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**146**	mg/L	5.0	5.0	1		02/10/25 20:20		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/10/25 20:20		
Alkalinity, Total as CaCO3	**146**	mg/L	5.0	5.0	1		02/10/25 20:20		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**515**	mg/L	25.0	25.0	1		02/08/25 13:03		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		02/08/25 03:50	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**17.4**	mg/L	1.0	0.60	1		02/08/25 21:02	16887-00-6	
Fluoride	**0.32**	mg/L	0.10	0.050	1		02/08/25 21:02	16984-48-8	
Sulfate	**173**	mg/L	4.0	2.0	4		02/09/25 05:39	14808-79-8	M1
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	03/19/25 06:10	03/20/25 13:38	7440-36-0	
Arsenic	**0.078**	mg/L	0.0050	0.0012	1	03/19/25 06:10	03/20/25 13:38	7440-38-2	
Barium	**0.052**	mg/L	0.0050	0.0012	1	03/19/25 06:10	03/20/25 13:38	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	03/19/25 06:10	03/20/25 13:38	7440-41-7	
Boron	**0.80**	mg/L	0.40	0.062	10	03/19/25 06:10	03/21/25 00:02	7440-42-8	
Cadmium	**0.00031J**	mg/L	0.00050	0.00012	1	03/19/25 06:10	03/20/25 13:38	7440-43-9	
Calcium	**117**	mg/L	10.0	1.0	10	03/19/25 06:10	03/20/25 18:07	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/19/25 06:10	03/20/25 13:38	7440-47-3	
Cobalt	**0.026**	mg/L	0.0050	0.0012	1	03/19/25 06:10	03/20/25 13:38	7440-48-4	
Iron	**2.3**	mg/L	0.040	0.012	1	03/19/25 06:10	03/20/25 13:38	7439-89-6	
Lead	ND	mg/L	0.0010	0.00025	1	03/19/25 06:10	03/20/25 13:38	7439-92-1	
Magnesium	**14.6**	mg/L	0.050	0.010	1	03/19/25 06:10	03/20/25 13:38	7439-95-4	
Manganese	**4.1**	mg/L	0.40	0.012	10	03/19/25 06:10	03/20/25 18:07	7439-96-5	
Molybdenum	**0.014**	mg/L	0.010	0.0025	1	03/19/25 06:10	03/20/25 13:38	7439-98-7	
Potassium	**5.4**	mg/L	0.50	0.10	1	03/19/25 06:10	03/20/25 13:38	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	03/19/25 06:10	03/20/25 13:38	7782-49-2	

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ANALYTICAL RESULTS

Project: Hammond AP-1-CA-20250203
Pace Project No.: 92778486

Sample: HAM-PT-15 **Lab ID: 92778486009** Collected: 02/04/25 14:55 Received: 02/07/25 14:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Sodium	**7.4**	mg/L	1.0	0.15	1	03/19/25 06:10	03/20/25 13:38	7440-23-5	
Thallium	**0.00050J**	mg/L	0.0010	0.00015	1	03/19/25 06:10	03/20/25 13:38	7440-28-0	

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ANALYTICAL RESULTS

Project: Hammond AP-1-CA-20250203
Pace Project No.: 92778486

Sample: HAM-AP1-EB-01 **Lab ID: 92778486010** Collected: 02/05/25 12:30 Received: 02/07/25 14:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	ND	mg/L	0.0300	0.000600	1	03/06/25 22:51	03/07/25 03:24	7439-93-2	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	02/10/25 17:03	02/13/25 14:14	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/12/25 19:47		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/12/25 19:47		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		02/12/25 19:47		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		02/11/25 12:07		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		02/08/25 03:58	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		02/08/25 15:55	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/08/25 15:55	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		02/08/25 15:55	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	03/19/25 06:10	03/20/25 13:43	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	03/19/25 06:10	03/20/25 13:43	7440-38-2	
Barium	ND	mg/L	0.0050	0.0012	1	03/19/25 06:10	03/20/25 13:43	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	03/19/25 06:10	03/20/25 13:43	7440-41-7	
Boron	ND	mg/L	0.040	0.0062	1	03/19/25 06:10	03/21/25 00:11	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/19/25 06:10	03/20/25 13:43	7440-43-9	
Calcium	ND	mg/L	1.0	0.10	1	03/19/25 06:10	03/20/25 13:43	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/19/25 06:10	03/20/25 13:43	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.0012	1	03/19/25 06:10	03/20/25 13:43	7440-48-4	
Iron	**0.050**	mg/L	0.040	0.012	1	03/19/25 06:10	03/20/25 13:43	7439-89-6	
Lead	ND	mg/L	0.0010	0.00025	1	03/19/25 06:10	03/20/25 13:43	7439-92-1	
Magnesium	ND	mg/L	0.050	0.010	1	03/19/25 06:10	03/20/25 13:43	7439-95-4	
Manganese	**0.0015J**	mg/L	0.040	0.0012	1	03/19/25 06:10	03/20/25 13:43	7439-96-5	
Molybdenum	ND	mg/L	0.010	0.0025	1	03/19/25 06:10	03/20/25 13:43	7439-98-7	
Potassium	ND	mg/L	0.50	0.10	1	03/19/25 06:10	03/20/25 13:43	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	03/19/25 06:10	03/20/25 13:43	7782-49-2	

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ANALYTICAL RESULTS

Project: Hammond AP-1-CA-20250203
Pace Project No.: 92778486

Sample: HAM-AP1-EB-01 **Lab ID: 92778486010** Collected: 02/05/25 12:30 Received: 02/07/25 14:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Sodium	ND	mg/L	1.0	0.15	1	03/19/25 06:10	03/20/25 13:43	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	03/19/25 06:10	03/20/25 13:43	7440-28-0	

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ANALYTICAL RESULTS

Project: Hammond AP-1-CA-20250203
Pace Project No.: 92778486

Sample: HAM-AP1-FB-01 **Lab ID: 92778486011** Collected: 02/05/25 12:20 Received: 02/07/25 14:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.00809J**	mg/L	0.0300	0.000600	1	03/06/25 22:51	03/07/25 03:27	7439-93-2	J
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	02/10/25 17:03	02/13/25 14:18	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/12/25 19:51		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/12/25 19:51		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		02/12/25 19:51		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		02/11/25 12:07		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		02/08/25 03:58	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		02/08/25 16:09	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/08/25 16:09	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		02/08/25 16:09	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	03/19/25 06:10	03/20/25 13:57	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	03/19/25 06:10	03/20/25 13:57	7440-38-2	
Barium	ND	mg/L	0.0050	0.0012	1	03/19/25 06:10	03/20/25 13:57	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	03/19/25 06:10	03/20/25 13:57	7440-41-7	
Boron	ND	mg/L	0.040	0.0062	1	03/19/25 06:10	03/21/25 00:39	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/19/25 06:10	03/20/25 13:57	7440-43-9	
Calcium	ND	mg/L	1.0	0.10	1	03/19/25 06:10	03/20/25 13:57	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/19/25 06:10	03/20/25 13:57	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.0012	1	03/19/25 06:10	03/20/25 13:57	7440-48-4	
Iron	ND	mg/L	0.040	0.012	1	03/19/25 06:10	03/20/25 13:57	7439-89-6	
Lead	ND	mg/L	0.0010	0.00025	1	03/19/25 06:10	03/20/25 13:57	7439-92-1	
Magnesium	ND	mg/L	0.050	0.010	1	03/19/25 06:10	03/20/25 13:57	7439-95-4	
Manganese	ND	mg/L	0.040	0.0012	1	03/19/25 06:10	03/20/25 13:57	7439-96-5	
Molybdenum	ND	mg/L	0.010	0.0025	1	03/19/25 06:10	03/20/25 13:57	7439-98-7	
Potassium	ND	mg/L	0.50	0.10	1	03/19/25 06:10	03/20/25 13:57	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	03/19/25 06:10	03/20/25 13:57	7782-49-2	

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ANALYTICAL RESULTS

Project: Hammond AP-1-CA-20250203
Pace Project No.: 92778486

Sample: HAM-AP1-FB-01 **Lab ID: 92778486011** Collected: 02/05/25 12:20 Received: 02/07/25 14:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Sodium	ND	mg/L	1.0	0.15	1	03/19/25 06:10	03/20/25 13:57	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	03/19/25 06:10	03/20/25 13:57	7440-28-0	

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ANALYTICAL RESULTS

Project: Hammond AP-1-CA-20250203
Pace Project No.: 92778486

Sample: HAM-AP1-FD-01 **Lab ID: 92778486012** Collected: 02/05/25 00:00 Received: 02/07/25 14:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.0538**	mg/L	0.0300	0.000600	1	03/06/25 22:51	03/07/25 03:30	7439-93-2	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	02/10/25 17:03	02/13/25 14:20	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**172**	mg/L	5.0	5.0	1		02/12/25 19:54		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/12/25 19:54		
Alkalinity, Total as CaCO3	**172**	mg/L	5.0	5.0	1		02/12/25 19:54		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**516**	mg/L	25.0	25.0	1		02/11/25 12:08		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		02/08/25 03:58	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**20.6**	mg/L	1.0	0.60	1		02/08/25 21:43	16887-00-6	
Fluoride	**0.30**	mg/L	0.10	0.050	1		02/08/25 21:43	16984-48-8	
Sulfate	**165**	mg/L	4.0	2.0	4		02/09/25 06:20	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	03/19/25 06:10	03/20/25 14:01	7440-36-0	
Arsenic	**0.26**	mg/L	0.0050	0.0012	1	03/19/25 06:10	03/20/25 14:01	7440-38-2	
Barium	**0.043**	mg/L	0.0050	0.0012	1	03/19/25 06:10	03/20/25 14:01	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	03/19/25 06:10	03/20/25 14:01	7440-41-7	
Boron	**0.77**	mg/L	0.40	0.062	10	03/19/25 06:10	03/20/25 17:14	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/19/25 06:10	03/20/25 14:01	7440-43-9	
Calcium	**115**	mg/L	10.0	1.0	10	03/19/25 06:10	03/20/25 18:21	7440-70-2	M1
Chromium	ND	mg/L	0.0050	0.0012	1	03/19/25 06:10	03/20/25 14:01	7440-47-3	
Cobalt	**0.019**	mg/L	0.0050	0.0012	1	03/19/25 06:10	03/20/25 14:01	7440-48-4	
Iron	**11.3**	mg/L	0.040	0.012	1	03/19/25 06:10	03/20/25 14:01	7439-89-6	M1
Lead	ND	mg/L	0.0010	0.00025	1	03/19/25 06:10	03/20/25 14:01	7439-92-1	
Magnesium	**16.7**	mg/L	0.050	0.010	1	03/19/25 06:10	03/20/25 14:01	7439-95-4	M1
Manganese	**2.8**	mg/L	0.40	0.012	10	03/19/25 06:10	03/20/25 17:14	7439-96-5	
Molybdenum	**0.015**	mg/L	0.010	0.0025	1	03/19/25 06:10	03/20/25 14:01	7439-98-7	
Potassium	**5.5**	mg/L	0.50	0.10	1	03/19/25 06:10	03/20/25 14:01	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	03/19/25 06:10	03/20/25 14:01	7782-49-2	

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ANALYTICAL RESULTS

Project: Hammond AP-1-CA-20250203
Pace Project No.: 92778486

Sample: HAM-AP1-FD-01 **Lab ID: 92778486012** Collected: 02/05/25 00:00 Received: 02/07/25 14:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Sodium	**8.8**	mg/L	1.0	0.15	1	03/19/25 06:10	03/20/25 14:01	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	03/19/25 06:10	03/20/25 14:01	7440-28-0	

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QUALITY CONTROL DATA

Project: Hammond AP-1-CA-20250203
Pace Project No.: 92778486

QC Batch: 2464154
QC Batch Method: 3015
Analysis Method: EPA 6020B
Analysis Description: Metals (ICPMS) 6020B
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 92778486001, 92778486002, 92778486003, 92778486004, 92778486005, 92778486006, 92778486007, 92778486008, 92778486009, 92778486010, 92778486011, 92778486012

METHOD BLANK: R4183615-1 Matrix: Water
Associated Lab Samples: 92778486001, 92778486002, 92778486003, 92778486004, 92778486005, 92778486006, 92778486007, 92778486008, 92778486009, 92778486010, 92778486011, 92778486012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lithium	mg/L	ND	0.0300	0.000600	03/07/25 02:29	

LABORATORY CONTROL SAMPLE: R4183615-2

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lithium	mg/L	0.0500	0.0476	95.2	80.0-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R4183615-4 R4183615-5

Parameter	Units	L1833065-06 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lithium	mg/L	0.00370	0.0500	0.0500	0.0494	0.0494	91.4	91.3	75.0-125	0.036	20	

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QUALITY CONTROL DATA

Project: Hammond AP-1-CA-20250203
Pace Project No.: 92778486

QC Batch: 914889
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92778486001, 92778486002, 92778486003, 92778486004, 92778486005, 92778486006, 92778486007, 92778486008, 92778486009

METHOD BLANK: 4702575 Matrix: Water
Associated Lab Samples: 92778486001, 92778486002, 92778486003, 92778486004, 92778486005, 92778486006, 92778486007, 92778486008, 92778486009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00012	02/11/25 14:07	

LABORATORY CONTROL SAMPLE: 4702576

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0024	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4702577 4702578

Parameter	Units	92777579004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0024	0.0023	94	93	75-125	1	25	

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QUALITY CONTROL DATA

Project: Hammond AP-1-CA-20250203
Pace Project No.: 92778486

QC Batch: 914965
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92778486010, 92778486011, 92778486012

METHOD BLANK: 4702822 Matrix: Water
Associated Lab Samples: 92778486010, 92778486011, 92778486012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00012	02/13/25 14:10	

LABORATORY CONTROL SAMPLE: 4702823

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0022	88	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4702824 4702825

Parameter	Units	92778486010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0023	0.0022	93	89	75-125	5	25	

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QUALITY CONTROL DATA

Project: Hammond AP-1-CA-20250203
Pace Project No.: 92778486

QC Batch: 915023
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92778486001, 92778486002, 92778486007, 92778486008, 92778486009

METHOD BLANK: 4703162 Matrix: Water
Associated Lab Samples: 92778486001, 92778486002, 92778486007, 92778486008, 92778486009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	02/10/25 16:31	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	02/10/25 16:31	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	02/10/25 16:31	

LABORATORY CONTROL SAMPLE: 4703163

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.6	103	80-120	

LABORATORY CONTROL SAMPLE: 4703164

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	52.9	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4703165 4703166

Parameter	Units	92778494003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	7.1	50	50	53.2	52.2	92	90	80-120	2	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4703167 4703168

Parameter	Units	92778494004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	246	50	50	290	299	88	106	80-120	3	25	

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QUALITY CONTROL DATA

Project: Hammond AP-1-CA-20250203
Pace Project No.: 92778486

QC Batch: 915650 | Analysis Method: SM 2320B-2011
QC Batch Method: SM 2320B-2011 | Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92778486003, 92778486004, 92778486005, 92778486006, 92778486010, 92778486011, 92778486012

METHOD BLANK: 4705927 Matrix: Water
Associated Lab Samples: 92778486003, 92778486004, 92778486005, 92778486006, 92778486010, 92778486011, 92778486012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	02/12/25 16:53	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	02/12/25 16:53	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	02/12/25 16:53	

LABORATORY CONTROL SAMPLE: 4705928

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.7	103	80-120	

LABORATORY CONTROL SAMPLE: 4705929

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	52.2	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4705930 4705931

Parameter	Units	92777634001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	163	50	50	220	223	115	120	80-120	1	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4705932 4705933

Parameter	Units	92777222002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	13.8	50	50	65.4	65.3	103	103	80-120	0	25	

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QUALITY CONTROL DATA

Project: Hammond AP-1-CA-20250203
Pace Project No.: 92778486

QC Batch: 914807 | Analysis Method: SM 2540C-2015
QC Batch Method: SM 2540C-2015 | Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92778486001, 92778486002, 92778486007, 92778486008, 92778486009

METHOD BLANK: 4702382 Matrix: Water
Associated Lab Samples: 92778486001, 92778486002, 92778486007, 92778486008, 92778486009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	02/08/25 13:01	

LABORATORY CONTROL SAMPLE: 4702383

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	251	252	101	90-110	

SAMPLE DUPLICATE: 4702384

Parameter	Units	92778494001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	386	380	2	25	

SAMPLE DUPLICATE: 4702385

Parameter	Units	92778486002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	483	482	0	25	

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QUALITY CONTROL DATA

Project: Hammond AP-1-CA-20250203
Pace Project No.: 92778486

QC Batch: 915152 | Analysis Method: SM 2540C-2015
QC Batch Method: SM 2540C-2015 | Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92778486003, 92778486004, 92778486005, 92778486006, 92778486010, 92778486011, 92778486012

METHOD BLANK: 4703776 Matrix: Water
Associated Lab Samples: 92778486003, 92778486004, 92778486005, 92778486006, 92778486010, 92778486011, 92778486012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	02/11/25 12:03	

LABORATORY CONTROL SAMPLE: 4703777

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	246	98	90-110	

SAMPLE DUPLICATE: 4703778

Parameter	Units	92778266001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	124	114	8	25	

SAMPLE DUPLICATE: 4703779

Parameter	Units	92778486005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	400	400	0	25	

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QUALITY CONTROL DATA

Project: Hammond AP-1-CA-20250203
Pace Project No.: 92778486

QC Batch: 914751
QC Batch Method: SM 4500-S2D-2011
Analysis Method: SM 4500-S2D-2011
Analysis Description: 4500S2D Sulfide Water
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92778486001, 92778486002, 92778486007, 92778486008

METHOD BLANK: 4702232 Matrix: Water
Associated Lab Samples: 92778486001, 92778486002, 92778486007, 92778486008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	0.022	02/08/25 03:36	

LABORATORY CONTROL SAMPLE: 4702233

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	0.51	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4702234 4702235

Parameter	Units	92778050001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.51	0.54	101	108	80-120	6	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4702236 4702237

Parameter	Units	92778494009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.46	0.47	93	93	80-120	0	10	

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QUALITY CONTROL DATA

Project: Hammond AP-1-CA-20250203
Pace Project No.: 92778486

QC Batch: 914753
QC Batch Method: SM 4500-S2D-2011
Analysis Method: SM 4500-S2D-2011
Analysis Description: 4500S2D Sulfide Water
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92778486003, 92778486004, 92778486005, 92778486006, 92778486009, 92778486010, 92778486011, 92778486012

METHOD BLANK: 4702242 Matrix: Water
Associated Lab Samples: 92778486003, 92778486004, 92778486005, 92778486006, 92778486009, 92778486010, 92778486011, 92778486012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	0.022	02/08/25 03:49	

LABORATORY CONTROL SAMPLE: 4702243

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	0.52	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4702244 4702245

Parameter	Units	92778486009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.51	0.48	102	95	80-120	7	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4702246 4702247

Parameter	Units	92777989003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.51	0.55	101	110	80-120	9	10	

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QUALITY CONTROL DATA

Project: Hammond AP-1-CA-20250203
Pace Project No.: 92778486

QC Batch: 914792
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92778486001

METHOD BLANK: 4702337 Matrix: Water
Associated Lab Samples: 92778486001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/08/25 21:17	
Fluoride	mg/L	ND	0.10	0.050	02/08/25 21:17	
Sulfate	mg/L	ND	1.0	0.50	02/08/25 21:17	

LABORATORY CONTROL SAMPLE: 4702338

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	51.4	103	90-110	
Fluoride	mg/L	2.5	2.6	104	90-110	
Sulfate	mg/L	50	52.2	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4702339 4702340

Parameter	Units	92778538006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	28.7	50	50	79.0	78.0	101	99	90-110	1	10	
Fluoride	mg/L	0.055J	2.5	2.5	2.7	2.6	105	103	90-110	1	10	
Sulfate	mg/L	110	50	50	150	149	80	78	90-110	1	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4702341 4702342

Parameter	Units	92778538016 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	1.4	50	50	50.5	52.0	98	101	90-110	3	10	
Fluoride	mg/L	0.073J	2.5	2.5	2.6	2.7	101	104	90-110	3	10	
Sulfate	mg/L	11.6	50	50	61.1	62.5	99	102	90-110	2	10	

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QUALITY CONTROL DATA

Project: Hammond AP-1-CA-20250203
Pace Project No.: 92778486

QC Batch: 914829
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92778486002, 92778486003, 92778486004, 92778486005, 92778486006, 92778486007, 92778486008, 92778486009, 92778486010, 92778486011, 92778486012

METHOD BLANK: 4702454 Matrix: Water
Associated Lab Samples: 92778486002, 92778486003, 92778486004, 92778486005, 92778486006, 92778486007, 92778486008, 92778486009, 92778486010, 92778486011, 92778486012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/08/25 15:27	
Fluoride	mg/L	ND	0.10	0.050	02/08/25 15:27	
Sulfate	mg/L	ND	1.0	0.50	02/08/25 15:27	

LABORATORY CONTROL SAMPLE: 4702455

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	51.0	102	90-110	
Fluoride	mg/L	2.5	2.7	108	90-110	
Sulfate	mg/L	50	51.2	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4702456 4702457

Parameter	Units	92778486002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	19.6	50	50	68.9	70.0	99	101	90-110	2	10	
Fluoride	mg/L	0.18	2.5	2.5	2.7	2.7	100	102	90-110	2	10	
Sulfate	mg/L	170	50	50	209	209	77	78	90-110	0	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4702458 4702459

Parameter	Units	92778486009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	17.4	50	50	66.9	66.1	99	97	90-110	1	10	
Fluoride	mg/L	0.32	2.5	2.5	2.8	2.8	100	98	90-110	2	10	
Sulfate	mg/L	173	50	50	213	211	81	77	90-110	1	10	M1

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QUALITY CONTROL DATA

Project: Hammond AP-1-CA-20250203
Pace Project No.: 92778486

QC Batch: 923197
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: WC 6020B MET
Laboratory: Pace Analytical Services - West Columbia
Associated Lab Samples: 92778486001, 92778486002, 92778486003, 92778486004, 92778486005, 92778486006, 92778486007, 92778486008, 92778486009, 92778486010, 92778486011, 92778486012

METHOD BLANK: 4743181 Matrix: Water
Associated Lab Samples: 92778486001, 92778486002, 92778486003, 92778486004, 92778486005, 92778486006, 92778486007, 92778486008, 92778486009, 92778486010, 92778486011, 92778486012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00050	03/20/25 12:33	
Arsenic	mg/L	ND	0.0050	0.0012	03/20/25 12:33	
Barium	mg/L	ND	0.0050	0.0012	03/20/25 12:33	
Beryllium	mg/L	ND	0.00050	0.00015	03/20/25 12:33	
Boron	mg/L	ND	0.040	0.0062	03/20/25 16:02	
Cadmium	mg/L	ND	0.00050	0.00012	03/20/25 12:33	
Calcium	mg/L	ND	1.0	0.10	03/20/25 12:33	
Chromium	mg/L	ND	0.0050	0.0012	03/20/25 12:33	
Cobalt	mg/L	ND	0.0050	0.0012	03/20/25 12:33	
Iron	mg/L	ND	0.040	0.012	03/20/25 12:33	
Lead	mg/L	ND	0.0010	0.00025	03/20/25 12:33	
Magnesium	mg/L	ND	0.050	0.010	03/20/25 12:33	
Manganese	mg/L	ND	0.040	0.0012	03/20/25 12:33	
Molybdenum	mg/L	ND	0.010	0.0025	03/20/25 12:33	
Potassium	mg/L	ND	0.50	0.10	03/20/25 12:33	
Selenium	mg/L	ND	0.0050	0.0012	03/20/25 12:33	
Sodium	mg/L	ND	1.0	0.15	03/20/25 12:33	
Thallium	mg/L	ND	0.0010	0.00015	03/20/25 12:33	

LABORATORY CONTROL SAMPLE: 4743182

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.093	93	80-120	
Arsenic	mg/L	0.1	0.097	97	80-120	
Barium	mg/L	0.1	0.094	94	80-120	
Beryllium	mg/L	0.1	0.096	96	80-120	
Boron	mg/L	0.1	0.095	95	80-120	
Cadmium	mg/L	0.1	0.095	95	80-120	
Calcium	mg/L	1	0.99J	99	80-120	
Chromium	mg/L	0.1	0.098	98	80-120	
Cobalt	mg/L	0.1	0.10	103	80-120	
Iron	mg/L	1	0.99	99	80-120	
Lead	mg/L	0.1	0.10	102	80-120	
Magnesium	mg/L	1	0.97	97	80-120	
Manganese	mg/L	0.1	0.096	96	80-120	
Molybdenum	mg/L	0.1	0.095	95	80-120	
Potassium	mg/L	1	1.0	103	80-120	

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QUALITY CONTROL DATA

Project: Hammond AP-1-CA-20250203
Pace Project No.: 92778486

LABORATORY CONTROL SAMPLE: 4743182

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Selenium	mg/L	0.1	0.096	96	80-120	
Sodium	mg/L	1	1.0	104	80-120	
Thallium	mg/L	0.1	0.099	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4743183 4743184

Parameter	Units	92778486012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.096	0.095	96	95	75-125	1	20	
Arsenic	mg/L	0.26	0.1	0.1	0.34	0.34	82	81	75-125	0	20	
Barium	mg/L	0.043	0.1	0.1	0.14	0.14	96	96	75-125	1	20	
Beryllium	mg/L	ND	0.1	0.1	0.092	0.092	92	92	75-125	1	20	
Boron	mg/L	0.77	0.1	0.1	0.88	0.87	103	94	75-125	1	20	
Cadmium	mg/L	ND	0.1	0.1	0.096	0.096	96	96	75-125	0	20	
Calcium	mg/L	115	1	1	117	117	195	232	75-125	0	20	M1
Chromium	mg/L	ND	0.1	0.1	0.098	0.098	98	98	75-125	0	20	
Cobalt	mg/L	0.019	0.1	0.1	0.10	0.10	84	83	75-125	1	20	
Iron	mg/L	11.3	1	1	12.3	12.0	100	67	75-125	3	20	M1
Lead	mg/L	ND	0.1	0.1	0.098	0.098	98	98	75-125	0	20	
Magnesium	mg/L	16.7	1	1	17.4	17.5	68	80	75-125	1	20	M1
Manganese	mg/L	2.8	0.1	0.1	2.9	2.9	106	117	75-125	0	20	
Molybdenum	mg/L	0.015	0.1	0.1	0.11	0.11	96	96	75-125	0	20	
Potassium	mg/L	5.5	1	1	6.6	6.5	106	100	75-125	1	20	
Selenium	mg/L	ND	0.1	0.1	0.081	0.081	81	81	75-125	0	20	
Sodium	mg/L	8.8	1	1	9.7	9.7	92	91	75-125	0	20	
Thallium	mg/L	ND	0.1	0.1	0.095	0.095	95	95	75-125	0	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: Hammond AP-1-CA-20250203
Pace Project No.: 92778486

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

J	Analyte detected below the reporting limit, therefore result is an estimate. This qualifier is also used for all TICs.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Hammond AP-1-CA-20250203
Pace Project No.: 92778486

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92778486001	**HAM-PT-07**	3015	2464154	EPA 6020B	2464154
92778486002	**HAM-PT-08**	3015	2464154	EPA 6020B	2464154
92778486003	**HAM-PT-09**	3015	2464154	EPA 6020B	2464154
92778486004	**HAM-PT-10**	3015	2464154	EPA 6020B	2464154
92778486005	**HAM-PT-11**	3015	2464154	EPA 6020B	2464154
92778486006	**HAM-PT-12**	3015	2464154	EPA 6020B	2464154
92778486007	**HAM-PT-13**	3015	2464154	EPA 6020B	2464154
92778486008	**HAM-PT-14**	3015	2464154	EPA 6020B	2464154
92778486009	**HAM-PT-15**	3015	2464154	EPA 6020B	2464154
92778486010	**HAM-AP1-EB-01**	3015	2464154	EPA 6020B	2464154
92778486011	**HAM-AP1-FB-01**	3015	2464154	EPA 6020B	2464154
92778486012	**HAM-AP1-FD-01**	3015	2464154	EPA 6020B	2464154
92778486001	**HAM-PT-07**	EPA 7470A	914889	EPA 7470A	915003
92778486002	**HAM-PT-08**	EPA 7470A	914889	EPA 7470A	915003
92778486003	**HAM-PT-09**	EPA 7470A	914889	EPA 7470A	915003
92778486004	**HAM-PT-10**	EPA 7470A	914889	EPA 7470A	915003
92778486005	**HAM-PT-11**	EPA 7470A	914889	EPA 7470A	915003
92778486006	**HAM-PT-12**	EPA 7470A	914889	EPA 7470A	915003
92778486007	**HAM-PT-13**	EPA 7470A	914889	EPA 7470A	915003
92778486008	**HAM-PT-14**	EPA 7470A	914889	EPA 7470A	915003
92778486009	**HAM-PT-15**	EPA 7470A	914889	EPA 7470A	915003
92778486010	**HAM-AP1-EB-01**	EPA 7470A	914965	EPA 7470A	915313
92778486011	**HAM-AP1-FB-01**	EPA 7470A	914965	EPA 7470A	915313
92778486012	**HAM-AP1-FD-01**	EPA 7470A	914965	EPA 7470A	915313
92778486001	**HAM-PT-07**	SM 2320B-2011	915023		
92778486002	**HAM-PT-08**	SM 2320B-2011	915023		
92778486003	**HAM-PT-09**	SM 2320B-2011	915650		
92778486004	**HAM-PT-10**	SM 2320B-2011	915650		
92778486005	**HAM-PT-11**	SM 2320B-2011	915650		
92778486006	**HAM-PT-12**	SM 2320B-2011	915650		
92778486007	**HAM-PT-13**	SM 2320B-2011	915023		
92778486008	**HAM-PT-14**	SM 2320B-2011	915023		
92778486009	**HAM-PT-15**	SM 2320B-2011	915023		
92778486010	**HAM-AP1-EB-01**	SM 2320B-2011	915650		
92778486011	**HAM-AP1-FB-01**	SM 2320B-2011	915650		
92778486012	**HAM-AP1-FD-01**	SM 2320B-2011	915650		
92778486001	**HAM-PT-07**	SM 2540C-2015	914807		
92778486002	**HAM-PT-08**	SM 2540C-2015	914807		
92778486003	**HAM-PT-09**	SM 2540C-2015	915152		
92778486004	**HAM-PT-10**	SM 2540C-2015	915152		
92778486005	**HAM-PT-11**	SM 2540C-2015	915152		
92778486006	**HAM-PT-12**	SM 2540C-2015	915152		
92778486007	**HAM-PT-13**	SM 2540C-2015	914807		
92778486008	**HAM-PT-14**	SM 2540C-2015	914807		

REPORT OF LABORATORY ANALYSIS

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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Hammond AP-1-CA-20250203
Pace Project No.: 92778486

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92778486009	**HAM-PT-15**	SM 2540C-2015	914807		
92778486010	**HAM-AP1-EB-01**	SM 2540C-2015	915152		
92778486011	**HAM-AP1-FB-01**	SM 2540C-2015	915152		
92778486012	**HAM-AP1-FD-01**	SM 2540C-2015	915152		
92778486001	**HAM-PT-07**	SM 4500-S2D-2011	914751		
92778486002	**HAM-PT-08**	SM 4500-S2D-2011	914751		
92778486003	**HAM-PT-09**	SM 4500-S2D-2011	914753		
92778486004	**HAM-PT-10**	SM 4500-S2D-2011	914753		
92778486005	**HAM-PT-11**	SM 4500-S2D-2011	914753		
92778486006	**HAM-PT-12**	SM 4500-S2D-2011	914753		
92778486007	**HAM-PT-13**	SM 4500-S2D-2011	914751		
92778486008	**HAM-PT-14**	SM 4500-S2D-2011	914751		
92778486009	**HAM-PT-15**	SM 4500-S2D-2011	914753		
92778486010	**HAM-AP1-EB-01**	SM 4500-S2D-2011	914753		
92778486011	**HAM-AP1-FB-01**	SM 4500-S2D-2011	914753		
92778486012	**HAM-AP1-FD-01**	SM 4500-S2D-2011	914753		
92778486001	**HAM-PT-07**	EPA 300.0 Rev 2.1 1993	914792		
92778486002	**HAM-PT-08**	EPA 300.0 Rev 2.1 1993	914829		
92778486003	**HAM-PT-09**	EPA 300.0 Rev 2.1 1993	914829		
92778486004	**HAM-PT-10**	EPA 300.0 Rev 2.1 1993	914829		
92778486005	**HAM-PT-11**	EPA 300.0 Rev 2.1 1993	914829		
92778486006	**HAM-PT-12**	EPA 300.0 Rev 2.1 1993	914829		
92778486007	**HAM-PT-13**	EPA 300.0 Rev 2.1 1993	914829		
92778486008	**HAM-PT-14**	EPA 300.0 Rev 2.1 1993	914829		
92778486009	**HAM-PT-15**	EPA 300.0 Rev 2.1 1993	914829		
92778486010	**HAM-AP1-EB-01**	EPA 300.0 Rev 2.1 1993	914829		
92778486011	**HAM-AP1-FB-01**	EPA 300.0 Rev 2.1 1993	914829		
92778486012	**HAM-AP1-FD-01**	EPA 300.0 Rev 2.1 1993	914829		
92778486001	**HAM-PT-07**	EPA 3005A	923197	EPA 6020B	923913
92778486002	**HAM-PT-08**	EPA 3005A	923197	EPA 6020B	923913
92778486003	**HAM-PT-09**	EPA 3005A	923197	EPA 6020B	923913
92778486004	**HAM-PT-10**	EPA 3005A	923197	EPA 6020B	923913
92778486005	**HAM-PT-11**	EPA 3005A	923197	EPA 6020B	923913
92778486006	**HAM-PT-12**	EPA 3005A	923197	EPA 6020B	923913
92778486007	**HAM-PT-13**	EPA 3005A	923197	EPA 6020B	923913
92778486008	**HAM-PT-14**	EPA 3005A	923197	EPA 6020B	923913
92778486009	**HAM-PT-15**	EPA 3005A	923197	EPA 6020B	923913
92778486010	**HAM-AP1-EB-01**	EPA 3005A	923197	EPA 6020B	923913
92778486011	**HAM-AP1-FB-01**	EPA 3005A	923197	EPA 6020B	923913
92778486012	**HAM-AP1-FD-01**	EPA 3005A	923197	EPA 6020B	923913

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Pace

Effective Date: 05/24/2024

oratory receiving samples:
heville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

WO# : 92778486

92778486

Sample Condition Upon Receipt

Client Name: GA Power

Project #

irier: Commercial ☐Fed Ex ☐UPS ☐USPS ☐Client ☑Pace ☐Other:

tody Seal Present? ☑Yes ☐No Seals Intact? ☑Yes ☐No ☐N/A

Date/Initials Person Examining Contents: 2/7/25 KA

king Material: ☑Bubble Wrap ☐Bubble Bags ☐None ☐ Other

Biological Tissue Frozen? ☐Yes ☐No ☑N/A

ermometer: ☑IR Gun ID: 230

Type of Ice: ☑Wet ☐Blue ☐None

oler Temp: 3.1 Correction Factor: Add/Subtract (°C) +0.1

Temp should be above freezing to 6°C
☐Samples out of temp criteria. Samples on ice, cooling process has begun

oler Temp Corrected (°C): 3.2

DA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐Yes ☐No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐Yes ☐No

				Comments/Discrepancy:
Chain of Custody Present?	☑Yes	☐No	☐N/A	1.
Samples Arrived within Hold Time?	☑Yes	☐No	☐N/A	2.
Short Hold Time Analysis (<72 hr.)?	☑Yes	☐No	☐N/A	3.
Rush Turn Around Time Requested?	☐Yes	☑No	☐N/A	4.
Sufficient Volume?	☑Yes	☐No	☐N/A	5.
Correct Containers Used?	☑Yes	☐No	☐N/A	6.
-Pace Containers Used?	☑Yes	☐No	☐N/A	
Containers Intact?	☑Yes	☐No	☐N/A	7.
Dissolved analysis: Samples Field Filtered? 1/7/25	☑Yes	☐No	☐N/A	8.
Sample Labels Match COC? SM	☑Yes	☐No	☐N/A	9.
-Includes Date/Time/ID/Analysis Matrix: W				
Headspace in VOA Vials (>5-6mm)?	☐Yes	☐No	☐N/A	10.
Trip Blank Present?	☐Yes	☐No	☐N/A	11.
Trip Blank Custody Seals Present?	☐Yes	☐No	☐N/A	

Field Data Required? ☐Yes ☐No

MMENTS/SAMPLE DISCREPANCY

Lot ID of split containers:

NT NOTIFICATION/RESOLUTION

rson contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

altrax ID: 69614

WO# : 92778486

PM: BV Due Date: 02/24/25

CLIENT: 92- GP-HAM

Project #

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg
**Bottom half of box is to list number of bottles
***Check all unpreserved Nitrates for chlorine

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Client_____ Profile/EZ (Circle one)_____ Notes_____

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)		BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG9A-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG8U-40 mL Amber Unpreserved vials (N/A)
CC																													
1		2	1				2	1																					
2		2	1				2	1																					
3		2	1				2	1																					
4		2	1				2	1																					
5		2	1				2	1																					
6		2	1				2	1																					
7		2	1				2	1																					
8		2	1				2	1																					
9		2	1				2	1																					
10		2	1				2	1																					
11		2	1				2	1																					
12		3	1				2	1																					

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

Qualtrax ID: 69614

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately

Page: | of |

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: GA Power	Report To: SCS Contacts	Attention: Southern Co.
Address: Atlanta, GA	Copy To: Geosyntec Contacts	Company Name:
		Address:
Email To: SCS Contacts	Purchase Order No.: GPC82474-0001	Pace Quote Reference:
Phone: / Fax:	Project Name: Hammond AP-1	Pace Project Manager: Bonnie Vang
Requested Due Date/TAT: 10 Day	Project Number:	Pace Profile #: 16483

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☑ OTHER CCR

Site Location STATE: GA

Requested Analysis Filtered (Y/N)

Section D Required Client Information

Valid Matrix Codes: DRINKING WATER DW; WATER WT; WASTE WATER WW; PRODUCT P; SOIL/SOLID SL; OIL OL; WIPE WP; AIR AR; OTHER OT; TISSUE TS

ITEM #	SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE DATE	COLLECTED COMPOSITE TIME	COLLECTED COMPOSITE DATE	COLLECTED COMPOSITE TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	Chloride, Fluoride, Sulfate	Full App III and IV metals	Major ions (Profile 10839-2)	TDS	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
																		Y/N	N	N	N	N		
1	HAM-PT-07	WG	G	2/4/2025	1156			19	6	3		2					1		X	X	X	X	N	
2	HAM-PT-08	WG	G	2/4/2025	1339			19	6	3		2					1		X	X	X	X	N	
3	HAM-PT-09	WG	G	2/5/2025	1121			19	6	3		2					1		X	X	X	X	N	
4	HAM-PT-10	WG	G	2/5/2025	1000			18	6	3		2					1		X	X	X	X	N	
5	HAM-PT-11	WG	G	2/5/2025	1001			18	6	3		2					1		X	X	X	X	N	
6	HAM-PT-12	WG	G	2/5/2025	1141			19	6	3		2					1		X	X	X	X	N	
7	HAM-PT-13	WG	G	2/4/2025	1005			18	6	3		2					1		X	X	X	X	N	
8	HAM-PT-14	WG	G	2/4/2025	1008			18	6	3		2					1		X	X	X	X	N	
9	HAM-PT-15	WG	G	2/4/2025	1455			20	6	3		2					1		X	X	X	X	N	
10	HAM-AP1-EB-01	WQ	G	2/5/2025	1230			19	6	3		2					1		X	X	X	X	N	
11	HAM-AP1-FB-01	WQ	G	2/5/2025	1220			19	6	3		2					1		X	X	X	X	N	
12	HAM-AP1-FD-01	WG	G	2/4/2025	0000			19	6	3		2					1		X	X	X	X	N	

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Task Code: HAM-CCR-CA-20250203	Zain Webb / Geosyntec	2/7/25	0800	Thomas Mesh / Pace	2/7/2025	0800	
	Thomas Mesh / Pace	2/7/2025	0845	Ryan Williams / Pace	2/7/2025	0845	
	Ryan Williams / Pace	2/7/2025	1535		2/7/25	1535	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Zain Webb, Tristan Halterman / Geosyntec Consultants, Inc.

SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY): 2/6/25

Temp in °C	Received on ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-Feb-2007

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
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(704)875-9092

April 03, 2025

Kristen Jurinko
Southern Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, GA 30308

RE: Project: Hammond AP-1-CA-20250203
Pace Project No.: 92778486

Dear Kristen Jurinko:

Enclosed are the analytical results for sample(s) received by the laboratory on February 07, 2025. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace National - Mt. Juliet
- Pace Analytical Services - Asheville
- Pace Analytical Services - West Columbia

Revision 1: Sample ID's for FB-01 and FD-01 were corrected to match COC.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Bonnie Vang
bonnie.vang@pacelabs.com
704-977-0968
Project Manager

Enclosures

cc: Kip Gray, Geosyntec
Christine Hug, Geosyntec Consultants, Inc.
Thomas Kessler, Geosyntec Consultants
Whitney Law, Geosyntec Consultants
Laura Midkiff, Southern Company
Caroline Nelson, Geosyntec Consultants, Inc
Jamie Newsome, Geosyntec Consultants
Zain Webb, Geosyntec Consultants

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Hammond AP-1-CA-20250203
Pace Project No.: 92778486

Pace Analytical Services National

12065 Lebanon Road, Mt. Juliet, TN 37122
Alabama Certification #: 40660
Alaska Certification 17-026
Arizona Certification #: AZ0612
Arkansas Certification #: 88-0469
California Certification #: 2932
Canada Certification #: 1461.01
Colorado Certification #: TN00003
Connecticut Certification #: PH-0197
DOD Certification: #1461.01
EPA# TN00003
Florida Certification #: E87487
Georgia DW Certification #: 923
Georgia Certification: NELAP
Idaho Certification #: TN00003
Illinois Certification #: 200008
Indiana Certification #: C-TN-01
Iowa Certification #: 364
Kansas Certification #: E-10277
Kentucky UST Certification #: 16
Kentucky Certification #: 90010
Louisiana Certification #: AI30792
Louisiana DW Certification #: LA180010
Maine Certification #: TN0002
Maryland Certification #: 324
Massachusetts Certification #: M-TN003
Michigan Certification #: 9958
Minnesota Certification #: 047-999-395
Mississippi Certification #: TN00003
Missouri Certification #: 340
Montana Certification #: CERT0086
Nebraska Certification #: NE-OS-15-05
Nevada Certification #: TN-03-2002-34
New Hampshire Certification #: 2975
New Jersey Certification #: TN002
New Mexico DW Certification
New York Certification #: 11742
North Carolina Aquatic Toxicity Certification #: 41
North Carolina Drinking Water Certification #: 21704
North Carolina Environmental Certificate #: 375
North Dakota Certification #: R-140
Ohio VAP Certification #: CL0069
Oklahoma Certification #: 9915
Oregon Certification #: TN200002
Pennsylvania Certification #: 68-02979
Rhode Island Certification #: LAO00356
South Carolina Certification #: 84004
South Dakota Certification
Tennessee DW/Chem/Micro Certification #: 2006
Texas Mold Certification #: LAB0152
Texas Certification #: T 104704245-17-14
USDA Soil Permit #: P330-15-00234
Utah Certification #: TN00003
Virginia Certification #: VT2006
Vermont Dept. of Health: ID# VT-2006
Virginia Certification #: 460132
Washington Certification #: C847
West Virginia Certification #: 233
Wisconsin Certification #: 998093910
Wyoming UST Certification #: via A2LA 2926.01
A2LA-ISO 17025 Certification #: 1461.01
A2LA-ISO 17025 Certification #: 1461.02
AIHA-LAP/LLC EMLAP Certification #:100789

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Laboratory ID: 99030
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services West Columbia

106 Vantage Point Drive, West Columbia, SC 29172
Alaska Dept. of Energy Conservation, Cert# 20-002
California ELAP, cert# 3049
DoD, DoD QSM V5.4, cert# I.2224
DOE, DoD/DOE QSM V5.4, cert# I.2224.01
Florida, Dept. of Health, cert# E87653-70
Georgia, Env. Protection Division, cert# E87653
Illinois, EPA NELAP, cert# 2000552024-9
Kansas, Dept. of Health and Environment, cert# E-10417
Kentucky, Dept. for Env. Protection, UST, cert# 103582
Kentucky, Dept. for Env. Protection, cert# 98037
Louisiana, Dept. of Environmental Quality, cert# 5125
North Carolina, DEQ, Water Resources, cert# 329
New Jersey, Dept. of Env. Protection, cert# NLC 240005
Oklahoma, Dept. of Env. Quality, cert# 2023-175
Oregon, ELAP, cert# 4181-006
Pennsylvania, Dept. of Env. Protection, cert# 003
South Carolina, Dept. of Env. Services, cert# 32010001
Texas, Commission on Env. Quality, cert# TX-C24-00083
Virginia, Dept. of General Services, cert# 13080
Wisconsin, Dept. of Natural Resources, cert# 399136100

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Hammond AP-1-CA-20250203
Pace Project No.: 92778486

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92778486001	**HAM-PT-07**	Water	02/04/25 11:56	02/07/25 14:35
92778486002	**HAM-PT-08**	Water	02/04/25 13:39	02/07/25 14:35
92778486003	**HAM-PT-09**	Water	02/05/25 11:21	02/07/25 14:35
92778486004	**HAM-PT-10**	Water	02/05/25 10:00	02/07/25 14:35
92778486005	**HAM-PT-11**	Water	02/05/25 10:01	02/07/25 14:35
92778486006	**HAM-PT-12**	Water	02/05/25 11:41	02/07/25 14:35
92778486007	**HAM-PT-13**	Water	02/04/25 10:05	02/07/25 14:35
92778486008	**HAM-PT-14**	Water	02/04/25 10:08	02/07/25 14:35
92778486009	**HAM-PT-15**	Water	02/04/25 14:55	02/07/25 14:35
92778486010	**HAM-AP1-EB-01**	Water	02/05/25 12:30	02/07/25 14:35
92778486011	**HAM-AP1-FB-01**	Water	02/05/25 12:20	02/07/25 14:35
92778486012	**HAM-AP1-FD-01**	Water	02/05/25 00:00	02/07/25 14:35

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SAMPLE ANALYTE COUNT

Project: Hammond AP-1-CA-20250203
Pace Project No.: 92778486

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92778486001	**HAM-PT-07**	EPA 6020B	JPD	1	PAN
		EPA 7470A	MAB2	1	PASI-A
		SM 2320B-2011	YEG	3	PASI-A
		SM 2540C-2015	CMW1	1	PASI-A
		SM 4500-S2D-2011	JP1	1	PASI-A
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6020B	BK1	18	PASI-WC
92778486002	**HAM-PT-08**	EPA 6020B	JPD	1	PAN
		EPA 7470A	MAB2	1	PASI-A
		SM 2320B-2011	YEG	3	PASI-A
		SM 2540C-2015	CMW1	1	PASI-A
		SM 4500-S2D-2011	JP1	1	PASI-A
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6020B	BK1	18	PASI-WC
92778486003	**HAM-PT-09**	EPA 6020B	JPD	1	PAN
		EPA 7470A	MAB2	1	PASI-A
		SM 2320B-2011	SMS	3	PASI-A
		SM 2540C-2015	YEG	1	PASI-A
		SM 4500-S2D-2011	JP1	1	PASI-A
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6020B	BK1	18	PASI-WC
92778486004	**HAM-PT-10**	EPA 6020B	JPD	1	PAN
		EPA 7470A	MAB2	1	PASI-A
		SM 2320B-2011	SMS	3	PASI-A
		SM 2540C-2015	YEG	1	PASI-A
		SM 4500-S2D-2011	JP1	1	PASI-A
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6020B	BK1	18	PASI-WC
92778486005	**HAM-PT-11**	EPA 6020B	JPD	1	PAN
		EPA 7470A	MAB2	1	PASI-A
		SM 2320B-2011	SMS	3	PASI-A
		SM 2540C-2015	YEG	1	PASI-A
		SM 4500-S2D-2011	JP1	1	PASI-A
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6020B	BK1	18	PASI-WC
92778486006	**HAM-PT-12**	EPA 6020B	JPD	1	PAN
		EPA 7470A	MAB2	1	PASI-A

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SAMPLE ANALYTE COUNT

Project: Hammond AP-1-CA-20250203
Pace Project No.: 92778486

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 2320B-2011	SMS	3	PASI-A
		SM 2540C-2015	YEG	1	PASI-A
		SM 4500-S2D-2011	JP1	1	PASI-A
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6020B	BK1	18	PASI-WC
92778486007	**HAM-PT-13**	EPA 6020B	JPD	1	PAN
		EPA 7470A	MAB2	1	PASI-A
		SM 2320B-2011	YEG	3	PASI-A
		SM 2540C-2015	CMW1	1	PASI-A
		SM 4500-S2D-2011	JP1	1	PASI-A
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6020B	BK1	18	PASI-WC
92778486008	**HAM-PT-14**	EPA 6020B	JPD	1	PAN
		EPA 7470A	MAB2	1	PASI-A
		SM 2320B-2011	YEG	3	PASI-A
		SM 2540C-2015	CMW1	1	PASI-A
		SM 4500-S2D-2011	JP1	1	PASI-A
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6020B	BK1	18	PASI-WC
92778486009	**HAM-PT-15**	EPA 6020B	JPD	1	PAN
		EPA 7470A	MAB2	1	PASI-A
		SM 2320B-2011	YEG	3	PASI-A
		SM 2540C-2015	CMW1	1	PASI-A
		SM 4500-S2D-2011	JP1	1	PASI-A
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6020B	BK1	18	PASI-WC
92778486010	**HAM-AP1-EB-01**	EPA 6020B	JPD	1	PAN
		EPA 7470A	MAB2	1	PASI-A
		SM 2320B-2011	SMS	3	PASI-A
		SM 2540C-2015	YEG	1	PASI-A
		SM 4500-S2D-2011	JP1	1	PASI-A
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6020B	BK1	18	PASI-WC
92778486011	**HAM-AP1-FB-01**	EPA 6020B	JPD	1	PAN
		EPA 7470A	MAB2	1	PASI-A
		SM 2320B-2011	SMS	3	PASI-A
		SM 2540C-2015	YEG	1	PASI-A

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SAMPLE ANALYTE COUNT

Project: Hammond AP-1-CA-20250203
Pace Project No.: 92778486

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 4500-S2D-2011	JP1	1	PASI-A
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6020B	BK1	18	PASI-WC
92778486012	**HAM-AP1-FD-01**	EPA 6020B	JPD	1	PAN
		EPA 7470A	MAB2	1	PASI-A
		SM 2320B-2011	SMS	3	PASI-A
		SM 2540C-2015	YEG	1	PASI-A
		SM 4500-S2D-2011	JP1	1	PASI-A
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6020B	BK1	18	PASI-WC

PAN = Pace National - Mt. Juliet
PASI-A = Pace Analytical Services - Asheville
PASI-WC = Pace Analytical Services - West Columbia

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SUMMARY OF DETECTION

Project: Hammond AP-1-CA-20250203
Pace Project No.: 92778486

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92778486001	**HAM-PT-07**					
EPA 6020B	Lithium	0.0461	mg/L	0.0300	03/07/25 02:49	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	169	mg/L	5.0	02/10/25 19:38	
SM 2320B-2011	Alkalinity, Total as CaCO3	169	mg/L	5.0	02/10/25 19:38	
SM 2540C-2015	Total Dissolved Solids	520	mg/L	25.0	02/08/25 13:02	
EPA 300.0 Rev 2.1 1993	Chloride	19.3	mg/L	1.0	02/09/25 05:28	
EPA 300.0 Rev 2.1 1993	Fluoride	0.40	mg/L	0.10	02/09/25 05:28	
EPA 300.0 Rev 2.1 1993	Sulfate	157	mg/L	4.0	02/09/25 09:38	
EPA 6020B	Arsenic	0.15	mg/L	0.0050	03/20/25 13:01	
EPA 6020B	Barium	0.047	mg/L	0.0050	03/20/25 13:01	
EPA 6020B	Boron	0.74	mg/L	0.40	03/20/25 22:50	
EPA 6020B	Calcium	121	mg/L	10.0	03/20/25 17:21	
EPA 6020B	Cobalt	0.036	mg/L	0.0050	03/20/25 13:01	
EPA 6020B	Iron	7.5	mg/L	0.040	03/20/25 13:01	
EPA 6020B	Magnesium	16.8	mg/L	0.050	03/20/25 13:01	
EPA 6020B	Manganese	3.4	mg/L	0.40	03/20/25 17:21	
EPA 6020B	Molybdenum	0.013	mg/L	0.010	03/20/25 13:01	
EPA 6020B	Potassium	5.5	mg/L	0.50	03/20/25 13:01	
EPA 6020B	Sodium	8.4	mg/L	1.0	03/20/25 13:01	
EPA 6020B	Thallium	0.00019J	mg/L	0.0010	03/20/25 13:01	
92778486002	**HAM-PT-08**					
EPA 6020B	Lithium	0.0201J	mg/L	0.0300	03/07/25 02:52	J
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	113	mg/L	5.0	02/10/25 19:49	
SM 2320B-2011	Alkalinity, Total as CaCO3	113	mg/L	5.0	02/10/25 19:49	
SM 2540C-2015	Total Dissolved Solids	483	mg/L	25.0	02/08/25 13:02	
EPA 300.0 Rev 2.1 1993	Chloride	19.6	mg/L	1.0	02/08/25 18:29	
EPA 300.0 Rev 2.1 1993	Fluoride	0.18	mg/L	0.10	02/08/25 18:29	
EPA 300.0 Rev 2.1 1993	Sulfate	170	mg/L	4.0	02/09/25 03:04	M1
EPA 6020B	Arsenic	0.033	mg/L	0.0050	03/20/25 13:06	
EPA 6020B	Barium	0.049	mg/L	0.0050	03/20/25 13:06	
EPA 6020B	Boron	0.82	mg/L	0.40	03/20/25 22:59	
EPA 6020B	Calcium	107	mg/L	10.0	03/20/25 17:25	
EPA 6020B	Cobalt	0.040	mg/L	0.0050	03/20/25 13:06	
EPA 6020B	Iron	1.8	mg/L	0.040	03/20/25 13:06	
EPA 6020B	Magnesium	13.4	mg/L	0.050	03/20/25 13:06	
EPA 6020B	Manganese	2.3	mg/L	0.40	03/20/25 17:25	
EPA 6020B	Molybdenum	0.0096J	mg/L	0.010	03/20/25 13:06	
EPA 6020B	Potassium	5.0	mg/L	0.50	03/20/25 13:06	
EPA 6020B	Sodium	6.8	mg/L	1.0	03/20/25 13:06	
EPA 6020B	Thallium	0.00018J	mg/L	0.0010	03/20/25 13:06	
92778486003	**HAM-PT-09**					
EPA 6020B	Lithium	0.00155J	mg/L	0.0300	03/07/25 02:55	J
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	131	mg/L	5.0	02/12/25 19:10	
SM 2320B-2011	Alkalinity, Total as CaCO3	131	mg/L	5.0	02/12/25 19:10	
SM 2540C-2015	Total Dissolved Solids	422	mg/L	25.0	02/11/25 12:06	
EPA 300.0 Rev 2.1 1993	Chloride	50.4	mg/L	1.0	02/08/25 19:10	
EPA 300.0 Rev 2.1 1993	Fluoride	0.37	mg/L	0.10	02/08/25 19:10	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Hammond AP-1-CA-20250203
Pace Project No.: 92778486

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92778486003	**HAM-PT-09**					
EPA 300.0 Rev 2.1 1993	Sulfate	111	mg/L	3.0	02/09/25 03:46	
EPA 6020B	Barium	0.060	mg/L	0.0050	03/20/25 13:10	
EPA 6020B	Boron	1.6	mg/L	0.40	03/20/25 23:08	
EPA 6020B	Calcium	89.3	mg/L	10.0	03/20/25 17:39	
EPA 6020B	Cobalt	0.0022J	mg/L	0.0050	03/20/25 13:10	
EPA 6020B	Iron	1.0	mg/L	0.040	03/20/25 13:10	
EPA 6020B	Magnesium	20.6	mg/L	0.050	03/20/25 13:10	
EPA 6020B	Manganese	0.33	mg/L	0.040	03/20/25 13:10	
EPA 6020B	Molybdenum	0.23	mg/L	0.010	03/20/25 13:10	
EPA 6020B	Potassium	6.2	mg/L	0.50	03/20/25 13:10	
EPA 6020B	Sodium	12.3	mg/L	1.0	03/20/25 13:10	
92778486004	**HAM-PT-10**					
EPA 6020B	Lithium	0.000905J	mg/L	0.0300	03/07/25 02:58	J
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	114	mg/L	5.0	02/12/25 19:25	
SM 2320B-2011	Alkalinity, Total as CaCO3	114	mg/L	5.0	02/12/25 19:25	
SM 2540C-2015	Total Dissolved Solids	401	mg/L	25.0	02/11/25 12:07	
EPA 300.0 Rev 2.1 1993	Chloride	46.3	mg/L	1.0	02/08/25 19:24	
EPA 300.0 Rev 2.1 1993	Fluoride	0.19	mg/L	0.10	02/08/25 19:24	
EPA 300.0 Rev 2.1 1993	Sulfate	110	mg/L	3.0	02/09/25 04:00	
EPA 6020B	Barium	0.046	mg/L	0.0050	03/20/25 13:15	
EPA 6020B	Boron	1.5	mg/L	0.40	03/20/25 23:17	
EPA 6020B	Calcium	98.1	mg/L	10.0	03/20/25 17:44	
EPA 6020B	Cobalt	0.0014J	mg/L	0.0050	03/20/25 13:15	
EPA 6020B	Iron	1.0	mg/L	0.040	03/20/25 13:15	
EPA 6020B	Magnesium	12.9	mg/L	0.050	03/20/25 13:15	
EPA 6020B	Manganese	0.43	mg/L	0.040	03/20/25 13:15	
EPA 6020B	Molybdenum	0.079	mg/L	0.010	03/20/25 13:15	
EPA 6020B	Potassium	6.6	mg/L	0.50	03/20/25 13:15	
EPA 6020B	Sodium	9.1	mg/L	1.0	03/20/25 13:15	
92778486005	**HAM-PT-11**					
EPA 6020B	Lithium	0.00159J	mg/L	0.0300	03/07/25 03:08	J
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	121	mg/L	5.0	02/12/25 19:32	
SM 2320B-2011	Alkalinity, Total as CaCO3	121	mg/L	5.0	02/12/25 19:32	
SM 2540C-2015	Total Dissolved Solids	400	mg/L	25.0	02/11/25 12:07	
EPA 300.0 Rev 2.1 1993	Chloride	37.7	mg/L	1.0	02/08/25 19:38	
EPA 300.0 Rev 2.1 1993	Fluoride	0.27	mg/L	0.10	02/08/25 19:38	
EPA 300.0 Rev 2.1 1993	Sulfate	96.4	mg/L	3.0	02/09/25 04:14	
EPA 6020B	Barium	0.062	mg/L	0.0050	03/20/25 13:20	
EPA 6020B	Boron	1.5	mg/L	0.40	03/20/25 23:26	
EPA 6020B	Calcium	95.8	mg/L	10.0	03/20/25 17:48	
EPA 6020B	Cobalt	0.0024J	mg/L	0.0050	03/20/25 13:20	
EPA 6020B	Iron	0.89	mg/L	0.040	03/20/25 13:20	
EPA 6020B	Magnesium	13.8	mg/L	0.050	03/20/25 13:20	
EPA 6020B	Manganese	0.35	mg/L	0.040	03/20/25 13:20	
EPA 6020B	Molybdenum	0.11	mg/L	0.010	03/20/25 13:20	
EPA 6020B	Potassium	6.3	mg/L	0.50	03/20/25 13:20	

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SUMMARY OF DETECTION

Project: Hammond AP-1-CA-20250203
Pace Project No.: 92778486

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92778486005	**HAM-PT-11**					
EPA 6020B	Sodium	8.5	mg/L	1.0	03/20/25 13:20	
92778486006	**HAM-PT-12**					
EPA 6020B	Lithium	0.00122J	mg/L	0.0300	03/07/25 03:11	J
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	120	mg/L	5.0	02/12/25 19:40	
SM 2320B-2011	Alkalinity, Total as CaCO3	120	mg/L	5.0	02/12/25 19:40	
SM 2540C-2015	Total Dissolved Solids	416	mg/L	25.0	02/11/25 12:07	
EPA 300.0 Rev 2.1 1993	Chloride	44.0	mg/L	1.0	02/08/25 19:52	
EPA 300.0 Rev 2.1 1993	Fluoride	0.25	mg/L	0.10	02/08/25 19:52	
EPA 300.0 Rev 2.1 1993	Sulfate	114	mg/L	3.0	02/09/25 04:29	
EPA 6020B	Barium	0.055	mg/L	0.0050	03/20/25 13:24	
EPA 6020B	Boron	1.6	mg/L	0.40	03/20/25 23:35	
EPA 6020B	Cadmium	0.00015J	mg/L	0.00050	03/20/25 13:24	
EPA 6020B	Calcium	91.4	mg/L	10.0	03/20/25 17:53	
EPA 6020B	Cobalt	0.0023J	mg/L	0.0050	03/20/25 13:24	
EPA 6020B	Iron	1.4	mg/L	0.040	03/20/25 13:24	
EPA 6020B	Magnesium	19.1	mg/L	0.050	03/20/25 13:24	
EPA 6020B	Manganese	0.44	mg/L	0.040	03/20/25 13:24	
EPA 6020B	Molybdenum	0.16	mg/L	0.010	03/20/25 13:24	
EPA 6020B	Potassium	6.0	mg/L	0.50	03/20/25 13:24	
EPA 6020B	Sodium	11.0	mg/L	1.0	03/20/25 13:24	
92778486007	**HAM-PT-13**					
EPA 6020B	Lithium	0.0520	mg/L	0.0300	03/07/25 03:14	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	163	mg/L	5.0	02/10/25 19:58	
SM 2320B-2011	Alkalinity, Total as CaCO3	163	mg/L	5.0	02/10/25 19:58	
SM 2540C-2015	Total Dissolved Solids	527	mg/L	25.0	02/08/25 13:03	
EPA 300.0 Rev 2.1 1993	Chloride	20.2	mg/L	1.0	02/08/25 20:06	
EPA 300.0 Rev 2.1 1993	Fluoride	0.35	mg/L	0.10	02/08/25 20:06	
EPA 300.0 Rev 2.1 1993	Sulfate	161	mg/L	4.0	02/09/25 04:43	
EPA 6020B	Arsenic	0.19	mg/L	0.0050	03/20/25 13:29	
EPA 6020B	Barium	0.046	mg/L	0.0050	03/20/25 13:29	
EPA 6020B	Boron	0.73	mg/L	0.40	03/20/25 23:44	
EPA 6020B	Calcium	114	mg/L	10.0	03/20/25 17:58	
EPA 6020B	Cobalt	0.018	mg/L	0.0050	03/20/25 13:29	
EPA 6020B	Iron	7.6	mg/L	0.040	03/20/25 13:29	
EPA 6020B	Magnesium	16.4	mg/L	0.050	03/20/25 13:29	
EPA 6020B	Manganese	2.9	mg/L	0.40	03/20/25 17:58	
EPA 6020B	Molybdenum	0.0099J	mg/L	0.010	03/20/25 13:29	
EPA 6020B	Potassium	5.4	mg/L	0.50	03/20/25 13:29	
EPA 6020B	Sodium	8.4	mg/L	1.0	03/20/25 13:29	
EPA 6020B	Thallium	0.00021J	mg/L	0.0010	03/20/25 13:29	
92778486008	**HAM-PT-14**					
EPA 6020B	Lithium	0.0528	mg/L	0.0300	03/07/25 03:17	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	170	mg/L	5.0	02/10/25 20:09	
SM 2320B-2011	Alkalinity, Total as CaCO3	170	mg/L	5.0	02/10/25 20:09	
SM 2540C-2015	Total Dissolved Solids	546	mg/L	25.0	02/08/25 13:03	
EPA 300.0 Rev 2.1 1993	Chloride	20.5	mg/L	1.0	02/08/25 20:20	

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(704)875-9092

SUMMARY OF DETECTION

Project: Hammond AP-1-CA-20250203
Pace Project No.: 92778486

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92778486008	**HAM-PT-14**					
EPA 300.0 Rev 2.1 1993	Fluoride	0.30	mg/L	0.10	02/08/25 20:20	
EPA 300.0 Rev 2.1 1993	Sulfate	170	mg/L	4.0	02/09/25 05:25	
EPA 6020B	Arsenic	0.26	mg/L	0.0050	03/20/25 13:34	
EPA 6020B	Barium	0.043	mg/L	0.0050	03/20/25 13:34	
EPA 6020B	Boron	0.75	mg/L	0.40	03/20/25 23:53	
EPA 6020B	Calcium	123	mg/L	10.0	03/20/25 18:02	
EPA 6020B	Cobalt	0.019	mg/L	0.0050	03/20/25 13:34	
EPA 6020B	Iron	11.7	mg/L	0.040	03/20/25 13:34	
EPA 6020B	Magnesium	16.8	mg/L	0.050	03/20/25 13:34	
EPA 6020B	Manganese	3.1	mg/L	0.40	03/20/25 18:02	
EPA 6020B	Molybdenum	0.015	mg/L	0.010	03/20/25 13:34	
EPA 6020B	Potassium	5.6	mg/L	0.50	03/20/25 13:34	
EPA 6020B	Sodium	8.8	mg/L	1.0	03/20/25 13:34	
92778486009	**HAM-PT-15**					
EPA 6020B	Lithium	0.0421	mg/L	0.0300	03/07/25 03:21	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	146	mg/L	5.0	02/10/25 20:20	
SM 2320B-2011	Alkalinity, Total as CaCO3	146	mg/L	5.0	02/10/25 20:20	
SM 2540C-2015	Total Dissolved Solids	515	mg/L	25.0	02/08/25 13:03	
EPA 300.0 Rev 2.1 1993	Chloride	17.4	mg/L	1.0	02/08/25 21:02	
EPA 300.0 Rev 2.1 1993	Fluoride	0.32	mg/L	0.10	02/08/25 21:02	
EPA 300.0 Rev 2.1 1993	Sulfate	173	mg/L	4.0	02/09/25 05:39	M1
EPA 6020B	Arsenic	0.078	mg/L	0.0050	03/20/25 13:38	
EPA 6020B	Barium	0.052	mg/L	0.0050	03/20/25 13:38	
EPA 6020B	Boron	0.80	mg/L	0.40	03/21/25 00:02	
EPA 6020B	Cadmium	0.00031J	mg/L	0.00050	03/20/25 13:38	
EPA 6020B	Calcium	117	mg/L	10.0	03/20/25 18:07	
EPA 6020B	Cobalt	0.026	mg/L	0.0050	03/20/25 13:38	
EPA 6020B	Iron	2.3	mg/L	0.040	03/20/25 13:38	
EPA 6020B	Magnesium	14.6	mg/L	0.050	03/20/25 13:38	
EPA 6020B	Manganese	4.1	mg/L	0.40	03/20/25 18:07	
EPA 6020B	Molybdenum	0.014	mg/L	0.010	03/20/25 13:38	
EPA 6020B	Potassium	5.4	mg/L	0.50	03/20/25 13:38	
EPA 6020B	Sodium	7.4	mg/L	1.0	03/20/25 13:38	
EPA 6020B	Thallium	0.00050J	mg/L	0.0010	03/20/25 13:38	
92778486010	**HAM-AP1-EB-01**					
EPA 6020B	Iron	0.050	mg/L	0.040	03/20/25 13:43	
EPA 6020B	Manganese	0.0015J	mg/L	0.040	03/20/25 13:43	
92778486011	**HAM-AP1-FB-01**					
EPA 6020B	Lithium	0.00809J	mg/L	0.0300	03/07/25 03:27	J
92778486012	**HAM-AP1-FD-01**					
EPA 6020B	Lithium	0.0538	mg/L	0.0300	03/07/25 03:30	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	172	mg/L	5.0	02/12/25 19:54	
SM 2320B-2011	Alkalinity, Total as CaCO3	172	mg/L	5.0	02/12/25 19:54	
SM 2540C-2015	Total Dissolved Solids	516	mg/L	25.0	02/11/25 12:08	
EPA 300.0 Rev 2.1 1993	Chloride	20.6	mg/L	1.0	02/08/25 21:43	

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SUMMARY OF DETECTION

Project: Hammond AP-1-CA-20250203
Pace Project No.: 92778486

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92778486012	**HAM-AP1-FD-01**					
EPA 300.0 Rev 2.1 1993	Fluoride	0.30	mg/L	0.10	02/08/25 21:43	
EPA 300.0 Rev 2.1 1993	Sulfate	165	mg/L	4.0	02/09/25 06:20	
EPA 6020B	Arsenic	0.26	mg/L	0.0050	03/20/25 14:01	
EPA 6020B	Barium	0.043	mg/L	0.0050	03/20/25 14:01	
EPA 6020B	Boron	0.77	mg/L	0.40	03/20/25 17:14	
EPA 6020B	Calcium	115	mg/L	10.0	03/20/25 18:21	M1
EPA 6020B	Cobalt	0.019	mg/L	0.0050	03/20/25 14:01	
EPA 6020B	Iron	11.3	mg/L	0.040	03/20/25 14:01	M1
EPA 6020B	Magnesium	16.7	mg/L	0.050	03/20/25 14:01	M1
EPA 6020B	Manganese	2.8	mg/L	0.40	03/20/25 17:14	
EPA 6020B	Molybdenum	0.015	mg/L	0.010	03/20/25 14:01	
EPA 6020B	Potassium	5.5	mg/L	0.50	03/20/25 14:01	
EPA 6020B	Sodium	8.8	mg/L	1.0	03/20/25 14:01	

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ANALYTICAL RESULTS

Project: Hammond AP-1-CA-20250203
Pace Project No.: 92778486

Sample: HAM-PT-07 **Lab ID: 92778486001** Collected: 02/04/25 11:56 Received: 02/07/25 14:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.0461**	mg/L	0.0300	0.000600	1	03/06/25 22:51	03/07/25 02:49	7439-93-2	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	02/09/25 17:53	02/11/25 14:43	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**169**	mg/L	5.0	5.0	1		02/10/25 19:38		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/10/25 19:38		
Alkalinity, Total as CaCO3	**169**	mg/L	5.0	5.0	1		02/10/25 19:38		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**520**	mg/L	25.0	25.0	1		02/08/25 13:02		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		02/08/25 03:47	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**19.3**	mg/L	1.0	0.60	1		02/09/25 05:28	16887-00-6	
Fluoride	**0.40**	mg/L	0.10	0.050	1		02/09/25 05:28	16984-48-8	
Sulfate	**157**	mg/L	4.0	2.0	4		02/09/25 09:38	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	03/19/25 06:10	03/20/25 13:01	7440-36-0	
Arsenic	**0.15**	mg/L	0.0050	0.0012	1	03/19/25 06:10	03/20/25 13:01	7440-38-2	
Barium	**0.047**	mg/L	0.0050	0.0012	1	03/19/25 06:10	03/20/25 13:01	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	03/19/25 06:10	03/20/25 13:01	7440-41-7	
Boron	**0.74**	mg/L	0.40	0.062	10	03/19/25 06:10	03/20/25 22:50	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/19/25 06:10	03/20/25 13:01	7440-43-9	
Calcium	**121**	mg/L	10.0	1.0	10	03/19/25 06:10	03/20/25 17:21	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/19/25 06:10	03/20/25 13:01	7440-47-3	
Cobalt	**0.036**	mg/L	0.0050	0.0012	1	03/19/25 06:10	03/20/25 13:01	7440-48-4	
Iron	**7.5**	mg/L	0.040	0.012	1	03/19/25 06:10	03/20/25 13:01	7439-89-6	
Lead	ND	mg/L	0.0010	0.00025	1	03/19/25 06:10	03/20/25 13:01	7439-92-1	
Magnesium	**16.8**	mg/L	0.050	0.010	1	03/19/25 06:10	03/20/25 13:01	7439-95-4	
Manganese	**3.4**	mg/L	0.40	0.012	10	03/19/25 06:10	03/20/25 17:21	7439-96-5	
Molybdenum	**0.013**	mg/L	0.010	0.0025	1	03/19/25 06:10	03/20/25 13:01	7439-98-7	
Potassium	**5.5**	mg/L	0.50	0.10	1	03/19/25 06:10	03/20/25 13:01	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	03/19/25 06:10	03/20/25 13:01	7782-49-2	

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ANALYTICAL RESULTS

Project: Hammond AP-1-CA-20250203
Pace Project No.: 92778486

Sample: HAM-PT-07 **Lab ID: 92778486001** Collected: 02/04/25 11:56 Received: 02/07/25 14:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Sodium	**8.4**	mg/L	1.0	0.15	1	03/19/25 06:10	03/20/25 13:01	7440-23-5	
Thallium	**0.00019J**	mg/L	0.0010	0.00015	1	03/19/25 06:10	03/20/25 13:01	7440-28-0	

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ANALYTICAL RESULTS

Project: Hammond AP-1-CA-20250203
Pace Project No.: 92778486

Sample: HAM-PT-08 **Lab ID: 92778486002** Collected: 02/04/25 13:39 Received: 02/07/25 14:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.0201J**	mg/L	0.0300	0.000600	1	03/06/25 22:51	03/07/25 02:52	7439-93-2	J
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	02/09/25 17:53	02/11/25 14:45	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**113**	mg/L	5.0	5.0	1		02/10/25 19:49		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/10/25 19:49		
Alkalinity, Total as CaCO3	**113**	mg/L	5.0	5.0	1		02/10/25 19:49		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**483**	mg/L	25.0	25.0	1		02/08/25 13:02		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		02/08/25 03:47	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**19.6**	mg/L	1.0	0.60	1		02/08/25 18:29	16887-00-6	
Fluoride	**0.18**	mg/L	0.10	0.050	1		02/08/25 18:29	16984-48-8	
Sulfate	**170**	mg/L	4.0	2.0	4		02/09/25 03:04	14808-79-8	M1
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	03/19/25 06:10	03/20/25 13:06	7440-36-0	
Arsenic	**0.033**	mg/L	0.0050	0.0012	1	03/19/25 06:10	03/20/25 13:06	7440-38-2	
Barium	**0.049**	mg/L	0.0050	0.0012	1	03/19/25 06:10	03/20/25 13:06	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	03/19/25 06:10	03/20/25 13:06	7440-41-7	
Boron	**0.82**	mg/L	0.40	0.062	10	03/19/25 06:10	03/20/25 22:59	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/19/25 06:10	03/20/25 13:06	7440-43-9	
Calcium	**107**	mg/L	10.0	1.0	10	03/19/25 06:10	03/20/25 17:25	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/19/25 06:10	03/20/25 13:06	7440-47-3	
Cobalt	**0.040**	mg/L	0.0050	0.0012	1	03/19/25 06:10	03/20/25 13:06	7440-48-4	
Iron	**1.8**	mg/L	0.040	0.012	1	03/19/25 06:10	03/20/25 13:06	7439-89-6	
Lead	ND	mg/L	0.0010	0.00025	1	03/19/25 06:10	03/20/25 13:06	7439-92-1	
Magnesium	**13.4**	mg/L	0.050	0.010	1	03/19/25 06:10	03/20/25 13:06	7439-95-4	
Manganese	**2.3**	mg/L	0.40	0.012	10	03/19/25 06:10	03/20/25 17:25	7439-96-5	
Molybdenum	**0.0096J**	mg/L	0.010	0.0025	1	03/19/25 06:10	03/20/25 13:06	7439-98-7	
Potassium	**5.0**	mg/L	0.50	0.10	1	03/19/25 06:10	03/20/25 13:06	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	03/19/25 06:10	03/20/25 13:06	7782-49-2	

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ANALYTICAL RESULTS

Project: Hammond AP-1-CA-20250203
Pace Project No.: 92778486

Sample: HAM-PT-08 **Lab ID: 92778486002** Collected: 02/04/25 13:39 Received: 02/07/25 14:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Sodium	**6.8**	mg/L	1.0	0.15	1	03/19/25 06:10	03/20/25 13:06	7440-23-5	
Thallium	**0.00018J**	mg/L	0.0010	0.00015	1	03/19/25 06:10	03/20/25 13:06	7440-28-0	

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ANALYTICAL RESULTS

Project: Hammond AP-1-CA-20250203
Pace Project No.: 92778486

Sample: HAM-PT-09 **Lab ID: 92778486003** Collected: 02/05/25 11:21 Received: 02/07/25 14:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.00155J**	mg/L	0.0300	0.000600	1	03/06/25 22:51	03/07/25 02:55	7439-93-2	J
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	02/09/25 17:53	02/11/25 14:47	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**131**	mg/L	5.0	5.0	1		02/12/25 19:10		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/12/25 19:10		
Alkalinity, Total as CaCO3	**131**	mg/L	5.0	5.0	1		02/12/25 19:10		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**422**	mg/L	25.0	25.0	1		02/11/25 12:06		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		02/08/25 03:56	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**50.4**	mg/L	1.0	0.60	1		02/08/25 19:10	16887-00-6	
Fluoride	**0.37**	mg/L	0.10	0.050	1		02/08/25 19:10	16984-48-8	
Sulfate	**111**	mg/L	3.0	1.5	3		02/09/25 03:46	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	03/19/25 06:10	03/20/25 13:10	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	03/19/25 06:10	03/20/25 13:10	7440-38-2	
Barium	**0.060**	mg/L	0.0050	0.0012	1	03/19/25 06:10	03/20/25 13:10	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	03/19/25 06:10	03/20/25 13:10	7440-41-7	
Boron	**1.6**	mg/L	0.40	0.062	10	03/19/25 06:10	03/20/25 23:08	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/19/25 06:10	03/20/25 13:10	7440-43-9	
Calcium	**89.3**	mg/L	10.0	1.0	10	03/19/25 06:10	03/20/25 17:39	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/19/25 06:10	03/20/25 13:10	7440-47-3	
Cobalt	**0.0022J**	mg/L	0.0050	0.0012	1	03/19/25 06:10	03/20/25 13:10	7440-48-4	
Iron	**1.0**	mg/L	0.040	0.012	1	03/19/25 06:10	03/20/25 13:10	7439-89-6	
Lead	ND	mg/L	0.0010	0.00025	1	03/19/25 06:10	03/20/25 13:10	7439-92-1	
Magnesium	**20.6**	mg/L	0.050	0.010	1	03/19/25 06:10	03/20/25 13:10	7439-95-4	
Manganese	**0.33**	mg/L	0.040	0.0012	1	03/19/25 06:10	03/20/25 13:10	7439-96-5	
Molybdenum	**0.23**	mg/L	0.010	0.0025	1	03/19/25 06:10	03/20/25 13:10	7439-98-7	
Potassium	**6.2**	mg/L	0.50	0.10	1	03/19/25 06:10	03/20/25 13:10	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	03/19/25 06:10	03/20/25 13:10	7782-49-2	

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ANALYTICAL RESULTS

Project: Hammond AP-1-CA-20250203
Pace Project No.: 92778486

Sample: HAM-PT-09 **Lab ID: 92778486003** Collected: 02/05/25 11:21 Received: 02/07/25 14:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Sodium	**12.3**	mg/L	1.0	0.15	1	03/19/25 06:10	03/20/25 13:10	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	03/19/25 06:10	03/20/25 13:10	7440-28-0	

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ANALYTICAL RESULTS

Project: Hammond AP-1-CA-20250203
Pace Project No.: 92778486

Sample: HAM-PT-10 **Lab ID: 92778486004** Collected: 02/05/25 10:00 Received: 02/07/25 14:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.000905J**	mg/L	0.0300	0.000600	1	03/06/25 22:51	03/07/25 02:58	7439-93-2	J
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	02/09/25 17:53	02/11/25 14:49	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**114**	mg/L	5.0	5.0	1		02/12/25 19:25		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/12/25 19:25		
Alkalinity, Total as CaCO3	**114**	mg/L	5.0	5.0	1		02/12/25 19:25		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**401**	mg/L	25.0	25.0	1		02/11/25 12:07		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		02/08/25 03:56	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**46.3**	mg/L	1.0	0.60	1		02/08/25 19:24	16887-00-6	
Fluoride	**0.19**	mg/L	0.10	0.050	1		02/08/25 19:24	16984-48-8	
Sulfate	**110**	mg/L	3.0	1.5	3		02/09/25 04:00	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	03/19/25 06:10	03/20/25 13:15	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	03/19/25 06:10	03/20/25 13:15	7440-38-2	
Barium	**0.046**	mg/L	0.0050	0.0012	1	03/19/25 06:10	03/20/25 13:15	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	03/19/25 06:10	03/20/25 13:15	7440-41-7	
Boron	**1.5**	mg/L	0.40	0.062	10	03/19/25 06:10	03/20/25 23:17	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/19/25 06:10	03/20/25 13:15	7440-43-9	
Calcium	**98.1**	mg/L	10.0	1.0	10	03/19/25 06:10	03/20/25 17:44	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/19/25 06:10	03/20/25 13:15	7440-47-3	
Cobalt	**0.0014J**	mg/L	0.0050	0.0012	1	03/19/25 06:10	03/20/25 13:15	7440-48-4	
Iron	**1.0**	mg/L	0.040	0.012	1	03/19/25 06:10	03/20/25 13:15	7439-89-6	
Lead	ND	mg/L	0.0010	0.00025	1	03/19/25 06:10	03/20/25 13:15	7439-92-1	
Magnesium	**12.9**	mg/L	0.050	0.010	1	03/19/25 06:10	03/20/25 13:15	7439-95-4	
Manganese	**0.43**	mg/L	0.040	0.0012	1	03/19/25 06:10	03/20/25 13:15	7439-96-5	
Molybdenum	**0.079**	mg/L	0.010	0.0025	1	03/19/25 06:10	03/20/25 13:15	7439-98-7	
Potassium	**6.6**	mg/L	0.50	0.10	1	03/19/25 06:10	03/20/25 13:15	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	03/19/25 06:10	03/20/25 13:15	7782-49-2	

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ANALYTICAL RESULTS

Project: Hammond AP-1-CA-20250203
Pace Project No.: 92778486

Sample: HAM-PT-10 **Lab ID: 92778486004** Collected: 02/05/25 10:00 Received: 02/07/25 14:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Sodium	**9.1**	mg/L	1.0	0.15	1	03/19/25 06:10	03/20/25 13:15	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	03/19/25 06:10	03/20/25 13:15	7440-28-0	

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ANALYTICAL RESULTS

Project: Hammond AP-1-CA-20250203
Pace Project No.: 92778486

Sample: HAM-PT-11 **Lab ID: 92778486005** Collected: 02/05/25 10:01 Received: 02/07/25 14:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.00159J**	mg/L	0.0300	0.000600	1	03/06/25 22:51	03/07/25 03:08	7439-93-2	J
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	02/09/25 17:53	02/11/25 14:51	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**121**	mg/L	5.0	5.0	1		02/12/25 19:32		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/12/25 19:32		
Alkalinity, Total as CaCO3	**121**	mg/L	5.0	5.0	1		02/12/25 19:32		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**400**	mg/L	25.0	25.0	1		02/11/25 12:07		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		02/08/25 03:57	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**37.7**	mg/L	1.0	0.60	1		02/08/25 19:38	16887-00-6	
Fluoride	**0.27**	mg/L	0.10	0.050	1		02/08/25 19:38	16984-48-8	
Sulfate	**96.4**	mg/L	3.0	1.5	3		02/09/25 04:14	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	03/19/25 06:10	03/20/25 13:20	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	03/19/25 06:10	03/20/25 13:20	7440-38-2	
Barium	**0.062**	mg/L	0.0050	0.0012	1	03/19/25 06:10	03/20/25 13:20	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	03/19/25 06:10	03/20/25 13:20	7440-41-7	
Boron	**1.5**	mg/L	0.40	0.062	10	03/19/25 06:10	03/20/25 23:26	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/19/25 06:10	03/20/25 13:20	7440-43-9	
Calcium	**95.8**	mg/L	10.0	1.0	10	03/19/25 06:10	03/20/25 17:48	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/19/25 06:10	03/20/25 13:20	7440-47-3	
Cobalt	**0.0024J**	mg/L	0.0050	0.0012	1	03/19/25 06:10	03/20/25 13:20	7440-48-4	
Iron	**0.89**	mg/L	0.040	0.012	1	03/19/25 06:10	03/20/25 13:20	7439-89-6	
Lead	ND	mg/L	0.0010	0.00025	1	03/19/25 06:10	03/20/25 13:20	7439-92-1	
Magnesium	**13.8**	mg/L	0.050	0.010	1	03/19/25 06:10	03/20/25 13:20	7439-95-4	
Manganese	**0.35**	mg/L	0.040	0.0012	1	03/19/25 06:10	03/20/25 13:20	7439-96-5	
Molybdenum	**0.11**	mg/L	0.010	0.0025	1	03/19/25 06:10	03/20/25 13:20	7439-98-7	
Potassium	**6.3**	mg/L	0.50	0.10	1	03/19/25 06:10	03/20/25 13:20	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	03/19/25 06:10	03/20/25 13:20	7782-49-2	

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ANALYTICAL RESULTS

Project: Hammond AP-1-CA-20250203
Pace Project No.: 92778486

Sample: HAM-PT-11 **Lab ID: 92778486005** Collected: 02/05/25 10:01 Received: 02/07/25 14:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Sodium	**8.5**	mg/L	1.0	0.15	1	03/19/25 06:10	03/20/25 13:20	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	03/19/25 06:10	03/20/25 13:20	7440-28-0	

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ANALYTICAL RESULTS

Project: Hammond AP-1-CA-20250203
Pace Project No.: 92778486

Sample: HAM-PT-12 **Lab ID: 92778486006** Collected: 02/05/25 11:41 Received: 02/07/25 14:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.00122J**	mg/L	0.0300	0.000600	1	03/06/25 22:51	03/07/25 03:11	7439-93-2	J
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	02/09/25 17:53	02/11/25 14:57	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**120**	mg/L	5.0	5.0	1		02/12/25 19:40		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/12/25 19:40		
Alkalinity, Total as CaCO3	**120**	mg/L	5.0	5.0	1		02/12/25 19:40		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**416**	mg/L	25.0	25.0	1		02/11/25 12:07		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		02/08/25 03:57	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**44.0**	mg/L	1.0	0.60	1		02/08/25 19:52	16887-00-6	
Fluoride	**0.25**	mg/L	0.10	0.050	1		02/08/25 19:52	16984-48-8	
Sulfate	**114**	mg/L	3.0	1.5	3		02/09/25 04:29	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	03/19/25 06:10	03/20/25 13:24	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	03/19/25 06:10	03/20/25 13:24	7440-38-2	
Barium	**0.055**	mg/L	0.0050	0.0012	1	03/19/25 06:10	03/20/25 13:24	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	03/19/25 06:10	03/20/25 13:24	7440-41-7	
Boron	**1.6**	mg/L	0.40	0.062	10	03/19/25 06:10	03/20/25 23:35	7440-42-8	
Cadmium	**0.00015J**	mg/L	0.00050	0.00012	1	03/19/25 06:10	03/20/25 13:24	7440-43-9	
Calcium	**91.4**	mg/L	10.0	1.0	10	03/19/25 06:10	03/20/25 17:53	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/19/25 06:10	03/20/25 13:24	7440-47-3	
Cobalt	**0.0023J**	mg/L	0.0050	0.0012	1	03/19/25 06:10	03/20/25 13:24	7440-48-4	
Iron	**1.4**	mg/L	0.040	0.012	1	03/19/25 06:10	03/20/25 13:24	7439-89-6	
Lead	ND	mg/L	0.0010	0.00025	1	03/19/25 06:10	03/20/25 13:24	7439-92-1	
Magnesium	**19.1**	mg/L	0.050	0.010	1	03/19/25 06:10	03/20/25 13:24	7439-95-4	
Manganese	**0.44**	mg/L	0.040	0.0012	1	03/19/25 06:10	03/20/25 13:24	7439-96-5	
Molybdenum	**0.16**	mg/L	0.010	0.0025	1	03/19/25 06:10	03/20/25 13:24	7439-98-7	
Potassium	**6.0**	mg/L	0.50	0.10	1	03/19/25 06:10	03/20/25 13:24	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	03/19/25 06:10	03/20/25 13:24	7782-49-2	

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ANALYTICAL RESULTS

Project: Hammond AP-1-CA-20250203
Pace Project No.: 92778486

Sample: HAM-PT-12 **Lab ID: 92778486006** Collected: 02/05/25 11:41 Received: 02/07/25 14:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Sodium	**11.0**	mg/L	1.0	0.15	1	03/19/25 06:10	03/20/25 13:24	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	03/19/25 06:10	03/20/25 13:24	7440-28-0	

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ANALYTICAL RESULTS

Project: Hammond AP-1-CA-20250203
Pace Project No.: 92778486

Sample: HAM-PT-13 **Lab ID: 92778486007** Collected: 02/04/25 10:05 Received: 02/07/25 14:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.0520**	mg/L	0.0300	0.000600	1	03/06/25 22:51	03/07/25 03:14	7439-93-2	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	02/09/25 17:53	02/11/25 15:00	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**163**	mg/L	5.0	5.0	1		02/10/25 19:58		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/10/25 19:58		
Alkalinity, Total as CaCO3	**163**	mg/L	5.0	5.0	1		02/10/25 19:58		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**527**	mg/L	25.0	25.0	1		02/08/25 13:03		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		02/08/25 03:47	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**20.2**	mg/L	1.0	0.60	1		02/08/25 20:06	16887-00-6	
Fluoride	**0.35**	mg/L	0.10	0.050	1		02/08/25 20:06	16984-48-8	
Sulfate	**161**	mg/L	4.0	2.0	4		02/09/25 04:43	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	03/19/25 06:10	03/20/25 13:29	7440-36-0	
Arsenic	**0.19**	mg/L	0.0050	0.0012	1	03/19/25 06:10	03/20/25 13:29	7440-38-2	
Barium	**0.046**	mg/L	0.0050	0.0012	1	03/19/25 06:10	03/20/25 13:29	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	03/19/25 06:10	03/20/25 13:29	7440-41-7	
Boron	**0.73**	mg/L	0.40	0.062	10	03/19/25 06:10	03/20/25 23:44	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/19/25 06:10	03/20/25 13:29	7440-43-9	
Calcium	**114**	mg/L	10.0	1.0	10	03/19/25 06:10	03/20/25 17:58	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/19/25 06:10	03/20/25 13:29	7440-47-3	
Cobalt	**0.018**	mg/L	0.0050	0.0012	1	03/19/25 06:10	03/20/25 13:29	7440-48-4	
Iron	**7.6**	mg/L	0.040	0.012	1	03/19/25 06:10	03/20/25 13:29	7439-89-6	
Lead	ND	mg/L	0.0010	0.00025	1	03/19/25 06:10	03/20/25 13:29	7439-92-1	
Magnesium	**16.4**	mg/L	0.050	0.010	1	03/19/25 06:10	03/20/25 13:29	7439-95-4	
Manganese	**2.9**	mg/L	0.40	0.012	10	03/19/25 06:10	03/20/25 17:58	7439-96-5	
Molybdenum	**0.0099J**	mg/L	0.010	0.0025	1	03/19/25 06:10	03/20/25 13:29	7439-98-7	
Potassium	**5.4**	mg/L	0.50	0.10	1	03/19/25 06:10	03/20/25 13:29	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	03/19/25 06:10	03/20/25 13:29	7782-49-2	

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ANALYTICAL RESULTS

Project: Hammond AP-1-CA-20250203
Pace Project No.: 92778486

Sample: HAM-PT-13 **Lab ID: 92778486007** Collected: 02/04/25 10:05 Received: 02/07/25 14:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Sodium	**8.4**	mg/L	1.0	0.15	1	03/19/25 06:10	03/20/25 13:29	7440-23-5	
Thallium	**0.00021J**	mg/L	0.0010	0.00015	1	03/19/25 06:10	03/20/25 13:29	7440-28-0	

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ANALYTICAL RESULTS

Project: Hammond AP-1-CA-20250203
Pace Project No.: 92778486

Sample: HAM-PT-14 **Lab ID: 92778486008** Collected: 02/04/25 10:08 Received: 02/07/25 14:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.0528**	mg/L	0.0300	0.000600	1	03/06/25 22:51	03/07/25 03:17	7439-93-2	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	02/09/25 17:53	02/11/25 15:02	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**170**	mg/L	5.0	5.0	1		02/10/25 20:09		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/10/25 20:09		
Alkalinity, Total as CaCO3	**170**	mg/L	5.0	5.0	1		02/10/25 20:09		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**546**	mg/L	25.0	25.0	1		02/08/25 13:03		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		02/08/25 03:48	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**20.5**	mg/L	1.0	0.60	1		02/08/25 20:20	16887-00-6	
Fluoride	**0.30**	mg/L	0.10	0.050	1		02/08/25 20:20	16984-48-8	
Sulfate	**170**	mg/L	4.0	2.0	4		02/09/25 05:25	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	03/19/25 06:10	03/20/25 13:34	7440-36-0	
Arsenic	**0.26**	mg/L	0.0050	0.0012	1	03/19/25 06:10	03/20/25 13:34	7440-38-2	
Barium	**0.043**	mg/L	0.0050	0.0012	1	03/19/25 06:10	03/20/25 13:34	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	03/19/25 06:10	03/20/25 13:34	7440-41-7	
Boron	**0.75**	mg/L	0.40	0.062	10	03/19/25 06:10	03/20/25 23:53	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/19/25 06:10	03/20/25 13:34	7440-43-9	
Calcium	**123**	mg/L	10.0	1.0	10	03/19/25 06:10	03/20/25 18:02	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/19/25 06:10	03/20/25 13:34	7440-47-3	
Cobalt	**0.019**	mg/L	0.0050	0.0012	1	03/19/25 06:10	03/20/25 13:34	7440-48-4	
Iron	**11.7**	mg/L	0.040	0.012	1	03/19/25 06:10	03/20/25 13:34	7439-89-6	
Lead	ND	mg/L	0.0010	0.00025	1	03/19/25 06:10	03/20/25 13:34	7439-92-1	
Magnesium	**16.8**	mg/L	0.050	0.010	1	03/19/25 06:10	03/20/25 13:34	7439-95-4	
Manganese	**3.1**	mg/L	0.40	0.012	10	03/19/25 06:10	03/20/25 18:02	7439-96-5	
Molybdenum	**0.015**	mg/L	0.010	0.0025	1	03/19/25 06:10	03/20/25 13:34	7439-98-7	
Potassium	**5.6**	mg/L	0.50	0.10	1	03/19/25 06:10	03/20/25 13:34	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	03/19/25 06:10	03/20/25 13:34	7782-49-2	

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ANALYTICAL RESULTS

Project: Hammond AP-1-CA-20250203
Pace Project No.: 92778486

Sample: HAM-PT-14 **Lab ID: 92778486008** Collected: 02/04/25 10:08 Received: 02/07/25 14:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Sodium	**8.8**	mg/L	1.0	0.15	1	03/19/25 06:10	03/20/25 13:34	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	03/19/25 06:10	03/20/25 13:34	7440-28-0	

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ANALYTICAL RESULTS

Project: Hammond AP-1-CA-20250203
Pace Project No.: 92778486

Sample: HAM-PT-15 **Lab ID: 92778486009** Collected: 02/04/25 14:55 Received: 02/07/25 14:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.0421**	mg/L	0.0300	0.000600	1	03/06/25 22:51	03/07/25 03:21	7439-93-2	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	02/09/25 17:53	02/11/25 15:04	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**146**	mg/L	5.0	5.0	1		02/10/25 20:20		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/10/25 20:20		
Alkalinity, Total as CaCO3	**146**	mg/L	5.0	5.0	1		02/10/25 20:20		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**515**	mg/L	25.0	25.0	1		02/08/25 13:03		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		02/08/25 03:50	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**17.4**	mg/L	1.0	0.60	1		02/08/25 21:02	16887-00-6	
Fluoride	**0.32**	mg/L	0.10	0.050	1		02/08/25 21:02	16984-48-8	
Sulfate	**173**	mg/L	4.0	2.0	4		02/09/25 05:39	14808-79-8	M1
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	03/19/25 06:10	03/20/25 13:38	7440-36-0	
Arsenic	**0.078**	mg/L	0.0050	0.0012	1	03/19/25 06:10	03/20/25 13:38	7440-38-2	
Barium	**0.052**	mg/L	0.0050	0.0012	1	03/19/25 06:10	03/20/25 13:38	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	03/19/25 06:10	03/20/25 13:38	7440-41-7	
Boron	**0.80**	mg/L	0.40	0.062	10	03/19/25 06:10	03/21/25 00:02	7440-42-8	
Cadmium	**0.00031J**	mg/L	0.00050	0.00012	1	03/19/25 06:10	03/20/25 13:38	7440-43-9	
Calcium	**117**	mg/L	10.0	1.0	10	03/19/25 06:10	03/20/25 18:07	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/19/25 06:10	03/20/25 13:38	7440-47-3	
Cobalt	**0.026**	mg/L	0.0050	0.0012	1	03/19/25 06:10	03/20/25 13:38	7440-48-4	
Iron	**2.3**	mg/L	0.040	0.012	1	03/19/25 06:10	03/20/25 13:38	7439-89-6	
Lead	ND	mg/L	0.0010	0.00025	1	03/19/25 06:10	03/20/25 13:38	7439-92-1	
Magnesium	**14.6**	mg/L	0.050	0.010	1	03/19/25 06:10	03/20/25 13:38	7439-95-4	
Manganese	**4.1**	mg/L	0.40	0.012	10	03/19/25 06:10	03/20/25 18:07	7439-96-5	
Molybdenum	**0.014**	mg/L	0.010	0.0025	1	03/19/25 06:10	03/20/25 13:38	7439-98-7	
Potassium	**5.4**	mg/L	0.50	0.10	1	03/19/25 06:10	03/20/25 13:38	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	03/19/25 06:10	03/20/25 13:38	7782-49-2	

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ANALYTICAL RESULTS

Project: Hammond AP-1-CA-20250203
Pace Project No.: 92778486

Sample: HAM-PT-15 **Lab ID: 92778486009** Collected: 02/04/25 14:55 Received: 02/07/25 14:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Sodium	**7.4**	mg/L	1.0	0.15	1	03/19/25 06:10	03/20/25 13:38	7440-23-5	
Thallium	**0.00050J**	mg/L	0.0010	0.00015	1	03/19/25 06:10	03/20/25 13:38	7440-28-0	

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ANALYTICAL RESULTS

Project: Hammond AP-1-CA-20250203
Pace Project No.: 92778486

Sample: HAM-AP1-EB-01 **Lab ID: 92778486010** Collected: 02/05/25 12:30 Received: 02/07/25 14:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	ND	mg/L	0.0300	0.000600	1	03/06/25 22:51	03/07/25 03:24	7439-93-2	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	02/10/25 17:03	02/13/25 14:14	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/12/25 19:47		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/12/25 19:47		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		02/12/25 19:47		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		02/11/25 12:07		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		02/08/25 03:58	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		02/08/25 15:55	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/08/25 15:55	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		02/08/25 15:55	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	03/19/25 06:10	03/20/25 13:43	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	03/19/25 06:10	03/20/25 13:43	7440-38-2	
Barium	ND	mg/L	0.0050	0.0012	1	03/19/25 06:10	03/20/25 13:43	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	03/19/25 06:10	03/20/25 13:43	7440-41-7	
Boron	ND	mg/L	0.040	0.0062	1	03/19/25 06:10	03/21/25 00:11	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/19/25 06:10	03/20/25 13:43	7440-43-9	
Calcium	ND	mg/L	1.0	0.10	1	03/19/25 06:10	03/20/25 13:43	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/19/25 06:10	03/20/25 13:43	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.0012	1	03/19/25 06:10	03/20/25 13:43	7440-48-4	
Iron	**0.050**	mg/L	0.040	0.012	1	03/19/25 06:10	03/20/25 13:43	7439-89-6	
Lead	ND	mg/L	0.0010	0.00025	1	03/19/25 06:10	03/20/25 13:43	7439-92-1	
Magnesium	ND	mg/L	0.050	0.010	1	03/19/25 06:10	03/20/25 13:43	7439-95-4	
Manganese	**0.0015J**	mg/L	0.040	0.0012	1	03/19/25 06:10	03/20/25 13:43	7439-96-5	
Molybdenum	ND	mg/L	0.010	0.0025	1	03/19/25 06:10	03/20/25 13:43	7439-98-7	
Potassium	ND	mg/L	0.50	0.10	1	03/19/25 06:10	03/20/25 13:43	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	03/19/25 06:10	03/20/25 13:43	7782-49-2	

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ANALYTICAL RESULTS

Project: Hammond AP-1-CA-20250203
Pace Project No.: 92778486

Sample: HAM-AP1-EB-01 **Lab ID: 92778486010** Collected: 02/05/25 12:30 Received: 02/07/25 14:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Sodium	ND	mg/L	1.0	0.15	1	03/19/25 06:10	03/20/25 13:43	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	03/19/25 06:10	03/20/25 13:43	7440-28-0	

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ANALYTICAL RESULTS

Project: Hammond AP-1-CA-20250203
Pace Project No.: 92778486

Sample: HAM-AP1-FB-01 **Lab ID: 92778486011** Collected: 02/05/25 12:20 Received: 02/07/25 14:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.00809J**	mg/L	0.0300	0.000600	1	03/06/25 22:51	03/07/25 03:27	7439-93-2	J
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	02/10/25 17:03	02/13/25 14:18	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/12/25 19:51		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/12/25 19:51		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		02/12/25 19:51		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		02/11/25 12:07		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		02/08/25 03:58	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		02/08/25 16:09	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/08/25 16:09	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		02/08/25 16:09	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	03/19/25 06:10	03/20/25 13:57	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	03/19/25 06:10	03/20/25 13:57	7440-38-2	
Barium	ND	mg/L	0.0050	0.0012	1	03/19/25 06:10	03/20/25 13:57	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	03/19/25 06:10	03/20/25 13:57	7440-41-7	
Boron	ND	mg/L	0.040	0.0062	1	03/19/25 06:10	03/21/25 00:39	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/19/25 06:10	03/20/25 13:57	7440-43-9	
Calcium	ND	mg/L	1.0	0.10	1	03/19/25 06:10	03/20/25 13:57	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/19/25 06:10	03/20/25 13:57	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.0012	1	03/19/25 06:10	03/20/25 13:57	7440-48-4	
Iron	ND	mg/L	0.040	0.012	1	03/19/25 06:10	03/20/25 13:57	7439-89-6	
Lead	ND	mg/L	0.0010	0.00025	1	03/19/25 06:10	03/20/25 13:57	7439-92-1	
Magnesium	ND	mg/L	0.050	0.010	1	03/19/25 06:10	03/20/25 13:57	7439-95-4	
Manganese	ND	mg/L	0.040	0.0012	1	03/19/25 06:10	03/20/25 13:57	7439-96-5	
Molybdenum	ND	mg/L	0.010	0.0025	1	03/19/25 06:10	03/20/25 13:57	7439-98-7	
Potassium	ND	mg/L	0.50	0.10	1	03/19/25 06:10	03/20/25 13:57	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	03/19/25 06:10	03/20/25 13:57	7782-49-2	

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ANALYTICAL RESULTS

Project: Hammond AP-1-CA-20250203
Pace Project No.: 92778486

Sample: HAM-AP1-FB-01 **Lab ID: 92778486011** Collected: 02/05/25 12:20 Received: 02/07/25 14:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Sodium	ND	mg/L	1.0	0.15	1	03/19/25 06:10	03/20/25 13:57	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	03/19/25 06:10	03/20/25 13:57	7440-28-0	

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ANALYTICAL RESULTS

Project: Hammond AP-1-CA-20250203
Pace Project No.: 92778486

Sample: HAM-AP1-FD-01 **Lab ID: 92778486012** Collected: 02/05/25 00:00 Received: 02/07/25 14:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.0538**	mg/L	0.0300	0.000600	1	03/06/25 22:51	03/07/25 03:30	7439-93-2	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	02/10/25 17:03	02/13/25 14:20	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**172**	mg/L	5.0	5.0	1		02/12/25 19:54		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/12/25 19:54		
Alkalinity, Total as CaCO3	**172**	mg/L	5.0	5.0	1		02/12/25 19:54		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**516**	mg/L	25.0	25.0	1		02/11/25 12:08		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		02/08/25 03:58	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**20.6**	mg/L	1.0	0.60	1		02/08/25 21:43	16887-00-6	
Fluoride	**0.30**	mg/L	0.10	0.050	1		02/08/25 21:43	16984-48-8	
Sulfate	**165**	mg/L	4.0	2.0	4		02/09/25 06:20	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	03/19/25 06:10	03/20/25 14:01	7440-36-0	
Arsenic	**0.26**	mg/L	0.0050	0.0012	1	03/19/25 06:10	03/20/25 14:01	7440-38-2	
Barium	**0.043**	mg/L	0.0050	0.0012	1	03/19/25 06:10	03/20/25 14:01	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	03/19/25 06:10	03/20/25 14:01	7440-41-7	
Boron	**0.77**	mg/L	0.40	0.062	10	03/19/25 06:10	03/20/25 17:14	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/19/25 06:10	03/20/25 14:01	7440-43-9	
Calcium	**115**	mg/L	10.0	1.0	10	03/19/25 06:10	03/20/25 18:21	7440-70-2	M1
Chromium	ND	mg/L	0.0050	0.0012	1	03/19/25 06:10	03/20/25 14:01	7440-47-3	
Cobalt	**0.019**	mg/L	0.0050	0.0012	1	03/19/25 06:10	03/20/25 14:01	7440-48-4	
Iron	**11.3**	mg/L	0.040	0.012	1	03/19/25 06:10	03/20/25 14:01	7439-89-6	M1
Lead	ND	mg/L	0.0010	0.00025	1	03/19/25 06:10	03/20/25 14:01	7439-92-1	
Magnesium	**16.7**	mg/L	0.050	0.010	1	03/19/25 06:10	03/20/25 14:01	7439-95-4	M1
Manganese	**2.8**	mg/L	0.40	0.012	10	03/19/25 06:10	03/20/25 17:14	7439-96-5	
Molybdenum	**0.015**	mg/L	0.010	0.0025	1	03/19/25 06:10	03/20/25 14:01	7439-98-7	
Potassium	**5.5**	mg/L	0.50	0.10	1	03/19/25 06:10	03/20/25 14:01	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	03/19/25 06:10	03/20/25 14:01	7782-49-2	

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ANALYTICAL RESULTS

Project: Hammond AP-1-CA-20250203
Pace Project No.: 92778486

Sample: HAM-AP1-FD-01 **Lab ID: 92778486012** Collected: 02/05/25 00:00 Received: 02/07/25 14:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Sodium	**8.8**	mg/L	1.0	0.15	1	03/19/25 06:10	03/20/25 14:01	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	03/19/25 06:10	03/20/25 14:01	7440-28-0	

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QUALITY CONTROL DATA

Project: Hammond AP-1-CA-20250203
Pace Project No.: 92778486

QC Batch: 2464154
QC Batch Method: 3015
Analysis Method: EPA 6020B
Analysis Description: Metals (ICPMS) 6020B
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 92778486001, 92778486002, 92778486003, 92778486004, 92778486005, 92778486006, 92778486007, 92778486008, 92778486009, 92778486010, 92778486011, 92778486012

METHOD BLANK: R4183615-1 Matrix: Water
Associated Lab Samples: 92778486001, 92778486002, 92778486003, 92778486004, 92778486005, 92778486006, 92778486007, 92778486008, 92778486009, 92778486010, 92778486011, 92778486012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lithium	mg/L	ND	0.0300	0.000600	03/07/25 02:29	

LABORATORY CONTROL SAMPLE: R4183615-2

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lithium	mg/L	0.0500	0.0476	95.2	80.0-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R4183615-4 R4183615-5

Parameter	Units	L1833065-06 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lithium	mg/L	0.00370	0.0500	0.0500	0.0494	0.0494	91.4	91.3	75.0-125	0.036	20	

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QUALITY CONTROL DATA

Project: Hammond AP-1-CA-20250203
Pace Project No.: 92778486

QC Batch: 914889
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92778486001, 92778486002, 92778486003, 92778486004, 92778486005, 92778486006, 92778486007, 92778486008, 92778486009

METHOD BLANK: 4702575 Matrix: Water
Associated Lab Samples: 92778486001, 92778486002, 92778486003, 92778486004, 92778486005, 92778486006, 92778486007, 92778486008, 92778486009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00012	02/11/25 14:07	

LABORATORY CONTROL SAMPLE: 4702576

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0024	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4702577 4702578

Parameter	Units	92777579004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0024	0.0023	94	93	75-125	1	25	

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QUALITY CONTROL DATA

Project: Hammond AP-1-CA-20250203
Pace Project No.: 92778486

QC Batch: 914965
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92778486010, 92778486011, 92778486012

METHOD BLANK: 4702822 Matrix: Water
Associated Lab Samples: 92778486010, 92778486011, 92778486012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00012	02/13/25 14:10	

LABORATORY CONTROL SAMPLE: 4702823

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0022	88	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4702824 4702825

Parameter	Units	92778486010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0023	0.0022	93	89	75-125	5	25	

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QUALITY CONTROL DATA

Project: Hammond AP-1-CA-20250203
Pace Project No.: 92778486

QC Batch: 915023
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92778486001, 92778486002, 92778486007, 92778486008, 92778486009

METHOD BLANK: 4703162 Matrix: Water
Associated Lab Samples: 92778486001, 92778486002, 92778486007, 92778486008, 92778486009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	02/10/25 16:31	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	02/10/25 16:31	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	02/10/25 16:31	

LABORATORY CONTROL SAMPLE: 4703163

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.6	103	80-120	

LABORATORY CONTROL SAMPLE: 4703164

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	52.9	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4703165 4703166

Parameter	Units	92778494003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	7.1	50	50	53.2	52.2	92	90	80-120	2	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4703167 4703168

Parameter	Units	92778494004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	246	50	50	290	299	88	106	80-120	3	25	

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QUALITY CONTROL DATA

Project: Hammond AP-1-CA-20250203
Pace Project No.: 92778486

QC Batch: 915650 | Analysis Method: SM 2320B-2011
QC Batch Method: SM 2320B-2011 | Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92778486003, 92778486004, 92778486005, 92778486006, 92778486010, 92778486011, 92778486012

METHOD BLANK: 4705927 Matrix: Water
Associated Lab Samples: 92778486003, 92778486004, 92778486005, 92778486006, 92778486010, 92778486011, 92778486012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	02/12/25 16:53	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	02/12/25 16:53	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	02/12/25 16:53	

LABORATORY CONTROL SAMPLE: 4705928

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.7	103	80-120	

LABORATORY CONTROL SAMPLE: 4705929

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	52.2	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4705930 4705931

Parameter	Units	92777634001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	163	50	50	220	223	115	120	80-120	1	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4705932 4705933

Parameter	Units	92777222002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	13.8	50	50	65.4	65.3	103	103	80-120	0	25	

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QUALITY CONTROL DATA

Project: Hammond AP-1-CA-20250203
Pace Project No.: 92778486

QC Batch: 914807 | Analysis Method: SM 2540C-2015
QC Batch Method: SM 2540C-2015 | Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92778486001, 92778486002, 92778486007, 92778486008, 92778486009

METHOD BLANK: 4702382 Matrix: Water
Associated Lab Samples: 92778486001, 92778486002, 92778486007, 92778486008, 92778486009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	02/08/25 13:01	

LABORATORY CONTROL SAMPLE: 4702383

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	251	252	101	90-110	

SAMPLE DUPLICATE: 4702384

Parameter	Units	92778494001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	386	380	2	25	

SAMPLE DUPLICATE: 4702385

Parameter	Units	92778486002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	483	482	0	25	

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QUALITY CONTROL DATA

Project: Hammond AP-1-CA-20250203
Pace Project No.: 92778486

QC Batch: 915152 | Analysis Method: SM 2540C-2015
QC Batch Method: SM 2540C-2015 | Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92778486003, 92778486004, 92778486005, 92778486006, 92778486010, 92778486011, 92778486012

METHOD BLANK: 4703776 Matrix: Water
Associated Lab Samples: 92778486003, 92778486004, 92778486005, 92778486006, 92778486010, 92778486011, 92778486012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	02/11/25 12:03	

LABORATORY CONTROL SAMPLE: 4703777

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	246	98	90-110	

SAMPLE DUPLICATE: 4703778

Parameter	Units	92778266001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	124	114	8	25	

SAMPLE DUPLICATE: 4703779

Parameter	Units	92778486005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	400	400	0	25	

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QUALITY CONTROL DATA

Project: Hammond AP-1-CA-20250203
Pace Project No.: 92778486

QC Batch: 914751
QC Batch Method: SM 4500-S2D-2011
Analysis Method: SM 4500-S2D-2011
Analysis Description: 4500S2D Sulfide Water
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92778486001, 92778486002, 92778486007, 92778486008

METHOD BLANK: 4702232 Matrix: Water
Associated Lab Samples: 92778486001, 92778486002, 92778486007, 92778486008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	0.022	02/08/25 03:36	

LABORATORY CONTROL SAMPLE: 4702233

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	0.51	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4702234 4702235

Parameter	Units	92778050001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.51	0.54	101	108	80-120	6	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4702236 4702237

Parameter	Units	92778494009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.46	0.47	93	93	80-120	0	10	

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QUALITY CONTROL DATA

Project: Hammond AP-1-CA-20250203
Pace Project No.: 92778486

QC Batch: 914753
QC Batch Method: SM 4500-S2D-2011
Analysis Method: SM 4500-S2D-2011
Analysis Description: 4500S2D Sulfide Water
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92778486003, 92778486004, 92778486005, 92778486006, 92778486009, 92778486010, 92778486011, 92778486012

METHOD BLANK: 4702242 Matrix: Water
Associated Lab Samples: 92778486003, 92778486004, 92778486005, 92778486006, 92778486009, 92778486010, 92778486011, 92778486012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	0.022	02/08/25 03:49	

LABORATORY CONTROL SAMPLE: 4702243

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	0.52	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4702244 4702245

Parameter	Units	92778486009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.51	0.48	102	95	80-120	7	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4702246 4702247

Parameter	Units	92777989003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.51	0.55	101	110	80-120	9	10	

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QUALITY CONTROL DATA

Project: Hammond AP-1-CA-20250203
Pace Project No.: 92778486

QC Batch: 914792
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92778486001

METHOD BLANK: 4702337 Matrix: Water
Associated Lab Samples: 92778486001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/08/25 21:17	
Fluoride	mg/L	ND	0.10	0.050	02/08/25 21:17	
Sulfate	mg/L	ND	1.0	0.50	02/08/25 21:17	

LABORATORY CONTROL SAMPLE: 4702338

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	51.4	103	90-110	
Fluoride	mg/L	2.5	2.6	104	90-110	
Sulfate	mg/L	50	52.2	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4702339 4702340

Parameter	Units	92778538006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	28.7	50	50	79.0	78.0	101	99	90-110	1	10	
Fluoride	mg/L	0.055J	2.5	2.5	2.7	2.6	105	103	90-110	1	10	
Sulfate	mg/L	110	50	50	150	149	80	78	90-110	1	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4702341 4702342

Parameter	Units	92778538016 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	1.4	50	50	50.5	52.0	98	101	90-110	3	10	
Fluoride	mg/L	0.073J	2.5	2.5	2.6	2.7	101	104	90-110	3	10	
Sulfate	mg/L	11.6	50	50	61.1	62.5	99	102	90-110	2	10	

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(704)875-9092

QUALITY CONTROL DATA

Project: Hammond AP-1-CA-20250203
Pace Project No.: 92778486

QC Batch: 914829
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92778486002, 92778486003, 92778486004, 92778486005, 92778486006, 92778486007, 92778486008, 92778486009, 92778486010, 92778486011, 92778486012

METHOD BLANK: 4702454 Matrix: Water
Associated Lab Samples: 92778486002, 92778486003, 92778486004, 92778486005, 92778486006, 92778486007, 92778486008, 92778486009, 92778486010, 92778486011, 92778486012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/08/25 15:27	
Fluoride	mg/L	ND	0.10	0.050	02/08/25 15:27	
Sulfate	mg/L	ND	1.0	0.50	02/08/25 15:27	

LABORATORY CONTROL SAMPLE: 4702455

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	51.0	102	90-110	
Fluoride	mg/L	2.5	2.7	108	90-110	
Sulfate	mg/L	50	51.2	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4702456 4702457

Parameter	Units	92778486002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	19.6	50	50	68.9	70.0	99	101	90-110	2	10	
Fluoride	mg/L	0.18	2.5	2.5	2.7	2.7	100	102	90-110	2	10	
Sulfate	mg/L	170	50	50	209	209	77	78	90-110	0	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4702458 4702459

Parameter	Units	92778486009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	17.4	50	50	66.9	66.1	99	97	90-110	1	10	
Fluoride	mg/L	0.32	2.5	2.5	2.8	2.8	100	98	90-110	2	10	
Sulfate	mg/L	173	50	50	213	211	81	77	90-110	1	10	M1

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QUALITY CONTROL DATA

Project: Hammond AP-1-CA-20250203
Pace Project No.: 92778486

QC Batch: 923197
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: WC 6020B MET
Laboratory: Pace Analytical Services - West Columbia
Associated Lab Samples: 92778486001, 92778486002, 92778486003, 92778486004, 92778486005, 92778486006, 92778486007, 92778486008, 92778486009, 92778486010, 92778486011, 92778486012

METHOD BLANK: 4743181 Matrix: Water
Associated Lab Samples: 92778486001, 92778486002, 92778486003, 92778486004, 92778486005, 92778486006, 92778486007, 92778486008, 92778486009, 92778486010, 92778486011, 92778486012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00050	03/20/25 12:33	
Arsenic	mg/L	ND	0.0050	0.0012	03/20/25 12:33	
Barium	mg/L	ND	0.0050	0.0012	03/20/25 12:33	
Beryllium	mg/L	ND	0.00050	0.00015	03/20/25 12:33	
Boron	mg/L	ND	0.040	0.0062	03/20/25 16:02	
Cadmium	mg/L	ND	0.00050	0.00012	03/20/25 12:33	
Calcium	mg/L	ND	1.0	0.10	03/20/25 12:33	
Chromium	mg/L	ND	0.0050	0.0012	03/20/25 12:33	
Cobalt	mg/L	ND	0.0050	0.0012	03/20/25 12:33	
Iron	mg/L	ND	0.040	0.012	03/20/25 12:33	
Lead	mg/L	ND	0.0010	0.00025	03/20/25 12:33	
Magnesium	mg/L	ND	0.050	0.010	03/20/25 12:33	
Manganese	mg/L	ND	0.040	0.0012	03/20/25 12:33	
Molybdenum	mg/L	ND	0.010	0.0025	03/20/25 12:33	
Potassium	mg/L	ND	0.50	0.10	03/20/25 12:33	
Selenium	mg/L	ND	0.0050	0.0012	03/20/25 12:33	
Sodium	mg/L	ND	1.0	0.15	03/20/25 12:33	
Thallium	mg/L	ND	0.0010	0.00015	03/20/25 12:33	

LABORATORY CONTROL SAMPLE: 4743182

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.093	93	80-120	
Arsenic	mg/L	0.1	0.097	97	80-120	
Barium	mg/L	0.1	0.094	94	80-120	
Beryllium	mg/L	0.1	0.096	96	80-120	
Boron	mg/L	0.1	0.095	95	80-120	
Cadmium	mg/L	0.1	0.095	95	80-120	
Calcium	mg/L	1	0.99J	99	80-120	
Chromium	mg/L	0.1	0.098	98	80-120	
Cobalt	mg/L	0.1	0.10	103	80-120	
Iron	mg/L	1	0.99	99	80-120	
Lead	mg/L	0.1	0.10	102	80-120	
Magnesium	mg/L	1	0.97	97	80-120	
Manganese	mg/L	0.1	0.096	96	80-120	
Molybdenum	mg/L	0.1	0.095	95	80-120	
Potassium	mg/L	1	1.0	103	80-120	

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QUALITY CONTROL DATA

Project: Hammond AP-1-CA-20250203
Pace Project No.: 92778486

LABORATORY CONTROL SAMPLE: 4743182

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Selenium	mg/L	0.1	0.096	96	80-120	
Sodium	mg/L	1	1.0	104	80-120	
Thallium	mg/L	0.1	0.099	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4743183 4743184

Parameter	Units	92778486012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.096	0.095	96	95	75-125	1	20	
Arsenic	mg/L	0.26	0.1	0.1	0.34	0.34	82	81	75-125	0	20	
Barium	mg/L	0.043	0.1	0.1	0.14	0.14	96	96	75-125	1	20	
Beryllium	mg/L	ND	0.1	0.1	0.092	0.092	92	92	75-125	1	20	
Boron	mg/L	0.77	0.1	0.1	0.88	0.87	103	94	75-125	1	20	
Cadmium	mg/L	ND	0.1	0.1	0.096	0.096	96	96	75-125	0	20	
Calcium	mg/L	115	1	1	117	117	195	232	75-125	0	20	M1
Chromium	mg/L	ND	0.1	0.1	0.098	0.098	98	98	75-125	0	20	
Cobalt	mg/L	0.019	0.1	0.1	0.10	0.10	84	83	75-125	1	20	
Iron	mg/L	11.3	1	1	12.3	12.0	100	67	75-125	3	20	M1
Lead	mg/L	ND	0.1	0.1	0.098	0.098	98	98	75-125	0	20	
Magnesium	mg/L	16.7	1	1	17.4	17.5	68	80	75-125	1	20	M1
Manganese	mg/L	2.8	0.1	0.1	2.9	2.9	106	117	75-125	0	20	
Molybdenum	mg/L	0.015	0.1	0.1	0.11	0.11	96	96	75-125	0	20	
Potassium	mg/L	5.5	1	1	6.6	6.5	106	100	75-125	1	20	
Selenium	mg/L	ND	0.1	0.1	0.081	0.081	81	81	75-125	0	20	
Sodium	mg/L	8.8	1	1	9.7	9.7	92	91	75-125	0	20	
Thallium	mg/L	ND	0.1	0.1	0.095	0.095	95	95	75-125	0	20	

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QUALIFIERS

Project: Hammond AP-1-CA-20250203
Pace Project No.: 92778486

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

J	Analyte detected below the reporting limit, therefore result is an estimate. This qualifier is also used for all TICs.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Hammond AP-1-CA-20250203
Pace Project No.: 92778486

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92778486001	**HAM-PT-07**	3015	2464154	EPA 6020B	2464154
92778486002	**HAM-PT-08**	3015	2464154	EPA 6020B	2464154
92778486003	**HAM-PT-09**	3015	2464154	EPA 6020B	2464154
92778486004	**HAM-PT-10**	3015	2464154	EPA 6020B	2464154
92778486005	**HAM-PT-11**	3015	2464154	EPA 6020B	2464154
92778486006	**HAM-PT-12**	3015	2464154	EPA 6020B	2464154
92778486007	**HAM-PT-13**	3015	2464154	EPA 6020B	2464154
92778486008	**HAM-PT-14**	3015	2464154	EPA 6020B	2464154
92778486009	**HAM-PT-15**	3015	2464154	EPA 6020B	2464154
92778486010	**HAM-AP1-EB-01**	3015	2464154	EPA 6020B	2464154
92778486011	**HAM-AP1-FB-01**	3015	2464154	EPA 6020B	2464154
92778486012	**HAM-AP1-FD-01**	3015	2464154	EPA 6020B	2464154
92778486001	**HAM-PT-07**	EPA 7470A	914889	EPA 7470A	915003
92778486002	**HAM-PT-08**	EPA 7470A	914889	EPA 7470A	915003
92778486003	**HAM-PT-09**	EPA 7470A	914889	EPA 7470A	915003
92778486004	**HAM-PT-10**	EPA 7470A	914889	EPA 7470A	915003
92778486005	**HAM-PT-11**	EPA 7470A	914889	EPA 7470A	915003
92778486006	**HAM-PT-12**	EPA 7470A	914889	EPA 7470A	915003
92778486007	**HAM-PT-13**	EPA 7470A	914889	EPA 7470A	915003
92778486008	**HAM-PT-14**	EPA 7470A	914889	EPA 7470A	915003
92778486009	**HAM-PT-15**	EPA 7470A	914889	EPA 7470A	915003
92778486010	**HAM-AP1-EB-01**	EPA 7470A	914965	EPA 7470A	915313
92778486011	**HAM-AP1-FB-01**	EPA 7470A	914965	EPA 7470A	915313
92778486012	**HAM-AP1-FD-01**	EPA 7470A	914965	EPA 7470A	915313
92778486001	**HAM-PT-07**	SM 2320B-2011	915023		
92778486002	**HAM-PT-08**	SM 2320B-2011	915023		
92778486003	**HAM-PT-09**	SM 2320B-2011	915650		
92778486004	**HAM-PT-10**	SM 2320B-2011	915650		
92778486005	**HAM-PT-11**	SM 2320B-2011	915650		
92778486006	**HAM-PT-12**	SM 2320B-2011	915650		
92778486007	**HAM-PT-13**	SM 2320B-2011	915023		
92778486008	**HAM-PT-14**	SM 2320B-2011	915023		
92778486009	**HAM-PT-15**	SM 2320B-2011	915023		
92778486010	**HAM-AP1-EB-01**	SM 2320B-2011	915650		
92778486011	**HAM-AP1-FB-01**	SM 2320B-2011	915650		
92778486012	**HAM-AP1-FD-01**	SM 2320B-2011	915650		
92778486001	**HAM-PT-07**	SM 2540C-2015	914807		
92778486002	**HAM-PT-08**	SM 2540C-2015	914807		
92778486003	**HAM-PT-09**	SM 2540C-2015	915152		
92778486004	**HAM-PT-10**	SM 2540C-2015	915152		
92778486005	**HAM-PT-11**	SM 2540C-2015	915152		
92778486006	**HAM-PT-12**	SM 2540C-2015	915152		
92778486007	**HAM-PT-13**	SM 2540C-2015	914807		
92778486008	**HAM-PT-14**	SM 2540C-2015	914807		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Hammond AP-1-CA-20250203
Pace Project No.: 92778486

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92778486009	**HAM-PT-15**	SM 2540C-2015	914807		
92778486010	**HAM-AP1-EB-01**	SM 2540C-2015	915152		
92778486011	**HAM-AP1-FB-01**	SM 2540C-2015	915152		
92778486012	**HAM-AP1-FD-01**	SM 2540C-2015	915152		
92778486001	**HAM-PT-07**	SM 4500-S2D-2011	914751		
92778486002	**HAM-PT-08**	SM 4500-S2D-2011	914751		
92778486003	**HAM-PT-09**	SM 4500-S2D-2011	914753		
92778486004	**HAM-PT-10**	SM 4500-S2D-2011	914753		
92778486005	**HAM-PT-11**	SM 4500-S2D-2011	914753		
92778486006	**HAM-PT-12**	SM 4500-S2D-2011	914753		
92778486007	**HAM-PT-13**	SM 4500-S2D-2011	914751		
92778486008	**HAM-PT-14**	SM 4500-S2D-2011	914751		
92778486009	**HAM-PT-15**	SM 4500-S2D-2011	914753		
92778486010	**HAM-AP1-EB-01**	SM 4500-S2D-2011	914753		
92778486011	**HAM-AP1-FB-01**	SM 4500-S2D-2011	914753		
92778486012	**HAM-AP1-FD-01**	SM 4500-S2D-2011	914753		
92778486001	**HAM-PT-07**	EPA 300.0 Rev 2.1 1993	914792		
92778486002	**HAM-PT-08**	EPA 300.0 Rev 2.1 1993	914829		
92778486003	**HAM-PT-09**	EPA 300.0 Rev 2.1 1993	914829		
92778486004	**HAM-PT-10**	EPA 300.0 Rev 2.1 1993	914829		
92778486005	**HAM-PT-11**	EPA 300.0 Rev 2.1 1993	914829		
92778486006	**HAM-PT-12**	EPA 300.0 Rev 2.1 1993	914829		
92778486007	**HAM-PT-13**	EPA 300.0 Rev 2.1 1993	914829		
92778486008	**HAM-PT-14**	EPA 300.0 Rev 2.1 1993	914829		
92778486009	**HAM-PT-15**	EPA 300.0 Rev 2.1 1993	914829		
92778486010	**HAM-AP1-EB-01**	EPA 300.0 Rev 2.1 1993	914829		
92778486011	**HAM-AP1-FB-01**	EPA 300.0 Rev 2.1 1993	914829		
92778486012	**HAM-AP1-FD-01**	EPA 300.0 Rev 2.1 1993	914829		
92778486001	**HAM-PT-07**	EPA 3005A	923197	EPA 6020B	923913
92778486002	**HAM-PT-08**	EPA 3005A	923197	EPA 6020B	923913
92778486003	**HAM-PT-09**	EPA 3005A	923197	EPA 6020B	923913
92778486004	**HAM-PT-10**	EPA 3005A	923197	EPA 6020B	923913
92778486005	**HAM-PT-11**	EPA 3005A	923197	EPA 6020B	923913
92778486006	**HAM-PT-12**	EPA 3005A	923197	EPA 6020B	923913
92778486007	**HAM-PT-13**	EPA 3005A	923197	EPA 6020B	923913
92778486008	**HAM-PT-14**	EPA 3005A	923197	EPA 6020B	923913
92778486009	**HAM-PT-15**	EPA 3005A	923197	EPA 6020B	923913
92778486010	**HAM-AP1-EB-01**	EPA 3005A	923197	EPA 6020B	923913
92778486011	**HAM-AP1-FB-01**	EPA 3005A	923197	EPA 6020B	923913
92778486012	**HAM-AP1-FD-01**	EPA 3005A	923197	EPA 6020B	923913

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Pace

Effective Date: 05/24/2024

oratory receiving samples:
heville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

WO# : 92778486

92778486

Sample Condition Upon Receipt

Client Name: GA Power

Project #

irier: Commercial ☐Fed Ex ☐UPS ☐USPS ☐Client ☑Pace ☐Other:

tody Seal Present? ☑Yes ☐No Seals Intact? ☑Yes ☐No ☐N/A

Date/Initials Person Examining Contents: 2/7/25 KA

king Material: ☑Bubble Wrap ☐Bubble Bags ☐None ☐ Other

Biological Tissue Frozen? ☐Yes ☐No ☑N/A

ermometer: ☑IR Gun ID: 230

Type of Ice: ☑Wet ☐Blue ☐None

oler Temp: 3.1 Correction Factor: Add/Subtract (°C) +0.1

Temp should be above freezing to 6°C
☐Samples out of temp criteria. Samples on ice, cooling process has begun

oler Temp Corrected (°C): 3.2

DA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐Yes ☐No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐Yes ☐No

				Comments/Discrepancy:
Chain of Custody Present?	☑Yes	☐No	☐N/A	1.
Samples Arrived within Hold Time?	☑Yes	☐No	☐N/A	2.
Short Hold Time Analysis (<72 hr.)?	☑Yes	☐No	☐N/A	3.
Rush Turn Around Time Requested?	☐Yes	☑No	☐N/A	4.
Sufficient Volume?	☑Yes	☐No	☐N/A	5.
Correct Containers Used?	☑Yes	☐No	☐N/A	6.
-Pace Containers Used?	☑Yes	☐No	☐N/A	
Containers Intact?	☑Yes	☐No	☐N/A	7.
Dissolved analysis: Samples Field Filtered? 1/7/25	☑Yes	☐No	☐N/A	8.
Sample Labels Match COC? SM	☑Yes	☐No	☐N/A	9.
-Includes Date/Time/ID/Analysis Matrix: W				
Headspace in VOA Vials (>5-6mm)?	☐Yes	☐No	☐N/A	10.
Trip Blank Present?	☐Yes	☐No	☐N/A	11.
Trip Blank Custody Seals Present?	☐Yes	☐No	☐N/A	

Field Data Required? ☐Yes ☐No

MMENTS/SAMPLE DISCREPANCY

Lot ID of split containers:

NT NOTIFICATION/RESOLUTION

rson contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

altrax ID: 69614

WO# : 92778486

PM: BV Due Date: 02/24/25

CLIENT: 92- GP-HAM

Project #

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg
**Bottom half of box is to list number of bottles
***Check all unpreserved Nitrates for chlorine

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Client_____ Profile/EZ (Circle one)_____ Notes_____

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)		BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG9A-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG8U-40 mL Amber Unpreserved vials (N/A)
CC																													
1		2	1				2	1																					
2		2	1				2	1																					
3		2	1				2	1																					
4		2	1				2	1																					
5		2	1				2	1																					
6		2	1				2	1																					
7		2	1				2	1																					
8		2	1				2	1																					
9		2	1				2	1																					
10		2	1				2	1																					
11		2	1				2	1																					
12		3	1				2	1																					

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

Qualtrax ID: 69614

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately

Page: | of |

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: GA Power	Report To: SCS Contacts	Attention: Southern Co.
Address: Atlanta, GA	Copy To: Geosyntec Contacts	Company Name:
		Address:
Email To: SCS Contacts	Purchase Order No.: GPC82474-0001	Pace Quote Reference:
Phone: / Fax:	Project Name: Hammond AP-1	Pace Project Manager: Bonnie Vang
Requested Due Date/TAT: 10 Day	Project Number:	Pace Profile #: 16483

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☑ OTHER CCR

Site Location STATE: GA

Requested Analysis Filtered (Y/N)

Section D Required Client Information

Valid Matrix Codes: DRINKING WATER DW; WATER WT; WASTE WATER WW; PRODUCT P; SOIL/SOLID SL; OIL OL; WIPE WP; AIR AR; OTHER OT; TISSUE TS

ITEM #	SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE DATE	COLLECTED COMPOSITE TIME	COLLECTED COMPOSITE DATE	COLLECTED COMPOSITE TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	Chloride, Fluoride, Sulfate	Full App III and IV metals	Major ions (Profile 10839-2)	TDS	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
																		Y/N	N	N	N	N		
1	HAM-PT-07	WG	G	2/4/2025	1156			19	6	3		2					1		X	X	X	X	N	
2	HAM-PT-08	WG	G	2/4/2025	1339			19	6	3		2					1		X	X	X	X	N	
3	HAM-PT-09	WG	G	2/5/2025	1121			19	6	3		2					1		X	X	X	X	N	
4	HAM-PT-10	WG	G	2/5/2025	1000			18	6	3		2					1		X	X	X	X	N	
5	HAM-PT-11	WG	G	2/5/2025	1001			18	6	3		2					1		X	X	X	X	N	
6	HAM-PT-12	WG	G	2/5/2025	1141			19	6	3		2					1		X	X	X	X	N	
7	HAM-PT-13	WG	G	2/4/2025	1005			18	6	3		2					1		X	X	X	X	N	
8	HAM-PT-14	WG	G	2/4/2025	1008			18	6	3		2					1		X	X	X	X	N	
9	HAM-PT-15	WG	G	2/4/2025	1455			20	6	3		2					1		X	X	X	X	N	
10	HAM-AP1-EB-01	WQ	G	2/5/2025	1230			19	6	3		2					1		X	X	X	X	N	
11	HAM-AP1-FB-01	WQ	G	2/5/2025	1220			19	6	3		2					1		X	X	X	X	N	
12	HAM-AP1-FD-01	WG	G	2/4/2025	0000			19	6	3		2					1		X	X	X	X	N	

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Task Code: HAM-CCR-CA-20250203	Zain Webb / Geosyntec	2/7/25	0800	Thomas Mesh / Pace	2/7/2025	0800	
	Thomas Mesh / Pace	2/7/2025	0845	Ryan Williams / Pace	2/7/2025	0845	
	Ryan Williams / Pace	2/7/2025	1535		2/7/25	1535	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Zain Webb, Tristan Halterman / Geosyntec Consultants, Inc.

SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY): 2/6/25

Temp in °C	Received on ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-Feb-2007

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

April 23, 2025

Kristen Jurinko
Southern Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, GA 30308

RE: Project: Hammond AP-1
Pace Project No.: 92789136

Dear Kristen Jurinko:

Enclosed are the analytical results for sample(s) received by the laboratory on April 04, 2025. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace National - Mt. Juliet
- Pace Analytical Services - Asheville
- Pace Analytical Services - West Columbia

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Bonnie Vang

Bonnie Vang
bonnie.vang@pacelabs.com
704-977-0968
Project Manager

Enclosures

cc: Kip Gray, Geosyntec
Christine Hug, Geosyntec Consultants, Inc.
Thomas Kessler, Geosyntec Consultants
Whitney Law, Geosyntec Consultants
Laura Midkiff, Southern Company
Caroline Nelson, Geosyntec Consultants, Inc
Jamie Newsome, Geosyntec Consultants
Zain Webb, Geosyntec Consultants

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: Hammond AP-1
Pace Project No.: 92789136

Pace Analytical Services National
12065 Lebanon Road, Mt. Juliet, TN 37122
Alabama Certification #: 40660
Alaska Certification 17-026
Arizona Certification #: AZ0612
Arkansas Certification #: 88-0469
California Certification #: 2932
Canada Certification #: 1461.01
Colorado Certification #: TN00003
Connecticut Certification #: PH-0197
DOD Certification: #1461.01
EPA# TN00003
Florida Certification #: E87487
Georgia DW Certification #: 923
Georgia Certification: NELAP
Idaho Certification #: TN00003
Illinois Certification #: 200008
Indiana Certification #: C-TN-01
Iowa Certification #: 364
Kansas Certification #: E-10277
Kentucky UST Certification #: 16
Kentucky Certification #: 90010
Louisiana Certification #: AI30792
Louisiana DW Certification #: LA180010
Maine Certification #: TN0002
Maryland Certification #: 324
Massachusetts Certification #: M-TN003
Michigan Certification #: 9958
Minnesota Certification #: 047-999-395
Mississippi Certification #: TN00003
Missouri Certification #: 340
Montana Certification #: CERT0086
Nebraska Certification #: NE-OS-15-05
Nevada Certification #: TN-03-2002-34
New Hampshire Certification #: 2975
New Jersey Certification #: TN002
New Mexico DW Certification
New York Certification #: 11742
North Carolina Aquatic Toxicity Certification #: 41
North Carolina Drinking Water Certification #: 21704
North Carolina Environmental Certificate #: 375
North Dakota Certification #: R-140
Ohio VAP Certification #: CL0069
Oklahoma Certification #: 9915
Oregon Certification #: TN200002
Pennsylvania Certification #: 68-02979
Rhode Island Certification #: LAO00356
South Carolina Certification #: 84004
South Dakota Certification
Tennessee DW/Chem/Micro Certification #: 2006
Texas Mold Certification #: LAB0152
Texas Certification #: T 104704245-17-14
USDA Soil Permit #: P330-15-00234
Utah Certification #: TN00003
Virginia Certification #: VT2006
Vermont Dept. of Health: ID# VT-2006
Virginia Certification #: 460132
Washington Certification #: C847
West Virginia Certification #: 233
Wisconsin Certification #: 998093910
Wyoming UST Certification #: via A2LA 2926.01
A2LA-ISO 17025 Certification #: 1461.01
A2LA-ISO 17025 Certification #: 1461.02
AIHA-LAP/LLC EMLAP Certification #:100789

Pace Analytical Services Asheville
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Laboratory ID: 99030
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services West Columbia
106 Vantage Point Drive, West Columbia, SC 29172
Alaska Dept. of Energy Conservation, Cert# 20-002
California ELAP, cert# 3049
DoD, DoD QSM V5.4, cert# I.2224
DOE, DoD/DOE QSM V5.4, cert# I.2224.01
Florida, Dept. of Health, cert# E87653-70
Georgia, Env. Protection Division, cert# E87653
Illinois, EPA NELAP, cert# 2000552024-9
Kansas, Dept. of Health and Environment, cert# E-10417
Kentucky, Dept. for Env. Protection, UST, cert# 103582
Kentucky, Dept. for Env. Protection, cert# 98037
Louisiana, Dept. of Environmental Quality, cert# 5125
North Carolina, DEQ, Water Resources, cert# 329
New Jersey, Dept. of Env. Protection, cert# NLC 240005
Oklahoma, Dept. of Env. Quality, cert# 2023-175
Oregon, ELAP, cert# 4181-006
Pennsylvania, Dept. of Env. Protection, cert# 003
South Carolina, Dept. of Env. Services, cert# 32010001
Texas, Commission on Env. Quality, cert# TX-C24-00083
Virginia, Dept. of General Services, cert# 13080
Wisconsin, Dept. of Natural Resources, cert# 399136100

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE SUMMARY

Project: Hammond AP-1
Pace Project No.: 92789136

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92789136001	**HAM-PT-07**	Water	04/03/25 09:20	04/04/25 14:25
92789136002	**HAM-PT-08**	Water	04/02/25 16:52	04/04/25 14:25
92789136003	**HAM-PT-09**	Water	04/03/25 13:57	04/04/25 14:25
92789136004	**HAM-PT-10**	Water	04/03/25 12:39	04/04/25 14:25
92789136005	**HAM-PT-11**	Water	04/03/25 12:30	04/04/25 14:25
92789136006	**HAM-PT-12**	Water	04/03/25 14:23	04/04/25 14:25
92789136007	**HAM-PT-13**	Water	04/02/25 17:18	04/04/25 14:25
92789136008	**HAM-PT-14**	Water	04/02/25 13:49	04/04/25 14:25
92789136009	**HAM-PT-15**	Water	04/02/25 13:04	04/04/25 14:25
92789136010	**HAM-AP1-EB-01**	Water	04/02/25 18:00	04/04/25 14:25
92789136011	**HAM-AP1-FB-01**	Water	04/02/25 17:50	04/04/25 14:25
92789136012	**HAM-AP1-FD-01**	Water	04/02/25 00:00	04/04/25 14:25

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Huntersville, NC 28078
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SAMPLE ANALYTE COUNT

Project: Hammond AP-1
Pace Project No.: 92789136

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92789136001	**HAM-PT-07**	EPA 6020B	SJM	1	PAN
		SM 2320B-2011	SMS	3	PASI-A
		SM 2540C-2015	CDM	1	PASI-A
		SM 4500-S2D-2011	JP1	1	PASI-A
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6020B	BW	18	PASI-WC
		EPA 7470A	KJW	1	PASI-WC
92789136002	**HAM-PT-08**	EPA 6020B	SJM	1	PAN
		SM 2320B-2011	SMS	3	PASI-A
		SM 2540C-2015	YEG	1	PASI-A
		SM 4500-S2D-2011	JP1	1	PASI-A
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6020B	BW	18	PASI-WC
		EPA 7470A	KJW	1	PASI-WC
92789136003	**HAM-PT-09**	EPA 6020B	SJM	1	PAN
		SM 2320B-2011	SMS	3	PASI-A
		SM 2540C-2015	CDM	1	PASI-A
		SM 4500-S2D-2011	JP1	1	PASI-A
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6020B	BW	18	PASI-WC
		EPA 7470A	KJW	1	PASI-WC
92789136004	**HAM-PT-10**	EPA 6020B	SJM	1	PAN
		SM 2320B-2011	SMS	3	PASI-A
		SM 2540C-2015	CDM	1	PASI-A
		SM 4500-S2D-2011	JP1	1	PASI-A
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6020B	BW	18	PASI-WC
		EPA 7470A	KJW	1	PASI-WC
92789136005	**HAM-PT-11**	EPA 6020B	SJM	1	PAN
		SM 2320B-2011	SMS	3	PASI-A
		SM 2540C-2015	CDM	1	PASI-A
		SM 4500-S2D-2011	JP1	1	PASI-A
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6020B	BW	18	PASI-WC
		EPA 7470A	KJW	1	PASI-WC
92789136006	**HAM-PT-12**	EPA 6020B	SJM	1	PAN
		SM 2320B-2011	SMS	3	PASI-A

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SAMPLE ANALYTE COUNT

Project: Hammond AP-1
Pace Project No.: 92789136

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 2540C-2015	NSS	1	PASI-A
		SM 4500-S2D-2011	JP1	1	PASI-A
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6020B	BW	18	PASI-WC
		EPA 7470A	KJW	1	PASI-WC
92789136007	**HAM-PT-13**	EPA 6020B	SJM	1	PAN
		SM 2320B-2011	SMS	3	PASI-A
		SM 2540C-2015	YEG	1	PASI-A
		SM 4500-S2D-2011	JP1	1	PASI-A
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6020B	BW	18	PASI-WC
		EPA 7470A	KJW	1	PASI-WC
92789136008	**HAM-PT-14**	EPA 6020B	SJM	1	PAN
		SM 2320B-2011	SMS	3	PASI-A
		SM 2540C-2015	YEG	1	PASI-A
		SM 4500-S2D-2011	JP1	1	PASI-A
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6020B	BW	18	PASI-WC
		EPA 7470A	KJW	1	PASI-WC
92789136009	**HAM-PT-15**	EPA 6020B	SJM	1	PAN
		SM 2320B-2011	SMS	3	PASI-A
		SM 2540C-2015	YEG	1	PASI-A
		SM 4500-S2D-2011	JP1	1	PASI-A
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6020B	BW	18	PASI-WC
		EPA 7470A	KJW	1	PASI-WC
92789136010	**HAM-AP1-EB-01**	EPA 6020B	SJM	1	PAN
		SM 2320B-2011	SMS	3	PASI-A
		SM 2540C-2015	YEG	1	PASI-A
		SM 4500-S2D-2011	JP1	1	PASI-A
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6020B	BW	18	PASI-WC
		EPA 7470A	KJW	1	PASI-WC
92789136011	**HAM-AP1-FB-01**	EPA 6020B	SJM	1	PAN
		SM 2320B-2011	SMS	3	PASI-A
		SM 2540C-2015	YEG	1	PASI-A
		SM 4500-S2D-2011	JP1	1	PASI-A

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: Hammond AP-1
Pace Project No.: 92789136

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6020B	BW	18	PASI-WC
		EPA 7470A	KJW	1	PASI-WC
92789136012	**HAM-AP1-FD-01**	EPA 6020B	SJM	1	PAN
		SM 2320B-2011	SMS	3	PASI-A
		SM 2540C-2015	YEG	1	PASI-A
		SM 4500-S2D-2011	JP1	1	PASI-A
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6020B	BW	18	PASI-WC
		EPA 7470A	KJW	1	PASI-WC

PAN = Pace National - Mt. Juliet
PASI-A = Pace Analytical Services - Asheville
PASI-WC = Pace Analytical Services - West Columbia

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SUMMARY OF DETECTION

Project: Hammond AP-1
Pace Project No.: 92789136

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92789136001	**HAM-PT-07**					
EPA 6020B	Lithium	0.0408	mg/L	0.0300	04/15/25 12:00	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	169	mg/L	5.0	04/08/25 19:19	
SM 2320B-2011	Alkalinity, Total as CaCO3	169	mg/L	5.0	04/08/25 19:19	
SM 2540C-2015	Total Dissolved Solids	512	mg/L	25.0	04/09/25 14:47	
EPA 300.0 Rev 2.1 1993	Chloride	16.6	mg/L	1.0	04/05/25 15:56	
EPA 300.0 Rev 2.1 1993	Fluoride	0.34	mg/L	0.10	04/05/25 15:56	
EPA 300.0 Rev 2.1 1993	Sulfate	159	mg/L	4.0	04/06/25 03:22	
EPA 6020B	Arsenic	0.23	mg/L	0.0050	04/14/25 19:34	
EPA 6020B	Barium	0.044	mg/L	0.0050	04/14/25 19:34	
EPA 6020B	Boron	0.80	mg/L	0.40	04/15/25 15:15	
EPA 6020B	Calcium	116	mg/L	10.0	04/15/25 15:15	
EPA 6020B	Cobalt	0.034	mg/L	0.0050	04/14/25 19:34	
EPA 6020B	Iron	7.6	mg/L	0.040	04/14/25 19:34	
EPA 6020B	Magnesium	14.4	mg/L	0.050	04/14/25 19:34	
EPA 6020B	Manganese	3.0	mg/L	1.0	04/21/25 15:38	
EPA 6020B	Molybdenum	0.011	mg/L	0.010	04/14/25 19:34	
EPA 6020B	Potassium	5.4	mg/L	0.50	04/14/25 19:34	
EPA 6020B	Sodium	7.6	mg/L	1.0	04/14/25 19:34	
EPA 6020B	Thallium	0.00028J	mg/L	0.0010	04/14/25 19:34	
92789136002	**HAM-PT-08**					
EPA 6020B	Lithium	0.0129J	mg/L	0.0300	04/15/25 12:03	J
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	124	mg/L	5.0	04/08/25 16:26	
SM 2320B-2011	Alkalinity, Total as CaCO3	124	mg/L	5.0	04/08/25 16:26	
SM 2540C-2015	Total Dissolved Solids	491	mg/L	25.0	04/08/25 11:57	
EPA 300.0 Rev 2.1 1993	Chloride	18.8	mg/L	1.0	04/05/25 16:09	
EPA 300.0 Rev 2.1 1993	Fluoride	0.19	mg/L	0.10	04/05/25 16:09	
EPA 300.0 Rev 2.1 1993	Sulfate	175	mg/L	4.0	04/06/25 03:36	
EPA 6020B	Arsenic	0.027	mg/L	0.0050	04/14/25 19:44	
EPA 6020B	Barium	0.045	mg/L	0.0050	04/14/25 19:44	
EPA 6020B	Boron	1.0	mg/L	0.40	04/15/25 15:24	
EPA 6020B	Calcium	119	mg/L	10.0	04/15/25 15:24	
EPA 6020B	Cobalt	0.024	mg/L	0.0050	04/14/25 19:44	
EPA 6020B	Iron	0.37	mg/L	0.040	04/14/25 19:44	
EPA 6020B	Magnesium	12.5	mg/L	0.050	04/14/25 19:44	
EPA 6020B	Manganese	2.0	mg/L	0.40	04/15/25 15:24	
EPA 6020B	Molybdenum	0.012	mg/L	0.010	04/14/25 19:44	
EPA 6020B	Potassium	4.9	mg/L	0.50	04/14/25 19:44	
EPA 6020B	Sodium	6.3	mg/L	1.0	04/14/25 19:44	
EPA 6020B	Thallium	0.00025J	mg/L	0.0010	04/14/25 19:44	
92789136003	**HAM-PT-09**					
EPA 6020B	Lithium	0.00124J	mg/L	0.0300	04/15/25 12:40	J
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	126	mg/L	5.0	04/08/25 19:38	
SM 2320B-2011	Alkalinity, Total as CaCO3	126	mg/L	5.0	04/08/25 19:38	
SM 2540C-2015	Total Dissolved Solids	516	mg/L	25.0	04/09/25 14:47	
EPA 300.0 Rev 2.1 1993	Chloride	56.9	mg/L	1.0	04/05/25 16:22	
EPA 300.0 Rev 2.1 1993	Fluoride	0.30	mg/L	0.10	04/05/25 16:22	

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SUMMARY OF DETECTION

Project: Hammond AP-1
Pace Project No.: 92789136

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92789136003	**HAM-PT-09**					
EPA 300.0 Rev 2.1 1993	Sulfate	122	mg/L	3.0	04/06/25 03:51	
EPA 6020B	Barium	0.064	mg/L	0.0050	04/14/25 19:53	
EPA 6020B	Boron	1.8	mg/L	0.40	04/15/25 15:33	
EPA 6020B	Calcium	102	mg/L	10.0	04/15/25 15:33	
EPA 6020B	Cobalt	0.0015J	mg/L	0.0050	04/14/25 19:53	
EPA 6020B	Iron	0.061	mg/L	0.040	04/14/25 19:53	
EPA 6020B	Magnesium	17.1	mg/L	0.050	04/14/25 19:53	
EPA 6020B	Manganese	0.36J	mg/L	0.40	04/15/25 15:33	
EPA 6020B	Molybdenum	0.16	mg/L	0.010	04/14/25 19:53	
EPA 6020B	Potassium	6.3	mg/L	0.50	04/14/25 19:53	
EPA 6020B	Sodium	12.1	mg/L	1.0	04/14/25 19:53	
EPA 6020B	Thallium	0.00017J	mg/L	0.0010	04/14/25 19:53	
92789136004	**HAM-PT-10**					
EPA 6020B	Lithium	0.00160J	mg/L	0.0300	04/15/25 12:44	J
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	134	mg/L	5.0	04/08/25 19:47	
SM 2320B-2011	Alkalinity, Total as CaCO3	134	mg/L	5.0	04/08/25 19:47	
SM 2540C-2015	Total Dissolved Solids	532	mg/L	25.0	04/09/25 14:47	
EPA 300.0 Rev 2.1 1993	Chloride	54.3	mg/L	1.0	04/05/25 16:34	
EPA 300.0 Rev 2.1 1993	Fluoride	0.15	mg/L	0.10	04/05/25 16:34	
EPA 300.0 Rev 2.1 1993	Sulfate	138	mg/L	3.0	04/06/25 04:05	
EPA 6020B	Barium	0.056	mg/L	0.0050	04/14/25 20:02	
EPA 6020B	Boron	1.7	mg/L	0.40	04/15/25 15:43	
EPA 6020B	Calcium	124	mg/L	10.0	04/15/25 15:43	
EPA 6020B	Iron	0.18	mg/L	0.040	04/14/25 20:02	
EPA 6020B	Magnesium	12.3	mg/L	0.050	04/14/25 20:02	
EPA 6020B	Manganese	0.71	mg/L	0.40	04/15/25 15:43	
EPA 6020B	Molybdenum	0.040	mg/L	0.010	04/14/25 20:02	
EPA 6020B	Potassium	6.8	mg/L	0.50	04/14/25 20:02	
EPA 6020B	Sodium	9.1	mg/L	1.0	04/14/25 20:02	
92789136005	**HAM-PT-11**					
EPA 6020B	Lithium	0.00125J	mg/L	0.0300	04/15/25 12:47	J
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	121	mg/L	5.0	04/08/25 19:56	
SM 2320B-2011	Alkalinity, Total as CaCO3	121	mg/L	5.0	04/08/25 19:56	
SM 2540C-2015	Total Dissolved Solids	460	mg/L	25.0	04/09/25 14:47	
EPA 300.0 Rev 2.1 1993	Chloride	39.0	mg/L	1.0	04/05/25 16:47	
EPA 300.0 Rev 2.1 1993	Fluoride	0.28	mg/L	0.10	04/05/25 16:47	
EPA 300.0 Rev 2.1 1993	Sulfate	105	mg/L	4.0	04/06/25 04:19	M1
EPA 6020B	Barium	0.063	mg/L	0.0050	04/14/25 20:11	
EPA 6020B	Boron	1.5	mg/L	0.40	04/15/25 16:11	
EPA 6020B	Calcium	97.3	mg/L	10.0	04/15/25 16:11	
EPA 6020B	Cobalt	0.0014J	mg/L	0.0050	04/14/25 20:11	
EPA 6020B	Iron	0.48	mg/L	0.040	04/14/25 20:11	
EPA 6020B	Magnesium	15.0	mg/L	0.050	04/14/25 20:11	
EPA 6020B	Manganese	0.35J	mg/L	0.40	04/15/25 16:11	
EPA 6020B	Molybdenum	0.12	mg/L	0.010	04/14/25 20:11	
EPA 6020B	Potassium	5.9	mg/L	0.50	04/14/25 20:11	

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SUMMARY OF DETECTION

Project: Hammond AP-1
Pace Project No.: 92789136

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92789136005	**HAM-PT-11**					
EPA 6020B	Sodium	8.3	mg/L	1.0	04/14/25 20:11	
92789136006	**HAM-PT-12**					
EPA 6020B	Lithium	0.00110J	mg/L	0.0300	04/15/25 12:50	J
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	115	mg/L	5.0	04/08/25 20:05	
SM 2320B-2011	Alkalinity, Total as CaCO3	115	mg/L	5.0	04/08/25 20:05	
SM 2540C-2015	Total Dissolved Solids	431	mg/L	25.0	04/10/25 06:13	
EPA 300.0 Rev 2.1 1993	Chloride	52.4	mg/L	1.0	04/05/25 17:26	
EPA 300.0 Rev 2.1 1993	Fluoride	0.22	mg/L	0.10	04/05/25 17:26	
EPA 300.0 Rev 2.1 1993	Sulfate	115	mg/L	3.0	04/06/25 05:28	
EPA 6020B	Barium	0.054	mg/L	0.0050	04/14/25 20:20	
EPA 6020B	Boron	1.7	mg/L	0.40	04/15/25 16:21	
EPA 6020B	Cadmium	0.00013J	mg/L	0.00050	04/14/25 20:20	
EPA 6020B	Calcium	100	mg/L	10.0	04/15/25 16:21	
EPA 6020B	Cobalt	0.0017J	mg/L	0.0050	04/14/25 20:20	
EPA 6020B	Iron	0.26	mg/L	0.040	04/14/25 20:20	
EPA 6020B	Magnesium	14.9	mg/L	0.050	04/14/25 20:20	
EPA 6020B	Manganese	0.41	mg/L	0.40	04/15/25 16:21	
EPA 6020B	Molybdenum	0.11	mg/L	0.010	04/14/25 20:20	
EPA 6020B	Potassium	6.0	mg/L	0.50	04/14/25 20:20	
EPA 6020B	Sodium	10.2	mg/L	1.0	04/14/25 20:20	
EPA 6020B	Thallium	0.00016J	mg/L	0.0010	04/14/25 20:20	
92789136007	**HAM-PT-13**					
EPA 6020B	Lithium	0.0423	mg/L	0.0300	04/15/25 12:53	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	166	mg/L	5.0	04/08/25 16:35	
SM 2320B-2011	Alkalinity, Total as CaCO3	166	mg/L	5.0	04/08/25 16:35	
SM 2540C-2015	Total Dissolved Solids	517	mg/L	25.0	04/08/25 11:57	
EPA 300.0 Rev 2.1 1993	Chloride	18.5	mg/L	1.0	04/05/25 17:39	
EPA 300.0 Rev 2.1 1993	Fluoride	0.36	mg/L	0.10	04/05/25 17:39	
EPA 300.0 Rev 2.1 1993	Sulfate	166	mg/L	4.0	04/06/25 05:42	
EPA 6020B	Arsenic	0.17	mg/L	0.0050	04/10/25 16:16	
EPA 6020B	Barium	0.047	mg/L	0.0050	04/10/25 16:16	
EPA 6020B	Boron	0.84	mg/L	0.20	04/11/25 14:50	
EPA 6020B	Calcium	127	mg/L	50.0	04/11/25 12:45	
EPA 6020B	Cobalt	0.018	mg/L	0.0050	04/10/25 16:16	
EPA 6020B	Iron	5.8	mg/L	0.040	04/10/25 16:16	
EPA 6020B	Magnesium	15.1	mg/L	0.050	04/10/25 16:16	
EPA 6020B	Manganese	3.2	mg/L	2.0	04/11/25 12:45	
EPA 6020B	Molybdenum	0.0079J	mg/L	0.010	04/10/25 16:16	
EPA 6020B	Potassium	5.8	mg/L	0.50	04/10/25 16:16	
EPA 6020B	Sodium	8.2	mg/L	1.0	04/10/25 16:16	
EPA 6020B	Thallium	0.00036J	mg/L	0.0010	04/10/25 16:16	
92789136008	**HAM-PT-14**					
EPA 6020B	Lithium	0.0470	mg/L	0.0300	04/15/25 12:56	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	163	mg/L	5.0	04/08/25 16:46	
SM 2320B-2011	Alkalinity, Total as CaCO3	163	mg/L	5.0	04/08/25 16:46	
SM 2540C-2015	Total Dissolved Solids	515	mg/L	25.0	04/08/25 11:57	

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SUMMARY OF DETECTION

Project: Hammond AP-1
Pace Project No.: 92789136

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92789136008	**HAM-PT-14**					
EPA 300.0 Rev 2.1 1993	Chloride	15.8	mg/L	1.0	04/05/25 17:52	
EPA 300.0 Rev 2.1 1993	Fluoride	0.32	mg/L	0.10	04/05/25 17:52	
EPA 300.0 Rev 2.1 1993	Sulfate	165	mg/L	4.0	04/06/25 05:56	
EPA 6020B	Arsenic	0.42	mg/L	0.25	04/11/25 12:49	
EPA 6020B	Barium	0.042	mg/L	0.0050	04/10/25 16:25	
EPA 6020B	Boron	0.81	mg/L	0.20	04/11/25 14:59	
EPA 6020B	Calcium	111	mg/L	50.0	04/11/25 12:49	
EPA 6020B	Cobalt	0.022	mg/L	0.0050	04/10/25 16:25	
EPA 6020B	Iron	10.7	mg/L	0.040	04/10/25 16:25	
EPA 6020B	Magnesium	14.8	mg/L	0.050	04/10/25 16:25	
EPA 6020B	Manganese	3.3	mg/L	2.0	04/11/25 12:49	
EPA 6020B	Molybdenum	0.010	mg/L	0.010	04/10/25 16:25	
EPA 6020B	Potassium	5.7	mg/L	0.50	04/10/25 16:25	
EPA 6020B	Sodium	7.3	mg/L	1.0	04/10/25 16:25	
EPA 6020B	Thallium	0.00019J	mg/L	0.0010	04/10/25 16:25	
92789136009	**HAM-PT-15**					
EPA 6020B	Lithium	0.0355	mg/L	0.0300	04/15/25 13:00	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	157	mg/L	5.0	04/08/25 16:57	
SM 2320B-2011	Alkalinity, Total as CaCO3	157	mg/L	5.0	04/08/25 16:57	
SM 2540C-2015	Total Dissolved Solids	511	mg/L	25.0	04/08/25 11:57	
EPA 300.0 Rev 2.1 1993	Chloride	16.9	mg/L	1.0	04/05/25 18:31	
EPA 300.0 Rev 2.1 1993	Fluoride	0.32	mg/L	0.10	04/05/25 18:31	
EPA 300.0 Rev 2.1 1993	Sulfate	170	mg/L	4.0	04/06/25 06:10	
EPA 6020B	Arsenic	0.088	mg/L	0.0050	04/10/25 16:33	
EPA 6020B	Barium	0.051	mg/L	0.0050	04/10/25 16:33	
EPA 6020B	Boron	0.87	mg/L	0.20	04/11/25 15:07	
EPA 6020B	Cadmium	0.00032J	mg/L	0.00050	04/10/25 16:33	
EPA 6020B	Calcium	122	mg/L	50.0	04/11/25 12:53	
EPA 6020B	Cobalt	0.028	mg/L	0.0050	04/10/25 16:33	
EPA 6020B	Iron	1.1	mg/L	0.040	04/10/25 16:33	
EPA 6020B	Magnesium	13.3	mg/L	0.050	04/10/25 16:33	
EPA 6020B	Manganese	4.1	mg/L	2.0	04/11/25 12:53	
EPA 6020B	Molybdenum	0.012	mg/L	0.010	04/10/25 16:33	
EPA 6020B	Potassium	5.5	mg/L	0.50	04/10/25 16:33	
EPA 6020B	Sodium	7.0	mg/L	1.0	04/10/25 16:33	
EPA 6020B	Thallium	0.00062J	mg/L	0.0010	04/10/25 16:33	
92789136011	**HAM-AP1-FB-01**					
EPA 6020B	Iron	0.026J	mg/L	0.040	04/10/25 16:50	
EPA 6020B	Magnesium	0.042J	mg/L	0.050	04/10/25 16:50	
EPA 6020B	Manganese	0.0066J	mg/L	0.040	04/10/25 16:50	
92789136012	**HAM-AP1-FD-01**					
EPA 6020B	Lithium	0.0479	mg/L	0.0300	04/15/25 13:09	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	162	mg/L	5.0	04/08/25 17:15	
SM 2320B-2011	Alkalinity, Total as CaCO3	162	mg/L	5.0	04/08/25 17:15	
SM 2540C-2015	Total Dissolved Solids	515	mg/L	25.0	04/08/25 11:57	
EPA 300.0 Rev 2.1 1993	Chloride	16.1	mg/L	1.0	04/05/25 19:10	

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SUMMARY OF DETECTION

Project: Hammond AP-1
Pace Project No.: 92789136

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92789136012	**HAM-AP1-FD-01**					
EPA 300.0 Rev 2.1 1993	Fluoride	0.34	mg/L	0.10	04/05/25 19:10	
EPA 300.0 Rev 2.1 1993	Sulfate	166	mg/L	4.0	04/06/25 06:24	
EPA 6020B	Arsenic	0.40	mg/L	0.25	04/11/25 12:57	
EPA 6020B	Barium	0.043	mg/L	0.0050	04/10/25 16:58	
EPA 6020B	Boron	0.79	mg/L	0.20	04/11/25 14:42	
EPA 6020B	Calcium	119	mg/L	50.0	04/11/25 12:57	
EPA 6020B	Cobalt	0.023	mg/L	0.0050	04/10/25 16:58	
EPA 6020B	Iron	10.9	mg/L	0.040	04/10/25 16:58	
EPA 6020B	Magnesium	15.0	mg/L	0.050	04/10/25 16:58	
EPA 6020B	Manganese	3.2	mg/L	2.0	04/11/25 12:57	
EPA 6020B	Molybdenum	0.010	mg/L	0.010	04/10/25 16:58	
EPA 6020B	Potassium	5.6	mg/L	0.50	04/10/25 16:58	
EPA 6020B	Sodium	7.4	mg/L	1.0	04/10/25 16:58	
EPA 6020B	Thallium	0.00017J	mg/L	0.0010	04/10/25 16:58	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92789136

Sample: HAM-PT-07 **Lab ID: 92789136001** Collected: 04/03/25 09:20 Received: 04/04/25 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.0408**	mg/L	0.0300	0.000600	1	04/15/25 08:24	04/15/25 12:00	7439-93-2	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**169**	mg/L	5.0	5.0	1		04/08/25 19:19		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		04/08/25 19:19		
Alkalinity, Total as CaCO3	**169**	mg/L	5.0	5.0	1		04/08/25 19:19		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**512**	mg/L	25.0	25.0	1		04/09/25 14:47		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		04/09/25 02:52	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**16.6**	mg/L	1.0	0.60	1		04/05/25 15:56	16887-00-6	
Fluoride	**0.34**	mg/L	0.10	0.050	1		04/05/25 15:56	16984-48-8	
Sulfate	**159**	mg/L	4.0	2.0	4		04/06/25 03:22	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	04/11/25 06:42	04/14/25 19:34	7440-36-0	
Arsenic	**0.23**	mg/L	0.0050	0.0012	1	04/11/25 06:42	04/14/25 19:34	7440-38-2	
Barium	**0.044**	mg/L	0.0050	0.0012	1	04/11/25 06:42	04/14/25 19:34	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	04/11/25 06:42	04/14/25 19:34	7440-41-7	
Boron	**0.80**	mg/L	0.40	0.062	10	04/11/25 06:42	04/15/25 15:15	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	04/11/25 06:42	04/14/25 19:34	7440-43-9	
Calcium	**116**	mg/L	10.0	1.0	10	04/11/25 06:42	04/15/25 15:15	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	04/11/25 06:42	04/14/25 19:34	7440-47-3	
Cobalt	**0.034**	mg/L	0.0050	0.0012	1	04/11/25 06:42	04/14/25 19:34	7440-48-4	
Iron	**7.6**	mg/L	0.040	0.012	1	04/11/25 06:42	04/14/25 19:34	7439-89-6	
Lead	ND	mg/L	0.0010	0.00025	1	04/11/25 06:42	04/14/25 19:34	7439-92-1	
Magnesium	**14.4**	mg/L	0.050	0.010	1	04/11/25 06:42	04/14/25 19:34	7439-95-4	
Manganese	**3.0**	mg/L	1.0	0.031	25	04/11/25 06:42	04/21/25 15:38	7439-96-5	
Molybdenum	**0.011**	mg/L	0.010	0.0025	1	04/11/25 06:42	04/14/25 19:34	7439-98-7	
Potassium	**5.4**	mg/L	0.50	0.10	1	04/11/25 06:42	04/14/25 19:34	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	04/11/25 06:42	04/14/25 19:34	7782-49-2	
Sodium	**7.6**	mg/L	1.0	0.15	1	04/11/25 06:42	04/14/25 19:34	7440-23-5	
Thallium	**0.00028J**	mg/L	0.0010	0.00015	1	04/11/25 06:42	04/14/25 19:34	7440-28-0	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92789136

Sample: HAM-PT-07 **Lab ID: 92789136001** Collected: 04/03/25 09:20 Received: 04/04/25 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WCOL 7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - West Columbia								
Mercury	ND	mg/L	0.00020	0.000091	1	04/10/25 19:12	04/21/25 21:08	7439-97-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92789136

Sample: HAM-PT-08 **Lab ID: 92789136002** Collected: 04/02/25 16:52 Received: 04/04/25 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.0129J**	mg/L	0.0300	0.000600	1	04/15/25 08:24	04/15/25 12:03	7439-93-2	J
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**124**	mg/L	5.0	5.0	1		04/08/25 16:26		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		04/08/25 16:26		
Alkalinity, Total as CaCO3	**124**	mg/L	5.0	5.0	1		04/08/25 16:26		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**491**	mg/L	25.0	25.0	1		04/08/25 11:57		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		04/09/25 02:47	18496-25-8	M1
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**18.8**	mg/L	1.0	0.60	1		04/05/25 16:09	16887-00-6	
Fluoride	**0.19**	mg/L	0.10	0.050	1		04/05/25 16:09	16984-48-8	
Sulfate	**175**	mg/L	4.0	2.0	4		04/06/25 03:36	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	04/11/25 06:42	04/14/25 19:44	7440-36-0	
Arsenic	**0.027**	mg/L	0.0050	0.0012	1	04/11/25 06:42	04/14/25 19:44	7440-38-2	
Barium	**0.045**	mg/L	0.0050	0.0012	1	04/11/25 06:42	04/14/25 19:44	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	04/11/25 06:42	04/14/25 19:44	7440-41-7	
Boron	**1.0**	mg/L	0.40	0.062	10	04/11/25 06:42	04/15/25 15:24	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	04/11/25 06:42	04/14/25 19:44	7440-43-9	
Calcium	**119**	mg/L	10.0	1.0	10	04/11/25 06:42	04/15/25 15:24	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	04/11/25 06:42	04/14/25 19:44	7440-47-3	
Cobalt	**0.024**	mg/L	0.0050	0.0012	1	04/11/25 06:42	04/14/25 19:44	7440-48-4	
Iron	**0.37**	mg/L	0.040	0.012	1	04/11/25 06:42	04/14/25 19:44	7439-89-6	
Lead	ND	mg/L	0.0010	0.00025	1	04/11/25 06:42	04/14/25 19:44	7439-92-1	
Magnesium	**12.5**	mg/L	0.050	0.010	1	04/11/25 06:42	04/14/25 19:44	7439-95-4	
Manganese	**2.0**	mg/L	0.40	0.012	10	04/11/25 06:42	04/15/25 15:24	7439-96-5	
Molybdenum	**0.012**	mg/L	0.010	0.0025	1	04/11/25 06:42	04/14/25 19:44	7439-98-7	
Potassium	**4.9**	mg/L	0.50	0.10	1	04/11/25 06:42	04/14/25 19:44	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	04/11/25 06:42	04/14/25 19:44	7782-49-2	
Sodium	**6.3**	mg/L	1.0	0.15	1	04/11/25 06:42	04/14/25 19:44	7440-23-5	
Thallium	**0.00025J**	mg/L	0.0010	0.00015	1	04/11/25 06:42	04/14/25 19:44	7440-28-0	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92789136

Sample: HAM-PT-08 **Lab ID: 92789136002** Collected: 04/02/25 16:52 Received: 04/04/25 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WCOL 7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - West Columbia								
Mercury	ND	mg/L	0.00020	0.000091	1	04/10/25 19:12	04/21/25 21:15	7439-97-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92789136

Sample: HAM-PT-09 **Lab ID: 92789136003** Collected: 04/03/25 13:57 Received: 04/04/25 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.00124J**	mg/L	0.0300	0.000600	1	04/15/25 08:24	04/15/25 12:40	7439-93-2	J
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**126**	mg/L	5.0	5.0	1		04/08/25 19:38		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		04/08/25 19:38		
Alkalinity, Total as CaCO3	**126**	mg/L	5.0	5.0	1		04/08/25 19:38		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**516**	mg/L	25.0	25.0	1		04/09/25 14:47		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		04/09/25 02:52	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**56.9**	mg/L	1.0	0.60	1		04/05/25 16:22	16887-00-6	
Fluoride	**0.30**	mg/L	0.10	0.050	1		04/05/25 16:22	16984-48-8	
Sulfate	**122**	mg/L	3.0	1.5	3		04/06/25 03:51	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	04/11/25 06:42	04/14/25 19:53	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	04/11/25 06:42	04/14/25 19:53	7440-38-2	
Barium	**0.064**	mg/L	0.0050	0.0012	1	04/11/25 06:42	04/14/25 19:53	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	04/11/25 06:42	04/14/25 19:53	7440-41-7	
Boron	**1.8**	mg/L	0.40	0.062	10	04/11/25 06:42	04/15/25 15:33	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	04/11/25 06:42	04/14/25 19:53	7440-43-9	
Calcium	**102**	mg/L	10.0	1.0	10	04/11/25 06:42	04/15/25 15:33	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	04/11/25 06:42	04/14/25 19:53	7440-47-3	
Cobalt	**0.0015J**	mg/L	0.0050	0.0012	1	04/11/25 06:42	04/14/25 19:53	7440-48-4	
Iron	**0.061**	mg/L	0.040	0.012	1	04/11/25 06:42	04/14/25 19:53	7439-89-6	
Lead	ND	mg/L	0.0010	0.00025	1	04/11/25 06:42	04/14/25 19:53	7439-92-1	
Magnesium	**17.1**	mg/L	0.050	0.010	1	04/11/25 06:42	04/14/25 19:53	7439-95-4	
Manganese	**0.36J**	mg/L	0.40	0.012	10	04/11/25 06:42	04/15/25 15:33	7439-96-5	
Molybdenum	**0.16**	mg/L	0.010	0.0025	1	04/11/25 06:42	04/14/25 19:53	7439-98-7	
Potassium	**6.3**	mg/L	0.50	0.10	1	04/11/25 06:42	04/14/25 19:53	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	04/11/25 06:42	04/14/25 19:53	7782-49-2	
Sodium	**12.1**	mg/L	1.0	0.15	1	04/11/25 06:42	04/14/25 19:53	7440-23-5	
Thallium	**0.00017J**	mg/L	0.0010	0.00015	1	04/11/25 06:42	04/14/25 19:53	7440-28-0	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92789136

Sample: HAM-PT-09 **Lab ID: 92789136003** Collected: 04/03/25 13:57 Received: 04/04/25 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WCOL 7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - West Columbia								
Mercury	ND	mg/L	0.00020	0.000091	1	04/10/25 19:12	04/21/25 21:18	7439-97-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92789136

Sample: HAM-PT-10 **Lab ID: 92789136004** Collected: 04/03/25 12:39 Received: 04/04/25 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.00160J**	mg/L	0.0300	0.000600	1	04/15/25 08:24	04/15/25 12:44	7439-93-2	J
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**134**	mg/L	5.0	5.0	1		04/08/25 19:47		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		04/08/25 19:47		
Alkalinity, Total as CaCO3	**134**	mg/L	5.0	5.0	1		04/08/25 19:47		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**532**	mg/L	25.0	25.0	1		04/09/25 14:47		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		04/09/25 02:52	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**54.3**	mg/L	1.0	0.60	1		04/05/25 16:34	16887-00-6	
Fluoride	**0.15**	mg/L	0.10	0.050	1		04/05/25 16:34	16984-48-8	
Sulfate	**138**	mg/L	3.0	1.5	3		04/06/25 04:05	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	04/11/25 06:42	04/14/25 20:02	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	04/11/25 06:42	04/14/25 20:02	7440-38-2	
Barium	**0.056**	mg/L	0.0050	0.0012	1	04/11/25 06:42	04/14/25 20:02	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	04/11/25 06:42	04/14/25 20:02	7440-41-7	
Boron	**1.7**	mg/L	0.40	0.062	10	04/11/25 06:42	04/15/25 15:43	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	04/11/25 06:42	04/14/25 20:02	7440-43-9	
Calcium	**124**	mg/L	10.0	1.0	10	04/11/25 06:42	04/15/25 15:43	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	04/11/25 06:42	04/14/25 20:02	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.0012	1	04/11/25 06:42	04/14/25 20:02	7440-48-4	
Iron	**0.18**	mg/L	0.040	0.012	1	04/11/25 06:42	04/14/25 20:02	7439-89-6	
Lead	ND	mg/L	0.0010	0.00025	1	04/11/25 06:42	04/14/25 20:02	7439-92-1	
Magnesium	**12.3**	mg/L	0.050	0.010	1	04/11/25 06:42	04/14/25 20:02	7439-95-4	
Manganese	**0.71**	mg/L	0.40	0.012	10	04/11/25 06:42	04/15/25 15:43	7439-96-5	
Molybdenum	**0.040**	mg/L	0.010	0.0025	1	04/11/25 06:42	04/14/25 20:02	7439-98-7	
Potassium	**6.8**	mg/L	0.50	0.10	1	04/11/25 06:42	04/14/25 20:02	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	04/11/25 06:42	04/14/25 20:02	7782-49-2	
Sodium	**9.1**	mg/L	1.0	0.15	1	04/11/25 06:42	04/14/25 20:02	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	04/11/25 06:42	04/14/25 20:02	7440-28-0	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92789136

Sample: HAM-PT-10 **Lab ID: 92789136004** Collected: 04/03/25 12:39 Received: 04/04/25 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WCOL 7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - West Columbia								
Mercury	ND	mg/L	0.00020	0.000091	1	04/10/25 19:12	04/21/25 21:20	7439-97-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92789136

Sample: HAM-PT-11 **Lab ID: 92789136005** Collected: 04/03/25 12:30 Received: 04/04/25 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.00125J**	mg/L	0.0300	0.000600	1	04/15/25 08:24	04/15/25 12:47	7439-93-2	J
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**121**	mg/L	5.0	5.0	1		04/08/25 19:56		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		04/08/25 19:56		
Alkalinity, Total as CaCO3	**121**	mg/L	5.0	5.0	1		04/08/25 19:56		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**460**	mg/L	25.0	25.0	1		04/09/25 14:47		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		04/09/25 02:53	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**39.0**	mg/L	1.0	0.60	1		04/05/25 16:47	16887-00-6	
Fluoride	**0.28**	mg/L	0.10	0.050	1		04/05/25 16:47	16984-48-8	
Sulfate	**105**	mg/L	4.0	2.0	4		04/06/25 04:19	14808-79-8	M1
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	04/11/25 06:42	04/14/25 20:11	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	04/11/25 06:42	04/14/25 20:11	7440-38-2	
Barium	**0.063**	mg/L	0.0050	0.0012	1	04/11/25 06:42	04/14/25 20:11	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	04/11/25 06:42	04/14/25 20:11	7440-41-7	
Boron	**1.5**	mg/L	0.40	0.062	10	04/11/25 06:42	04/15/25 16:11	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	04/11/25 06:42	04/14/25 20:11	7440-43-9	
Calcium	**97.3**	mg/L	10.0	1.0	10	04/11/25 06:42	04/15/25 16:11	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	04/11/25 06:42	04/14/25 20:11	7440-47-3	
Cobalt	**0.0014J**	mg/L	0.0050	0.0012	1	04/11/25 06:42	04/14/25 20:11	7440-48-4	
Iron	**0.48**	mg/L	0.040	0.012	1	04/11/25 06:42	04/14/25 20:11	7439-89-6	
Lead	ND	mg/L	0.0010	0.00025	1	04/11/25 06:42	04/14/25 20:11	7439-92-1	
Magnesium	**15.0**	mg/L	0.050	0.010	1	04/11/25 06:42	04/14/25 20:11	7439-95-4	
Manganese	**0.35J**	mg/L	0.40	0.012	10	04/11/25 06:42	04/15/25 16:11	7439-96-5	
Molybdenum	**0.12**	mg/L	0.010	0.0025	1	04/11/25 06:42	04/14/25 20:11	7439-98-7	
Potassium	**5.9**	mg/L	0.50	0.10	1	04/11/25 06:42	04/14/25 20:11	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	04/11/25 06:42	04/14/25 20:11	7782-49-2	
Sodium	**8.3**	mg/L	1.0	0.15	1	04/11/25 06:42	04/14/25 20:11	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	04/11/25 06:42	04/14/25 20:11	7440-28-0	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92789136

Sample: HAM-PT-11 **Lab ID: 92789136005** Collected: 04/03/25 12:30 Received: 04/04/25 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WCOL 7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - West Columbia								
Mercury	ND	mg/L	0.00020	0.000091	1	04/10/25 19:12	04/21/25 21:23	7439-97-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92789136

Sample: HAM-PT-12 **Lab ID: 92789136006** Collected: 04/03/25 14:23 Received: 04/04/25 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.00110J**	mg/L	0.0300	0.000600	1	04/15/25 08:24	04/15/25 12:50	7439-93-2	J
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**115**	mg/L	5.0	5.0	1		04/08/25 20:05		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		04/08/25 20:05		
Alkalinity, Total as CaCO3	**115**	mg/L	5.0	5.0	1		04/08/25 20:05		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**431**	mg/L	25.0	25.0	1		04/10/25 06:13		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		04/09/25 02:53	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**52.4**	mg/L	1.0	0.60	1		04/05/25 17:26	16887-00-6	
Fluoride	**0.22**	mg/L	0.10	0.050	1		04/05/25 17:26	16984-48-8	
Sulfate	**115**	mg/L	3.0	1.5	3		04/06/25 05:28	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	04/11/25 06:42	04/14/25 20:20	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	04/11/25 06:42	04/14/25 20:20	7440-38-2	
Barium	**0.054**	mg/L	0.0050	0.0012	1	04/11/25 06:42	04/14/25 20:20	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	04/11/25 06:42	04/14/25 20:20	7440-41-7	
Boron	**1.7**	mg/L	0.40	0.062	10	04/11/25 06:42	04/15/25 16:21	7440-42-8	
Cadmium	**0.00013J**	mg/L	0.00050	0.00012	1	04/11/25 06:42	04/14/25 20:20	7440-43-9	
Calcium	**100**	mg/L	10.0	1.0	10	04/11/25 06:42	04/15/25 16:21	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	04/11/25 06:42	04/14/25 20:20	7440-47-3	
Cobalt	**0.0017J**	mg/L	0.0050	0.0012	1	04/11/25 06:42	04/14/25 20:20	7440-48-4	
Iron	**0.26**	mg/L	0.040	0.012	1	04/11/25 06:42	04/14/25 20:20	7439-89-6	
Lead	ND	mg/L	0.0010	0.00025	1	04/11/25 06:42	04/14/25 20:20	7439-92-1	
Magnesium	**14.9**	mg/L	0.050	0.010	1	04/11/25 06:42	04/14/25 20:20	7439-95-4	
Manganese	**0.41**	mg/L	0.40	0.012	10	04/11/25 06:42	04/15/25 16:21	7439-96-5	
Molybdenum	**0.11**	mg/L	0.010	0.0025	1	04/11/25 06:42	04/14/25 20:20	7439-98-7	
Potassium	**6.0**	mg/L	0.50	0.10	1	04/11/25 06:42	04/14/25 20:20	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	04/11/25 06:42	04/14/25 20:20	7782-49-2	
Sodium	**10.2**	mg/L	1.0	0.15	1	04/11/25 06:42	04/14/25 20:20	7440-23-5	
Thallium	**0.00016J**	mg/L	0.0010	0.00015	1	04/11/25 06:42	04/14/25 20:20	7440-28-0	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92789136

Sample: HAM-PT-12 **Lab ID: 92789136006** Collected: 04/03/25 14:23 Received: 04/04/25 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WCOL 7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - West Columbia								
Mercury	ND	mg/L	0.00020	0.000091	1	04/10/25 19:12	04/21/25 21:26	7439-97-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92789136

Sample: HAM-PT-13 **Lab ID: 92789136007** Collected: 04/02/25 17:18 Received: 04/04/25 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.0423**	mg/L	0.0300	0.000600	1	04/15/25 08:24	04/15/25 12:53	7439-93-2	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**166**	mg/L	5.0	5.0	1		04/08/25 16:35		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		04/08/25 16:35		
Alkalinity, Total as CaCO3	**166**	mg/L	5.0	5.0	1		04/08/25 16:35		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**517**	mg/L	25.0	25.0	1		04/08/25 11:57		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		04/09/25 02:48	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**18.5**	mg/L	1.0	0.60	1		04/05/25 17:39	16887-00-6	
Fluoride	**0.36**	mg/L	0.10	0.050	1		04/05/25 17:39	16984-48-8	
Sulfate	**166**	mg/L	4.0	2.0	4		04/06/25 05:42	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	04/10/25 07:00	04/10/25 16:16	7440-36-0	
Arsenic	**0.17**	mg/L	0.0050	0.0012	1	04/10/25 07:00	04/10/25 16:16	7440-38-2	
Barium	**0.047**	mg/L	0.0050	0.0012	1	04/10/25 07:00	04/10/25 16:16	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	04/10/25 07:00	04/10/25 16:16	7440-41-7	
Boron	**0.84**	mg/L	0.20	0.031	5	04/10/25 07:00	04/11/25 14:50	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	04/10/25 07:00	04/10/25 16:16	7440-43-9	
Calcium	**127**	mg/L	50.0	5.0	50	04/10/25 07:00	04/11/25 12:45	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	04/10/25 07:00	04/10/25 16:16	7440-47-3	
Cobalt	**0.018**	mg/L	0.0050	0.0012	1	04/10/25 07:00	04/10/25 16:16	7440-48-4	
Iron	**5.8**	mg/L	0.040	0.012	1	04/10/25 07:00	04/10/25 16:16	7439-89-6	
Lead	ND	mg/L	0.0010	0.00025	1	04/10/25 07:00	04/10/25 16:16	7439-92-1	
Magnesium	**15.1**	mg/L	0.050	0.010	1	04/10/25 07:00	04/10/25 16:16	7439-95-4	
Manganese	**3.2**	mg/L	2.0	0.062	50	04/10/25 07:00	04/11/25 12:45	7439-96-5	
Molybdenum	**0.0079J**	mg/L	0.010	0.0025	1	04/10/25 07:00	04/10/25 16:16	7439-98-7	
Potassium	**5.8**	mg/L	0.50	0.10	1	04/10/25 07:00	04/10/25 16:16	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	04/10/25 07:00	04/10/25 16:16	7782-49-2	
Sodium	**8.2**	mg/L	1.0	0.15	1	04/10/25 07:00	04/10/25 16:16	7440-23-5	
Thallium	**0.00036J**	mg/L	0.0010	0.00015	1	04/10/25 07:00	04/10/25 16:16	7440-28-0	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92789136

Sample: HAM-PT-13 **Lab ID: 92789136007** Collected: 04/02/25 17:18 Received: 04/04/25 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WCOL 7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - West Columbia								
Mercury	ND	mg/L	0.00020	0.000091	1	04/10/25 19:12	04/21/25 21:28	7439-97-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92789136

Sample: HAM-PT-14 **Lab ID: 92789136008** Collected: 04/02/25 13:49 Received: 04/04/25 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.0470**	mg/L	0.0300	0.000600	1	04/15/25 08:24	04/15/25 12:56	7439-93-2	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**163**	mg/L	5.0	5.0	1		04/08/25 16:46		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		04/08/25 16:46		
Alkalinity, Total as CaCO3	**163**	mg/L	5.0	5.0	1		04/08/25 16:46		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**515**	mg/L	25.0	25.0	1		04/08/25 11:57		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		04/09/25 02:49	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**15.8**	mg/L	1.0	0.60	1		04/05/25 17:52	16887-00-6	
Fluoride	**0.32**	mg/L	0.10	0.050	1		04/05/25 17:52	16984-48-8	
Sulfate	**165**	mg/L	4.0	2.0	4		04/06/25 05:56	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	04/10/25 07:00	04/10/25 16:25	7440-36-0	
Arsenic	**0.42**	mg/L	0.25	0.062	50	04/10/25 07:00	04/11/25 12:49	7440-38-2	
Barium	**0.042**	mg/L	0.0050	0.0012	1	04/10/25 07:00	04/10/25 16:25	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	04/10/25 07:00	04/10/25 16:25	7440-41-7	
Boron	**0.81**	mg/L	0.20	0.031	5	04/10/25 07:00	04/11/25 14:59	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	04/10/25 07:00	04/10/25 16:25	7440-43-9	
Calcium	**111**	mg/L	50.0	5.0	50	04/10/25 07:00	04/11/25 12:49	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	04/10/25 07:00	04/10/25 16:25	7440-47-3	
Cobalt	**0.022**	mg/L	0.0050	0.0012	1	04/10/25 07:00	04/10/25 16:25	7440-48-4	
Iron	**10.7**	mg/L	0.040	0.012	1	04/10/25 07:00	04/10/25 16:25	7439-89-6	
Lead	ND	mg/L	0.0010	0.00025	1	04/10/25 07:00	04/10/25 16:25	7439-92-1	
Magnesium	**14.8**	mg/L	0.050	0.010	1	04/10/25 07:00	04/10/25 16:25	7439-95-4	
Manganese	**3.3**	mg/L	2.0	0.062	50	04/10/25 07:00	04/11/25 12:49	7439-96-5	
Molybdenum	**0.010**	mg/L	0.010	0.0025	1	04/10/25 07:00	04/10/25 16:25	7439-98-7	
Potassium	**5.7**	mg/L	0.50	0.10	1	04/10/25 07:00	04/10/25 16:25	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	04/10/25 07:00	04/10/25 16:25	7782-49-2	
Sodium	**7.3**	mg/L	1.0	0.15	1	04/10/25 07:00	04/10/25 16:25	7440-23-5	
Thallium	**0.00019J**	mg/L	0.0010	0.00015	1	04/10/25 07:00	04/10/25 16:25	7440-28-0	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92789136

Sample: HAM-PT-14 **Lab ID: 92789136008** Collected: 04/02/25 13:49 Received: 04/04/25 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WCOL 7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - West Columbia								
Mercury	ND	mg/L	0.00020	0.000091	1	04/10/25 19:12	04/21/25 21:31	7439-97-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92789136

Sample: HAM-PT-15 **Lab ID: 92789136009** Collected: 04/02/25 13:04 Received: 04/04/25 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.0355**	mg/L	0.0300	0.000600	1	04/15/25 08:24	04/15/25 13:00	7439-93-2	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**157**	mg/L	5.0	5.0	1		04/08/25 16:57		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		04/08/25 16:57		
Alkalinity, Total as CaCO3	**157**	mg/L	5.0	5.0	1		04/08/25 16:57		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**511**	mg/L	25.0	25.0	1		04/08/25 11:57		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		04/09/25 02:49	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**16.9**	mg/L	1.0	0.60	1		04/05/25 18:31	16887-00-6	
Fluoride	**0.32**	mg/L	0.10	0.050	1		04/05/25 18:31	16984-48-8	
Sulfate	**170**	mg/L	4.0	2.0	4		04/06/25 06:10	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	04/10/25 07:00	04/10/25 16:33	7440-36-0	
Arsenic	**0.088**	mg/L	0.0050	0.0012	1	04/10/25 07:00	04/10/25 16:33	7440-38-2	
Barium	**0.051**	mg/L	0.0050	0.0012	1	04/10/25 07:00	04/10/25 16:33	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	04/10/25 07:00	04/10/25 16:33	7440-41-7	
Boron	**0.87**	mg/L	0.20	0.031	5	04/10/25 07:00	04/11/25 15:07	7440-42-8	
Cadmium	**0.00032J**	mg/L	0.00050	0.00012	1	04/10/25 07:00	04/10/25 16:33	7440-43-9	
Calcium	**122**	mg/L	50.0	5.0	50	04/10/25 07:00	04/11/25 12:53	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	04/10/25 07:00	04/10/25 16:33	7440-47-3	
Cobalt	**0.028**	mg/L	0.0050	0.0012	1	04/10/25 07:00	04/10/25 16:33	7440-48-4	
Iron	**1.1**	mg/L	0.040	0.012	1	04/10/25 07:00	04/10/25 16:33	7439-89-6	
Lead	ND	mg/L	0.0010	0.00025	1	04/10/25 07:00	04/10/25 16:33	7439-92-1	
Magnesium	**13.3**	mg/L	0.050	0.010	1	04/10/25 07:00	04/10/25 16:33	7439-95-4	
Manganese	**4.1**	mg/L	2.0	0.062	50	04/10/25 07:00	04/11/25 12:53	7439-96-5	
Molybdenum	**0.012**	mg/L	0.010	0.0025	1	04/10/25 07:00	04/10/25 16:33	7439-98-7	
Potassium	**5.5**	mg/L	0.50	0.10	1	04/10/25 07:00	04/10/25 16:33	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	04/10/25 07:00	04/10/25 16:33	7782-49-2	
Sodium	**7.0**	mg/L	1.0	0.15	1	04/10/25 07:00	04/10/25 16:33	7440-23-5	
Thallium	**0.00062J**	mg/L	0.0010	0.00015	1	04/10/25 07:00	04/10/25 16:33	7440-28-0	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92789136

Sample: HAM-PT-15 **Lab ID: 92789136009** Collected: 04/02/25 13:04 Received: 04/04/25 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WCOL 7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - West Columbia								
Mercury	ND	mg/L	0.00020	0.000091	1	04/10/25 19:12	04/21/25 21:43	7439-97-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92789136

Sample: HAM-AP1-EB-01 **Lab ID: 92789136010** Collected: 04/02/25 18:00 Received: 04/04/25 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	ND	mg/L	0.0300	0.000600	1	04/15/25 08:24	04/15/25 13:03	7439-93-2	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		04/08/25 17:07		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		04/08/25 17:07		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		04/08/25 17:07		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		04/08/25 11:57		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		04/09/25 02:49	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		04/05/25 18:44	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		04/05/25 18:44	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		04/05/25 18:44	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	04/10/25 07:00	04/10/25 16:41	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	04/10/25 07:00	04/10/25 16:41	7440-38-2	
Barium	ND	mg/L	0.0050	0.0012	1	04/10/25 07:00	04/10/25 16:41	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	04/10/25 07:00	04/10/25 16:41	7440-41-7	
Boron	ND	mg/L	0.040	0.0062	1	04/10/25 07:00	04/10/25 16:41	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	04/10/25 07:00	04/10/25 16:41	7440-43-9	
Calcium	ND	mg/L	1.0	0.10	1	04/10/25 07:00	04/10/25 16:41	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	04/10/25 07:00	04/10/25 16:41	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.0012	1	04/10/25 07:00	04/10/25 16:41	7440-48-4	
Iron	ND	mg/L	0.040	0.012	1	04/10/25 07:00	04/10/25 16:41	7439-89-6	
Lead	ND	mg/L	0.0010	0.00025	1	04/10/25 07:00	04/10/25 16:41	7439-92-1	
Magnesium	ND	mg/L	0.050	0.010	1	04/10/25 07:00	04/10/25 16:41	7439-95-4	
Manganese	ND	mg/L	0.040	0.0012	1	04/10/25 07:00	04/10/25 16:41	7439-96-5	
Molybdenum	ND	mg/L	0.010	0.0025	1	04/10/25 07:00	04/10/25 16:41	7439-98-7	
Potassium	ND	mg/L	0.50	0.10	1	04/10/25 07:00	04/10/25 16:41	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	04/10/25 07:00	04/10/25 16:41	7782-49-2	
Sodium	ND	mg/L	1.0	0.15	1	04/10/25 07:00	04/10/25 16:41	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	04/10/25 07:00	04/10/25 16:41	7440-28-0	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92789136

Sample: HAM-AP1-EB-01 **Lab ID: 92789136010** Collected: 04/02/25 18:00 Received: 04/04/25 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WCOL 7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - West Columbia								
Mercury	ND	mg/L	0.00020	0.000091	1	04/10/25 19:12	04/21/25 21:46	7439-97-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92789136

Sample: HAM-AP1-FB-01 **Lab ID: 92789136011** Collected: 04/02/25 17:50 Received: 04/04/25 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	ND	mg/L	0.0300	0.000600	1	04/15/25 08:24	04/15/25 13:06	7439-93-2	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		04/08/25 17:11		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		04/08/25 17:11		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		04/08/25 17:11		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		04/08/25 11:57		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		04/09/25 02:50	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		04/05/25 18:57	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		04/05/25 18:57	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		04/05/25 18:57	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	04/10/25 07:00	04/10/25 16:50	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	04/10/25 07:00	04/10/25 16:50	7440-38-2	
Barium	ND	mg/L	0.0050	0.0012	1	04/10/25 07:00	04/10/25 16:50	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	04/10/25 07:00	04/10/25 16:50	7440-41-7	
Boron	ND	mg/L	0.040	0.0062	1	04/10/25 07:00	04/10/25 16:50	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	04/10/25 07:00	04/10/25 16:50	7440-43-9	
Calcium	ND	mg/L	1.0	0.10	1	04/10/25 07:00	04/10/25 16:50	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	04/10/25 07:00	04/10/25 16:50	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.0012	1	04/10/25 07:00	04/10/25 16:50	7440-48-4	
Iron	**0.026J**	mg/L	0.040	0.012	1	04/10/25 07:00	04/10/25 16:50	7439-89-6	
Lead	ND	mg/L	0.0010	0.00025	1	04/10/25 07:00	04/10/25 16:50	7439-92-1	
Magnesium	**0.042J**	mg/L	0.050	0.010	1	04/10/25 07:00	04/10/25 16:50	7439-95-4	
Manganese	**0.0066J**	mg/L	0.040	0.0012	1	04/10/25 07:00	04/10/25 16:50	7439-96-5	
Molybdenum	ND	mg/L	0.010	0.0025	1	04/10/25 07:00	04/10/25 16:50	7439-98-7	
Potassium	ND	mg/L	0.50	0.10	1	04/10/25 07:00	04/10/25 16:50	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	04/10/25 07:00	04/10/25 16:50	7782-49-2	
Sodium	ND	mg/L	1.0	0.15	1	04/10/25 07:00	04/10/25 16:50	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	04/10/25 07:00	04/10/25 16:50	7440-28-0	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92789136

Sample: HAM-AP1-FB-01 **Lab ID: 92789136011** Collected: 04/02/25 17:50 Received: 04/04/25 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WCOL 7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - West Columbia								
Mercury	ND	mg/L	0.00020	0.000091	1	04/10/25 19:12	04/21/25 21:48	7439-97-6	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92789136

Sample: HAM-AP1-FD-01 **Lab ID: 92789136012** Collected: 04/02/25 00:00 Received: 04/04/25 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.0479**	mg/L	0.0300	0.000600	1	04/15/25 08:24	04/15/25 13:09	7439-93-2	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**162**	mg/L	5.0	5.0	1		04/08/25 17:15		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		04/08/25 17:15		
Alkalinity, Total as CaCO3	**162**	mg/L	5.0	5.0	1		04/08/25 17:15		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**515**	mg/L	25.0	25.0	1		04/08/25 11:57		
4500S2D Sulfide Water	Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.022	1		04/09/25 02:51	18496-25-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**16.1**	mg/L	1.0	0.60	1		04/05/25 19:10	16887-00-6	
Fluoride	**0.34**	mg/L	0.10	0.050	1		04/05/25 19:10	16984-48-8	
Sulfate	**166**	mg/L	4.0	2.0	4		04/06/25 06:24	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	04/10/25 07:00	04/10/25 16:58	7440-36-0	
Arsenic	**0.40**	mg/L	0.25	0.062	50	04/10/25 07:00	04/11/25 12:57	7440-38-2	
Barium	**0.043**	mg/L	0.0050	0.0012	1	04/10/25 07:00	04/10/25 16:58	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	04/10/25 07:00	04/10/25 16:58	7440-41-7	
Boron	**0.79**	mg/L	0.20	0.031	5	04/10/25 07:00	04/11/25 14:42	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	04/10/25 07:00	04/10/25 16:58	7440-43-9	
Calcium	**119**	mg/L	50.0	5.0	50	04/10/25 07:00	04/11/25 12:57	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	04/10/25 07:00	04/10/25 16:58	7440-47-3	
Cobalt	**0.023**	mg/L	0.0050	0.0012	1	04/10/25 07:00	04/10/25 16:58	7440-48-4	
Iron	**10.9**	mg/L	0.040	0.012	1	04/10/25 07:00	04/10/25 16:58	7439-89-6	
Lead	ND	mg/L	0.0010	0.00025	1	04/10/25 07:00	04/10/25 16:58	7439-92-1	
Magnesium	**15.0**	mg/L	0.050	0.010	1	04/10/25 07:00	04/10/25 16:58	7439-95-4	
Manganese	**3.2**	mg/L	2.0	0.062	50	04/10/25 07:00	04/11/25 12:57	7439-96-5	
Molybdenum	**0.010**	mg/L	0.010	0.0025	1	04/10/25 07:00	04/10/25 16:58	7439-98-7	
Potassium	**5.6**	mg/L	0.50	0.10	1	04/10/25 07:00	04/10/25 16:58	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	04/10/25 07:00	04/10/25 16:58	7782-49-2	
Sodium	**7.4**	mg/L	1.0	0.15	1	04/10/25 07:00	04/10/25 16:58	7440-23-5	
Thallium	**0.00017J**	mg/L	0.0010	0.00015	1	04/10/25 07:00	04/10/25 16:58	7440-28-0	

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ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92789136

Sample: HAM-AP1-FD-01 **Lab ID: 92789136012** Collected: 04/02/25 00:00 Received: 04/04/25 14:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
WCOL 7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - West Columbia								
Mercury	ND	mg/L	0.00020	0.000091	1	04/10/25 19:12	04/21/25 21:51	7439-97-6	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92789136

QC Batch: 2487004
QC Batch Method: 3015
Analysis Method: EPA 6020B
Analysis Description: Metals (ICPMS) 6020B
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 92789136001, 92789136002, 92789136003, 92789136004, 92789136005, 92789136006, 92789136007, 92789136008, 92789136009, 92789136010, 92789136011, 92789136012

METHOD BLANK: R4199786-1 Matrix: Water
Associated Lab Samples: 92789136001, 92789136002, 92789136003, 92789136004, 92789136005, 92789136006, 92789136007, 92789136008, 92789136009, 92789136010, 92789136011, 92789136012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lithium	mg/L	ND	0.0300	0.000600	04/15/25 11:31	

LABORATORY CONTROL SAMPLE: R4199786-2

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lithium	mg/L	0.0500	0.0431	86.3	80.0-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R4199786-4 R4199786-5

Parameter	Units	L1844756-01 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lithium	mg/L	0.00302	0.0500	0.0500	0.0467	0.0458	87.3	85.5	75.0-125	1.91	20	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92789136

QC Batch: 927854
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92789136002, 92789136007, 92789136008, 92789136009, 92789136010, 92789136011, 92789136012

METHOD BLANK: 4766038 Matrix: Water
Associated Lab Samples: 92789136002, 92789136007, 92789136008, 92789136009, 92789136010, 92789136011, 92789136012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	04/08/25 14:52	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	04/08/25 14:52	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	04/08/25 14:52	

LABORATORY CONTROL SAMPLE: 4766039

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.1	102	80-120	

LABORATORY CONTROL SAMPLE: 4766040

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.9	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4766041 4766042

Parameter	Units	92788996001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	63.1	50	50	116	117	107	109	80-120	1	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4766043 4766044

Parameter	Units	92789346001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	67.8	50	50	118	117	100	99	80-120	1	25	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92789136

QC Batch: 927855 | Analysis Method: SM 2320B-2011
QC Batch Method: SM 2320B-2011 | Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92789136001, 92789136003, 92789136004, 92789136005, 92789136006

METHOD BLANK: 4766046 Matrix: Water
Associated Lab Samples: 92789136001, 92789136003, 92789136004, 92789136005, 92789136006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	04/08/25 18:32	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	04/08/25 18:32	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	04/08/25 18:32	

LABORATORY CONTROL SAMPLE: 4766047

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.1	102	80-120	

LABORATORY CONTROL SAMPLE: 4766048

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	52.0	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4766049 4766050

Parameter	Units	92789065030 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	12.0	50	50	63.5	64.0	103	104	80-120	1	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4766051 4766052

Parameter	Units	92789065031 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	46.5	50	50	96.8	97.6	100	102	80-120	1	25	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92789136

QC Batch: 927864 | Analysis Method: SM 2540C-2015
QC Batch Method: SM 2540C-2015 | Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92789136002, 92789136007, 92789136008, 92789136009, 92789136010, 92789136011, 92789136012

METHOD BLANK: 4766088 Matrix: Water
Associated Lab Samples: 92789136002, 92789136007, 92789136008, 92789136009, 92789136010, 92789136011, 92789136012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	04/08/25 11:57	

LABORATORY CONTROL SAMPLE: 4766089

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	242	97	90-110	

SAMPLE DUPLICATE: 4766090

Parameter	Units	92789136002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	491	489	0	25	

SAMPLE DUPLICATE: 4766091

Parameter	Units	92788889001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	483	484	0	25	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92789136

QC Batch: 928218 | Analysis Method: SM 2540C-2015
QC Batch Method: SM 2540C-2015 | Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92789136001, 92789136003, 92789136004, 92789136005

METHOD BLANK: 4768155 Matrix: Water
Associated Lab Samples: 92789136001, 92789136003, 92789136004, 92789136005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	04/09/25 14:39	

LABORATORY CONTROL SAMPLE: 4768156

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	236	94	90-110	

SAMPLE DUPLICATE: 4768157

Parameter	Units	92789705001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	31.0	27.0	14	25	

SAMPLE DUPLICATE: 4768158

Parameter	Units	92789065027 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	116	112	4	25	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92789136

QC Batch: 928368
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92789136006

METHOD BLANK: 4769129 Matrix: Water
Associated Lab Samples: 92789136006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	04/10/25 06:13	

LABORATORY CONTROL SAMPLE: 4769130

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	244	98	90-110	

SAMPLE DUPLICATE: 4769131

Parameter	Units	92789136006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	431	435	1	25	

SAMPLE DUPLICATE: 4769132

Parameter	Units	92789148003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	119	111	7	25	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92789136

QC Batch: 928049 | Analysis Method: SM 4500-S2D-2011
QC Batch Method: SM 4500-S2D-2011 | Analysis Description: 4500S2D Sulfide Water
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92789136001, 92789136002, 92789136003, 92789136004, 92789136005, 92789136006, 92789136007, 92789136008, 92789136009, 92789136010, 92789136011, 92789136012

METHOD BLANK: 4767367 Matrix: Water
Associated Lab Samples: 92789136001, 92789136002, 92789136003, 92789136004, 92789136005, 92789136006, 92789136007, 92789136008, 92789136009, 92789136010, 92789136011, 92789136012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	0.022	04/09/25 02:46	

LABORATORY CONTROL SAMPLE: 4767368

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	0.56	113	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4767369 4767370

Parameter	Units	92789136002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.59	0.63	119	125	80-120	5	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4767371 4767372

Parameter	Units	92789691001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.59	0.62	108	112	80-120	3	10	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92789136

QC Batch: 927500
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92789136001, 92789136002, 92789136003, 92789136004, 92789136005, 92789136006, 92789136007, 92789136008, 92789136009, 92789136010, 92789136011, 92789136012

METHOD BLANK: 4764575 Matrix: Water
Associated Lab Samples: 92789136001, 92789136002, 92789136003, 92789136004, 92789136005, 92789136006, 92789136007, 92789136008, 92789136009, 92789136010, 92789136011, 92789136012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	04/05/25 13:20	
Fluoride	mg/L	ND	0.10	0.050	04/05/25 13:20	
Sulfate	mg/L	ND	1.0	0.50	04/05/25 13:20	

LABORATORY CONTROL SAMPLE: 4764576

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	52.4	105	90-110	
Fluoride	mg/L	2.5	2.7	109	90-110	
Sulfate	mg/L	50	52.4	105	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4764577 4764578

Parameter	Units	92789037001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	916	50	50	944	944	56	56	90-110	0	10	M1
Fluoride	mg/L	ND	2.5	2.5	2.4	2.4	94	96	90-110	2	10	
Sulfate	mg/L	81.5	50	50	110	111	56	59	90-110	1	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4764579 4764580

Parameter	Units	92789136005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	39.0	50	50	86.6	89.1	95	100	90-110	3	10	
Fluoride	mg/L	0.28	2.5	2.5	2.7	2.8	97	102	90-110	4	10	
Sulfate	mg/L	105	50	50	150	147	90	85	90-110	2	10	M1

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92789136

QC Batch: 928129
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: WC 6020B MET
Laboratory: Pace Analytical Services - West Columbia
Associated Lab Samples: 92789136001, 92789136002, 92789136003, 92789136004, 92789136005, 92789136006

METHOD BLANK: 4767546 Matrix: Water
Associated Lab Samples: 92789136001, 92789136002, 92789136003, 92789136004, 92789136005, 92789136006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00050	04/14/25 15:56	
Arsenic	mg/L	ND	0.0050	0.0012	04/14/25 15:56	
Barium	mg/L	ND	0.0050	0.0012	04/14/25 15:56	
Beryllium	mg/L	ND	0.00050	0.00015	04/14/25 15:56	
Boron	mg/L	ND	0.040	0.0062	04/14/25 15:56	
Cadmium	mg/L	ND	0.00050	0.00012	04/14/25 15:56	
Calcium	mg/L	ND	1.0	0.10	04/14/25 15:56	
Chromium	mg/L	ND	0.0050	0.0012	04/14/25 15:56	
Cobalt	mg/L	ND	0.0050	0.0012	04/14/25 15:56	
Iron	mg/L	ND	0.040	0.012	04/14/25 15:56	
Lead	mg/L	ND	0.0010	0.00025	04/14/25 15:56	
Magnesium	mg/L	ND	0.050	0.010	04/14/25 15:56	
Manganese	mg/L	ND	0.040	0.0012	04/14/25 15:56	
Molybdenum	mg/L	ND	0.010	0.0025	04/14/25 15:56	
Potassium	mg/L	ND	0.50	0.10	04/14/25 15:56	
Selenium	mg/L	ND	0.0050	0.0012	04/14/25 15:56	
Sodium	mg/L	ND	1.0	0.15	04/14/25 15:56	
Thallium	mg/L	ND	0.0010	0.00015	04/14/25 15:56	

LABORATORY CONTROL SAMPLE: 4767547

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.10	100	80-120	
Arsenic	mg/L	0.1	0.092	92	80-120	
Barium	mg/L	0.1	0.099	99	80-120	
Beryllium	mg/L	0.1	0.096	96	80-120	
Boron	mg/L	0.1	0.10	100	80-120	
Cadmium	mg/L	0.1	0.095	95	80-120	
Calcium	mg/L	1	0.93J	93	80-120	
Chromium	mg/L	0.1	0.10	103	80-120	
Cobalt	mg/L	0.1	0.10	103	80-120	
Iron	mg/L	1	1.0	102	80-120	
Lead	mg/L	0.1	0.097	97	80-120	
Magnesium	mg/L	1	1.0	102	80-120	
Manganese	mg/L	0.1	0.10	101	80-120	
Molybdenum	mg/L	0.1	0.10	101	80-120	
Potassium	mg/L	1	0.98	98	80-120	
Selenium	mg/L	0.1	0.093	93	80-120	
Sodium	mg/L	1	1.0	101	80-120	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92789136

LABORATORY CONTROL SAMPLE: 4767547

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Thallium	mg/L	0.1	0.096	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4767548 4767549

Parameter	Units	92789159008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.10	0.10	101	103	75-125	1	20	
Arsenic	mg/L	11.7 ug/L	0.1	0.1	0.11	0.11	96	98	75-125	1	20	
Barium	mg/L	40.0 ug/L	0.1	0.1	0.14	0.14	96	97	75-125	1	20	
Beryllium	mg/L	ND	0.1	0.1	0.098	0.097	98	96	75-125	1	20	
Boron	mg/L	ND	0.1	0.1	0.10	0.11	97	102	75-125	5	20	
Cadmium	mg/L	ND	0.1	0.1	0.097	0.098	97	98	75-125	1	20	
Calcium	mg/L	22700 ug/L	1	1	23.8	23.6	115	91	75-125	1	20	
Chromium	mg/L	ND	0.1	0.1	0.098	0.099	98	98	75-125	1	20	
Cobalt	mg/L	ND	0.1	0.1	0.098	0.098	94	95	75-125	1	20	
Iron	mg/L	16400 ug/L	1	1	17.5	17.5	106	108	75-125	0	20	
Lead	mg/L	ND	0.1	0.1	0.093	0.095	93	95	75-125	2	20	
Magnesium	mg/L	9660 ug/L	1	1	10.5	10.5	84	88	75-125	0	20	
Manganese	mg/L	4220 ug/L	0.1	0.1	4.3	4.4	120	167	75-125	1	20	M1
Molybdenum	mg/L	ND	0.1	0.1	0.090	0.091	89	90	75-125	1	20	
Potassium	mg/L	1110 ug/L	1	1	2.1	2.1	98	99	75-125	1	20	
Selenium	mg/L	ND	0.1	0.1	0.10	0.10	102	104	75-125	2	20	
Sodium	mg/L	2360 ug/L	1	1	3.3	3.3	94	95	75-125	0	20	
Thallium	mg/L	ND	0.1	0.1	0.094	0.096	94	96	75-125	2	20	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92789136

QC Batch: 928130
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: WC 6020B MET
Laboratory: Pace Analytical Services - West Columbia
Associated Lab Samples: 92789136007, 92789136008, 92789136009, 92789136010, 92789136011, 92789136012

METHOD BLANK: 4767568 Matrix: Water
Associated Lab Samples: 92789136007, 92789136008, 92789136009, 92789136010, 92789136011, 92789136012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00050	04/10/25 15:59	
Arsenic	mg/L	ND	0.0050	0.0012	04/10/25 15:59	
Barium	mg/L	ND	0.0050	0.0012	04/10/25 15:59	
Beryllium	mg/L	ND	0.00050	0.00015	04/10/25 15:59	
Boron	mg/L	ND	0.040	0.0062	04/10/25 15:59	
Cadmium	mg/L	ND	0.00050	0.00012	04/10/25 15:59	
Calcium	mg/L	ND	1.0	0.10	04/10/25 15:59	
Chromium	mg/L	ND	0.0050	0.0012	04/10/25 15:59	
Cobalt	mg/L	ND	0.0050	0.0012	04/10/25 15:59	
Iron	mg/L	ND	0.040	0.012	04/10/25 15:59	
Lead	mg/L	ND	0.0010	0.00025	04/10/25 15:59	
Magnesium	mg/L	ND	0.050	0.010	04/10/25 15:59	
Manganese	mg/L	ND	0.040	0.0012	04/10/25 15:59	
Molybdenum	mg/L	ND	0.010	0.0025	04/10/25 15:59	
Potassium	mg/L	ND	0.50	0.10	04/10/25 15:59	
Selenium	mg/L	ND	0.0050	0.0012	04/10/25 15:59	
Sodium	mg/L	ND	1.0	0.15	04/10/25 15:59	
Thallium	mg/L	ND	0.0010	0.00015	04/10/25 15:59	

LABORATORY CONTROL SAMPLE: 4767569

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.093	93	80-120	
Arsenic	mg/L	0.1	0.090	90	80-120	
Barium	mg/L	0.1	0.093	93	80-120	
Beryllium	mg/L	0.1	0.091	91	80-120	
Boron	mg/L	0.1	0.091	91	80-120	
Cadmium	mg/L	0.1	0.093	93	80-120	
Calcium	mg/L	1	1.0J	100	80-120	
Chromium	mg/L	0.1	0.099	99	80-120	
Cobalt	mg/L	0.1	0.099	99	80-120	
Iron	mg/L	1	0.99	99	80-120	
Lead	mg/L	0.1	0.10	102	80-120	
Magnesium	mg/L	1	0.97	97	80-120	
Manganese	mg/L	0.1	0.098	98	80-120	
Molybdenum	mg/L	0.1	0.10	102	80-120	
Potassium	mg/L	1	1.0	101	80-120	
Selenium	mg/L	0.1	0.086	86	80-120	
Sodium	mg/L	1	0.93J	93	80-120	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92789136

LABORATORY CONTROL SAMPLE: 4767569

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Thallium	mg/L	0.1	0.10	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4767570 4767571

Parameter	Units	92789148002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.10	0.098	100	98	75-125	2	20	
Arsenic	mg/L	ND	0.1	0.1	0.085	0.084	85	84	75-125	2	20	
Barium	mg/L	146 ug/L	0.1	0.1	0.24	0.23	91	88	75-125	1	20	
Beryllium	mg/L	ND	0.1	0.1	0.097	0.098	97	98	75-125	1	20	
Boron	mg/L	ND	0.1	0.1	0.10	0.10	96	94	75-125	2	20	
Cadmium	mg/L	ND	0.1	0.1	0.10	0.099	100	98	75-125	2	20	
Calcium	mg/L	25600 ug/L	1	1	27.0	25.9	138	35	75-125	4	20	M1
Chromium	mg/L	ND	0.1	0.1	0.10	0.10	100	101	75-125	1	20	
Cobalt	mg/L	ND	0.1	0.1	0.11	0.11	102	104	75-125	2	20	
Iron	mg/L	580 ug/L	1	1	1.5	1.5	90	96	75-125	4	20	
Lead	mg/L	ND	0.1	0.1	0.10	0.10	104	103	75-125	1	20	
Magnesium	mg/L	4670 ug/L	1	1	5.3	5.6	62	91	75-125	5	20	M1
Manganese	mg/L	4800 ug/L	0.1	0.1	4.7	4.8	-117	3	75-125	3	20	M1
Molybdenum	mg/L	ND	0.1	0.1	0.090	0.089	90	89	75-125	1	20	
Potassium	mg/L	633 ug/L	1	1	1.6	1.6	94	96	75-125	1	20	
Selenium	mg/L	ND	0.1	0.1	0.091	0.090	91	90	75-125	1	20	
Sodium	mg/L	5270 ug/L	1	1	6.1	6.3	79	98	75-125	3	20	
Thallium	mg/L	ND	0.1	0.1	0.11	0.11	106	105	75-125	0	20	

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QUALITY CONTROL DATA

Project: Hammond AP-1
Pace Project No.: 92789136

QC Batch: 928649 | Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A | Analysis Description: WCOL 7470 Mercury
Laboratory: Pace Analytical Services - West Columbia
Associated Lab Samples: 92789136001, 92789136002, 92789136003, 92789136004, 92789136005, 92789136006, 92789136007, 92789136008, 92789136009, 92789136010, 92789136011, 92789136012

METHOD BLANK: 4770650 Matrix: Water
Associated Lab Samples: 92789136001, 92789136002, 92789136003, 92789136004, 92789136005, 92789136006, 92789136007, 92789136008, 92789136009, 92789136010, 92789136011, 92789136012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.000091	04/21/25 20:58	

LABORATORY CONTROL SAMPLE: 4770651

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.002	0.0020	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4770652 4770653

Parameter	Units	92789136001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.002	0.002	0.0020	0.0020	101	99	80-120	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4770654 4770655

Parameter	Units	92789136008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.002	0.002	0.0020	0.0020	101	100	80-120	1	20	

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QUALIFIERS

Project: Hammond AP-1
Pace Project No.: 92789136

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

J	Analyte detected below the reporting limit, therefore result is an estimate. This qualifier is also used for all TICs.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Hammond AP-1
Pace Project No.: 92789136

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92789136001	**HAM-PT-07**	3015	2487004	EPA 6020B	2487004
92789136002	**HAM-PT-08**	3015	2487004	EPA 6020B	2487004
92789136003	**HAM-PT-09**	3015	2487004	EPA 6020B	2487004
92789136004	**HAM-PT-10**	3015	2487004	EPA 6020B	2487004
92789136005	**HAM-PT-11**	3015	2487004	EPA 6020B	2487004
92789136006	**HAM-PT-12**	3015	2487004	EPA 6020B	2487004
92789136007	**HAM-PT-13**	3015	2487004	EPA 6020B	2487004
92789136008	**HAM-PT-14**	3015	2487004	EPA 6020B	2487004
92789136009	**HAM-PT-15**	3015	2487004	EPA 6020B	2487004
92789136010	**HAM-AP1-EB-01**	3015	2487004	EPA 6020B	2487004
92789136011	**HAM-AP1-FB-01**	3015	2487004	EPA 6020B	2487004
92789136012	**HAM-AP1-FD-01**	3015	2487004	EPA 6020B	2487004
92789136001	**HAM-PT-07**	SM 2320B-2011	927855		
92789136002	**HAM-PT-08**	SM 2320B-2011	927854		
92789136003	**HAM-PT-09**	SM 2320B-2011	927855		
92789136004	**HAM-PT-10**	SM 2320B-2011	927855		
92789136005	**HAM-PT-11**	SM 2320B-2011	927855		
92789136006	**HAM-PT-12**	SM 2320B-2011	927855		
92789136007	**HAM-PT-13**	SM 2320B-2011	927854		
92789136008	**HAM-PT-14**	SM 2320B-2011	927854		
92789136009	**HAM-PT-15**	SM 2320B-2011	927854		
92789136010	**HAM-AP1-EB-01**	SM 2320B-2011	927854		
92789136011	**HAM-AP1-FB-01**	SM 2320B-2011	927854		
92789136012	**HAM-AP1-FD-01**	SM 2320B-2011	927854		
92789136001	**HAM-PT-07**	SM 2540C-2015	928218		
92789136002	**HAM-PT-08**	SM 2540C-2015	927864		
92789136003	**HAM-PT-09**	SM 2540C-2015	928218		
92789136004	**HAM-PT-10**	SM 2540C-2015	928218		
92789136005	**HAM-PT-11**	SM 2540C-2015	928218		
92789136006	**HAM-PT-12**	SM 2540C-2015	928368		
92789136007	**HAM-PT-13**	SM 2540C-2015	927864		
92789136008	**HAM-PT-14**	SM 2540C-2015	927864		
92789136009	**HAM-PT-15**	SM 2540C-2015	927864		
92789136010	**HAM-AP1-EB-01**	SM 2540C-2015	927864		
92789136011	**HAM-AP1-FB-01**	SM 2540C-2015	927864		
92789136012	**HAM-AP1-FD-01**	SM 2540C-2015	927864		
92789136001	**HAM-PT-07**	SM 4500-S2D-2011	928049		
92789136002	**HAM-PT-08**	SM 4500-S2D-2011	928049		
92789136003	**HAM-PT-09**	SM 4500-S2D-2011	928049		
92789136004	**HAM-PT-10**	SM 4500-S2D-2011	928049		
92789136005	**HAM-PT-11**	SM 4500-S2D-2011	928049		
92789136006	**HAM-PT-12**	SM 4500-S2D-2011	928049		
92789136007	**HAM-PT-13**	SM 4500-S2D-2011	928049		
92789136008	**HAM-PT-14**	SM 4500-S2D-2011	928049		

REPORT OF LABORATORY ANALYSIS

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9800 Kincey Ave. Suite 100
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(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Hammond AP-1
Pace Project No.: 92789136

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92789136009	**HAM-PT-15**	SM 4500-S2D-2011	928049		
92789136010	**HAM-AP1-EB-01**	SM 4500-S2D-2011	928049		
92789136011	**HAM-AP1-FB-01**	SM 4500-S2D-2011	928049		
92789136012	**HAM-AP1-FD-01**	SM 4500-S2D-2011	928049		
92789136001	**HAM-PT-07**	EPA 300.0 Rev 2.1 1993	927500		
92789136002	**HAM-PT-08**	EPA 300.0 Rev 2.1 1993	927500		
92789136003	**HAM-PT-09**	EPA 300.0 Rev 2.1 1993	927500		
92789136004	**HAM-PT-10**	EPA 300.0 Rev 2.1 1993	927500		
92789136005	**HAM-PT-11**	EPA 300.0 Rev 2.1 1993	927500		
92789136006	**HAM-PT-12**	EPA 300.0 Rev 2.1 1993	927500		
92789136007	**HAM-PT-13**	EPA 300.0 Rev 2.1 1993	927500		
92789136008	**HAM-PT-14**	EPA 300.0 Rev 2.1 1993	927500		
92789136009	**HAM-PT-15**	EPA 300.0 Rev 2.1 1993	927500		
92789136010	**HAM-AP1-EB-01**	EPA 300.0 Rev 2.1 1993	927500		
92789136011	**HAM-AP1-FB-01**	EPA 300.0 Rev 2.1 1993	927500		
92789136012	**HAM-AP1-FD-01**	EPA 300.0 Rev 2.1 1993	927500		
92789136001	**HAM-PT-07**	EPA 3005A	928129	EPA 6020B	929339
92789136002	**HAM-PT-08**	EPA 3005A	928129	EPA 6020B	929339
92789136003	**HAM-PT-09**	EPA 3005A	928129	EPA 6020B	929339
92789136004	**HAM-PT-10**	EPA 3005A	928129	EPA 6020B	929339
92789136005	**HAM-PT-11**	EPA 3005A	928129	EPA 6020B	929339
92789136006	**HAM-PT-12**	EPA 3005A	928129	EPA 6020B	929339
92789136007	**HAM-PT-13**	EPA 3005A	928130	EPA 6020B	928804
92789136008	**HAM-PT-14**	EPA 3005A	928130	EPA 6020B	928804
92789136009	**HAM-PT-15**	EPA 3005A	928130	EPA 6020B	928804
92789136010	**HAM-AP1-EB-01**	EPA 3005A	928130	EPA 6020B	928804
92789136011	**HAM-AP1-FB-01**	EPA 3005A	928130	EPA 6020B	928804
92789136012	**HAM-AP1-FD-01**	EPA 3005A	928130	EPA 6020B	928804
92789136001	**HAM-PT-07**	EPA 7470A	928649	EPA 7470A	930709
92789136002	**HAM-PT-08**	EPA 7470A	928649	EPA 7470A	930709
92789136003	**HAM-PT-09**	EPA 7470A	928649	EPA 7470A	930709
92789136004	**HAM-PT-10**	EPA 7470A	928649	EPA 7470A	930709
92789136005	**HAM-PT-11**	EPA 7470A	928649	EPA 7470A	930709
92789136006	**HAM-PT-12**	EPA 7470A	928649	EPA 7470A	930709
92789136007	**HAM-PT-13**	EPA 7470A	928649	EPA 7470A	930709
92789136008	**HAM-PT-14**	EPA 7470A	928649	EPA 7470A	930709
92789136009	**HAM-PT-15**	EPA 7470A	928649	EPA 7470A	930709
92789136010	**HAM-AP1-EB-01**	EPA 7470A	928649	EPA 7470A	930709
92789136011	**HAM-AP1-FB-01**	EPA 7470A	928649	EPA 7470A	930709
92789136012	**HAM-AP1-FD-01**	EPA 7470A	928649	EPA 7470A	930709

REPORT OF LABORATORY ANALYSIS

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DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: CA Power

Project #:

WO# : 92789136

92789136

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace ☐ Other:

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No ☑ N/A

Date/Initials Person Examining Contents: 4/4/25 LD

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 214

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 2.5 Correction Factor: Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C

☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 2.5

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: W				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

Qualtrax ID: 69614

DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

WO# : 92789136

PM: BV Due Date: 04/21/25

CLIENT: 92- GP-HAM

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg
**Bottom half of box is to list number of bottles
***Check all unpreserved Nitrates for chlorine

Project #

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐

Client_____ Profile/EZ (Circle one)_____ Notes_____

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)		BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
CC																														
1		2	1				2	1																						
2		2	1				2	1																						
3		2	1				2	1																						
4		2	1				2	1																						
5		2	1				2	1																						
6		2	1				2	1																						
7		2	1				2	1																						
8		2	1				2	1																						
9		2	1				2	1																						
10		2	1				2	1																						
11		2	1				2	1																						
12		2	1				2	1																						

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers. .

Qualtrax ID: 60814

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

Section A Required Client Information		Section B Required Project Information		Section C Invoice Information	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co
Address:	Atlanta, GA	Copy To:	Geosyntec Contacts	Company Name:	
				Address:	
Email To:	SCS Contacts	Purchase Order No:	GPC82474-0001	Pace Quote Reference:	
Phone:	Fax:	Project Name:	Hammond AP-1	Pace Project Manager:	Bonnie Vang
Requested Due Date/TAT:	10 Day	Project Number:		Pace Profile #:	16483

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☑ OTHER CCR

Site Location STATE: GA

Valid Matrix Codes: DRINKING WATER DW; WATER WT; WASTE WATER WW; PRODUCT P; SOIL/SOLID SL; OIL OL; WIPE WP; AIR AR; OTHER OT; TISSUE TS

ITEM #	SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	COMPOSITE DATE	COMPOSITE TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N	Analysis Test: Chloride, Fluoride, Sulfate	Full App. III and IV metals	Major Ions (Profile 10E39-2)	TDS	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 92789136
	Requested Analysis Filtered (Y/N)																	N	N	N	N			
1	HAM-PT-07	WG	G	4/3/2025	0920			19	6	3		2					1		X	X	X	X	N	001
2	HAM-PT-08	WG	G	4/2/2025	1652			20	6	3		2					1		X	X	X	X	N	002
3	HAM-PT-09	WG	G	4/3/2025	1357			20	6	3		2					1		X	X	X	X	N	003
4	HAM-PT-10	WG	G	4/3/2025	1239			20	6	3		2					1		X	X	X	X	N	004
5	HAM-PT-11	WG	G	4/3/2025	1230			20	6	3		2					1		X	X	X	X	N	005
6	HAM-PT-12	WG	G	4/3/2025	1423			20	6	3		2					1		X	X	X	X	N	006
7	HAM-PT-13	WG	G	4/2/2025	1718			20	6	3		2					1		X	X	X	X	N	007
8	HAM-PT-14	WG	G	4/2/2025	1349			21	6	3		2					1		X	X	X	X	N	008
9	HAM-PT-15	WG	G	4/2/2025	1304			20	6	3		2					1		X	X	X	X	N	009
10	HAM-AP1-EB-01	WG	G	4/2/2025	1800			20	6	3		2					1		X	X	X	X	N	010
11	HAM-AP1-FB-01	WG	G	4/2/2025	1750			20	6	3		2					1		X	X	X	X	N	011
12	HAM-AP1-FD-01	WG	G	4/2/2025	0000			20	6	3		2					1		X	X	X	X	N	012

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Task Code: HAM-CCR-CA-20250402	Zain Webb / Geosyntec	4/4/25	1053	Ryan W. Williams / Pace	4/4/25	1053	
	Ryan W. Williams / Pace	4/4/25	1425	Client fedex	4/4/25	1425	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Zain Webb, Yongli Wang / Geosyntec Consultants, Inc

SIGNATURE of SAMPLER: Zain Webb, Yongli Wang DATE Signed (MM/DD/YY): 04/04/25

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-Feb-2007

Field Sampling Forms

Low-Flow Test Report:

Test Date / Time: 8/1/2024 12:13:26 PM
Project: GP-Plant Hammond
Operator Name: Jacob Tracy

Location Name: PT-07 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 37.4 ft** **Total Depth: 47.4 ft** **Initial Depth to Water: 25.7 ft**	**Pump Type: Peri** **Tubing Type: Poly** **Pump Intake From TOC: 42.4 ft** **Estimated Total Volume Pumped: 19.3 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.06 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850724**

Test Notes:
Appendix III and IV and Major Ions.

Weather Conditions:
Sunny, 90F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 5	
8/1/2024 12:13 PM	00:00	6.72 pH	19.56 °C	752.95 µS/cm	5.08 mg/L	29.30 NTU	-36.2 mV	25.74 ft	200.00 ml/min
8/1/2024 12:18 PM	05:00	6.72 pH	19.23 °C	754.48 µS/cm	4.38 mg/L	21.30 NTU	-35.1 mV	25.80 ft	200.00 ml/min
8/1/2024 12:23 PM	10:00	6.72 pH	19.33 °C	751.69 µS/cm	4.04 mg/L	--	-36.7 mV	25.80 ft	200.00 ml/min
8/1/2024 12:28 PM	15:00	6.72 pH	19.30 °C	749.59 µS/cm	3.78 mg/L	--	-35.6 mV	25.80 ft	200.00 ml/min
8/1/2024 12:31 PM	18:23	6.72 pH	19.19 °C	749.33 µS/cm	3.57 mg/L	8.79 NTU	-27.6 mV	25.80 ft	200.00 ml/min
8/1/2024 12:36 PM	23:23	6.72 pH	19.21 °C	744.37 µS/cm	3.29 mg/L	8.47 NTU	-36.5 mV	25.76 ft	200.00 ml/min
8/1/2024 12:41 PM	28:23	6.72 pH	19.07 °C	742.57 µS/cm	3.03 mg/L	9.30 NTU	-37.4 mV	25.76 ft	200.00 ml/min
8/1/2024 12:46 PM	33:23	6.72 pH	19.14 °C	768.07 µS/cm	1.26 mg/L	8.00 NTU	-38.2 mV	25.76 ft	200.00 ml/min
8/1/2024 12:51 PM	38:23	6.71 pH	19.31 °C	765.58 µS/cm	0.18 mg/L	7.60 NTU	-39.1 mV	25.76 ft	200.00 ml/min
8/1/2024 12:55 PM	41:34	6.71 pH	19.27 °C	760.52 µS/cm	0.17 mg/L	--	-38.8 mV	--	200.00 ml/min
8/1/2024 1:00 PM	46:34	6.71 pH	19.11 °C	762.94 µS/cm	0.16 mg/L	--	-40.6 mV	--	200.00 ml/min
8/1/2024 1:05 PM	51:48	6.72 pH	19.09 °C	765.90 µS/cm	0.15 mg/L	6.95 NTU	-32.2 mV	25.80 ft	200.00 ml/min
8/1/2024 1:10 PM	56:48	6.71 pH	19.29 °C	764.05 µS/cm	0.14 mg/L	5.58 NTU	-54.7 mV	25.76 ft	200.00 ml/min

8/1/2024 1:15 PM	01:01:48	6.71 pH	19.25 °C	763.14 µS/cm	0.13 mg/L	5.60 NTU	-54.8 mV	25.76 ft	200.00 ml/min
8/1/2024 1:20 PM	01:06:48	6.71 pH	19.26 °C	781.19 µS/cm	0.67 mg/L	6.10 NTU	-55.4 mV	25.76 ft	200.00 ml/min
8/1/2024 1:25 PM	01:11:48	6.70 pH	19.01 °C	782.39 µS/cm	0.35 mg/L	5.45 NTU	-55.0 mV	25.76 ft	200.00 ml/min
8/1/2024 1:30 PM	01:16:48	6.71 pH	18.77 °C	781.95 µS/cm	0.25 mg/L	6.10 NTU	-55.3 mV	25.76 ft	200.00 ml/min
8/1/2024 1:35 PM	01:21:48	6.71 pH	18.52 °C	779.42 µS/cm	0.19 mg/L	5.49 NTU	-55.8 mV	25.76 ft	200.00 ml/min
8/1/2024 1:40 PM	01:26:48	6.72 pH	18.29 °C	779.41 µS/cm	0.16 mg/L	5.51 NTU	-56.1 mV	25.76 ft	200.00 ml/min
8/1/2024 1:45 PM	01:31:48	6.72 pH	18.01 °C	777.88 µS/cm	0.14 mg/L	4.94 NTU	-56.7 mV	25.76 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-07	Grab.

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/1/2024 2:01:16 PM
Project: GP-Plant Hammond
Operator Name: Thomas Kessler

Location Name: PT-08 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 32.2 ft** **Total Depth: 42.2 ft** **Initial Depth to Water: 25.6 ft**	**Pump Type: Bladder** **Tubing Type: Poly** **Pump Intake From TOC: 37.2 ft** **Estimated Total Volume Pumped: 6 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 100 ml/min** **Final Draw Down: 0.01 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 968202**

Test Notes:
Appendix III and IV and Major Ions.

Weather Conditions:
Cloudy, 90 degrees.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
8/1/2024 2:01 PM	00:00	6.44 pH	23.87 °C	603.64 µS/cm	0.74 mg/L	60.00 NTU	-35.9 mV	25.60 ft	100.00 ml/min
8/1/2024 2:06 PM	05:00	6.44 pH	23.47 °C	610.86 µS/cm	0.57 mg/L	45.90 NTU	-38.8 mV	25.61 ft	100.00 ml/min
8/1/2024 2:11 PM	10:00	6.45 pH	23.43 °C	610.99 µS/cm	0.46 mg/L	35.30 NTU	-36.7 mV	25.61 ft	100.00 ml/min
8/1/2024 2:16 PM	15:00	6.47 pH	23.33 °C	611.56 µS/cm	0.39 mg/L	18.00 NTU	-39.0 mV	25.61 ft	100.00 ml/min
8/1/2024 2:21 PM	20:00	6.47 pH	23.21 °C	615.51 µS/cm	0.36 mg/L	12.40 NTU	-37.6 mV	25.61 ft	100.00 ml/min
8/1/2024 2:26 PM	25:00	6.48 pH	23.73 °C	610.46 µS/cm	0.37 mg/L	11.50 NTU	-40.3 mV	25.61 ft	100.00 ml/min
8/1/2024 2:31 PM	30:00	6.48 pH	23.05 °C	613.75 µS/cm	0.32 mg/L	9.31 NTU	-36.8 mV	25.61 ft	100.00 ml/min
8/1/2024 2:36 PM	35:00	6.49 pH	23.03 °C	614.07 µS/cm	0.28 mg/L	8.29 NTU	-38.4 mV	25.61 ft	100.00 ml/min
8/1/2024 2:41 PM	40:00	6.49 pH	23.06 °C	613.22 µS/cm	0.25 mg/L	6.85 NTU	-36.2 mV	25.61 ft	100.00 ml/min
8/1/2024 2:46 PM	45:00	6.48 pH	23.06 °C	611.29 µS/cm	0.24 mg/L	5.71 NTU	-37.0 mV	25.61 ft	100.00 ml/min
8/1/2024 2:51 PM	50:00	6.48 pH	23.17 °C	609.92 µS/cm	0.22 mg/L	4.96 NTU	-35.4 mV	25.61 ft	100.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-08	Grab.

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 7/31/2024 11:03:43 AM
Project: GP-Plant Hammond
Operator Name: Jacob Tracy

Location Name: PT-09 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 17.45 ft** **Total Depth: 27.45 ft** **Initial Depth to Water: 16.04 ft**	**Pump Type: Peri** **Tubing Type: Poly** **Pump Intake From TOC: 22.45 ft** **Estimated Total Volume Pumped: 30 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.03 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850724**

Test Notes:
Appendix III and IV and Major Ions.

Weather Conditions:
Sunny, 90F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 5	
7/31/2024 11:03 AM	00:00	6.82 pH	19.06 °C	734.89 µS/cm	0.74 mg/L	--	60.9 mV	16.05 ft	200.00 ml/min
7/31/2024 11:04 AM	00:28	6.82 pH	18.65 °C	740.20 µS/cm	0.73 mg/L	165.00 NTU	66.9 mV	16.05 ft	200.00 ml/min
7/31/2024 11:08 AM	04:25	6.84 pH	19.07 °C	726.49 µS/cm	0.54 mg/L	--	63.4 mV	16.05 ft	200.00 ml/min
7/31/2024 11:11 AM	07:29	6.86 pH	19.08 °C	707.43 µS/cm	2.61 mg/L	160.00 NTU	60.0 mV	16.05 ft	200.00 ml/min
7/31/2024 11:16 AM	12:29	6.88 pH	18.89 °C	722.61 µS/cm	0.86 mg/L	180.00 NTU	63.7 mV	16.01 ft	200.00 ml/min
7/31/2024 11:21 AM	17:29	6.89 pH	18.92 °C	722.32 µS/cm	0.66 mg/L	160.00 NTU	65.6 mV	16.01 ft	200.00 ml/min
7/31/2024 11:26 AM	22:29	6.90 pH	18.92 °C	716.02 µS/cm	2.01 mg/L	134.00 NTU	68.6 mV	16.01 ft	200.00 ml/min
7/31/2024 11:31 AM	27:29	6.89 pH	18.88 °C	710.39 µS/cm	1.92 mg/L	118.00 NTU	86.5 mV	16.01 ft	200.00 ml/min
7/31/2024 11:36 AM	32:29	6.90 pH	18.87 °C	718.11 µS/cm	3.03 mg/L	110.00 NTU	90.9 mV	16.01 ft	200.00 ml/min
7/31/2024 11:41 AM	37:29	6.90 pH	18.83 °C	712.97 µS/cm	2.73 mg/L	89.00 NTU	94.6 mV	16.01 ft	200.00 ml/min
7/31/2024 11:48 AM	44:54	6.91 pH	19.23 °C	701.77 µS/cm	2.23 mg/L	75.20 NTU	46.7 mV	16.01 ft	200.00 ml/min
7/31/2024 11:53 AM	49:54	6.91 pH	19.27 °C	700.61 µS/cm	1.92 mg/L	68.00 NTU	76.7 mV	16.01 ft	200.00 ml/min
7/31/2024 11:58 AM	54:54	6.91 pH	19.10 °C	708.67 µS/cm	1.79 mg/L	49.50 NTU	98.2 mV	16.01 ft	200.00 ml/min

7/31/2024 12:03 PM	59:54	6.91 pH	19.26 °C	711.41 µS/cm	1.61 mg/L	46.50 NTU	100.9 mV	16.01 ft	200.00 ml/min
7/31/2024 12:08 PM	01:04:54	6.91 pH	19.26 °C	706.11 µS/cm	1.44 mg/L	39.40 NTU	102.8 mV	16.01 ft	200.00 ml/min
7/31/2024 12:13 PM	01:09:54	6.90 pH	19.23 °C	704.29 µS/cm	1.31 mg/L	34.30 NTU	104.1 mV	16.01 ft	200.00 ml/min
7/31/2024 12:18 PM	01:14:54	6.90 pH	19.29 °C	694.68 µS/cm	1.12 mg/L	25.30 NTU	105.9 mV	16.01 ft	200.00 ml/min
7/31/2024 12:23 PM	01:19:54	6.89 pH	19.33 °C	701.33 µS/cm	0.31 mg/L	23.60 NTU	87.1 mV	16.01 ft	200.00 ml/min
7/31/2024 12:28 PM	01:24:54	6.89 pH	19.44 °C	701.86 µS/cm	0.25 mg/L	20.60 NTU	87.5 mV	16.01 ft	200.00 ml/min
7/31/2024 12:33 PM	01:29:54	6.89 pH	19.62 °C	699.17 µS/cm	0.23 mg/L	16.60 NTU	88.7 mV	16.01 ft	200.00 ml/min
7/31/2024 12:38 PM	01:34:54	6.89 pH	19.32 °C	699.66 µS/cm	0.22 mg/L	13.40 NTU	112.5 mV	16.01 ft	200.00 ml/min
7/31/2024 12:43 PM	01:39:54	6.89 pH	19.03 °C	712.89 µS/cm	1.97 mg/L	11.00 NTU	114.6 mV	16.01 ft	200.00 ml/min
7/31/2024 12:48 PM	01:44:54	6.90 pH	19.23 °C	704.69 µS/cm	2.33 mg/L	7.76 NTU	92.0 mV	16.01 ft	200.00 ml/min
7/31/2024 12:53 PM	01:49:54	6.89 pH	19.35 °C	692.34 µS/cm	3.03 mg/L	6.06 NTU	92.8 mV	16.01 ft	200.00 ml/min
7/31/2024 12:58 PM	01:54:54	6.89 pH	19.23 °C	697.30 µS/cm	3.04 mg/L	6.26 NTU	92.1 mV	16.01 ft	200.00 ml/min
7/31/2024 1:03 PM	01:59:54	6.89 pH	19.68 °C	691.30 µS/cm	2.72 mg/L	5.14 NTU	93.8 mV	16.01 ft	200.00 ml/min
7/31/2024 1:08 PM	02:04:54	6.89 pH	19.48 °C	691.94 µS/cm	2.35 mg/L	4.23 NTU	92.3 mV	16.01 ft	200.00 ml/min
7/31/2024 1:13 PM	02:09:54	6.88 pH	19.47 °C	702.40 µS/cm	1.20 mg/L	4.18 NTU	115.8 mV	16.01 ft	200.00 ml/min
7/31/2024 1:18 PM	02:14:54	6.90 pH	19.68 °C	699.31 µS/cm	0.94 mg/L	4.03 NTU	92.5 mV	16.01 ft	200.00 ml/min
7/31/2024 1:23 PM	02:19:54	6.89 pH	19.37 °C	700.56 µS/cm	0.69 mg/L	3.34 NTU	114.2 mV	16.01 ft	200.00 ml/min
7/31/2024 1:28 PM	02:24:54	6.90 pH	19.29 °C	699.88 µS/cm	0.61 mg/L	3.17 NTU	114.0 mV	16.01 ft	200.00 ml/min
7/31/2024 1:33 PM	02:29:54	6.90 pH	19.50 °C	699.07 µS/cm	0.54 mg/L	3.03 NTU	113.7 mV	16.01 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-09	Grab.

Low-Flow Test Report:

Test Date / Time: 8/1/2024 9:22:19 AM
Project: GP-Plant Hammond
Operator Name: Jacob Tracy

Location Name: PT-10 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 17.4 ft** **Total Depth: 27.4 ft** **Initial Depth to Water: 16.45 ft**	**Pump Type: Peri** **Tubing Type: Poly** **Pump Intake From TOC: 22.4 ft** **Estimated Total Volume Pumped: 9.5 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.05 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850724**

Test Notes:
Appendix III and IV and Major Ions.

Weather Conditions:
Clear, 90F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 5	
8/1/2024 9:22 AM	00:00	6.40 pH	17.74 °C	601.81 µS/cm	1.39 mg/L	2.15 NTU	98.7 mV	16.45 ft	200.00 ml/min
8/1/2024 9:27 AM	05:00	6.53 pH	17.02 °C	614.22 µS/cm	1.74 mg/L	4.25 NTU	117.1 mV	16.45 ft	200.00 ml/min
8/1/2024 9:32 AM	10:00	6.65 pH	17.15 °C	632.15 µS/cm	0.73 mg/L	2.75 NTU	91.7 mV	16.45 ft	200.00 ml/min
8/1/2024 9:37 AM	15:00	6.69 pH	17.00 °C	649.87 µS/cm	3.39 mg/L	2.30 NTU	114.3 mV	16.45 ft	200.00 ml/min
8/1/2024 9:42 AM	20:00	6.73 pH	16.90 °C	648.63 µS/cm	3.96 mg/L	1.25 NTU	96.6 mV	16.46 ft	200.00 ml/min
8/1/2024 9:47 AM	25:00	6.77 pH	16.96 °C	667.15 µS/cm	1.22 mg/L	1.60 NTU	122.6 mV	16.47 ft	200.00 ml/min
8/1/2024 9:52 AM	30:00	6.81 pH	17.30 °C	665.88 µS/cm	1.30 mg/L	1.41 NTU	98.5 mV	16.50 ft	200.00 ml/min
8/1/2024 9:57 AM	35:00	6.83 pH	17.27 °C	667.01 µS/cm	1.05 mg/L	1.63 NTU	123.0 mV	16.50 ft	200.00 ml/min
8/1/2024 10:02 AM	40:00	6.84 pH	17.32 °C	669.10 µS/cm	1.12 mg/L	1.57 NTU	124.1 mV	16.50 ft	200.00 ml/min
8/1/2024 10:07 AM	45:00	6.85 pH	17.27 °C	667.61 µS/cm	1.15 mg/L	1.34 NTU	124.6 mV	16.50 ft	200.00 ml/min

Samples

Sample ID:	Description:

HAM-PT-10	Grab.

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 7/31/2024 3:20:32 PM
Project: GP-Plant Hammond
Operator Name: Jacob Tracy

Location Name: PT-11 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 16.9 ft** **Total Depth: 26.9 ft** **Initial Depth to Water: 12.6 ft**	**Pump Type: Peri** **Tubing Type: Poly** **Pump Intake From TOC: 21.9 ft** **Estimated Total Volume Pumped: 18 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850724**

Test Notes:
Appendix III and IV and Major Ions.

Weather Conditions:
Cloudy, 90F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 5	
7/31/2024 3:20 PM	00:00	6.80 pH	19.78 °C	640.92 µS/cm	3.13 mg/L	85.70 NTU	78.2 mV	12.60 ft	200.00 ml/min
7/31/2024 3:25 PM	05:00	6.79 pH	19.43 °C	655.62 µS/cm	0.40 mg/L	76.70 NTU	74.0 mV	12.60 ft	200.00 ml/min
7/31/2024 3:30 PM	10:00	6.78 pH	19.14 °C	648.52 µS/cm	0.26 mg/L	109.50 NTU	76.6 mV	12.60 ft	200.00 ml/min
7/31/2024 3:35 PM	15:00	6.76 pH	19.19 °C	644.24 µS/cm	0.25 mg/L	103.00 NTU	56.4 mV	12.60 ft	200.00 ml/min
7/31/2024 3:40 PM	20:00	6.76 pH	19.18 °C	646.28 µS/cm	3.66 mg/L	101.00 NTU	61.5 mV	12.60 ft	200.00 ml/min
7/31/2024 3:45 PM	25:00	6.75 pH	19.18 °C	648.38 µS/cm	0.17 mg/L	89.20 NTU	50.9 mV	12.60 ft	200.00 ml/min
7/31/2024 3:51 PM	31:16	6.75 pH	19.06 °C	648.61 µS/cm	0.20 mg/L	72.10 NTU	56.4 mV	12.60 ft	200.00 ml/min
7/31/2024 3:56 PM	36:16	6.74 pH	19.26 °C	649.63 µS/cm	0.20 mg/L	64.60 NTU	47.0 mV	12.60 ft	200.00 ml/min
7/31/2024 4:01 PM	41:16	6.75 pH	19.15 °C	649.18 µS/cm	0.96 mg/L	52.10 NTU	46.4 mV	12.60 ft	200.00 ml/min
7/31/2024 4:06 PM	46:16	6.74 pH	19.04 °C	646.70 µS/cm	0.19 mg/L	40.30 NTU	45.6 mV	12.60 ft	200.00 ml/min
7/31/2024 4:11 PM	51:16	6.74 pH	18.91 °C	654.38 µS/cm	0.18 mg/L	34.60 NTU	49.9 mV	12.60 ft	200.00 ml/min
7/31/2024 4:16 PM	56:16	6.74 pH	18.96 °C	653.02 µS/cm	0.19 mg/L	24.10 NTU	49.1 mV	12.60 ft	200.00 ml/min

7/31/2024 4:21 PM	01:01:16	6.74 pH	18.98 °C	650.38 µS/cm	0.17 mg/L	10.20 NTU	48.2 mV	12.60 ft	200.00 ml/min
7/31/2024 4:26 PM	01:06:16	6.74 pH	18.92 °C	653.66 µS/cm	0.43 mg/L	9.70 NTU	49.0 mV	12.60 ft	200.00 ml/min
7/31/2024 4:31 PM	01:11:16	6.74 pH	18.99 °C	650.77 µS/cm	0.22 mg/L	11.00 NTU	42.6 mV	12.60 ft	200.00 ml/min
7/31/2024 4:36 PM	01:16:16	6.74 pH	18.66 °C	652.62 µS/cm	0.15 mg/L	7.20 NTU	47.6 mV	12.60 ft	200.00 ml/min
7/31/2024 4:41 PM	01:21:16	6.73 pH	18.72 °C	653.47 µS/cm	0.14 mg/L	6.69 NTU	40.7 mV	12.60 ft	200.00 ml/min
7/31/2024 4:46 PM	01:26:16	6.75 pH	18.03 °C	654.97 µS/cm	0.16 mg/L	4.77 NTU	47.3 mV	12.60 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-11	Grab.

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 7/31/2024 5:30:06 PM
Project: GP-Plant Hammond
Operator Name: Jacob Tracy

Location Name: PT-12 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 17.3 ft** **Total Depth: 27.3 ft** **Initial Depth to Water: 16.2 ft**	**Pump Type: Peri** **Tubing Type: Poly** **Pump Intake From TOC: 22.3 ft** **Estimated Total Volume Pumped: 8 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.04 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850724**

Test Notes:
Appendix III and IV and Major Ions.

Weather Conditions:
Sunny, 90F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 5	
7/31/2024 5:30 PM	00:00	6.39 pH	19.31 °C	545.95 µS/cm	4.52 mg/L	16.20 NTU	87.1 mV	12.45 ft	200.00 ml/min
7/31/2024 5:35 PM	05:00	6.54 pH	19.06 °C	689.72 µS/cm	0.83 mg/L	11.10 NTU	91.7 mV	12.45 ft	200.00 ml/min
7/31/2024 5:40 PM	10:00	6.64 pH	18.66 °C	691.44 µS/cm	0.83 mg/L	8.60 NTU	112.6 mV	12.49 ft	200.00 ml/min
7/31/2024 5:45 PM	15:00	6.69 pH	18.58 °C	685.60 µS/cm	0.85 mg/L	7.02 NTU	112.5 mV	12.49 ft	200.00 ml/min
7/31/2024 5:50 PM	20:00	6.71 pH	18.65 °C	679.86 µS/cm	0.86 mg/L	6.60 NTU	88.1 mV	12.49 ft	200.00 ml/min
7/31/2024 5:55 PM	25:00	6.70 pH	18.68 °C	679.76 µS/cm	0.87 mg/L	6.56 NTU	86.0 mV	12.49 ft	200.00 ml/min
7/31/2024 6:00 PM	30:00	6.71 pH	18.65 °C	676.96 µS/cm	0.89 mg/L	5.80 NTU	107.1 mV	12.49 ft	200.00 ml/min
7/31/2024 6:05 PM	35:00	6.74 pH	18.58 °C	678.41 µS/cm	1.00 mg/L	4.74 NTU	85.6 mV	12.49 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-12	Grab.
HAM-AP1-FD-01	Grab.

Low-Flow Test Report:

Test Date / Time: 8/1/2024 11:51:49 AM
Project: GP-Plant Hammond
Operator Name: Thomas Kessler

Location Name: PT-13 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 35.3 ft** **Total Depth: 45.3 ft** **Initial Depth to Water: 25.45 ft**	**Pump Type: Bladder** **Tubing Type: Poly** **Pump Intake From TOC: 40.3 ft** **Estimated Total Volume Pumped: 6 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 100 ml/min** **Final Draw Down: -0.05 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 968202**

Test Notes:
Appendix III and IV and Major Ions.

Weather Conditions:
Clear, 90F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
8/1/2024 11:51 AM	00:00	6.68 pH	23.54 °C	754.87 µS/cm	3.03 mg/L	12.20 NTU	-78.1 mV	25.40 ft	100.00 ml/min
8/1/2024 11:56 AM	05:00	6.69 pH	23.54 °C	750.77 µS/cm	2.83 mg/L	5.00 NTU	-77.7 mV	25.40 ft	100.00 ml/min
8/1/2024 12:01 PM	10:00	6.69 pH	23.47 °C	744.14 µS/cm	2.65 mg/L	6.26 NTU	-83.0 mV	25.40 ft	100.00 ml/min
8/1/2024 12:06 PM	15:00	6.69 pH	23.69 °C	741.73 µS/cm	2.41 mg/L	4.19 NTU	-80.0 mV	25.40 ft	100.00 ml/min
8/1/2024 12:11 PM	20:00	6.70 pH	23.69 °C	739.10 µS/cm	2.21 mg/L	3.39 NTU	-84.8 mV	25.40 ft	100.00 ml/min
8/1/2024 12:16 PM	25:00	6.69 pH	23.72 °C	733.93 µS/cm	2.04 mg/L	2.30 NTU	-85.5 mV	25.40 ft	100.00 ml/min
8/1/2024 12:21 PM	30:00	6.69 pH	23.85 °C	733.77 µS/cm	1.87 mg/L	1.88 NTU	-85.8 mV	25.40 ft	100.00 ml/min
8/1/2024 12:26 PM	35:00	6.68 pH	23.95 °C	730.22 µS/cm	1.72 mg/L	1.72 NTU	-86.3 mV	25.40 ft	100.00 ml/min
8/1/2024 12:31 PM	40:00	6.68 pH	24.08 °C	725.69 µS/cm	1.57 mg/L	2.12 NTU	-82.5 mV	25.40 ft	100.00 ml/min
8/1/2024 12:36 PM	45:00	6.68 pH	24.03 °C	720.46 µS/cm	1.46 mg/L	1.99 NTU	-82.2 mV	25.40 ft	100.00 ml/min
8/1/2024 12:41 PM	50:00	6.69 pH	23.83 °C	719.27 µS/cm	1.38 mg/L	2.53 NTU	-86.2 mV	25.40 ft	100.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-13	Grab.

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/1/2024 3:24:13 PM
Project: GP-Plant Hammond
Operator Name: Jacob Tracy

Location Name: PT-14 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 35.3 ft** **Total Depth: 45.3 ft** **Initial Depth to Water: 25.35 ft**	**Pump Type: Peri** **Tubing Type: Poly** **Pump Intake From TOC: 40.3 ft** **Estimated Total Volume Pumped: 17.5 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 850724**

Test Notes:
Appendix III and IV and Major Ions.

Weather Conditions:
Sunny, 90F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 5	
8/1/2024 3:24 PM	00:00	6.87 pH	19.42 °C	807.42 µS/cm	5.10 mg/L	6.66 NTU	-104.9 mV	25.35 ft	200.00 ml/min
8/1/2024 3:29 PM	05:00	6.86 pH	18.98 °C	807.86 µS/cm	4.81 mg/L	5.53 NTU	-103.1 mV	25.35 ft	200.00 ml/min
8/1/2024 3:34 PM	10:00	6.86 pH	18.87 °C	813.03 µS/cm	4.53 mg/L	4.43 NTU	-103.4 mV	25.35 ft	200.00 ml/min
8/1/2024 3:39 PM	15:00	6.85 pH	19.01 °C	813.88 µS/cm	4.20 mg/L	3.16 NTU	-104.2 mV	25.35 ft	200.00 ml/min
8/1/2024 3:44 PM	20:00	6.86 pH	19.02 °C	813.37 µS/cm	3.89 mg/L	2.86 NTU	-104.4 mV	25.35 ft	200.00 ml/min
8/1/2024 3:49 PM	25:00	6.86 pH	19.01 °C	812.66 µS/cm	3.60 mg/L	2.70 NTU	-104.6 mV	25.35 ft	200.00 ml/min
8/1/2024 3:54 PM	30:00	6.86 pH	19.01 °C	812.68 µS/cm	3.36 mg/L	2.24 NTU	-111.4 mV	25.35 ft	200.00 ml/min
8/1/2024 3:59 PM	35:00	6.85 pH	19.26 °C	812.80 µS/cm	3.10 mg/L	2.08 NTU	-105.1 mV	25.35 ft	200.00 ml/min
8/1/2024 4:07 PM	42:56	6.85 pH	19.24 °C	810.89 µS/cm	2.77 mg/L	1.96 NTU	-105.4 mV	25.35 ft	200.00 ml/min
8/1/2024 4:12 PM	47:56	6.85 pH	19.22 °C	809.21 µS/cm	2.63 mg/L	1.74 NTU	-105.4 mV	25.35 ft	200.00 ml/min
8/1/2024 4:17 PM	52:56	6.85 pH	19.29 °C	810.34 µS/cm	2.44 mg/L	1.70 NTU	-105.6 mV	25.35 ft	200.00 ml/min
8/1/2024 4:22 PM	57:56	6.85 pH	19.35 °C	809.68 µS/cm	2.26 mg/L	1.56 NTU	-105.9 mV	25.35 ft	200.00 ml/min
8/1/2024 4:27 PM	01:02:56	6.84 pH	19.39 °C	809.77 µS/cm	2.08 mg/L	1.44 NTU	-106.3 mV	25.35 ft	200.00 ml/min
8/1/2024 4:32 PM	01:07:56	6.85 pH	19.34 °C	809.78 µS/cm	1.93 mg/L	1.40 NTU	-106.0 mV	25.35 ft	200.00 ml/min

8/1/2024 4:37 PM	01:12:56	6.85 pH	19.35 °C	821.31 µS/cm	0.20 mg/L	1.22 NTU	-105.7 mV	25.35 ft	200.00 ml/min
8/1/2024 4:42 PM	01:17:56	6.85 pH	19.32 °C	824.22 µS/cm	0.16 mg/L	1.10 NTU	-113.6 mV	25.35 ft	200.00 ml/min
8/1/2024 4:47 PM	01:22:56	6.84 pH	19.24 °C	824.67 µS/cm	0.16 mg/L	0.96 NTU	-114.0 mV	25.35 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-14	Grab.

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/1/2024 9:16:53 AM
Project: GP-Plant Hammond
Operator Name: Thomas Kessler

Location Name: PT-15 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 35.3 ft** **Total Depth: 45.3 ft** **Initial Depth to Water: 25.25 ft**	**Pump Type: Bladder** **Tubing Type: Poly** **Pump Intake From TOC: 40.3 ft** **Estimated Total Volume Pumped: 9.5 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 100 ml/min** **Final Draw Down: 0.15 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 968202**

Test Notes:
Appendix III and IV and Major Ions.

Weather Conditions:
Clear, 80F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
8/1/2024 9:16 AM	00:00	6.63 pH	22.54 °C	696.34 µS/cm	6.57 mg/L	11.35 NTU	-42.2 mV	26.00 ft	100.00 ml/min
8/1/2024 9:21 AM	05:00	6.66 pH	22.79 °C	737.62 µS/cm	5.93 mg/L	6.99 NTU	-48.3 mV	25.30 ft	100.00 ml/min
8/1/2024 9:26 AM	10:00	6.70 pH	22.58 °C	731.68 µS/cm	5.45 mg/L	7.21 NTU	-57.9 mV	25.40 ft	100.00 ml/min
8/1/2024 9:31 AM	15:00	6.72 pH	22.82 °C	728.27 µS/cm	5.03 mg/L	1.84 NTU	-60.1 mV	25.40 ft	100.00 ml/min
8/1/2024 9:36 AM	20:00	6.73 pH	22.93 °C	726.92 µS/cm	4.67 mg/L	2.51 NTU	-62.3 mV	25.40 ft	100.00 ml/min
8/1/2024 9:41 AM	25:00	6.74 pH	23.04 °C	723.93 µS/cm	4.33 mg/L	2.49 NTU	-56.3 mV	25.40 ft	100.00 ml/min
8/1/2024 9:46 AM	30:00	6.75 pH	23.12 °C	720.83 µS/cm	4.06 mg/L	2.21 NTU	-65.5 mV	25.40 ft	100.00 ml/min
8/1/2024 9:51 AM	35:00	6.75 pH	23.15 °C	719.23 µS/cm	3.75 mg/L	1.54 NTU	-67.0 mV	25.40 ft	100.00 ml/min
8/1/2024 9:56 AM	40:00	6.75 pH	23.15 °C	723.09 µS/cm	3.50 mg/L	2.00 NTU	-67.4 mV	25.40 ft	100.00 ml/min
8/1/2024 10:01 AM	45:00	6.76 pH	23.33 °C	720.76 µS/cm	3.26 mg/L	2.94 NTU	-68.1 mV	25.40 ft	100.00 ml/min
8/1/2024 10:06 AM	50:00	6.76 pH	23.40 °C	717.67 µS/cm	3.03 mg/L	1.67 NTU	-69.5 mV	25.40 ft	100.00 ml/min
8/1/2024 10:11 AM	55:00	6.77 pH	23.38 °C	714.14 µS/cm	2.82 mg/L	2.00 NTU	-69.7 mV	25.40 ft	100.00 ml/min
8/1/2024 10:16 AM	01:00:00	6.77 pH	23.53 °C	711.13 µS/cm	2.60 mg/L	0.41 NTU	-69.7 mV	25.40 ft	100.00 ml/min

8/1/2024 10:21 AM	01:05:00	6.77 pH	23.55 °C	708.44 µS/cm	2.42 mg/L	0.38 NTU	-70.3 mV	25.40 ft	100.00 ml/min
8/1/2024 10:26 AM	01:10:00	6.78 pH	23.52 °C	708.27 µS/cm	2.24 mg/L	0.51 NTU	-71.1 mV	25.40 ft	100.00 ml/min
8/1/2024 10:31 AM	01:15:00	6.77 pH	23.62 °C	705.42 µS/cm	2.08 mg/L	1.78 NTU	-64.6 mV	25.40 ft	100.00 ml/min
8/1/2024 10:36 AM	01:20:00	6.78 pH	23.65 °C	708.56 µS/cm	2.02 mg/L	0.95 NTU	-72.7 mV	25.40 ft	100.00 ml/min
8/1/2024 10:41 AM	01:25:00	6.79 pH	23.76 °C	705.43 µS/cm	1.89 mg/L	0.82 NTU	-67.7 mV	25.40 ft	100.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-15	Grab.

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/12/2024 1:43:12 PM
Project: Plant Hammond
Operator Name: Elisabeth Russell

Location Name: MW-53 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 26 ft** **Total Depth: 36 ft** **Initial Depth to Water: 16.76 ft**	**Pump Type: Peristaltic** **Tubing Type: Poly** **Pump Intake From TOC: 31 ft** **Estimated Total Volume Pumped: 11 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.06 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080293**

Test Notes: Metals and Major Ions.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 10	+/- 10	+/- 0.5	
8/12/2024 1:43 PM	00:00	6.75 pH	21.18 °C	657.99 µS/cm	0.34 mg/L	1.59 NTU	107.6 mV	16.82 ft	200.00 ml/min
8/12/2024 1:48 PM	05:00	6.76 pH	21.37 °C	665.25 µS/cm	0.86 mg/L	1.43 NTU	83.3 mV	16.82 ft	200.00 ml/min
8/12/2024 1:53 PM	10:39	6.74 pH	21.49 °C	663.54 µS/cm	0.74 mg/L	1.30 NTU	90.9 mV	16.82 ft	200.00 ml/min
8/12/2024 1:58 PM	15:39	6.73 pH	21.69 °C	664.37 µS/cm	0.60 mg/L	1.19 NTU	77.9 mV	16.82 ft	200.00 ml/min
8/12/2024 2:03 PM	20:39	6.78 pH	21.49 °C	665.29 µS/cm	0.66 mg/L	0.97 NTU	96.2 mV	16.82 ft	200.00 ml/min
8/12/2024 2:08 PM	25:39	6.76 pH	21.44 °C	666.14 µS/cm	0.44 mg/L	0.83 NTU	94.6 mV	16.82 ft	200.00 ml/min
8/12/2024 2:13 PM	30:39	6.74 pH	21.55 °C	665.44 µS/cm	0.62 mg/L	0.76 NTU	74.3 mV	16.82 ft	200.00 ml/min
8/12/2024 2:18 PM	35:39	6.70 pH	21.65 °C	663.94 µS/cm	0.76 mg/L	0.71 NTU	73.8 mV	16.82 ft	200.00 ml/min
8/12/2024 2:23 PM	40:39	6.72 pH	21.56 °C	668.84 µS/cm	0.47 mg/L	0.54 NTU	89.5 mV	16.82 ft	200.00 ml/min
8/12/2024 2:28 PM	45:39	6.96 pH	23.26 °C	1.18 µS/cm	8.41 mg/L	0.53 NTU	70.3 mV	16.82 ft	200.00 ml/min
8/12/2024 2:33 PM	50:39	6.79 pH	22.94 °C	649.18 µS/cm	0.38 mg/L	0.51 NTU	70.7 mV	16.82 ft	200.00 ml/min
8/12/2024 2:38 PM	55:39	6.75 pH	22.04 °C	669.18 µS/cm	0.28 mg/L	0.47 NTU	86.8 mV	16.82 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-MW-53	Grab.

Low-Flow Test Report:

Test Date / Time: 8/12/2024 11:09:27 AM
Project: Plant Hammond
Operator Name: Elisabeth Russell

Location Name: MW-54 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 28 ft** **Total Depth: 38 ft** **Initial Depth to Water: 25.75 ft**	**Pump Type: Bladder** **Tubing Type: Poly** **Pump Intake From TOC: 33 ft** **Estimated Total Volume Pumped: 16 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.18 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080293**

Test Notes: Metals and Major Ions.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 10	+/- 10	+/- 0.5	
8/12/2024 11:09 AM	00:00	5.36 pH	22.98 °C	508.75 µS/cm	1.00 mg/L	90.90 NTU	203.0 mV	25.93 ft	200.00 ml/min
8/12/2024 11:14 AM	05:00	5.71 pH	22.36 °C	534.05 µS/cm	0.74 mg/L	88.70 NTU	143.2 mV	25.93 ft	200.00 ml/min
8/12/2024 11:19 AM	10:00	5.91 pH	22.39 °C	556.08 µS/cm	0.56 mg/L	85.30 NTU	155.4 mV	25.93 ft	200.00 ml/min
8/12/2024 11:24 AM	15:00	6.06 pH	22.32 °C	568.83 µS/cm	0.43 mg/L	84.00 NTU	105.8 mV	25.93 ft	200.00 ml/min
8/12/2024 11:29 AM	20:00	6.18 pH	22.45 °C	585.26 µS/cm	0.31 mg/L	67.30 NTU	115.5 mV	25.93 ft	200.00 ml/min
8/12/2024 11:34 AM	25:00	6.33 pH	22.52 °C	602.23 µS/cm	0.20 mg/L	40.40 NTU	76.7 mV	25.93 ft	200.00 ml/min
8/12/2024 11:39 AM	30:00	6.41 pH	22.42 °C	615.34 µS/cm	0.15 mg/L	30.30 NTU	66.2 mV	25.93 ft	200.00 ml/min
8/12/2024 11:44 AM	35:00	6.47 pH	22.45 °C	623.44 µS/cm	0.11 mg/L	27.60 NTU	58.1 mV	25.93 ft	200.00 ml/min
8/12/2024 11:49 AM	40:00	6.52 pH	22.45 °C	631.01 µS/cm	0.09 mg/L	22.80 NTU	48.8 mV	25.93 ft	200.00 ml/min
8/12/2024 11:54 AM	45:00	6.54 pH	22.34 °C	630.80 µS/cm	0.11 mg/L	19.70 NTU	46.7 mV	25.93 ft	200.00 ml/min
8/12/2024 11:59 AM	50:00	6.55 pH	22.40 °C	630.35 µS/cm	0.12 mg/L	16.70 NTU	43.6 mV	25.93 ft	200.00 ml/min
8/12/2024 12:04 PM	55:00	6.58 pH	22.48 °C	633.63 µS/cm	0.11 mg/L	14.80 NTU	35.2 mV	25.93 ft	200.00 ml/min
8/12/2024 12:09 PM	01:00:00	6.57 pH	22.45 °C	635.29 µS/cm	0.11 mg/L	13.20 NTU	35.2 mV	25.93 ft	200.00 ml/min
8/12/2024 12:14 PM	01:05:00	6.58 pH	22.44 °C	636.93 µS/cm	0.11 mg/L	9.70 NTU	34.9 mV	25.93 ft	200.00 ml/min
8/12/2024 12:19 PM	01:10:00	6.58 pH	22.52 °C	636.79 µS/cm	0.11 mg/L	7.60 NTU	34.6 mV	25.93 ft	200.00 ml/min

8/12/2024 12:24 PM	01:15:00	6.59 pH	22.50 °C	641.34 µS/cm	0.11 mg/L	6.70 NTU	31.6 mV	25.93 ft	200.00 ml/min
8/12/2024 12:29 PM	01:20:00	6.61 pH	22.47 °C	640.87 µS/cm	0.10 mg/L	5.00 NTU	29.5 mV	25.93 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-MW-54	Grab,

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/9/2024 11:27:52 AM
Project: Plant Hammond
Operator Name: Elisabeth Russell

Location Name: PT-07 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 36.73 ft** **Total Depth: 46.73 ft** **Initial Depth to Water: 25.65 ft**	**Pump Type: Bladder** **Tubing Type: Poly** **Pump Intake From TOC: 42 ft** **Estimated Total Volume Pumped: 7 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080293**

Test Notes: Metals.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 10	+/- 10	+/- 0.5	
8/9/2024 11:27 AM	00:00	6.96 pH	21.46 °C	770.26 µS/cm	0.20 mg/L	75.10 NTU	-82.1 mV	25.65 ft	200.00 ml/min
8/9/2024 11:32 AM	05:00	6.96 pH	21.11 °C	768.48 µS/cm	0.13 mg/L	40.30 NTU	-85.0 mV	25.65 ft	200.00 ml/min
8/9/2024 11:37 AM	10:00	6.95 pH	20.98 °C	773.06 µS/cm	0.11 mg/L	14.50 NTU	-92.6 mV	25.65 ft	200.00 ml/min
8/9/2024 11:42 AM	15:00	6.95 pH	20.94 °C	773.55 µS/cm	0.09 mg/L	10.30 NTU	-86.3 mV	25.65 ft	200.00 ml/min
8/9/2024 11:47 AM	20:00	6.94 pH	20.93 °C	771.79 µS/cm	0.07 mg/L	7.73 NTU	-85.9 mV	25.65 ft	200.00 ml/min
8/9/2024 11:52 AM	25:00	6.93 pH	20.89 °C	773.14 µS/cm	0.07 mg/L	4.19 NTU	-85.5 mV	25.65 ft	200.00 ml/min
8/9/2024 11:57 AM	30:00	6.93 pH	20.75 °C	772.04 µS/cm	0.06 mg/L	2.62 NTU	-85.3 mV	25.65 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-07	Grab.

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/8/2024 2:44:36 PM
Project: Plant Hammond
Operator Name: Elisabeth Russell

Location Name: PT-08 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 31.95 ft** **Total Depth: 41.95 ft** **Initial Depth to Water: 25.73 ft**	**Pump Type: Bladder** **Tubing Type: Poly** **Pump Intake From TOC: 36 ft** **Estimated Total Volume Pumped: 41.75 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.07 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080293**

Test Notes: Metals.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 10	+/- 10	+/- 0.5	
8/8/2024 2:44 PM	00:00	6.47 pH	22.98 °C	615.23 µS/cm	0.10 mg/L	10,000.0 NTU	-49.4 mV	25.79 ft	200.00 ml/min
8/8/2024 2:49 PM	05:00	6.36 pH	21.99 °C	636.89 µS/cm	0.10 mg/L	10,000.0 NTU	-54.1 mV	25.79 ft	200.00 ml/min
8/8/2024 2:54 PM	10:00	6.36 pH	21.60 °C	645.82 µS/cm	0.10 mg/L	10,000.0 NTU	-51.1 mV	25.80 ft	200.00 ml/min
8/8/2024 2:59 PM	15:00	6.35 pH	21.65 °C	647.74 µS/cm	0.09 mg/L	10,000.0 NTU	-40.7 mV	25.80 ft	200.00 ml/min
8/8/2024 3:04 PM	20:00	6.36 pH	21.77 °C	647.74 µS/cm	0.09 mg/L	10,000.0 NTU	-47.7 mV	25.80 ft	200.00 ml/min
8/8/2024 3:09 PM	25:00	6.36 pH	21.57 °C	647.59 µS/cm	0.08 mg/L	100,000 NTU	-47.2 mV	25.80 ft	200.00 ml/min
8/8/2024 3:14 PM	30:00	6.37 pH	21.19 °C	649.46 µS/cm	0.10 mg/L	105.10 NTU	-46.3 mV	25.80 ft	200.00 ml/min
8/8/2024 3:19 PM	35:00	6.37 pH	21.47 °C	650.34 µS/cm	0.07 mg/L	91.20 NTU	-38.0 mV	25.80 ft	200.00 ml/min
8/8/2024 3:24 PM	40:00	6.37 pH	21.42 °C	650.38 µS/cm	0.07 mg/L	87.30 NTU	-45.9 mV	25.80 ft	200.00 ml/min
8/8/2024 3:29 PM	45:00	6.36 pH	21.24 °C	655.64 µS/cm	0.07 mg/L	73.70 NTU	-37.2 mV	25.80 ft	200.00 ml/min
8/8/2024 3:34 PM	50:00	6.38 pH	21.06 °C	654.60 µS/cm	0.07 mg/L	72.10 NTU	-45.4 mV	25.80 ft	200.00 ml/min
8/8/2024 3:39 PM	55:00	6.38 pH	20.82 °C	656.42 µS/cm	0.06 mg/L	67.40 NTU	-36.8 mV	25.80 ft	200.00 ml/min
8/8/2024 3:44 PM	01:00:00	6.39 pH	20.67 °C	657.66 µS/cm	0.06 mg/L	50.10 NTU	-36.5 mV	25.80 ft	200.00 ml/min
8/8/2024 3:49 PM	01:05:00	6.39 pH	20.73 °C	657.09 µS/cm	0.06 mg/L	67.20 NTU	-45.1 mV	25.80 ft	200.00 ml/min
8/8/2024 3:54 PM	01:10:00	6.40 pH	20.70 °C	659.56 µS/cm	0.06 mg/L	55.30 NTU	-37.1 mV	25.80 ft	200.00 ml/min

8/8/2024 3:59 PM	01:15:00	6.41 pH	20.76 °C	659.08 µS/cm	0.05 mg/L	50.20 NTU	-45.6 mV	25.80 ft	200.00 ml/min
8/8/2024 4:04 PM	01:20:00	6.41 pH	20.72 °C	659.82 µS/cm	0.05 mg/L	47.00 NTU	-36.8 mV	25.80 ft	200.00 ml/min
8/8/2024 4:09 PM	01:25:00	6.40 pH	21.73 °C	661.32 µS/cm	0.04 mg/L	55.00 NTU	-47.6 mV	25.80 ft	200.00 ml/min
8/8/2024 4:14 PM	01:30:00	6.41 pH	21.69 °C	655.98 µS/cm	0.05 mg/L	62.00 NTU	-38.3 mV	25.80 ft	200.00 ml/min
8/8/2024 4:19 PM	01:35:00	6.41 pH	21.02 °C	650.30 µS/cm	0.07 mg/L	40.10 NTU	-35.6 mV	25.80 ft	200.00 ml/min
8/8/2024 4:24 PM	01:40:00	6.40 pH	20.64 °C	657.15 µS/cm	0.06 mg/L	33.20 NTU	-43.4 mV	25.80 ft	200.00 ml/min
8/8/2024 4:29 PM	01:45:00	6.42 pH	20.67 °C	661.90 µS/cm	0.09 mg/L	28.50 NTU	-35.8 mV	25.80 ft	200.00 ml/min
8/8/2024 4:34 PM	01:50:00	6.43 pH	21.21 °C	660.54 µS/cm	0.09 mg/L	22.40 NTU	-29.5 mV	25.80 ft	200.00 ml/min
8/8/2024 4:39 PM	01:55:00	6.43 pH	20.65 °C	659.43 µS/cm	0.07 mg/L	18.90 NTU	-39.2 mV	25.80 ft	200.00 ml/min
8/8/2024 4:44 PM	02:00:00	6.43 pH	20.49 °C	661.76 µS/cm	0.07 mg/L	16.70 NTU	-31.9 mV	25.80 ft	200.00 ml/min
8/8/2024 4:49 PM	02:05:00	6.44 pH	20.61 °C	662.62 µS/cm	0.06 mg/L	14.40 NTU	-41.1 mV	25.80 ft	200.00 ml/min
8/8/2024 4:54 PM	02:10:00	6.44 pH	20.54 °C	662.47 µS/cm	0.07 mg/L	13.70 NTU	-33.1 mV	25.80 ft	200.00 ml/min
8/8/2024 4:59 PM	02:15:00	6.44 pH	20.42 °C	664.23 µS/cm	0.10 mg/L	12.10 NTU	-40.9 mV	25.80 ft	200.00 ml/min
8/8/2024 5:04 PM	02:20:00	6.44 pH	20.48 °C	662.67 µS/cm	0.12 mg/L	12.50 NTU	-32.2 mV	25.80 ft	200.00 ml/min
8/8/2024 5:09 PM	02:25:00	6.44 pH	20.40 °C	661.85 µS/cm	0.12 mg/L	11.30 NTU	-39.5 mV	25.80 ft	200.00 ml/min
8/8/2024 5:14 PM	02:30:00	6.43 pH	20.48 °C	661.99 µS/cm	0.12 mg/L	10.20 NTU	-39.3 mV	25.80 ft	200.00 ml/min
8/8/2024 5:19 PM	02:35:00	6.45 pH	20.55 °C	663.86 µS/cm	0.12 mg/L	--	-40.4 mV	25.80 ft	200.00 ml/min
8/8/2024 5:24 PM	02:40:00	6.49 pH	20.39 °C	671.92 µS/cm	0.11 mg/L	--	-37.6 mV	25.80 ft	200.00 ml/min
8/8/2024 5:29 PM	02:45:00	6.46 pH	20.28 °C	663.31 µS/cm	0.11 mg/L	--	-32.0 mV	25.80 ft	200.00 ml/min
8/8/2024 5:34 PM	02:50:00	6.46 pH	20.27 °C	665.00 µS/cm	0.10 mg/L	--	-40.0 mV	25.80 ft	200.00 ml/min
8/8/2024 5:39 PM	02:55:00	6.47 pH	20.33 °C	668.23 µS/cm	0.10 mg/L	--	-32.0 mV	25.80 ft	200.00 ml/min
8/8/2024 5:44 PM	03:00:00	6.46 pH	20.25 °C	665.15 µS/cm	0.10 mg/L	--	-39.9 mV	25.80 ft	200.00 ml/min
8/8/2024 5:49 PM	03:05:00	6.47 pH	20.16 °C	666.16 µS/cm	0.10 mg/L	--	-31.9 mV	25.80 ft	200.00 ml/min
8/8/2024 5:54 PM	03:10:00	6.47 pH	20.11 °C	666.21 µS/cm	0.10 mg/L	--	-31.3 mV	25.80 ft	200.00 ml/min
8/8/2024 5:59 PM	03:15:00	6.47 pH	20.12 °C	667.84 µS/cm	0.09 mg/L	--	-31.5 mV	25.80 ft	200.00 ml/min
8/8/2024 6:04 PM	03:20:00	6.48 pH	20.10 °C	666.62 µS/cm	0.10 mg/L	4.89 NTU	-39.6 mV	25.80 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-08	Grab.

Low-Flow Test Report:

Test Date / Time: 8/6/2024 9:04:56 AM
Project: Plant Hammond
Operator Name: Elisabeth Russell

Location Name: PT-09 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 20 ft** **Total Depth: 30 ft** **Initial Depth to Water: 16.19 ft**	**Pump Type: Peri Pump** **Tubing Type: Poly** **Pump Intake From TOC: 25 ft** **Estimated Total Volume Pumped: 20 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 150 ml/min** **Final Draw Down: 0.06 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080293**

Test Notes: Metals.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 10	+/- 10	+/- 0.5	
8/6/2024 9:04 AM	00:00	6.90 pH	21.33 °C	694.59 µS/cm	0.25 mg/L	28.80 NTU	90.9 mV	16.21 ft	200.00 ml/min
8/6/2024 9:09 AM	05:00	6.94 pH	20.66 °C	687.99 µS/cm	0.16 mg/L	24.90 NTU	78.4 mV	16.23 ft	200.00 ml/min
8/6/2024 9:14 AM	10:00	6.90 pH	20.48 °C	683.26 µS/cm	0.17 mg/L	24.50 NTU	55.6 mV	16.25 ft	200.00 ml/min
8/6/2024 9:19 AM	15:00	6.91 pH	20.39 °C	681.26 µS/cm	0.18 mg/L	33.40 NTU	49.0 mV	16.25 ft	200.00 ml/min
8/6/2024 9:24 AM	20:00	6.96 pH	20.48 °C	678.29 µS/cm	0.19 mg/L	48.60 NTU	43.8 mV	16.25 ft	200.00 ml/min
8/6/2024 9:29 AM	25:00	6.95 pH	20.47 °C	669.78 µS/cm	0.19 mg/L	44.50 NTU	39.6 mV	16.25 ft	200.00 ml/min
8/6/2024 9:34 AM	30:00	6.98 pH	20.41 °C	664.70 µS/cm	0.19 mg/L	45.30 NTU	37.6 mV	16.25 ft	200.00 ml/min
8/6/2024 9:39 AM	35:00	6.96 pH	20.29 °C	681.10 µS/cm	0.18 mg/L	44.20 NTU	39.1 mV	16.25 ft	200.00 ml/min
8/6/2024 9:44 AM	40:00	6.97 pH	20.83 °C	685.50 µS/cm	0.17 mg/L	39.40 NTU	37.7 mV	16.25 ft	150.00 ml/min
8/6/2024 9:49 AM	45:00	6.98 pH	21.16 °C	680.55 µS/cm	0.15 mg/L	37.30 NTU	37.2 mV	16.25 ft	150.00 ml/min
8/6/2024 9:54 AM	50:00	6.97 pH	21.19 °C	666.37 µS/cm	0.14 mg/L	34.90 NTU	34.6 mV	16.25 ft	150.00 ml/min
8/6/2024 9:59 AM	55:00	6.96 pH	21.25 °C	675.24 µS/cm	0.13 mg/L	31.70 NTU	35.5 mV	16.25 ft	150.00 ml/min
8/6/2024 10:04 AM	01:00:00	6.97 pH	21.15 °C	662.27 µS/cm	0.11 mg/L	28.30 NTU	32.8 mV	16.25 ft	150.00 ml/min
8/6/2024 10:09 AM	01:05:00	6.98 pH	21.09 °C	663.76 µS/cm	0.20 mg/L	23.70 NTU	32.6 mV	16.25 ft	150.00 ml/min
8/6/2024 10:14 AM	01:10:00	6.97 pH	21.22 °C	667.07 µS/cm	0.26 mg/L	21.40 NTU	32.7 mV	16.25 ft	150.00 ml/min

8/6/2024 10:21 AM	01:16:51	6.96 pH	21.37 °C	664.36 µS/cm	0.22 mg/L	18.20 NTU	35.8 mV	16.25 ft	150.00 ml/min
8/6/2024 10:26 AM	01:21:51	6.97 pH	21.43 °C	679.71 µS/cm	0.12 mg/L	14.40 NTU	32.9 mV	16.25 ft	150.00 ml/min
8/6/2024 10:31 AM	01:26:51	6.96 pH	21.59 °C	680.60 µS/cm	0.11 mg/L	11.50 NTU	34.5 mV	16.25 ft	150.00 ml/min
8/6/2024 10:36 AM	01:31:51	6.97 pH	21.55 °C	673.65 µS/cm	0.23 mg/L	11.20 NTU	32.5 mV	16.25 ft	150.00 ml/min
8/6/2024 10:41 AM	01:36:51	6.95 pH	21.78 °C	675.72 µS/cm	0.16 mg/L	10.75 NTU	34.6 mV	16.25 ft	150.00 ml/min
8/6/2024 10:46 AM	01:41:51	6.94 pH	21.91 °C	677.83 µS/cm	0.16 mg/L	9.70 NTU	35.2 mV	16.25 ft	150.00 ml/min
8/6/2024 10:51 AM	01:46:51	6.95 pH	22.56 °C	660.67 µS/cm	0.17 mg/L	8.04 NTU	33.1 mV	16.25 ft	150.00 ml/min
8/6/2024 10:56 AM	01:51:51	6.95 pH	22.76 °C	661.05 µS/cm	0.23 mg/L	6.35 NTU	34.8 mV	16.25 ft	150.00 ml/min
8/6/2024 11:01 AM	01:56:51	6.93 pH	22.69 °C	660.00 µS/cm	0.22 mg/L	4.97 NTU	36.6 mV	16.25 ft	150.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-09	Grab.

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/5/2024 4:29:00 PM
Project: Plant Hammond
Operator Name: Elisabeth Russell

Location Name: PT-10 **Well Diameter: 2 in** **Screen Length: 10 ft** **Top of Screen: 21.07 ft** **Total Depth: 31.07 ft** **Initial Depth to Water: 16.21 ft**	**Pump Type: Bladder** **Tubing Type: Poly** **Pump Intake From TOC: 25 ft** **Estimated Total Volume Pumped: 6.5 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080293**

Test Notes: Metals.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 10	+/- 10	+/- 0.5	
8/5/2024 4:29 PM	00:00	6.85 pH	22.28 °C	657.87 µS/cm	0.12 mg/L	6.47 NTU	45.3 mV	16.21 ft	200.00 ml/min
8/5/2024 4:34 PM	05:00	6.87 pH	22.77 °C	645.50 µS/cm	0.11 mg/L	5.76 NTU	40.6 mV	16.25 ft	200.00 ml/min
8/5/2024 4:39 PM	10:00	6.86 pH	25.50 °C	648.42 µS/cm	0.11 mg/L	5.07 NTU	41.6 mV	16.27 ft	200.00 ml/min
8/5/2024 4:44 PM	15:00	6.84 pH	22.52 °C	643.67 µS/cm	0.14 mg/L	4.53 NTU	36.3 mV	16.29 ft	200.00 ml/min
8/5/2024 4:49 PM	20:00	6.85 pH	22.44 °C	644.34 µS/cm	0.20 mg/L	4.25 NTU	37.9 mV	16.29 ft	200.00 ml/min
8/5/2024 4:54 PM	25:00	6.88 pH	22.24 °C	639.26 µS/cm	0.13 mg/L	3.92 NTU	34.2 mV	16.30 ft	200.00 ml/min
8/5/2024 4:59 PM	30:00	6.87 pH	22.38 °C	644.85 µS/cm	0.11 mg/L	3.87 NTU	33.6 mV	16.30 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-10	Grab.

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/7/2024 9:16:00 AM
Project: Plant Hammond
Operator Name: Elisabeth Russell

Location Name: PT-11 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 16.57 ft** **Total Depth: 26.57 ft** **Initial Depth to Water: 12.82 ft**	**Pump Type: Peri Pump** **Tubing Type: Poly** **Pump Intake From TOC: 21 ft** **Estimated Total Volume Pumped: 16 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.01 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080293**

Test Notes: Metals.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 10	+/- 10	+/- 0.5	
8/7/2024 9:16 AM	00:00	6.79 pH	20.70 °C	635.11 µS/cm	0.15 mg/L	80.40 NTU	75.3 mV	12.82 ft	200.00 ml/min
8/7/2024 9:21 AM	05:00	6.76 pH	20.97 °C	624.08 µS/cm	0.10 mg/L	64.90 NTU	53.5 mV	12.82 ft	200.00 ml/min
8/7/2024 9:26 AM	10:00	6.77 pH	21.11 °C	628.51 µS/cm	0.09 mg/L	55.30 NTU	45.8 mV	12.82 ft	200.00 ml/min
8/7/2024 9:31 AM	15:00	6.78 pH	21.21 °C	631.86 µS/cm	0.08 mg/L	48.90 NTU	47.2 mV	12.83 ft	200.00 ml/min
8/7/2024 9:36 AM	20:00	6.77 pH	21.24 °C	632.52 µS/cm	0.07 mg/L	40.20 NTU	43.1 mV	12.83 ft	200.00 ml/min
8/7/2024 9:41 AM	25:00	6.77 pH	21.42 °C	636.36 µS/cm	0.06 mg/L	34.60 NTU	40.2 mV	12.83 ft	200.00 ml/min
8/7/2024 9:46 AM	30:00	6.78 pH	21.46 °C	630.54 µS/cm	0.06 mg/L	29.50 NTU	35.0 mV	12.83 ft	200.00 ml/min
8/7/2024 9:51 AM	35:00	6.79 pH	21.37 °C	632.23 µS/cm	0.06 mg/L	23.70 NTU	32.3 mV	12.83 ft	200.00 ml/min
8/7/2024 9:56 AM	40:00	6.79 pH	21.39 °C	628.01 µS/cm	0.05 mg/L	20.50 NTU	31.7 mV	12.83 ft	200.00 ml/min
8/7/2024 10:01 AM	45:00	6.78 pH	21.44 °C	635.60 µS/cm	0.05 mg/L	15.40 NTU	31.0 mV	12.83 ft	200.00 ml/min
8/7/2024 10:06 AM	50:00	6.78 pH	21.54 °C	634.09 µS/cm	0.05 mg/L	13.70 NTU	30.9 mV	12.83 ft	200.00 ml/min
8/7/2024 10:11 AM	55:00	6.79 pH	21.59 °C	635.39 µS/cm	0.06 mg/L	10.60 NTU	30.3 mV	12.83 ft	200.00 ml/min
8/7/2024 10:16 AM	01:00:00	6.78 pH	21.73 °C	636.52 µS/cm	0.08 mg/L	8.76 NTU	29.8 mV	12.83 ft	200.00 ml/min
8/7/2024 10:21 AM	01:05:00	6.78 pH	21.68 °C	640.31 µS/cm	0.07 mg/L	7.01 NTU	29.9 mV	12.83 ft	200.00 ml/min
8/7/2024 10:26 AM	01:10:00	6.79 pH	21.80 °C	642.12 µS/cm	0.06 mg/L	4.90 NTU	30.2 mV	12.83 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-11	Grab.

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/6/2024 12:29:39 PM
Project: Plant Hammond
Operator Name: Elisabeth Russell

Location Name: PT-12 **Well Diameter: 2 ft** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 16.78 ft** **Total Depth: 26.78 ft** **Initial Depth to Water: 12.67 ft**	**Pump Type: Peri Pump** **Tubing Type: Poly** **Pump Intake From TOC: 21 ft** **Estimated Total Volume Pumped: 39 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 150 ml/min** **Final Draw Down: 0.03 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080293**

Test Notes: Metals.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 10	+/- 10	+/- 0.5	
8/6/2024 12:29 PM	00:00	6.72 pH	23.33 °C	673.24 µS/cm	0.10 mg/L	10,000.0 NTU	44.1 mV	12.69 ft	200.00 ml/min
8/6/2024 12:34 PM	05:00	6.75 pH	23.32 °C	670.76 µS/cm	0.08 mg/L	10,000.0 NTU	43.8 mV	12.70 ft	200.00 ml/min
8/6/2024 12:39 PM	10:00	6.81 pH	23.30 °C	669.25 µS/cm	0.07 mg/L	10,000.0 NTU	39.5 mV	12.70 ft	200.00 ml/min
8/6/2024 12:44 PM	15:00	6.82 pH	23.39 °C	669.93 µS/cm	0.07 mg/L	10,000.0 NTU	37.2 mV	12.70 ft	200.00 ml/min
8/6/2024 12:49 PM	20:00	6.84 pH	23.12 °C	667.49 µS/cm	0.06 mg/L	10,000.0 NTU	35.9 mV	12.70 ft	200.00 ml/min
8/6/2024 12:54 PM	25:00	6.85 pH	23.34 °C	671.01 µS/cm	0.06 mg/L	10,000.0 NTU	37.6 mV	12.70 ft	200.00 ml/min
8/6/2024 1:05 PM	35:50	6.86 pH	23.23 °C	658.00 µS/cm	0.05 mg/L	90.50 NTU	41.8 mV	12.70 ft	200.00 ml/min
8/6/2024 1:10 PM	40:50	6.86 pH	23.03 °C	670.22 µS/cm	0.05 mg/L	86.70 NTU	37.4 mV	12.70 ft	200.00 ml/min
8/6/2024 1:15 PM	45:50	6.86 pH	23.16 °C	666.68 µS/cm	0.05 mg/L	81.00 NTU	34.2 mV	12.70 ft	200.00 ml/min
8/6/2024 1:20 PM	50:50	6.86 pH	23.49 °C	667.17 µS/cm	0.05 mg/L	74.50 NTU	33.7 mV	12.70 ft	200.00 ml/min
8/6/2024 1:25 PM	55:50	6.85 pH	22.75 °C	668.61 µS/cm	0.04 mg/L	68.50 NTU	35.8 mV	12.70 ft	200.00 ml/min
8/6/2024 1:30 PM	01:00:50	6.85 pH	23.12 °C	669.98 µS/cm	0.04 mg/L	70.20 NTU	35.6 mV	12.70 ft	200.00 ml/min
8/6/2024 1:35 PM	01:05:50	6.85 pH	23.07 °C	664.35 µS/cm	0.04 mg/L	69.30 NTU	33.4 mV	12.70 ft	200.00 ml/min
8/6/2024 1:40 PM	01:10:50	6.84 pH	23.16 °C	671.04 µS/cm	0.04 mg/L	75.20 NTU	35.0 mV	12.70 ft	200.00 ml/min
8/6/2024 1:45 PM	01:15:50	6.85 pH	22.77 °C	683.02 µS/cm	0.05 mg/L	70.10 NTU	32.8 mV	12.70 ft	150.00 ml/min

8/6/2024 1:50 PM	01:20:50	6.83 pH	24.87 °C	669.33 µS/cm	0.05 mg/L	68.50 NTU	33.0 mV	12.70 ft	150.00 ml/min
8/6/2024 1:55 PM	01:25:50	6.83 pH	25.19 °C	667.48 µS/cm	0.06 mg/L	63.40 NTU	32.8 mV	12.70 ft	150.00 ml/min
8/6/2024 2:00 PM	01:30:50	6.84 pH	24.95 °C	664.22 µS/cm	0.06 mg/L	54.30 NTU	33.1 mV	12.70 ft	150.00 ml/min
8/6/2024 2:05 PM	01:35:50	6.85 pH	25.13 °C	667.43 µS/cm	0.06 mg/L	56.10 NTU	34.7 mV	12.70 ft	150.00 ml/min
8/6/2024 2:10 PM	01:40:50	6.85 pH	25.69 °C	671.84 µS/cm	0.07 mg/L	53.10 NTU	34.7 mV	12.70 ft	150.00 ml/min
8/6/2024 2:15 PM	01:45:50	6.84 pH	25.42 °C	662.99 µS/cm	0.07 mg/L	47.70 NTU	33.4 mV	12.70 ft	150.00 ml/min
8/6/2024 2:20 PM	01:50:50	6.85 pH	24.78 °C	671.02 µS/cm	0.07 mg/L	41.50 NTU	34.6 mV	12.70 ft	150.00 ml/min
8/6/2024 2:25 PM	01:55:50	6.85 pH	25.00 °C	670.14 µS/cm	0.07 mg/L	39.20 NTU	33.1 mV	12.70 ft	150.00 ml/min
8/6/2024 2:32 PM	02:02:39	7.09 pH	25.88 °C	391.77 µS/cm	5.01 mg/L	37.60 NTU	39.1 mV	12.70 ft	150.00 ml/min
8/6/2024 2:37 PM	02:07:39	6.86 pH	25.01 °C	665.89 µS/cm	0.22 mg/L	35.70 NTU	34.2 mV	12.70 ft	150.00 ml/min
8/6/2024 2:42 PM	02:12:39	6.85 pH	24.74 °C	669.83 µS/cm	0.11 mg/L	33.20 NTU	33.1 mV	12.70 ft	150.00 ml/min
8/6/2024 2:45 PM	02:15:35	6.84 pH	24.88 °C	672.73 µS/cm	0.10 mg/L	30.70 NTU	34.8 mV	12.70 ft	150.00 ml/min
8/6/2024 2:50 PM	02:20:35	6.86 pH	25.14 °C	666.02 µS/cm	0.09 mg/L	29.30 NTU	33.3 mV	12.70 ft	150.00 ml/min
8/6/2024 2:53 PM	02:23:53	6.86 pH	24.74 °C	655.86 µS/cm	0.09 mg/L	27.50 NTU	34.2 mV	12.70 ft	150.00 ml/min
8/6/2024 2:54 PM	02:25:17	6.84 pH	24.59 °C	667.24 µS/cm	0.08 mg/L	25.40 NTU	33.6 mV	12.70 ft	150.00 ml/min
8/6/2024 2:59 PM	02:30:17	6.83 pH	24.91 °C	668.13 µS/cm	0.23 mg/L	23.20 NTU	33.2 mV	12.70 ft	150.00 ml/min
8/6/2024 3:04 PM	02:35:17	6.84 pH	24.70 °C	675.56 µS/cm	0.10 mg/L	21.80 NTU	34.6 mV	12.70 ft	150.00 ml/min
8/6/2024 3:09 PM	02:40:17	6.85 pH	23.84 °C	675.40 µS/cm	0.08 mg/L	17.00 NTU	33.2 mV	12.70 ft	150.00 ml/min
8/6/2024 3:14 PM	02:45:17	6.85 pH	24.53 °C	677.50 µS/cm	0.08 mg/L	15.20 NTU	34.4 mV	12.70 ft	150.00 ml/min
8/6/2024 3:19 PM	02:50:17	6.85 pH	24.53 °C	675.77 µS/cm	0.08 mg/L	14.00 NTU	33.2 mV	12.70 ft	150.00 ml/min
8/6/2024 3:24 PM	02:55:17	6.86 pH	24.24 °C	665.45 µS/cm	0.07 mg/L	13.10 NTU	33.3 mV	12.70 ft	150.00 ml/min
8/6/2024 3:29 PM	03:00:17	6.86 pH	23.42 °C	668.21 µS/cm	0.07 mg/L	12.00 NTU	33.0 mV	12.70 ft	150.00 ml/min
8/6/2024 3:34 PM	03:05:17	6.87 pH	23.85 °C	678.96 µS/cm	0.07 mg/L	11.80 NTU	34.0 mV	12.70 ft	150.00 ml/min
8/6/2024 3:39 PM	03:10:17	6.87 pH	24.65 °C	674.89 µS/cm	0.07 mg/L	11.20 NTU	33.0 mV	12.70 ft	150.00 ml/min
8/6/2024 3:44 PM	03:15:17	6.88 pH	24.46 °C	673.01 µS/cm	0.07 mg/L	8.70 NTU	32.9 mV	12.70 ft	150.00 ml/min
8/6/2024 3:49 PM	03:20:17	6.86 pH	24.57 °C	675.51 µS/cm	0.07 mg/L	8.30 NTU	34.6 mV	12.70 ft	150.00 ml/min
8/6/2024 3:54 PM	03:25:17	6.87 pH	24.93 °C	674.65 µS/cm	0.07 mg/L	8.00 NTU	35.2 mV	12.70 ft	150.00 ml/min
8/6/2024 3:59 PM	03:30:17	6.88 pH	24.92 °C	673.50 µS/cm	0.07 mg/L	7.78 NTU	33.3 mV	12.70 ft	150.00 ml/min
8/6/2024 4:04 PM	03:35:17	6.89 pH	24.71 °C	672.94 µS/cm	0.07 mg/L	6.20 NTU	35.1 mV	12.70 ft	150.00 ml/min

8/6/2024 4:09 PM	03:40:17	6.87 pH	23.83 °C	673.71 µS/cm	0.07 mg/L	5.61 NTU	35.4 mV	12.70 ft	150.00 ml/min
8/6/2024 4:14 PM	03:45:17	6.87 pH	23.49 °C	676.48 µS/cm	0.07 mg/L	4.98 NTU	34.9 mV	12.70 ft	150.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-12	Grab.
HAM-AP1-FD-01	Grab.

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/9/2024 1:25:50 PM
Project: Plant Hammond
Operator Name: Elisabeth Russell

Location Name: PT-13 **Well Diameter: 2 in** **Screen Length: 10 ft** **Top of Screen: 35 ft** **Total Depth: 45 ft** **Initial Depth to Water: 25.44 ft**	**Pump Type: Bladder** **Tubing Type: Poly** **Pump Intake From TOC: 40 ft** **Estimated Total Volume Pumped: 6.5 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080293**

Test Notes: Metals.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 10	+/- 10	+/- 0.5	
8/9/2024 1:25 PM	00:00	6.88 pH	22.08 °C	742.43 µS/cm	0.37 mg/L	25.70 NTU	-100.4 mV	25.44 ft	200.00 ml/min
8/9/2024 1:30 PM	05:00	6.87 pH	21.40 °C	747.46 µS/cm	0.31 mg/L	11.40 NTU	-104.4 mV	25.44 ft	200.00 ml/min
8/9/2024 1:35 PM	10:00	6.87 pH	21.25 °C	746.14 µS/cm	0.24 mg/L	7.68 NTU	-104.8 mV	25.44 ft	200.00 ml/min
8/9/2024 1:40 PM	15:00	6.87 pH	21.08 °C	747.52 µS/cm	0.20 mg/L	4.58 NTU	-105.6 mV	25.44 ft	200.00 ml/min
8/9/2024 1:45 PM	20:00	6.85 pH	21.11 °C	748.25 µS/cm	0.16 mg/L	3.07 NTU	-105.5 mV	25.44 ft	200.00 ml/min
8/9/2024 1:50 PM	25:00	6.85 pH	21.07 °C	746.76 µS/cm	0.14 mg/L	2.29 NTU	-105.0 mV	25.44 ft	200.00 ml/min
8/9/2024 1:55 PM	30:00	6.86 pH	20.66 °C	745.85 µS/cm	0.12 mg/L	1.58 NTU	-104.7 mV	25.44 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-13	Grab.

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/8/2024 12:46:44 PM
Project: Plant Hammond
Operator Name: Elisabeth Russell

Location Name: PT-14 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 35 ft** **Total Depth: 45 ft** **Initial Depth to Water: 25.4 ft**	**Pump Type: bladder** **Tubing Type: Poly** **Pump Intake From TOC: 40 ft** **Estimated Total Volume Pumped: 6.75 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080293**

Test Notes: Metals.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 10	+/- 10	+/- 0.5	
8/8/2024 12:46 PM	00:00	6.95 pH	21.42 °C	799.78 µS/cm	1.51 mg/L	9.70 NTU	-59.3 mV	25.40 ft	200.00 ml/min
8/8/2024 12:51 PM	05:00	6.96 pH	21.02 °C	797.82 µS/cm	1.60 mg/L	7.15 NTU	-61.5 mV	25.40 ft	200.00 ml/min
8/8/2024 12:56 PM	10:00	6.95 pH	21.10 °C	796.39 µS/cm	1.62 mg/L	6.30 NTU	-64.2 mV	25.40 ft	200.00 ml/min
8/8/2024 1:01 PM	15:00	6.96 pH	21.07 °C	793.51 µS/cm	1.76 mg/L	4.49 NTU	-66.0 mV	25.40 ft	200.00 ml/min
8/8/2024 1:06 PM	20:00	6.96 pH	20.97 °C	788.98 µS/cm	1.83 mg/L	3.77 NTU	-67.1 mV	25.40 ft	200.00 ml/min
8/8/2024 1:11 PM	25:00	6.95 pH	20.92 °C	788.30 µS/cm	1.87 mg/L	3.31 NTU	-67.8 mV	25.40 ft	200.00 ml/min
8/8/2024 1:16 PM	30:00	6.95 pH	20.85 °C	790.64 µS/cm	1.70 mg/L	2.96 NTU	-70.4 mV	25.40 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-14	Grab.

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/9/2024 9:32:36 AM
Project: Plant Hammond
Operator Name: Elisabeth Russell

Location Name: PT-15 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 35 ft** **Total Depth: 45 ft** **Initial Depth to Water: 25.19 ft**	**Pump Type: Bladder** **Tubing Type: Poly** **Pump Intake From TOC: 40 ft** **Estimated Total Volume Pumped: 8.5 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.01 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080293**

Test Notes: Metals.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 10	+/- 10	+/- 0.5	
8/9/2024 9:32 AM	00:00	6.94 pH	20.86 °C	716.09 µS/cm	0.25 mg/L	13.30 NTU	-72.6 mV	25.19 ft	200.00 ml/min
8/9/2024 9:34 AM	01:52	6.94 pH	20.79 °C	719.20 µS/cm	0.21 mg/L	10.30 NTU	-72.4 mV	25.19 ft	200.00 ml/min
8/9/2024 9:39 AM	06:52	6.94 pH	20.76 °C	715.73 µS/cm	0.16 mg/L	7.90 NTU	-70.7 mV	25.19 ft	200.00 ml/min
8/9/2024 9:44 AM	11:52	6.93 pH	20.75 °C	713.26 µS/cm	0.12 mg/L	5.40 NTU	-77.3 mV	25.20 ft	200.00 ml/min
8/9/2024 9:49 AM	16:52	6.93 pH	20.70 °C	709.96 µS/cm	0.11 mg/L	2.21 NTU	-69.5 mV	25.20 ft	200.00 ml/min
8/9/2024 9:54 AM	21:52	6.92 pH	20.62 °C	709.36 µS/cm	0.09 mg/L	2.00 NTU	-76.6 mV	25.20 ft	200.00 ml/min
8/9/2024 9:59 AM	26:52	6.92 pH	20.75 °C	708.64 µS/cm	0.07 mg/L	1.68 NTU	-77.2 mV	25.20 ft	200.00 ml/min
8/9/2024 10:04 AM	31:52	6.91 pH	20.77 °C	706.70 µS/cm	0.06 mg/L	1.07 NTU	-77.5 mV	25.20 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-15	Grab.

Low-Flow Test Report:

Test Date / Time: 8/14/2024 2:37:37 PM
Project: GP-Plant Hammond
Operator Name: Jacob Tracy

Location Name: PT-07 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 37.75 ft** **Total Depth: 47.75 ft** **Initial Depth to Water: 25.83 ft**	**Pump Type: Peristaltic** **Tubing Type: Polyethylene** **Pump Intake From TOC: 42.75 ft** **Estimated Total Volume Pumped: 7 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: -0.01 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080297**

Test Notes:
Full Appendix III and IV and major ions.

Weather Conditions:
Sunny, 90F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
8/14/2024 2:37 PM	00:00	7.03 pH	20.70 °C	707.12 µS/cm	0.42 mg/L	52.50 NTU	-87.7 mV	25.83 ft	200.00 ml/min
8/14/2024 2:42 PM	05:00	7.04 pH	20.38 °C	709.56 µS/cm	0.41 mg/L	12.30 NTU	-93.8 mV	25.85 ft	200.00 ml/min
8/14/2024 2:47 PM	10:00	7.04 pH	20.32 °C	707.84 µS/cm	0.34 mg/L	7.50 NTU	-88.2 mV	25.85 ft	200.00 ml/min
8/14/2024 2:52 PM	15:00	7.04 pH	20.42 °C	708.52 µS/cm	0.33 mg/L	4.32 NTU	-94.4 mV	25.82 ft	200.00 ml/min
8/14/2024 2:57 PM	20:00	7.04 pH	20.28 °C	708.14 µS/cm	0.31 mg/L	4.12 NTU	-94.2 mV	25.82 ft	200.00 ml/min
8/14/2024 3:02 PM	25:00	7.04 pH	20.30 °C	708.56 µS/cm	0.32 mg/L	3.85 NTU	-94.2 mV	25.82 ft	200.00 ml/min
8/14/2024 3:07 PM	30:00	7.04 pH	20.27 °C	708.53 µS/cm	0.30 mg/L	3.35 NTU	-94.4 mV	25.82 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-07	Grab.

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/14/2024 10:11:30 AM
Project: GP-Plant Hammond
Operator Name: Jacob Tracy

Location Name: PT-08 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 31.93 ft** **Total Depth: 41.93 ft** **Initial Depth to Water: 25.8 ft**	**Pump Type: Peristaltic** **Tubing Type: Polyethylene** **Pump Intake From TOC: 36.93 ft** **Estimated Total Volume Pumped: 19 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.01 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080297**

Test Notes:
Full Appendix III and IV and major ions.

Weather Conditions:
Sunny, 90F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
8/14/2024 10:11 AM	00:00	6.46 pH	21.43 °C	548.59 µS/cm	0.66 mg/L	31.90 NTU	-13.8 mV	25.75 ft	200.00 ml/min
8/14/2024 10:16 AM	05:00	6.48 pH	21.75 °C	549.98 µS/cm	0.58 mg/L	25.80 NTU	-15.4 mV	25.80 ft	200.00 ml/min
8/14/2024 10:21 AM	10:00	6.51 pH	21.37 °C	545.42 µS/cm	0.48 mg/L	15.80 NTU	-25.9 mV	25.82 ft	200.00 ml/min
8/14/2024 10:26 AM	15:00	6.51 pH	21.14 °C	572.54 µS/cm	0.42 mg/L	10.10 NTU	-26.0 mV	25.82 ft	200.00 ml/min
8/14/2024 10:31 AM	20:00	6.52 pH	21.67 °C	575.39 µS/cm	0.45 mg/L	12.81 NTU	-16.7 mV	25.91 ft	200.00 ml/min
8/14/2024 10:36 AM	25:00	6.52 pH	21.54 °C	576.74 µS/cm	0.43 mg/L	10.04 NTU	-16.8 mV	25.85 ft	200.00 ml/min
8/14/2024 10:41 AM	30:00	6.52 pH	21.70 °C	578.30 µS/cm	0.38 mg/L	8.84 NTU	-27.1 mV	25.81 ft	200.00 ml/min
8/14/2024 10:46 AM	35:00	6.53 pH	20.98 °C	582.26 µS/cm	0.39 mg/L	8.87 NTU	-26.5 mV	25.81 ft	200.00 ml/min
8/14/2024 10:51 AM	40:00	6.54 pH	21.27 °C	575.12 µS/cm	0.50 mg/L	8.89 NTU	-17.0 mV	25.81 ft	200.00 ml/min
8/14/2024 10:56 AM	45:00	6.55 pH	20.93 °C	584.74 µS/cm	0.43 mg/L	7.62 NTU	-17.0 mV	25.81 ft	200.00 ml/min
8/14/2024 11:01 AM	50:00	6.55 pH	20.96 °C	584.97 µS/cm	0.48 mg/L	7.11 NTU	-16.6 mV	25.81 ft	200.00 ml/min
8/14/2024 11:06 AM	55:00	6.55 pH	21.00 °C	586.54 µS/cm	0.41 mg/L	8.61 NTU	-17.4 mV	25.81 ft	200.00 ml/min
8/14/2024 11:11 AM	01:00:00	6.56 pH	20.96 °C	585.77 µS/cm	0.40 mg/L	7.71 NTU	-17.2 mV	25.81 ft	200.00 ml/min
8/14/2024 11:13 AM	01:01:51	6.56 pH	20.96 °C	586.43 µS/cm	0.46 mg/L		-17.0 mV	25.81 ft	200.00 ml/min
8/14/2024 11:18 AM	01:06:51	6.56 pH	20.87 °C	584.71 µS/cm	0.36 mg/L	6.42 NTU	-17.2 mV	25.81 ft	200.00 ml/min

8/14/2024 11:23 AM	01:11:51	6.56 pH	20.82 °C	586.77 µS/cm	0.32 mg/L	5.72 NTU	-17.4 mV	25.81 ft	200.00 ml/min
8/14/2024 11:28 AM	01:16:51	6.56 pH	21.36 °C	543.01 µS/cm	0.23 mg/L	4.84 NTU	-18.4 mV	25.81 ft	200.00 ml/min
8/14/2024 11:31 AM	01:19:42	6.57 pH	21.27 °C	585.10 µS/cm	0.33 mg/L		-17.6 mV	25.81 ft	200.00 ml/min
8/14/2024 11:36 AM	01:24:42	6.57 pH	21.17 °C	585.25 µS/cm	0.24 mg/L	4.09 NTU	-18.5 mV	25.81 ft	200.00 ml/min
8/14/2024 11:41 AM	01:29:42	6.58 pH	21.67 °C	585.20 µS/cm	0.26 mg/L	3.76 NTU	-19.7 mV	25.81 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-08	Grab.
HAM-AP2-FD-01	Grab.

Low-Flow Test Report:

Test Date / Time: 8/12/2024 1:59:42 PM
Project: GP-Plant Hammond
Operator Name: Jacob Tracy

Location Name: PT-09 **Well Diameter: 2 in** **Casing Type: PVC** **Top of Screen: 20.4 ft** **Total Depth: 30.4 ft** **Initial Depth to Water: 16.19 ft**	**Pump Type: Peristaltic** **Tubing Type: Poly** **Pump Intake From TOC: 25.4 ft** **Estimated Total Volume Pumped: 19 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.02 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080297**

Test Notes:
Full Appendix III and IV and major ions.

Weather Conditions:
Sunny, 95F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
8/12/2024 1:59 PM	00:00	7.04 pH	23.69 °C	632.63 µS/cm	0.25 mg/L	119.00 NTU	54.7 mV	16.19 ft	200.00 ml/min
8/12/2024 2:04 PM	05:00	7.04 pH	22.79 °C	627.53 µS/cm	0.14 mg/L	144.00 NTU	56.7 mV	16.19 ft	200.00 ml/min
8/12/2024 2:09 PM	10:00	7.04 pH	22.56 °C	622.54 µS/cm	0.10 mg/L	110.00 NTU	51.2 mV	16.19 ft	200.00 ml/min
8/12/2024 2:14 PM	15:00	7.05 pH	22.55 °C	612.07 µS/cm	0.08 mg/L	79.90 NTU	56.4 mV	16.21 ft	200.00 ml/min
8/12/2024 2:19 PM	20:00	7.05 pH	22.54 °C	609.97 µS/cm	0.07 mg/L	61.20 NTU	57.5 mV	16.21 ft	200.00 ml/min
8/12/2024 2:24 PM	25:00	7.05 pH	22.52 °C	608.69 µS/cm	0.06 mg/L	51.90 NTU	58.2 mV	16.21 ft	200.00 ml/min
8/12/2024 2:29 PM	30:00	7.04 pH	22.63 °C	605.17 µS/cm	0.06 mg/L	41.20 NTU	52.6 mV	16.21 ft	200.00 ml/min
8/12/2024 2:34 PM	35:00	7.05 pH	22.41 °C	603.33 µS/cm	0.05 mg/L	30.40 NTU	52.3 mV	16.21 ft	200.00 ml/min
8/12/2024 2:39 PM	40:00	7.04 pH	22.53 °C	603.01 µS/cm	0.05 mg/L	21.60 NTU	53.1 mV	16.21 ft	200.00 ml/min
8/12/2024 2:44 PM	45:00	7.04 pH	22.52 °C	606.39 µS/cm	0.05 mg/L	22.20 NTU	52.5 mV	16.21 ft	200.00 ml/min
8/12/2024 2:49 PM	50:00	7.04 pH	22.51 °C	605.93 µS/cm	0.04 mg/L	16.10 NTU	52.8 mV	16.21 ft	200.00 ml/min
8/12/2024 2:54 PM	55:00	7.03 pH	22.58 °C	611.42 µS/cm	0.05 mg/L	10.80 NTU	53.3 mV	16.21 ft	200.00 ml/min
8/12/2024 2:59 PM	01:00:00	7.04 pH	22.51 °C	607.78 µS/cm	0.05 mg/L	12.70 NTU	53.2 mV	16.21 ft	200.00 ml/min

8/12/2024 3:04 PM	01:05:00	7.03 pH	22.39 °C	606.45 µS/cm	0.05 mg/L	10.25 NTU	53.4 mV	16.21 ft	200.00 ml/min
8/12/2024 3:09 PM	01:10:00	7.03 pH	22.25 °C	605.06 µS/cm	0.04 mg/L	8.15 NTU	60.7 mV	16.21 ft	200.00 ml/min
8/12/2024 3:14 PM	01:15:00	7.03 pH	22.22 °C	607.43 µS/cm	0.05 mg/L	7.33 NTU	54.4 mV	16.21 ft	200.00 ml/min
8/12/2024 3:19 PM	01:20:00	7.04 pH	22.31 °C	600.28 µS/cm	0.04 mg/L	7.44 NTU	53.5 mV	16.21 ft	200.00 ml/min
8/12/2024 3:24 PM	01:25:00	7.03 pH	22.48 °C	607.30 µS/cm	0.05 mg/L	5.50 NTU	53.2 mV	16.21 ft	200.00 ml/min
8/12/2024 3:29 PM	01:30:00	7.02 pH	22.39 °C	601.60 µS/cm	0.04 mg/L	4.48 NTU	53.7 mV	16.21 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-09	Grab.

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/13/2024 1:30:32 PM
Project: GP-Plant Hammond
Operator Name: Jacob Tracy

Location Name: PT-10 **Well Diameter: 2 ft** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 20.4 ft** **Total Depth: 30.4 ft** **Initial Depth to Water: 16.31 ft**	**Pump Type: Peristaltic** **Tubing Type: Polyethylene** **Pump Intake From TOC: 25.4 ft** **Estimated Total Volume Pumped: 9 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.05 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080297**

Test Notes:
Full Appendix III and IV and major ions.

Weather Conditions:
Sunny, 90F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
8/13/2024 1:30 PM	00:00	6.94 pH	22.40 °C	584.40 µS/cm	0.10 mg/L	19.20 NTU	80.2 mV	16.36 ft	200.00 ml/min
8/13/2024 1:35 PM	05:00	6.98 pH	22.21 °C	570.15 µS/cm	0.07 mg/L	14.00 NTU	78.3 mV	16.36 ft	200.00 ml/min
8/13/2024 1:40 PM	10:00	6.99 pH	22.26 °C	571.81 µS/cm	0.06 mg/L	13.20 NTU	61.1 mV	16.36 ft	200.00 ml/min
8/13/2024 1:45 PM	15:00	7.00 pH	22.11 °C	574.99 µS/cm	0.05 mg/L	10.38 NTU	57.8 mV	16.36 ft	200.00 ml/min
8/13/2024 1:50 PM	20:00	7.02 pH	22.10 °C	574.65 µS/cm	0.05 mg/L	8.25 NTU	55.6 mV	16.36 ft	200.00 ml/min
8/13/2024 1:55 PM	25:00	7.04 pH	22.11 °C	572.86 µS/cm	0.04 mg/L	7.22 NTU	52.9 mV	16.36 ft	200.00 ml/min
8/13/2024 2:00 PM	30:00	7.03 pH	22.18 °C	576.68 µS/cm	0.04 mg/L	6.36 NTU	50.6 mV	16.36 ft	200.00 ml/min
8/13/2024 2:05 PM	35:00	7.04 pH	22.36 °C	577.14 µS/cm	0.04 mg/L	7.74 NTU	48.2 mV	16.36 ft	200.00 ml/min
8/13/2024 2:10 PM	40:00	7.05 pH	22.14 °C	579.22 µS/cm	0.04 mg/L	4.87 NTU	44.0 mV	16.36 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-10	Grab.

Low-Flow Test Report:

Test Date / Time: 8/12/2024 4:29:08 PM
Project: GP-Plant Hammond
Operator Name: Jacob Tracy

Location Name: PT-11 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 16.9 ft** **Total Depth: 26.9 ft**	**Pump Type: Peristaltic** **Tubing Type: Polyethylene** **Pump Intake From TOC: 21.9 ft** **Estimated Total Volume Pumped: 13 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.1 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080297**

Test Notes:
Full Appendix III and IV and major ions.

Weather Conditions:
Sunny, 90F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
8/12/2024 4:29 PM	00:00	7.09 pH	25.84 °C	567.77 µS/cm	1.06 mg/L	10.40 NTU	74.8 mV	12.80 ft	200.00 ml/min
8/12/2024 4:34 PM	05:00	6.98 pH	23.19 °C	587.37 µS/cm	0.33 mg/L	8.70 NTU	77.9 mV	12.80 ft	200.00 ml/min
8/12/2024 4:39 PM	10:00	6.97 pH	22.40 °C	590.46 µS/cm	0.18 mg/L	12.10 NTU	65.5 mV	12.80 ft	200.00 ml/min
8/12/2024 4:44 PM	15:00	6.96 pH	22.16 °C	588.95 µS/cm	0.12 mg/L	10.10 NTU	62.4 mV	12.80 ft	200.00 ml/min
8/12/2024 4:49 PM	20:00	6.96 pH	22.03 °C	585.50 µS/cm	0.09 mg/L	12.20 NTU	61.0 mV	12.80 ft	200.00 ml/min
8/12/2024 4:54 PM	25:00	6.95 pH	22.39 °C	587.66 µS/cm	0.09 mg/L	12.25 NTU	59.2 mV	12.80 ft	200.00 ml/min
8/12/2024 4:59 PM	30:00	6.96 pH	22.16 °C	585.61 µS/cm	0.08 mg/L	10.60 NTU	68.4 mV	12.80 ft	200.00 ml/min
8/12/2024 5:04 PM	35:00	6.95 pH	21.80 °C	585.79 µS/cm	0.07 mg/L	9.28 NTU	58.7 mV	12.80 ft	200.00 ml/min
8/12/2024 5:09 PM	40:00	6.96 pH	21.64 °C	586.43 µS/cm	0.07 mg/L	8.89 NTU	67.0 mV	12.80 ft	200.00 ml/min
8/12/2024 5:14 PM	45:00	6.95 pH	21.81 °C	586.17 µS/cm	0.07 mg/L	6.80 NTU	57.8 mV	12.80 ft	200.00 ml/min
8/12/2024 5:19 PM	50:00	6.96 pH	21.93 °C	583.91 µS/cm	0.07 mg/L	5.52 NTU	56.5 mV	12.80 ft	200.00 ml/min
8/12/2024 5:24 PM	55:00	6.97 pH	21.66 °C	586.44 µS/cm	0.07 mg/L	4.40 NTU	55.5 mV	12.80 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-11	Grab.

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/13/2024 10:10:04 AM
Project: GP-Plant Hammond
Operator Name: Jacob Tracy

Location Name: PT-12 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 17.3 ft** **Total Depth: 27.3 ft** **Initial Depth to Water: 12.74 ft**	**Pump Type: Peristaltic** **Tubing Type: Polyethylene** **Pump Intake From TOC: 22.3 ft** **Estimated Total Volume Pumped: 24 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.06 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080297**

Test Notes:
Full Appendix III and IV and major ions.

Weather Conditions:
Sunny, 90F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
8/13/2024 10:10 AM	00:00	6.42 pH	21.69 °C	576.35 µS/cm	0.38 mg/L	136.00 NTU	88.2 mV	12.74 ft	200.00 ml/min
8/13/2024 10:15 AM	05:00	6.62 pH	20.92 °C	596.75 µS/cm	0.15 mg/L	1,122.0 NTU	88.5 mV	12.74 ft	200.00 ml/min
8/13/2024 10:20 AM	10:00	6.72 pH	20.97 °C	602.68 µS/cm	0.10 mg/L	843.00 NTU	68.4 mV	12.74 ft	200.00 ml/min
8/13/2024 10:25 AM	15:00	6.80 pH	20.94 °C	605.58 µS/cm	0.08 mg/L	800.00 NTU	64.3 mV	12.74 ft	200.00 ml/min
8/13/2024 10:30 AM	20:00	6.87 pH	20.92 °C	607.73 µS/cm	0.06 mg/L	149.00 NTU	61.6 mV	12.75 ft	200.00 ml/min
8/13/2024 10:35 AM	25:00	6.92 pH	20.77 °C	606.67 µS/cm	0.05 mg/L	121.00 NTU	59.8 mV	12.80 ft	200.00 ml/min
8/13/2024 10:40 AM	30:00	6.94 pH	20.71 °C	608.00 µS/cm	0.04 mg/L	94.80 NTU	57.2 mV	12.80 ft	200.00 ml/min
8/13/2024 10:45 AM	35:00	6.96 pH	20.54 °C	608.46 µS/cm	0.04 mg/L	76.00 NTU	56.6 mV	12.80 ft	200.00 ml/min
8/13/2024 10:50 AM	40:00	6.97 pH	20.65 °C	608.99 µS/cm	0.04 mg/L	65.40 NTU	54.9 mV	12.80 ft	200.00 ml/min
8/13/2024 10:55 AM	45:00	6.97 pH	20.74 °C	610.01 µS/cm	0.03 mg/L	58.80 NTU	55.3 mV	12.80 ft	200.00 ml/min
8/13/2024 11:00 AM	50:00	6.98 pH	20.80 °C	606.00 µS/cm	0.03 mg/L	51.20 NTU	54.8 mV	12.80 ft	200.00 ml/min
8/13/2024 11:05 AM	55:00	6.99 pH	20.67 °C	608.15 µS/cm	0.03 mg/L	45.00 NTU	54.3 mV	12.80 ft	200.00 ml/min
8/13/2024 11:10 AM	01:00:00	6.99 pH	20.72 °C	611.72 µS/cm	0.03 mg/L	39.10 NTU	53.7 mV	12.80 ft	200.00 ml/min
8/13/2024 11:15 AM	01:05:00	6.99 pH	21.15 °C	604.63 µS/cm	0.02 mg/L	32.20 NTU	62.4 mV	12.80 ft	200.00 ml/min
8/13/2024 11:20 AM	01:10:00	6.99 pH	21.27 °C	605.50 µS/cm	0.03 mg/L	28.50 NTU	54.3 mV	12.80 ft	200.00 ml/min

8/13/2024 11:25 AM	01:15:00	7.00 pH	21.04 °C	607.32 µS/cm	0.02 mg/L	20.60 NTU	52.9 mV	12.80 ft	200.00 ml/min
8/13/2024 11:30 AM	01:20:00	7.02 pH	21.07 °C	606.99 µS/cm	0.02 mg/L	15.90 NTU	52.0 mV	12.80 ft	200.00 ml/min
8/13/2024 11:35 AM	01:25:00	7.03 pH	20.98 °C	606.60 µS/cm	0.02 mg/L	12.80 NTU	51.9 mV	12.80 ft	200.00 ml/min
8/13/2024 11:40 AM	01:30:00	7.02 pH	21.00 °C	608.04 µS/cm	0.02 mg/L	11.50 NTU	51.8 mV	12.80 ft	200.00 ml/min
8/13/2024 11:45 AM	01:35:00	7.03 pH	20.91 °C	604.37 µS/cm	0.02 mg/L	10.40 NTU	51.3 mV	12.80 ft	200.00 ml/min
8/13/2024 11:50 AM	01:40:00	7.03 pH	21.06 °C	604.70 µS/cm	0.02 mg/L	8.90 NTU	51.6 mV	12.80 ft	200.00 ml/min
8/13/2024 11:55 AM	01:45:00	7.04 pH	21.24 °C	606.52 µS/cm	0.02 mg/L	7.30 NTU	59.7 mV	12.80 ft	200.00 ml/min
8/13/2024 12:00 PM	01:50:00	7.03 pH	21.15 °C	606.68 µS/cm	0.02 mg/L	6.02 NTU	52.1 mV	12.80 ft	200.00 ml/min
8/13/2024 12:05 PM	01:55:00	7.04 pH	21.23 °C	606.97 µS/cm	0.02 mg/L	4.38 NTU	51.3 mV	12.80 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-12	Grab.

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/14/2024 4:15:57 PM
Project: GP-Plant Hammond
Operator Name: Jacob Tracy

Location Name: PT-13 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 35.3 ft** **Total Depth: 45.3 ft** **Initial Depth to Water: 25.62 ft**	**Pump Type: Peristaltic** **Tubing Type: Polyethylene** **Pump Intake From TOC: 40.3 ft** **Estimated Total Volume Pumped: 9 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080297**

Test Notes:
Full Appendix III and IV and major ions.

Weather Conditions:
Sunny, 90F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
8/14/2024 4:15 PM	00:00	6.94 pH	20.69 °C	699.73 µS/cm	0.61 mg/L	12.00 NTU	-87.2 mV	25.62 ft	200.00 ml/min
8/14/2024 4:20 PM	05:00	6.94 pH	20.51 °C	699.51 µS/cm	0.60 mg/L	6.16 NTU	-86.1 mV	25.62 ft	200.00 ml/min
8/14/2024 4:25 PM	10:00	6.94 pH	20.47 °C	695.73 µS/cm	0.59 mg/L	3.25 NTU	-89.6 mV	25.62 ft	200.00 ml/min
8/14/2024 4:30 PM	15:00	6.94 pH	20.36 °C	687.03 µS/cm	0.59 mg/L	3.88 NTU	-85.0 mV	25.62 ft	200.00 ml/min
8/14/2024 4:35 PM	20:00	6.94 pH	20.29 °C	698.54 µS/cm	0.53 mg/L	3.25 NTU	-88.7 mV	25.62 ft	200.00 ml/min
8/14/2024 4:40 PM	25:00	6.94 pH	20.33 °C	634.71 µS/cm	0.55 mg/L	3.05 NTU	-88.6 mV	25.62 ft	200.00 ml/min
8/14/2024 4:45 PM	30:00	6.94 pH	20.33 °C	699.01 µS/cm	0.57 mg/L	2.78 NTU	-87.9 mV	25.62 ft	200.00 ml/min
8/14/2024 4:50 PM	35:00	6.94 pH	20.20 °C	698.65 µS/cm	0.58 mg/L	2.67 NTU	-87.3 mV	25.62 ft	200.00 ml/min
8/14/2024 4:55 PM	40:00	6.93 pH	20.18 °C	699.08 µS/cm	0.59 mg/L	2.64 NTU	-86.8 mV	25.62 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-13	Grab.

Low-Flow Test Report:

Test Date / Time: 8/13/2024 4:29:45 PM
Project: GP-Plant Hammond
Operator Name: Jacob Tracy

Location Name: PT-14 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 35.3 ft** **Total Depth: 45.3 ft** **Initial Depth to Water: 25.4 ft**	**Pump Type: Peristaltic** **Tubing Type: Polyethylene** **Pump Intake From TOC: 40.3 ft** **Estimated Total Volume Pumped: 7 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.05 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080297**

Test Notes:
Full Appendix III and IV and major ions.

Weather Conditions:
Sunny, 90F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
8/13/2024 4:29 PM	00:00	6.93 pH	22.39 °C	731.64 µS/cm	0.30 mg/L	8.39 NTU	-83.1 mV	25.45 ft	200.00 ml/min
8/13/2024 4:34 PM	05:00	7.00 pH	22.16 °C	735.14 µS/cm	0.23 mg/L	7.62 NTU	-84.7 mV	25.45 ft	200.00 ml/min
8/13/2024 4:39 PM	10:00	7.03 pH	21.33 °C	736.29 µS/cm	0.19 mg/L	4.49 NTU	-103.0 mV	25.45 ft	200.00 ml/min
8/13/2024 4:44 PM	15:00	7.03 pH	21.07 °C	736.48 µS/cm	0.17 mg/L	4.12 NTU	-85.2 mV	25.45 ft	200.00 ml/min
8/13/2024 4:49 PM	20:00	7.03 pH	21.17 °C	735.60 µS/cm	0.16 mg/L	2.52 NTU	-85.2 mV	25.45 ft	200.00 ml/min
8/13/2024 4:54 PM	25:00	7.03 pH	21.21 °C	734.44 µS/cm	0.15 mg/L	1.10 NTU	-85.7 mV	25.45 ft	200.00 ml/min
8/13/2024 4:59 PM	30:00	7.03 pH	21.10 °C	734.47 µS/cm	0.15 mg/L	0.85 NTU	-102.9 mV	25.45 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-14	Grab.

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/14/2024 12:59:27 PM
Project: GP-Plant Hammond (2)
Operator Name: Jacob Tracy

Location Name: PT-15 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 35.3 ft** **Total Depth: 45.3 ft** **Initial Depth to Water: 25.42 ft**	**Pump Type: Peristaltic** **Tubing Type: Polyethylene** **Pump Intake From TOC: 40.3 ft** **Estimated Total Volume Pumped: 7 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080297**

Test Notes:
Full Appendix III and IV and major ions.

Weather Conditions:
Sunny, 90F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
8/14/2024 12:59 PM	00:00	6.93 pH	21.89 °C	659.93 µS/cm	0.53 mg/L	6.58 NTU	-68.8 mV	25.42 ft	200.00 ml/min
8/14/2024 1:04 PM	05:00	6.98 pH	21.40 °C	584.38 µS/cm	0.47 mg/L	6.12 NTU	-68.7 mV	25.42 ft	200.00 ml/min
8/14/2024 1:09 PM	10:00	6.98 pH	21.49 °C	660.98 µS/cm	0.43 mg/L	2.21 NTU	-76.6 mV	25.42 ft	200.00 ml/min
8/14/2024 1:14 PM	15:00	6.98 pH	21.54 °C	661.02 µS/cm	0.41 mg/L	1.37 NTU	-68.3 mV	25.42 ft	200.00 ml/min
8/14/2024 1:19 PM	20:00	6.98 pH	21.87 °C	659.35 µS/cm	0.41 mg/L	1.42 NTU	-76.6 mV	25.42 ft	200.00 ml/min
8/14/2024 1:24 PM	25:00	6.97 pH	21.85 °C	660.41 µS/cm	0.40 mg/L	1.13 NTU	-76.6 mV	25.42 ft	200.00 ml/min
8/14/2024 1:29 PM	30:00	6.97 pH	21.85 °C	660.80 µS/cm	0.39 mg/L	0.97 NTU	-76.1 mV	25.42 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-15	Grab.

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/21/2024 1:42:20 PM
Project: GP-Plant Hammond
Operator Name: Elisabeth Russell

Location Name: INW-03 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 17.3 ft** **Total Depth: 27.3 ft** **Initial Depth to Water: 13.03 ft**	**Pump Type: peri** **Tubing Type: Polyethylene** **Pump Intake From TOC: 22 ft** **Estimated Total Volume Pumped: 4 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.02 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965586**

Test Notes:
Field parameters only, no sample.
Fe = 0 mg/L Fe2+ = 0 mg/L.

Weather Conditions:
Sunny, 80 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
8/21/2024 1:42 PM	00:00	6.68 pH	22.71 °C	664.47 µS/cm	0.21 mg/L	36.10 NTU	50.7 mV	13.03 ft	200.00 ml/min
8/21/2024 1:47 PM	05:00	6.56 pH	21.50 °C	689.97 µS/cm	0.13 mg/L	31.80 NTU	46.3 mV	13.05 ft	200.00 ml/min
8/21/2024 1:52 PM	10:00	6.54 pH	21.39 °C	696.61 µS/cm	0.09 mg/L	24.40 NTU	43.4 mV	13.05 ft	200.00 ml/min
8/21/2024 1:57 PM	15:00	6.54 pH	20.88 °C	702.70 µS/cm	0.10 mg/L	18.20 NTU	41.9 mV	13.05 ft	200.00 ml/min
8/21/2024 1:58 PM	15:52	6.54 pH	20.83 °C	704.26 µS/cm	0.10 mg/L	18.20 NTU	41.7 mV	13.05 ft	200.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/20/2024 2:46:39 PM
Project: GP-Plant Hammond
Operator Name: Tristan Halterman

Location Name: INW-04 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 35.3 ft** **Total Depth: 45.3 ft** **Initial Depth to Water: 25.52 ft**	**Pump Type: Bladder** **Tubing Type: Polyethylene** **Pump Intake From TOC: 40.3 ft** **Estimated Total Volume Pumped: 4000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.11 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 968202**

Test Notes:
Field parameters only, no sample.
Fe = 5 mg/L Fe2+ = 10 mg/L.

Weather Conditions:
Sunny, 80 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
8/20/2024 2:46 PM	00:00	6.25 pH	24.23 °C	612.54 µS/cm	1.76 mg/L	9,999.0 NTU	-14.0 mV	25.63 ft	200.00 ml/min
8/20/2024 2:51 PM	05:00	6.31 pH	22.36 °C	636.28 µS/cm	0.91 mg/L	9,999.0 NTU	-21.2 mV	25.63 ft	200.00 ml/min
8/20/2024 2:56 PM	10:00	6.32 pH	22.12 °C	645.19 µS/cm	0.72 mg/L	9,999.0 NTU	-20.8 mV	25.63 ft	200.00 ml/min
8/20/2024 3:01 PM	15:00	6.32 pH	21.91 °C	648.61 µS/cm	0.59 mg/L	9,999.0 NTU	-25.2 mV	25.63 ft	200.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/20/2024 5:12:45 PM
Project: GP-Plant Hammond
Operator Name: Elisabeth Russell

Location Name: INW-05 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 34.15 ft** **Total Depth: 44.15 ft** **Initial Depth to Water: 25.06 ft**	**Pump Type: Bladder** **Tubing Type: Polyethylene** **Pump Intake From TOC: 40 ft** **Estimated Total Volume Pumped: 3 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965586**

Test Notes:
Field parameters only, no sample

Weather Conditions:
Sunny, 80 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
8/20/2024 5:12 PM	00:00	6.66 pH	26.77 °C	737.22 µS/cm	1.45 mg/L	1,000,000 NTU	-23.0 mV	25.06 ft	200.00 ml/min
8/20/2024 5:17 PM	05:00	6.74 pH	22.13 °C	778.22 µS/cm	0.77 mg/L	1,000,000 NTU	-50.1 mV	25.06 ft	200.00 ml/min
8/20/2024 5:22 PM	10:00	6.76 pH	21.55 °C	785.76 µS/cm	0.72 mg/L	1,000,000 NTU	-60.4 mV	25.06 ft	200.00 ml/min
8/20/2024 5:27 PM	15:00	6.78 pH	21.32 °C	794.71 µS/cm	0.65 mg/L	1,000,000 NTU	-69.5 mV	25.06 ft	200.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/20/2024 2:43:15 PM
Project: GP-Plant Hammond
Operator Name: Elisabeth Russell

Location Name: PT-07 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 37.75 ft** **Total Depth: 47.75 ft** **Initial Depth to Water: 25.67 ft**	**Pump Type: Bladder** **Tubing Type: Polyethylene** **Pump Intake From TOC: 42 ft** **Estimated Total Volume Pumped: 14 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.08 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965586**

Test Notes:
Metals.
Fe = >7 mg/L Fe2+ = 1.7 mg/L.

Weather Conditions:
Sunny, 80 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
8/20/2024 2:43 PM	00:00	6.71 pH	25.26 °C	766.38 µS/cm	2.02 mg/L	1,000,000 NTU	-49.4 mV	25.75 ft	200.00 ml/min
8/20/2024 2:48 PM	05:00	6.73 pH	22.88 °C	793.25 µS/cm	1.27 mg/L	1,000,000 NTU	-79.4 mV	25.75 ft	200.00 ml/min
8/20/2024 2:53 PM	10:00	6.76 pH	22.39 °C	795.18 µS/cm	0.88 mg/L	104.50 NTU	-86.6 mV	25.75 ft	200.00 ml/min
8/20/2024 2:58 PM	15:00	6.79 pH	22.24 °C	798.43 µS/cm	0.62 mg/L	36.20 NTU	-91.0 mV	25.75 ft	200.00 ml/min
8/20/2024 3:03 PM	20:00	6.80 pH	22.04 °C	794.75 µS/cm	0.50 mg/L	24.10 NTU	-92.1 mV	25.75 ft	200.00 ml/min
8/20/2024 3:08 PM	25:00	6.81 pH	22.08 °C	796.54 µS/cm	0.44 mg/L	15.80 NTU	-92.9 mV	25.75 ft	200.00 ml/min
8/20/2024 3:13 PM	30:00	6.82 pH	21.93 °C	796.72 µS/cm	0.34 mg/L	14.10 NTU	-92.9 mV	25.75 ft	200.00 ml/min
8/20/2024 3:18 PM	35:00	6.83 pH	22.02 °C	796.94 µS/cm	0.27 mg/L	12.20 NTU	-93.2 mV	25.75 ft	200.00 ml/min
8/20/2024 3:23 PM	40:00	6.83 pH	21.86 °C	794.82 µS/cm	0.23 mg/L	10.80 NTU	-92.5 mV	25.75 ft	200.00 ml/min
8/20/2024 3:28 PM	45:00	6.83 pH	21.90 °C	796.14 µS/cm	0.20 mg/L	7.76 NTU	-93.0 mV	25.75 ft	200.00 ml/min
8/20/2024 3:33 PM	50:00	6.83 pH	21.94 °C	794.57 µS/cm	0.18 mg/L	6.88 NTU	-91.7 mV	25.75 ft	200.00 ml/min
8/20/2024 3:38 PM	55:00	6.83 pH	22.08 °C	793.87 µS/cm	0.16 mg/L	6.31 NTU	-92.6 mV	25.75 ft	200.00 ml/min
8/20/2024 3:43 PM	01:00:00	6.84 pH	21.86 °C	789.42 µS/cm	0.15 mg/L	5.69 NTU	-92.0 mV	25.75 ft	200.00 ml/min
8/20/2024 3:48 PM	01:05:00	6.84 pH	21.73 °C	790.53 µS/cm	0.13 mg/L	5.00 NTU	-91.6 mV	25.75 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-07	Grab.

Low-Flow Test Report:

Test Date / Time: 8/20/2024 12:49:34 PM
Project: GP-Plant Hammond
Operator Name: Tristan Halterman

Location Name: PT-08 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 32.2 ft** **Total Depth: 42.2 ft** **Initial Depth to Water: 25.8 ft**	**Pump Type: Bladder** **Tubing Type: Polyethylene** **Pump Intake From TOC: 37.2 ft** **Estimated Total Volume Pumped: 8000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.02 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 968202**

Test Notes:
Metals.
Fe2+ = 6.0 mg/L Fe = 4.5 mg/L.

Weather Conditions:
Sunny, 80 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
8/20/2024 12:49 PM	00:00	6.39 pH	25.05 °C	650.04 µS/cm	1.86 mg/L	32.70 NTU	-26.3 mV	25.81 ft	200.00 ml/min
8/20/2024 12:54 PM	05:00	6.40 pH	22.35 °C	658.66 µS/cm	0.99 mg/L	18.80 NTU	-26.4 mV	25.81 ft	200.00 ml/min
8/20/2024 12:59 PM	10:00	6.40 pH	21.99 °C	678.95 µS/cm	0.54 mg/L	13.10 NTU	-30.0 mV	25.82 ft	200.00 ml/min
8/20/2024 1:04 PM	15:00	6.40 pH	22.00 °C	686.02 µS/cm	0.28 mg/L	11.90 NTU	-29.4 mV	25.82 ft	200.00 ml/min
8/20/2024 1:09 PM	20:00	6.40 pH	21.85 °C	688.87 µS/cm	0.19 mg/L	8.07 NTU	-29.8 mV	25.82 ft	200.00 ml/min
8/20/2024 1:14 PM	25:00	6.39 pH	21.90 °C	689.44 µS/cm	0.14 mg/L	7.41 NTU	-29.9 mV	25.82 ft	200.00 ml/min
8/20/2024 1:19 PM	30:00	6.40 pH	21.81 °C	689.81 µS/cm	0.11 mg/L	4.77 NTU	-30.2 mV	25.82 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-08	Grab.

Low-Flow Test Report:

Test Date / Time: 8/21/2024 1:19:31 PM
Project: GP-Plant Hammond
Operator Name: Tristan Halterman

Location Name: PT-09 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 20.47 ft** **Total Depth: 30.47 ft** **Initial Depth to Water: 16.45 ft**	**Pump Type: Peristaltic** **Tubing Type: Polyethylene** **Pump Intake From TOC: 25.47 ft** **Estimated Total Volume Pumped: 34000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 968202**

Test Notes:
Metals.
Fe2+ = 0 mg/L Fe = 0 mg/L.

Weather Conditions:
Sunny, 75 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
8/21/2024 1:19 PM	00:00	6.59 pH	24.79 °C	684.89 µS/cm	0.53 mg/L	90.80 NTU	49.4 mV	16.49 ft	200.00 ml/min
8/21/2024 1:24 PM	05:00	6.83 pH	22.62 °C	699.73 µS/cm	0.21 mg/L	104.00 NTU	44.8 mV	16.45 ft	200.00 ml/min
8/21/2024 1:29 PM	10:00	6.87 pH	21.83 °C	700.49 µS/cm	0.17 mg/L	93.50 NTU	43.6 mV	16.45 ft	200.00 ml/min
8/21/2024 1:34 PM	15:00	6.88 pH	22.23 °C	697.25 µS/cm	0.17 mg/L	82.60 NTU	45.7 mV	16.45 ft	200.00 ml/min
8/21/2024 1:39 PM	20:00	6.89 pH	21.81 °C	693.35 µS/cm	0.18 mg/L	74.90 NTU	49.5 mV	16.45 ft	200.00 ml/min
8/21/2024 1:44 PM	25:00	6.89 pH	21.99 °C	692.53 µS/cm	0.19 mg/L	70.40 NTU	51.3 mV	16.45 ft	200.00 ml/min
8/21/2024 1:49 PM	30:00	6.88 pH	22.26 °C	689.60 µS/cm	0.18 mg/L	64.10 NTU	52.8 mV	16.45 ft	200.00 ml/min
8/21/2024 1:54 PM	35:00	6.89 pH	22.11 °C	687.64 µS/cm	0.25 mg/L	65.90 NTU	54.6 mV	16.45 ft	200.00 ml/min
8/21/2024 1:59 PM	40:00	6.89 pH	21.60 °C	685.87 µS/cm	0.22 mg/L	58.50 NTU	56.3 mV	16.45 ft	200.00 ml/min
8/21/2024 2:04 PM	45:00	6.89 pH	21.87 °C	681.36 µS/cm	0.19 mg/L	57.00 NTU	57.8 mV	16.45 ft	200.00 ml/min
8/21/2024 2:09 PM	50:00	6.88 pH	22.10 °C	678.48 µS/cm	0.21 mg/L	52.40 NTU	59.0 mV	16.45 ft	200.00 ml/min
8/21/2024 2:14 PM	55:00	6.87 pH	22.42 °C	677.27 µS/cm	0.24 mg/L	43.80 NTU	60.3 mV	16.45 ft	200.00 ml/min
8/21/2024 2:19 PM	01:00:00	6.87 pH	22.64 °C	675.57 µS/cm	0.27 mg/L	38.60 NTU	62.1 mV	16.45 ft	200.00 ml/min

8/21/2024 2:24 PM	01:05:00	6.87 pH	22.08 °C	679.77 µS/cm	0.25 mg/L	34.90 NTU	64.9 mV	16.45 ft	200.00 ml/min
8/21/2024 2:29 PM	01:10:00	6.86 pH	22.28 °C	681.45 µS/cm	0.23 mg/L	30.70 NTU	66.5 mV	16.45 ft	200.00 ml/min
8/21/2024 2:34 PM	01:15:00	6.85 pH	23.02 °C	680.28 µS/cm	0.24 mg/L	27.60 NTU	67.9 mV	16.45 ft	200.00 ml/min
8/21/2024 2:39 PM	01:20:00	6.85 pH	22.43 °C	678.17 µS/cm	0.26 mg/L	23.40 NTU	86.1 mV	16.45 ft	200.00 ml/min
8/21/2024 2:44 PM	01:25:00	6.85 pH	22.82 °C	678.87 µS/cm	0.23 mg/L	19.80 NTU	72.7 mV	16.45 ft	200.00 ml/min
8/21/2024 2:49 PM	01:30:00	6.85 pH	22.03 °C	679.50 µS/cm	0.29 mg/L	19.00 NTU	74.7 mV	16.45 ft	200.00 ml/min
8/21/2024 2:54 PM	01:35:00	6.85 pH	22.73 °C	680.87 µS/cm	0.28 mg/L	17.40 NTU	74.4 mV	16.45 ft	200.00 ml/min
8/21/2024 2:59 PM	01:40:00	6.84 pH	23.01 °C	672.68 µS/cm	0.64 mg/L	15.40 NTU	94.4 mV	16.45 ft	200.00 ml/min
8/21/2024 3:04 PM	01:45:00	6.84 pH	23.02 °C	673.17 µS/cm	0.26 mg/L	11.30 NTU	100.8 mV	16.45 ft	200.00 ml/min
8/21/2024 3:09 PM	01:50:00	6.84 pH	23.15 °C	668.87 µS/cm	0.26 mg/L	11.30 NTU	85.1 mV	16.45 ft	200.00 ml/min
8/21/2024 3:14 PM	01:55:00	6.83 pH	23.33 °C	668.32 µS/cm	0.24 mg/L	10.21 NTU	86.9 mV	16.45 ft	200.00 ml/min
8/21/2024 3:19 PM	02:00:00	6.85 pH	23.31 °C	660.35 µS/cm	0.30 mg/L	10.09 NTU	90.4 mV	16.45 ft	200.00 ml/min
8/21/2024 3:24 PM	02:05:00	6.83 pH	23.06 °C	662.19 µS/cm	0.34 mg/L	9.75 NTU	93.0 mV	16.45 ft	200.00 ml/min
8/21/2024 3:29 PM	02:10:00	6.84 pH	23.15 °C	668.24 µS/cm	0.33 mg/L	7.04 NTU	95.0 mV	16.45 ft	200.00 ml/min
8/21/2024 3:34 PM	02:15:00	6.84 pH	23.24 °C	664.79 µS/cm	0.31 mg/L	7.25 NTU	96.7 mV	16.45 ft	200.00 ml/min
8/21/2024 3:39 PM	02:20:00	6.84 pH	23.07 °C	663.17 µS/cm	0.36 mg/L	6.79 NTU	99.5 mV	16.45 ft	200.00 ml/min
8/21/2024 3:44 PM	02:25:00	6.83 pH	23.20 °C	660.58 µS/cm	0.47 mg/L	5.84 NTU	128.4 mV	16.45 ft	200.00 ml/min
8/21/2024 3:49 PM	02:30:00	6.83 pH	23.16 °C	657.18 µS/cm	0.31 mg/L	5.47 NTU	107.0 mV	16.45 ft	200.00 ml/min
8/21/2024 3:54 PM	02:35:00	6.83 pH	23.47 °C	658.52 µS/cm	0.30 mg/L	5.12 NTU	106.9 mV	16.45 ft	200.00 ml/min
8/21/2024 3:59 PM	02:40:00	6.83 pH	23.47 °C	665.92 µS/cm	0.30 mg/L	4.84 NTU	108.0 mV	16.45 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-09	Grab.

Low-Flow Test Report:

Test Date / Time: 8/20/2024 4:04:07 PM
Project: GP-Plant Hammond
Operator Name: Tristan Halterman

Location Name: PT-10 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 20.45 ft** **Total Depth: 30.45 ft** **Initial Depth to Water: 16.51 ft**	**Pump Type: Peristaltic** **Tubing Type: Polyethylene** **Pump Intake From TOC: 25.45 ft** **Estimated Total Volume Pumped: 9000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.02 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 968202**

Test Notes:
Metals.
Fe2+ = 0 mg/L Fe = 0 mg/L

Weather Conditions:
Sunny, 85 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
8/20/2024 4:04 PM	00:00	6.65 pH	25.88 °C	624.90 µS/cm	0.54 mg/L	27.80 NTU	100.3 mV	16.53 ft	200.00 ml/min
8/20/2024 4:09 PM	05:00	6.81 pH	23.35 °C	667.66 µS/cm	0.35 mg/L	22.00 NTU	96.9 mV	16.53 ft	200.00 ml/min
8/20/2024 4:14 PM	10:00	6.84 pH	23.20 °C	672.19 µS/cm	0.68 mg/L	18.20 NTU	121.9 mV	16.53 ft	200.00 ml/min
8/20/2024 4:19 PM	15:00	6.86 pH	22.79 °C	670.00 µS/cm	0.50 mg/L	13.90 NTU	104.9 mV	16.53 ft	200.00 ml/min
8/20/2024 4:24 PM	20:00	6.85 pH	23.02 °C	673.75 µS/cm	0.53 mg/L	8.19 NTU	134.2 mV	16.53 ft	200.00 ml/min
8/20/2024 4:29 PM	25:00	6.87 pH	22.80 °C	669.19 µS/cm	0.48 mg/L	7.15 NTU	113.2 mV	16.53 ft	200.00 ml/min
8/20/2024 4:34 PM	30:00	6.87 pH	22.95 °C	668.09 µS/cm	0.43 mg/L	5.27 NTU	142.0 mV	16.53 ft	200.00 ml/min
8/20/2024 4:39 PM	35:00	6.86 pH	22.76 °C	664.93 µS/cm	0.48 mg/L	4.27 NTU	149.9 mV	16.53 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-10	Grab.

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/21/2024 9:28:33 AM
Project: GP-Plant Hammond
Operator Name: Tristan Halterman

Location Name: PT-11 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 16.9 ft** **Total Depth: 26.9 ft** **Initial Depth to Water: 13.05 ft**	**Pump Type: Peristaltic** **Tubing Type: Polyethylene** **Pump Intake From TOC: 21.9 ft** **Estimated Total Volume Pumped: 40000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.01 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 968202**

Test Notes:
Metals.
Fe2+ = 0 mg/L Fe = 0 mg/L

Weather Conditions:
Sunny, 70 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
8/21/2024 9:28 AM	00:00	6.52 pH	22.37 °C	623.82 µS/cm	0.68 mg/L	32.60 NTU	116.2 mV	13.05 ft	200.00 ml/min
8/21/2024 9:33 AM	05:00	6.77 pH	21.01 °C	664.09 µS/cm	0.60 mg/L	48.60 NTU	118.9 mV	13.05 ft	200.00 ml/min
8/21/2024 9:38 AM	10:00	6.83 pH	20.88 °C	665.81 µS/cm	0.43 mg/L	51.00 NTU	93.8 mV	13.05 ft	200.00 ml/min
8/21/2024 9:43 AM	15:00	6.84 pH	20.87 °C	662.73 µS/cm	0.41 mg/L	43.60 NTU	92.0 mV	13.05 ft	200.00 ml/min
8/21/2024 9:48 AM	20:00	6.84 pH	20.87 °C	662.25 µS/cm	0.23 mg/L	42.00 NTU	114.8 mV	13.05 ft	200.00 ml/min
8/21/2024 9:53 AM	25:00	6.84 pH	21.01 °C	652.56 µS/cm	0.38 mg/L	37.30 NTU	97.6 mV	13.05 ft	200.00 ml/min
8/21/2024 9:58 AM	30:00	6.84 pH	21.03 °C	656.12 µS/cm	0.71 mg/L	33.70 NTU	97.4 mV	13.05 ft	200.00 ml/min
8/21/2024 10:03 AM	35:00	6.84 pH	21.05 °C	653.76 µS/cm	0.67 mg/L	31.80 NTU	98.6 mV	13.05 ft	200.00 ml/min
8/21/2024 10:08 AM	40:00	6.84 pH	21.10 °C	650.65 µS/cm	0.62 mg/L	25.30 NTU	100.0 mV	13.05 ft	200.00 ml/min
8/21/2024 10:13 AM	45:00	6.83 pH	21.14 °C	651.54 µS/cm	0.36 mg/L	20.40 NTU	101.4 mV	13.05 ft	200.00 ml/min
8/21/2024 10:18 AM	50:00	6.84 pH	21.18 °C	651.14 µS/cm	0.34 mg/L	19.20 NTU	102.7 mV	13.06 ft	200.00 ml/min
8/21/2024 10:23 AM	55:00	6.84 pH	21.25 °C	652.48 µS/cm	0.33 mg/L	14.10 NTU	103.8 mV	13.06 ft	200.00 ml/min
8/21/2024 10:28 AM	01:00:00	6.84 pH	21.37 °C	644.58 µS/cm	0.30 mg/L	12.30 NTU	105.4 mV	13.06 ft	200.00 ml/min

8/21/2024 10:33 AM	01:05:00	6.83 pH	21.14 °C	652.90 µS/cm	0.26 mg/L	12.40 NTU	106.9 mV	13.06 ft	200.00 ml/min
8/21/2024 10:38 AM	01:10:00	6.83 pH	21.20 °C	645.92 µS/cm	0.23 mg/L	12.10 NTU	107.9 mV	13.07 ft	200.00 ml/min
8/21/2024 10:43 AM	01:15:00	6.83 pH	21.41 °C	647.42 µS/cm	0.21 mg/L	10.10 NTU	107.7 mV	13.07 ft	200.00 ml/min
8/21/2024 10:48 AM	01:20:00	6.83 pH	21.38 °C	646.55 µS/cm	0.19 mg/L	9.14 NTU	107.8 mV	13.07 ft	200.00 ml/min
8/21/2024 10:53 AM	01:25:00	6.83 pH	21.63 °C	640.34 µS/cm	0.17 mg/L	10.10 NTU	108.5 mV	13.07 ft	200.00 ml/min
8/21/2024 10:58 AM	01:30:00	6.83 pH	21.59 °C	641.03 µS/cm	0.15 mg/L	17.90 NTU	109.2 mV	13.07 ft	200.00 ml/min
8/21/2024 11:03 AM	01:35:00	6.84 pH	21.45 °C	639.79 µS/cm	0.14 mg/L	20.10 NTU	107.8 mV	13.07 ft	200.00 ml/min
8/21/2024 11:08 AM	01:40:00	6.83 pH	21.57 °C	638.02 µS/cm	0.30 mg/L	14.00 NTU	107.8 mV	13.07 ft	200.00 ml/min
8/21/2024 11:13 AM	01:45:00	6.84 pH	21.32 °C	641.18 µS/cm	0.14 mg/L	13.40 NTU	108.3 mV	13.07 ft	200.00 ml/min
8/21/2024 11:18 AM	01:50:00	6.83 pH	21.34 °C	643.12 µS/cm	0.12 mg/L	11.80 NTU	108.4 mV	13.07 ft	200.00 ml/min
8/21/2024 11:23 AM	01:55:00	6.83 pH	21.29 °C	638.13 µS/cm	0.15 mg/L	11.60 NTU	108.0 mV	13.07 ft	200.00 ml/min
8/21/2024 11:28 AM	02:00:00	6.83 pH	21.68 °C	635.85 µS/cm	0.17 mg/L	10.30 NTU	108.0 mV	13.07 ft	200.00 ml/min
8/21/2024 11:33 AM	02:05:00	6.83 pH	21.51 °C	618.42 µS/cm	0.15 mg/L	10.20 NTU	109.7 mV	13.07 ft	200.00 ml/min
8/21/2024 11:38 AM	02:10:00	6.82 pH	21.54 °C	632.64 µS/cm	0.14 mg/L	8.20 NTU	110.6 mV	13.07 ft	200.00 ml/min
8/21/2024 11:43 AM	02:15:00	6.83 pH	21.63 °C	644.80 µS/cm	0.09 mg/L	7.03 NTU	111.9 mV	13.07 ft	200.00 ml/min
8/21/2024 11:48 AM	02:20:00	6.83 pH	21.58 °C	639.36 µS/cm	0.10 mg/L	6.52 NTU	111.8 mV	13.07 ft	200.00 ml/min
8/21/2024 11:53 AM	02:25:00	6.82 pH	21.56 °C	642.97 µS/cm	0.11 mg/L	7.70 NTU	112.4 mV	13.07 ft	200.00 ml/min
8/21/2024 11:58 AM	02:30:00	6.84 pH	21.54 °C	641.87 µS/cm	0.11 mg/L	6.07 NTU	111.9 mV	13.07 ft	200.00 ml/min
8/21/2024 12:03 PM	02:35:00	6.82 pH	21.87 °C	646.04 µS/cm	0.08 mg/L	5.65 NTU	112.6 mV	13.07 ft	200.00 ml/min
8/21/2024 12:08 PM	02:40:00	6.82 pH	21.94 °C	656.34 µS/cm	0.08 mg/L	5.87 NTU	113.3 mV	13.07 ft	200.00 ml/min
8/21/2024 12:13 PM	02:45:00	6.82 pH	21.85 °C	653.48 µS/cm	0.13 mg/L	5.03 NTU	114.1 mV	13.07 ft	200.00 ml/min
8/21/2024 12:18 PM	02:50:00	6.82 pH	21.90 °C	658.01 µS/cm	1.20 mg/L	4.24 NTU	146.1 mV	13.07 ft	200.00 ml/min
8/21/2024 12:23 PM	02:55:00	6.83 pH	21.37 °C	659.04 µS/cm	1.39 mg/L	4.16 NTU	120.4 mV	13.06 ft	200.00 ml/min
8/21/2024 12:28 PM	03:00:00	6.82 pH	21.45 °C	676.95 µS/cm	0.17 mg/L	3.86 NTU	115.2 mV	13.06 ft	200.00 ml/min
8/21/2024 12:33 PM	03:05:00	6.83 pH	21.69 °C	665.53 µS/cm	0.16 mg/L	3.66 NTU	113.5 mV	13.06 ft	200.00 ml/min
8/21/2024 12:38 PM	03:10:00	6.82 pH	21.37 °C	660.19 µS/cm	0.12 mg/L	4.40 NTU	112.5 mV	13.06 ft	200.00 ml/min

Samples

Sample ID:	Description:

HAM-PT-11	Grab.

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/21/2024 9:34:46 AM
Project: GP-Plant Hammond
Operator Name: Elisabeth Russell

Location Name: PT-12 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 17.3 ft** **Total Depth: 27.3 ft** **Initial Depth to Water: 12.81 ft**	**Pump Type: peri** **Tubing Type: Polyethylene** **Pump Intake From TOC: 22 ft** **Estimated Total Volume Pumped: 39.5 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.02 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965586**

Test Notes:
Metals.
Fe = 0 mg/l Fe2+ = 0 mg/L.

Weather Conditions:
Sunny, 80 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
8/21/2024 9:34 AM	00:00	6.77 pH	19.61 °C	663.10 µS/cm	0.54 mg/L	1,000,000 NTU	59.0 mV	12.81 ft	200.00 ml/min
8/21/2024 9:39 AM	05:00	6.76 pH	19.54 °C	705.81 µS/cm	0.42 mg/L	1,000,000 NTU	60.1 mV	12.81 ft	200.00 ml/min
8/21/2024 9:44 AM	10:00	6.79 pH	19.52 °C	706.47 µS/cm	0.43 mg/L	1,000,000 NTU	60.2 mV	12.83 ft	200.00 ml/min
8/21/2024 9:49 AM	15:00	6.81 pH	19.54 °C	710.86 µS/cm	0.35 mg/L	1,000,000 NTU	60.7 mV	12.83 ft	200.00 ml/min
8/21/2024 9:54 AM	20:00	6.83 pH	19.59 °C	711.61 µS/cm	0.44 mg/L	1,000,000 NTU	61.0 mV	12.83 ft	200.00 ml/min
8/21/2024 9:59 AM	25:00	6.83 pH	19.59 °C	705.66 µS/cm	0.42 mg/L	1,000,000 NTU	62.0 mV	12.83 ft	200.00 ml/min
8/21/2024 10:04 AM	30:00	6.85 pH	19.65 °C	709.78 µS/cm	0.29 mg/L	1,000,000 NTU	61.6 mV	12.83 ft	200.00 ml/min
8/21/2024 10:09 AM	35:00	6.84 pH	19.71 °C	713.72 µS/cm	0.33 mg/L	1,000,000 NTU	62.3 mV	12.83 ft	200.00 ml/min
8/21/2024 10:14 AM	40:00	6.84 pH	19.75 °C	711.28 µS/cm	0.29 mg/L	99.80 NTU	62.5 mV	12.83 ft	200.00 ml/min
8/21/2024 10:19 AM	45:00	6.84 pH	19.85 °C	711.20 µS/cm	0.36 mg/L	100.30 NTU	62.7 mV	12.83 ft	200.00 ml/min
8/21/2024 10:24 AM	50:00	6.84 pH	19.90 °C	709.98 µS/cm	0.33 mg/L	97.80 NTU	62.7 mV	12.83 ft	200.00 ml/min
8/21/2024 10:29 AM	55:00	6.83 pH	20.00 °C	707.97 µS/cm	0.33 mg/L	91.90 NTU	62.9 mV	12.83 ft	200.00 ml/min
8/21/2024 10:34 AM	01:00:00	6.83 pH	20.21 °C	708.28 µS/cm	0.34 mg/L	87.70 NTU	63.0 mV	12.83 ft	200.00 ml/min
8/21/2024 10:39 AM	01:05:00	6.46 pH	21.03 °C	666.98 µS/cm	0.66 mg/L	82.40 NTU	70.2 mV	12.83 ft	200.00 ml/min
8/21/2024 10:44 AM	01:10:00	6.44 pH	21.65 °C	683.12 µS/cm	0.11 mg/L	65.60 NTU	65.6 mV	12.83 ft	200.00 ml/min

8/21/2024 10:49 AM	01:15:00	6.69 pH	21.41 °C	696.79 µS/cm	0.08 mg/L	77.50 NTU	63.7 mV	12.83 ft	200.00 ml/min
8/21/2024 10:54 AM	01:20:00	6.75 pH	21.46 °C	698.40 µS/cm	0.20 mg/L	83.60 NTU	63.7 mV	12.83 ft	200.00 ml/min
8/21/2024 10:59 AM	01:25:00	6.75 pH	21.54 °C	700.10 µS/cm	0.23 mg/L	75.40 NTU	63.9 mV	12.83 ft	200.00 ml/min
8/21/2024 11:04 AM	01:30:00	6.78 pH	21.50 °C	696.46 µS/cm	0.27 mg/L	87.20 NTU	63.3 mV	12.83 ft	200.00 ml/min
8/21/2024 11:09 AM	01:35:00	6.80 pH	21.75 °C	695.34 µS/cm	0.09 mg/L	75.00 NTU	62.9 mV	12.83 ft	200.00 ml/min
8/21/2024 11:14 AM	01:40:00	6.81 pH	21.45 °C	698.08 µS/cm	0.07 mg/L	68.00 NTU	63.0 mV	12.83 ft	200.00 ml/min
8/21/2024 11:19 AM	01:45:00	6.81 pH	21.59 °C	697.62 µS/cm	0.07 mg/L	55.10 NTU	62.9 mV	12.83 ft	200.00 ml/min
8/21/2024 11:24 AM	01:50:00	6.81 pH	21.62 °C	696.40 µS/cm	0.06 mg/L	49.10 NTU	63.0 mV	12.83 ft	200.00 ml/min
8/21/2024 11:29 AM	01:55:00	6.81 pH	22.06 °C	697.54 µS/cm	0.06 mg/L	45.60 NTU	62.0 mV	12.83 ft	200.00 ml/min
8/21/2024 11:34 AM	02:00:00	6.81 pH	21.83 °C	693.25 µS/cm	0.06 mg/L	40.00 NTU	62.5 mV	12.83 ft	200.00 ml/min
8/21/2024 11:39 AM	02:05:00	6.81 pH	21.79 °C	695.41 µS/cm	0.06 mg/L	37.80 NTU	62.7 mV	12.83 ft	200.00 ml/min
8/21/2024 11:44 AM	02:10:00	6.81 pH	21.72 °C	696.34 µS/cm	0.06 mg/L	33.40 NTU	62.8 mV	12.83 ft	200.00 ml/min
8/21/2024 11:49 AM	02:15:00	6.81 pH	21.88 °C	697.88 µS/cm	0.06 mg/L	30.40 NTU	63.0 mV	12.83 ft	200.00 ml/min
8/21/2024 11:54 AM	02:20:00	6.81 pH	21.90 °C	699.22 µS/cm	0.06 mg/L	24.30 NTU	62.0 mV	12.83 ft	200.00 ml/min
8/21/2024 11:59 AM	02:25:00	6.81 pH	22.04 °C	699.08 µS/cm	0.06 mg/L	21.30 NTU	61.9 mV	12.83 ft	200.00 ml/min
8/21/2024 12:04 PM	02:30:00	6.81 pH	22.26 °C	695.27 µS/cm	0.06 mg/L	18.30 NTU	61.8 mV	12.83 ft	200.00 ml/min
8/21/2024 12:09 PM	02:35:00	6.81 pH	22.40 °C	695.46 µS/cm	0.06 mg/L	14.50 NTU	61.2 mV	12.83 ft	200.00 ml/min
8/21/2024 12:14 PM	02:40:00	6.82 pH	22.28 °C	690.47 µS/cm	0.05 mg/L	10.71 NTU	61.9 mV	12.83 ft	200.00 ml/min
8/21/2024 12:19 PM	02:45:00	6.82 pH	22.59 °C	694.41 µS/cm	0.06 mg/L	9.97 NTU	61.8 mV	12.83 ft	200.00 ml/min
8/21/2024 12:24 PM	02:50:00	6.83 pH	21.74 °C	695.58 µS/cm	0.06 mg/L	8.88 NTU	62.2 mV	12.83 ft	200.00 ml/min
8/21/2024 12:29 PM	02:55:00	6.83 pH	22.02 °C	706.69 µS/cm	0.25 mg/L	6.70 NTU	63.0 mV	12.83 ft	200.00 ml/min
8/21/2024 12:34 PM	03:00:00	6.83 pH	22.11 °C	669.88 µS/cm	0.16 mg/L	5.42 NTU	62.8 mV	12.83 ft	200.00 ml/min
8/21/2024 12:39 PM	03:05:00	6.84 pH	22.01 °C	704.74 µS/cm	0.08 mg/L	3.11 NTU	61.5 mV	12.83 ft	200.00 ml/min
8/21/2024 12:44 PM	03:10:00	6.84 pH	22.22 °C	700.15 µS/cm	0.06 mg/L	2.92 NTU	63.3 mV	12.83 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-12	

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/20/2024 11:20:38 AM
Project: GP-Plant Hammond
Operator Name: Elisabeth Russell

Location Name: PT-13 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 35.3 ft** **Total Depth: 45.3 ft** **Initial Depth to Water: 25.3 ft**	**Pump Type: Bladder** **Tubing Type: Polyethylene** **Pump Intake From TOC: 49 ft** **Estimated Total Volume Pumped: 7 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.15 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965586**

Test Notes:
Metals.
Fe > 7 mg/L Fe2+ > 10mg/L.

Weather Conditions:
Sunny, 80 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
8/20/2024 11:20 AM	00:00	6.52 pH	21.99 °C	800.23 µS/cm	1.78 mg/L	80.10 NTU	-1.8 mV	25.45 ft	200.00 ml/min
8/20/2024 11:25 AM	05:00	6.55 pH	22.10 °C	795.34 µS/cm	1.39 mg/L	21.00 NTU	-19.8 mV	25.45 ft	200.00 ml/min
8/20/2024 11:30 AM	10:00	6.57 pH	22.04 °C	797.08 µS/cm	1.22 mg/L	17.50 NTU	-35.6 mV	25.45 ft	200.00 ml/min
8/20/2024 11:35 AM	15:00	6.59 pH	21.94 °C	794.09 µS/cm	1.13 mg/L	8.50 NTU	-45.8 mV	25.45 ft	200.00 ml/min
8/20/2024 11:40 AM	20:00	6.60 pH	21.86 °C	795.04 µS/cm	1.06 mg/L	7.76 NTU	-54.0 mV	25.45 ft	200.00 ml/min
8/20/2024 11:45 AM	25:00	6.61 pH	21.84 °C	794.28 µS/cm	1.00 mg/L	5.56 NTU	-58.2 mV	25.45 ft	200.00 ml/min
8/20/2024 11:50 AM	30:00	6.62 pH	21.82 °C	794.29 µS/cm	0.97 mg/L	3.99 NTU	-61.6 mV	25.45 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-13	Grab.

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/20/2024 11:28:14 AM
Project: GP-Plant Hammond
Operator Name: Tristan Halterman

Location Name: PT-14 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 35.3 ft** **Total Depth: 45.3 ft** **Initial Depth to Water: 25.34 ft**	**Pump Type: Bladder** **Tubing Type: Polyethylene** **Pump Intake From TOC: 40.3 ft** **Estimated Total Volume Pumped: 8000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.14 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 968202**

Test Notes:
Metals.
Fe2+ = 3.0 mg/L Fe = 4.0 mg/L

Weather Conditions:
Sunny, windy, 80 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
8/20/2024 11:28 AM	00:00	6.55 pH	21.63 °C	844.11 µS/cm	2.21 mg/L	5.40 NTU	-67.4 mV	25.50 ft	200.00 ml/min
8/20/2024 11:33 AM	05:00	6.66 pH	21.21 °C	837.67 µS/cm	1.90 mg/L	5.27 NTU	-73.0 mV	25.50 ft	200.00 ml/min
8/20/2024 11:38 AM	10:00	6.69 pH	21.10 °C	840.13 µS/cm	1.75 mg/L	1.83 NTU	-80.8 mV	25.48 ft	200.00 ml/min
8/20/2024 11:43 AM	15:00	6.72 pH	21.13 °C	838.26 µS/cm	1.57 mg/L	1.82 NTU	-78.0 mV	25.48 ft	200.00 ml/min
8/20/2024 11:48 AM	20:00	6.72 pH	21.09 °C	837.50 µS/cm	1.56 mg/L	1.24 NTU	-83.6 mV	25.48 ft	200.00 ml/min
8/20/2024 11:53 AM	25:00	6.74 pH	21.01 °C	835.42 µS/cm	1.48 mg/L	1.98 NTU	-85.0 mV	25.48 ft	200.00 ml/min
8/20/2024 11:58 AM	30:00	6.75 pH	21.02 °C	834.47 µS/cm	1.51 mg/L	1.12 NTU	-81.1 mV	25.48 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-14	Grab.

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 8/20/2024 12:50:18 PM
Project: GP-Plant Hammond
Operator Name: Elisabeth Russell

Location Name: PT-15 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 35.3 ft** **Total Depth: 45.3 ft** **Initial Depth to Water: 25.3 ft**	**Pump Type: Bladder** **Tubing Type: Polyethylene** **Pump Intake From TOC: 40 ft** **Estimated Total Volume Pumped: 6.5 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965586**

Test Notes:
Metals.
Fe = 5 mg/L Fe2+ = 2.5 mg/L.

Weather Conditions:
Sunny, 80 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
8/20/2024 12:50 PM	00:00	6.63 pH	24.33 °C	728.98 µS/cm	1.59 mg/L	14.60 NTU	-54.3 mV	25.30 ft	200.00 ml/min
8/20/2024 12:55 PM	05:00	6.66 pH	22.53 °C	744.15 µS/cm	1.23 mg/L	7.74 NTU	-62.0 mV	25.30 ft	200.00 ml/min
8/20/2024 1:00 PM	10:00	6.69 pH	22.26 °C	745.08 µS/cm	1.15 mg/L	4.83 NTU	-64.2 mV	25.30 ft	200.00 ml/min
8/20/2024 1:05 PM	15:00	6.70 pH	22.17 °C	741.49 µS/cm	0.94 mg/L	3.66 NTU	-64.5 mV	25.30 ft	200.00 ml/min
8/20/2024 1:10 PM	20:00	6.71 pH	22.03 °C	739.57 µS/cm	0.88 mg/L	3.90 NTU	-64.4 mV	25.30 ft	200.00 ml/min
8/20/2024 1:15 PM	25:00	6.72 pH	21.99 °C	741.05 µS/cm	0.91 mg/L	4.97 NTU	-63.2 mV	25.30 ft	200.00 ml/min
8/20/2024 1:20 PM	30:00	6.72 pH	21.77 °C	740.25 µS/cm	0.77 mg/L	4.41 NTU	-64.1 mV	25.30 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-15	Grab
HAM-AP1-FD-01	Grab.

Low-Flow Test Report:

Test Date / Time: 9/5/2024 2:17:52 PM
Project: GP Plant Hammond
Operator Name: Jacob Tracy

Location Name: INW-03 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 17.4 ft** **Total Depth: 27.4 ft** **Initial Depth to Water: 13.56 ft**	**Pump Type: Peristaltic** **Tubing Type: Poly** **Pump Intake From TOC: 22.4 ft** **Estimated Total Volume Pumped: 3 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 883553**

Test Notes:
Field parameters only, no sample.

Weather Conditions:
Sunny, 85F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 10	+/- 1	+/- 0.3	
9/5/2024 2:17 PM	00:00	8.14 pH	22.04 °C	431.54 µS/cm	0.20 mg/L	23.30 NTU	19.5 mV	13.56 ft	200.00 ml/min
9/5/2024 2:22 PM	05:00	7.56 pH	21.17 °C	651.03 µS/cm	0.11 mg/L	12.10 NTU	-150.7 mV	13.56 ft	200.00 ml/min
9/5/2024 2:27 PM	10:00	7.50 pH	21.03 °C	763.29 µS/cm	0.07 mg/L	9.03 NTU	-119.9 mV	13.56 ft	200.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 9/5/2024 12:29:51 PM
Project: GP Plant Hammond
Operator Name: Jacob Tracy

Location Name: INW-04 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 35.3 ft** **Total Depth: 45.3 ft** **Initial Depth to Water: 25.98 ft**	**Pump Type: Bladder** **Tubing Type: Poly** **Pump Intake From TOC: 40.3 ft** **Estimated Total Volume Pumped: 4 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.06 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 883553**

Test Notes:
Field parameters only, no sample.

Weather Conditions:
Sunny, 85F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 10	+/- 1	+/- 0.3	
9/5/2024 12:29 PM	00:00	6.73 pH	21.91 °C	708.81 µS/cm	0.11 mg/L	++++	-43.5 mV	26.04 ft	200.00 ml/min
9/5/2024 12:34 PM	05:00	6.65 pH	20.85 °C	710.76 µS/cm	0.03 mg/L	++++	-43.2 mV	26.04 ft	200.00 ml/min
9/5/2024 12:39 PM	10:00	6.62 pH	21.14 °C	716.76 µS/cm	0.02 mg/L	++++	-53.9 mV	26.04 ft	200.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 9/5/2024 1:01:52 PM
Project: GP Plant Hammond
Operator Name: Jacob Tracy

Location Name: INW-05 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 35.3 ft** **Total Depth: 45.3 ft** **Initial Depth to Water: 25.56 ft**	**Pump Type: Bladder** **Tubing Type: Poly** **Pump Intake From TOC: 40.3 ft** **Estimated Total Volume Pumped: 3 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.06 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 883553**

Test Notes:
Field parameters only, no sample.

Weather Conditions:
Sunny, 85F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 10	+/- 1	+/- 0.3	
9/5/2024 1:01 PM	00:00	6.94 pH	22.31 °C	802.19 µS/cm	0.05 mg/L	++++	-113.1 mV	25.59 ft	200.00 ml/min
9/5/2024 1:03 PM	01:10	6.95 pH	22.12 °C	802.33 µS/cm	0.06 mg/L	++++	-113.4 mV	25.56 ft	200.00 ml/min
9/5/2024 1:08 PM	06:10	7.05 pH	21.28 °C	808.51 µS/cm	0.07 mg/L	++++	-112.7 mV	25.62 ft	200.00 ml/min
9/5/2024 1:13 PM	11:10	7.07 pH	21.57 °C	811.13 µS/cm	0.07 mg/L	++++	-114.3 mV	25.62 ft	200.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 9/4/2024 3:02:09 PM
Project: GP Plant Hammond
Operator Name: Selena Wang

Location Name: PT-07 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 37.75 ft** **Total Depth: 47.75 ft** **Initial Depth to Water: 26.21 ft**	**Pump Type: Bladder** **Tubing Type: Poly** **Pump Intake From TOC: 42.75 ft** **Estimated Total Volume Pumped: 6 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 883561**

Test Notes:
Full App. III and IV and Major Ions. Fe = 5.5 mg/L Fe2+ = 2.0 mg/L.

Weather Conditions:
Sunny, 85F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 10	+/- 10	+/- 0.3	
9/4/2024 3:02 PM	00:00	6.90 pH	20.88 °C	708.93 µS/cm	0.22 mg/L	6.43 NTU	-59.6 mV	26.21 ft	200.00 ml/min
9/4/2024 3:07 PM	05:00	6.89 pH	20.47 °C	726.74 µS/cm	0.16 mg/L	5.25 NTU	-59.9 mV	26.21 ft	200.00 ml/min
9/4/2024 3:12 PM	10:00	6.89 pH	20.31 °C	748.72 µS/cm	0.14 mg/L	7.26 NTU	-81.1 mV	26.21 ft	200.00 ml/min
9/4/2024 3:17 PM	15:00	6.89 pH	20.12 °C	747.35 µS/cm	0.14 mg/L	4.72 NTU	-81.0 mV	26.21 ft	200.00 ml/min
9/4/2024 3:22 PM	20:00	6.89 pH	19.95 °C	751.51 µS/cm	0.13 mg/L	3.01 NTU	-82.4 mV	26.21 ft	200.00 ml/min
9/4/2024 3:27 PM	25:00	6.88 pH	19.99 °C	752.34 µS/cm	0.13 mg/L	2.17 NTU	-83.1 mV	26.21 ft	200.00 ml/min
9/4/2024 3:32 PM	30:00	6.89 pH	20.23 °C	752.53 µS/cm	0.14 mg/L	1.66 NTU	-83.5 mV	26.21 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-07	Grab.

Low-Flow Test Report:

Test Date / Time: 9/5/2024 11:05:14 AM
Project: GP Plant Hammond
Operator Name: Jamie Newsome

Location Name: PT-08 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 31.93 ft** **Total Depth: 41.93 ft** **Initial Depth to Water: 26.12 ft**	**Pump Type: Bladder** **Tubing Type: Poly** **Pump Intake From TOC: 36.93 ft** **Estimated Total Volume Pumped: 20 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 843593**

Test Notes:
Full App. III and IV and Major Ions. Fe = 3.5 mg/L, Fe2+= 3.0 mg/L.

Weather Conditions:
Cloudy, 80F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 10	+/- 10	+/- 5	
9/5/2024 11:05 AM	00:00	6.37 pH	20.68 °C	457.60 µS/cm	6.60 mg/L	6.84 NTU	-11.6 mV	26.12 ft	200.00 ml/min
9/5/2024 11:10 AM	05:00	6.40 pH	21.06 °C	480.05 µS/cm	6.85 mg/L	6.90 NTU	-19.0 mV	26.12 ft	200.00 ml/min
9/5/2024 11:15 AM	10:00	6.45 pH	21.57 °C	478.17 µS/cm	7.64 mg/L	7.10 NTU	-26.0 mV	26.12 ft	200.00 ml/min
9/5/2024 11:20 AM	15:00	6.50 pH	21.91 °C	483.13 µS/cm	8.24 mg/L	10.90 NTU	-30.8 mV	26.12 ft	200.00 ml/min
9/5/2024 11:25 AM	20:00	6.55 pH	22.27 °C	495.41 µS/cm	8.52 mg/L	8.45 NTU	-35.7 mV	26.12 ft	200.00 ml/min
9/5/2024 11:30 AM	25:00	6.55 pH	21.66 °C	497.74 µS/cm	8.18 mg/L	17.70 NTU	-31.0 mV	26.12 ft	200.00 ml/min
9/5/2024 11:35 AM	30:00	6.54 pH	21.59 °C	503.96 µS/cm	7.92 mg/L	17.30 NTU	-27.8 mV	26.12 ft	200.00 ml/min
9/5/2024 11:40 AM	35:00	6.50 pH	21.12 °C	516.78 µS/cm	7.54 mg/L	16.40 NTU	-24.4 mV	26.12 ft	200.00 ml/min
9/5/2024 11:45 AM	40:00	6.46 pH	20.57 °C	528.78 µS/cm	6.93 mg/L	15.50 NTU	-21.2 mV	26.12 ft	200.00 ml/min
9/5/2024 11:50 AM	45:00	6.45 pH	20.39 °C	548.96 µS/cm	6.78 mg/L	14.80 NTU	-22.0 mV	26.12 ft	200.00 ml/min
9/5/2024 11:55 AM	50:00	6.44 pH	20.39 °C	558.63 µS/cm	6.50 mg/L	14.20 NTU	-22.6 mV	26.12 ft	200.00 ml/min
9/5/2024 12:00 PM	55:00	6.45 pH	20.26 °C	569.41 µS/cm	6.51 mg/L	13.00 NTU	-24.9 mV	26.12 ft	200.00 ml/min
9/5/2024 12:05 PM	01:00:00	6.46 pH	20.14 °C	577.03 µS/cm	6.43 mg/L	14.00 NTU	-25.3 mV	26.12 ft	200.00 ml/min

9/5/2024 12:10 PM	01:05:00	6.48 pH	20.05 °C	580.26 µS/cm	6.60 mg/L	11.30 NTU	-30.2 mV	26.12 ft	200.00 ml/min
9/5/2024 12:15 PM	01:10:00	6.48 pH	20.29 °C	587.20 µS/cm	6.51 mg/L	10.10 NTU	-28.9 mV	26.12 ft	200.00 ml/min
9/5/2024 12:20 PM	01:15:00	6.47 pH	20.22 °C	591.38 µS/cm	6.33 mg/L	9.76 NTU	-27.7 mV	26.12 ft	200.00 ml/min
9/5/2024 12:25 PM	01:20:00	6.49 pH	19.96 °C	593.78 µS/cm	6.47 mg/L	7.15 NTU	-31.0 mV	26.12 ft	200.00 ml/min
9/5/2024 12:30 PM	01:25:00	6.48 pH	19.86 °C	597.49 µS/cm	6.25 mg/L	6.50 NTU	-31.7 mV	26.12 ft	200.00 ml/min
9/5/2024 12:35 PM	01:30:00	6.47 pH	19.79 °C	602.00 µS/cm	6.15 mg/L	4.79 NTU	-31.9 mV	26.12 ft	200.00 ml/min
9/5/2024 12:40 PM	01:35:00	6.48 pH	20.13 °C	605.65 µS/cm	6.22 mg/L	4.81 NTU	-32.9 mV	26.12 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-08	Grab.
HAM-AP1-FD-01	Grab.

Low-Flow Test Report:

Test Date / Time: 9/4/2024 12:36:07 PM
Project: GP Plant Hammond
Operator Name: Jacob Tracy

Location Name: PT-09 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 in** **Top of Screen: 20.47 ft** **Total Depth: 30.47 ft** **Initial Depth to Water: 16.77 ft**	**Pump Type: Peristaltic** **Tubing Type: Poly** **Pump Intake From TOC: 25.47 ft** **Estimated Total Volume Pumped: 10 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 883553**

Test Notes:
Full App. III and IV and Major Ions. Fe = 3.5 mg/L Fe2+= 3.0 mg/L.

Weather Conditions:
Cloudy, 80F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 10	+/- 1	+/- 5	
9/4/2024 12:36 PM	00:00	6.91 pH	23.05 °C	670.50 µS/cm	0.16 mg/L	21.60 NTU	56.3 mV	16.81 in	200.00 ml/min
9/4/2024 12:41 PM	05:00	6.90 pH	21.91 °C	670.56 µS/cm	0.09 mg/L	21.00 NTU	44.4 mV	16.80 in	200.00 ml/min
9/4/2024 12:46 PM	10:00	6.88 pH	21.93 °C	662.83 µS/cm	0.06 mg/L	19.20 NTU	47.2 mV	16.77 in	200.00 ml/min
9/4/2024 12:51 PM	15:00	6.87 pH	21.94 °C	660.53 µS/cm	0.05 mg/L	12.70 NTU	48.3 mV	16.77 in	200.00 ml/min
9/4/2024 12:56 PM	20:00	6.88 pH	21.78 °C	655.44 µS/cm	0.04 mg/L	8.30 NTU	44.4 mV	16.77 in	200.00 ml/min
9/4/2024 1:01 PM	25:00	6.86 pH	21.84 °C	652.65 µS/cm	0.03 mg/L	9.80 NTU	43.0 mV	16.77 in	200.00 ml/min
9/4/2024 1:06 PM	30:00	6.86 pH	21.68 °C	649.13 µS/cm	0.02 mg/L	7.90 NTU	41.5 mV	16.77 in	200.00 ml/min
9/4/2024 1:11 PM	35:00	6.86 pH	21.64 °C	645.67 µS/cm	0.01 mg/L	6.34 NTU	41.1 mV	16.77 in	200.00 ml/min
9/4/2024 1:16 PM	40:00	6.86 pH	21.69 °C	638.06 µS/cm	0.01 mg/L	5.47 NTU	39.7 mV	16.77 in	200.00 ml/min
9/4/2024 1:21 PM	45:00	6.86 pH	21.70 °C	634.71 µS/cm	0.01 mg/L	4.74 NTU	39.1 mV	16.77 in	200.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-09	Grab.

Low-Flow Test Report:

Test Date / Time: 9/4/2024 10:27:52 AM
Project: GP Plant Hammond
Operator Name: Jamie Newsome

Location Name: PT-10 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 20.47 ft** **Total Depth: 30.47 ft** **Initial Depth to Water: 16.9 ft**	**Pump Type: Peri** **Tubing Type: Poly** **Pump Intake From TOC: 25.47 ft** **Estimated Total Volume Pumped: 14 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 843593**

Test Notes:
Full App. III and IV and Major ions. Fe = 0 mg/L, Fe2+ = 0 mg/L.

Weather Conditions:
Sunny, 75F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 10	+/- 10	+/- 5	
9/4/2024 10:27 AM	00:00	6.96 pH	20.46 °C	693.86 µS/cm	1.22 mg/L	10.50 NTU	99.5 mV	16.90 ft	200.00 ml/min
9/4/2024 10:32 AM	05:00	6.96 pH	20.70 °C	680.23 µS/cm	0.20 mg/L	10.07 NTU	109.2 mV	16.90 ft	200.00 ml/min
9/4/2024 10:37 AM	10:00	6.95 pH	20.84 °C	680.18 µS/cm	0.38 mg/L	5.23 NTU	120.4 mV	16.90 ft	200.00 ml/min
9/4/2024 10:42 AM	15:00	6.95 pH	20.81 °C	681.36 µS/cm	2.58 mg/L	4.67 NTU	136.8 mV	16.90 ft	200.00 ml/min
9/4/2024 10:47 AM	20:00	6.95 pH	20.91 °C	678.90 µS/cm	1.15 mg/L	4.32 NTU	157.3 mV	16.90 ft	200.00 ml/min
9/4/2024 10:52 AM	25:00	6.95 pH	21.41 °C	682.45 µS/cm	0.35 mg/L	3.03 NTU	188.3 mV	16.90 ft	200.00 ml/min
9/4/2024 10:57 AM	30:00	6.96 pH	21.48 °C	678.97 µS/cm	0.60 mg/L	2.74 NTU	286.0 mV	16.90 ft	200.00 ml/min
9/4/2024 11:02 AM	35:00	6.96 pH	21.65 °C	674.58 µS/cm	0.62 mg/L	2.42 NTU	319.5 mV	16.90 ft	200.00 ml/min
9/4/2024 11:07 AM	40:00	6.95 pH	21.69 °C	672.04 µS/cm	0.33 mg/L	2.16 NTU	357.7 mV	16.90 ft	200.00 ml/min
9/4/2024 11:12 AM	45:00	6.97 pH	21.41 °C	675.96 µS/cm	1.21 mg/L	2.19 NTU	371.1 mV	16.90 ft	200.00 ml/min
9/4/2024 11:17 AM	50:00	6.97 pH	21.95 °C	675.84 µS/cm	0.79 mg/L	2.07 NTU	288.3 mV	16.90 ft	200.00 ml/min
9/4/2024 11:22 AM	55:00	6.97 pH	21.95 °C	671.15 µS/cm	0.48 mg/L	1.83 NTU	319.5 mV	16.90 ft	200.00 ml/min
9/4/2024 11:27 AM	01:00:00	6.96 pH	22.00 °C	666.48 µS/cm	0.48 mg/L	1.45 NTU	424.3 mV	16.90 ft	200.00 ml/min

9/4/2024 11:32 AM	01:05:00	6.96 pH	22.00 °C	662.09 µS/cm	0.42 mg/L	1.36 NTU	410.2 mV	16.90 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-10	Grab.

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 9/4/2024 10:25:07 AM
Project: GP Plant Hammond
Operator Name: Jacob Tracy

Location Name: PT-11 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 16.9 ft** **Total Depth: 26.9 ft** **Initial Depth to Water: 13.34 ft**	**Pump Type: Peristaltic** **Tubing Type: Poly** **Pump Intake From TOC: 21.9 ft** **Estimated Total Volume Pumped: 13 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.05 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 883553**

Test Notes:
Full App. III and IV and Major Ions. Fe = 0.3 mg/L Fe2+ = 0 mg/L.

Weather Conditions:
Sunny, 75F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 10	+/- 1	+/- 5	
9/4/2024 10:25 AM	00:00	7.00 pH	21.55 °C	671.07 µS/cm	0.28 mg/L		99.9 mV	13.35 in	200.00 ml/min
9/4/2024 10:26 AM	01:44	6.99 pH	21.46 °C	670.96 µS/cm	0.23 mg/L		101.1 mV	13.35 in	200.00 ml/min
9/4/2024 10:27 AM	02:08	6.99 pH	21.51 °C	669.05 µS/cm	0.22 mg/L	31.30 NTU	100.0 mV	13.35 in	200.00 ml/min
9/4/2024 10:32 AM	07:08	6.97 pH	21.47 °C	665.26 µS/cm	0.14 mg/L	38.20 NTU	69.8 mV	13.39 in	200.00 ml/min
9/4/2024 10:37 AM	12:08	6.97 pH	21.42 °C	661.53 µS/cm	0.10 mg/L	32.70 NTU	78.1 mV	13.39 in	200.00 ml/min
9/4/2024 10:42 AM	17:08	6.96 pH	21.24 °C	660.19 µS/cm	0.06 mg/L	26.50 NTU	73.0 mV	13.39 in	200.00 ml/min
9/4/2024 10:47 AM	22:08	6.97 pH	21.37 °C	658.53 µS/cm	0.04 mg/L	23.40 NTU	68.3 mV	13.39 in	200.00 ml/min
9/4/2024 10:52 AM	27:08	6.96 pH	21.33 °C	655.73 µS/cm	0.03 mg/L	18.10 NTU	65.3 mV	13.39 in	200.00 ml/min
9/4/2024 10:57 AM	32:08	6.95 pH	21.42 °C	647.23 µS/cm	0.02 mg/L	16.90 NTU	63.4 mV	13.39 in	200.00 ml/min
9/4/2024 11:02 AM	37:08	6.96 pH	21.43 °C	643.57 µS/cm	0.01 mg/L	12.40 NTU	61.3 mV	13.39 in	200.00 ml/min
9/4/2024 11:07 AM	42:08	6.96 pH	21.47 °C	637.70 µS/cm	0.01 mg/L	9.80 NTU	59.4 mV	13.39 in	200.00 ml/min
9/4/2024 11:12 AM	47:08	6.95 pH	21.55 °C	636.79 µS/cm	0.01 mg/L	8.78 NTU	58.4 mV	13.39 in	200.00 ml/min
9/4/2024 11:17 AM	52:08	6.95 pH	21.64 °C	628.29 µS/cm	0.00 mg/L	8.02 NTU	57.1 mV	13.39 in	200.00 ml/min
9/4/2024 11:22 AM	57:08	6.94 pH	21.64 °C	625.87 µS/cm	0.00 mg/L	6.23 NTU	56.6 mV	13.39 in	200.00 ml/min
9/4/2024 11:27 AM	01:02:08	6.95 pH	21.51 °C	619.84 µS/cm	0.00 mg/L	4.82 NTU	55.4 mV	13.39 in	200.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-11	Grab.

Low-Flow Test Report:

Test Date / Time: 9/4/2024 2:56:13 PM
Project: GP Plant Hammond
Operator Name: Jacob Tracy

Location Name: PT-12 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 17.3 ft** **Total Depth: 27.3 ft** **Initial Depth to Water: 13.23 ft**	**Pump Type: Peristaltic** **Tubing Type: Poly** **Pump Intake From TOC: 22.3 ft** **Estimated Total Volume Pumped: 7 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.04 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 883553**

Test Notes:
Full App. III and IV and Major Ions. Fe = 0 mg/L Fe2+ = 0 mg/L.

Weather Conditions:
Sunny, 75F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 10	+/- 1	+/- 0.3	
9/4/2024 2:56 PM	00:00	6.61 pH	23.08 °C	655.25 µS/cm	0.38 mg/L		81.3 mV	13.23 ft	200.00 ml/min
9/4/2024 2:57 PM	01:45	6.65 pH	22.35 °C	665.88 µS/cm	0.28 mg/L	11.10 NTU	70.6 mV	13.27 ft	200.00 ml/min
9/4/2024 3:02 PM	06:45	6.77 pH	22.31 °C	675.15 µS/cm	0.12 mg/L	7.89 NTU	46.8 mV	13.27 ft	200.00 ml/min
9/4/2024 3:07 PM	11:45	6.87 pH	22.13 °C	677.59 µS/cm	0.05 mg/L	6.25 NTU	45.2 mV	13.27 ft	200.00 ml/min
9/4/2024 3:12 PM	16:45	6.88 pH	22.32 °C	672.96 µS/cm	0.03 mg/L	7.07 NTU	42.5 mV	13.27 ft	200.00 ml/min
9/4/2024 3:17 PM	21:45	6.89 pH	22.11 °C	673.11 µS/cm	0.02 mg/L	6.30 NTU	40.1 mV	13.27 ft	200.00 ml/min
9/4/2024 3:22 PM	26:45	6.89 pH	21.69 °C	672.21 µS/cm	0.01 mg/L	5.34 NTU	37.8 mV	13.27 ft	200.00 ml/min
9/4/2024 3:27 PM	31:45	6.88 pH	21.94 °C	669.56 µS/cm	0.01 mg/L	4.42 NTU	37.1 mV	13.27 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-12	Grab.

Low-Flow Test Report:

Created using VuSitu from In-Situ, Inc.

Test Date / Time: 9/4/2024 3:28:31 PM
Project: GP Plant Hammond
Operator Name: Jamie Newsome

Location Name: PT-13 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 35.3 ft** **Total Depth: 45.3 ft** **Initial Depth to Water: 26.17 ft**	**Pump Type: Bladder** **Tubing Type: Poly** **Pump Intake From TOC: 40.30 ft** **Estimated Total Volume Pumped: 7 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 843593**

Test Notes:
Full App. III and IV and Major Ions. Fe = 6.0 mg/L, Fe2+ = 5.5 mg/L.

Weather Conditions:
Sunny, 95F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 10	+/- 10	+/- 5	
9/4/2024 3:28 PM	00:00	6.93 pH	21.85 °C	754.28 µS/cm	0.43 mg/L	27.10 NTU	-97.1 mV	26.17 ft	200.00 ml/min
9/4/2024 3:33 PM	05:00	6.88 pH	21.33 °C	766.33 µS/cm	0.22 mg/L	28.90 NTU	-93.2 mV	26.17 ft	200.00 ml/min
9/4/2024 3:38 PM	10:00	6.88 pH	20.66 °C	767.74 µS/cm	0.15 mg/L	16.00 NTU	-96.9 mV	26.17 ft	200.00 ml/min
9/4/2024 3:43 PM	15:00	6.87 pH	20.60 °C	771.05 µS/cm	0.12 mg/L	12.10 NTU	-97.5 mV	26.17 ft	200.00 ml/min
9/4/2024 3:48 PM	20:00	6.86 pH	20.75 °C	766.86 µS/cm	0.10 mg/L	11.70 NTU	-95.0 mV	26.17 ft	200.00 ml/min
9/4/2024 3:53 PM	25:00	6.85 pH	20.75 °C	769.54 µS/cm	0.08 mg/L	11.05 NTU	-97.3 mV	26.17 ft	200.00 ml/min
9/4/2024 3:58 PM	30:00	6.83 pH	20.80 °C	768.27 µS/cm	0.08 mg/L	7.51 NTU	-96.3 mV	26.17 ft	200.00 ml/min
9/4/2024 4:03 PM	35:00	6.82 pH	20.77 °C	765.04 µS/cm	0.06 mg/L	4.65 NTU	-95.5 mV	26.17 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-13	Grab.

Low-Flow Test Report:

Test Date / Time: 9/5/2024 11:05:17 AM
Project: GP Plant Hammond
Operator Name: Jacob Tracy

Location Name: PT-14 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 35.3 ft** **Total Depth: 45.3 ft** **Initial Depth to Water: 25.98 ft**	**Pump Type: Bladder** **Tubing Type: Poly** **Pump Intake From TOC: 40.3 ft** **Estimated Total Volume Pumped: 7 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 883553**

Test Notes:
Full App. III and IV and Major Ions. Fe = 6.0 mg/L Fe2+ = 6.4 mg/L.

Weather Conditions:
Sunny, 95F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 10	+/- 1	+/- 0.3	
9/5/2024 11:05 AM	00:00	7.01 pH	20.67 °C	824.57 µS/cm	0.16 mg/L	7.71 NTU	-67.8 mV	25.98 ft	200.00 ml/min
9/5/2024 11:10 AM	05:00	6.97 pH	20.56 °C	826.38 µS/cm	0.12 mg/L	7.32 NTU	-69.4 mV	25.98 ft	200.00 ml/min
9/5/2024 11:15 AM	10:00	6.99 pH	20.46 °C	826.22 µS/cm	0.09 mg/L	4.68 NTU	-66.8 mV	25.98 ft	200.00 ml/min
9/5/2024 11:20 AM	15:00	6.98 pH	20.53 °C	827.41 µS/cm	0.07 mg/L	2.23 NTU	-71.6 mV	25.98 ft	200.00 ml/min
9/5/2024 11:25 AM	20:00	6.99 pH	20.57 °C	826.11 µS/cm	0.07 mg/L	2.10 NTU	-72.3 mV	25.98 ft	200.00 ml/min
9/5/2024 11:30 AM	25:00	6.98 pH	20.59 °C	825.88 µS/cm	0.06 mg/L	1.76 NTU	-73.9 mV	25.98 ft	200.00 ml/min
9/5/2024 11:35 AM	30:00	6.99 pH	20.59 °C	826.47 µS/cm	0.05 mg/L	1.70 NTU	-73.9 mV	25.98 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-14	Grab.

Low-Flow Test Report:

Test Date / Time: 9/4/2024 3:28:31 PM
Project: GP Plant Hammond
Operator Name: Jamie Newsome

Location Name: PT-15 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 35.3 ft** **Total Depth: 45.3 ft** **Initial Depth to Water: 25.82 ft**	**Pump Type: Bladder** **Tubing Type: Poly** **Pump Intake From TOC: 40.30 ft** **Estimated Total Volume Pumped: 8 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 843593**

Test Notes:
Full App. III and IV and Major Ions. Fe = 4.5 mg/L, Fe2+ = 2.0 mg/L.

Weather Conditions:
Sunny, 95F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 10	+/- 10	+/- 5	
9/4/2024 3:28 PM	00:00	6.93 pH	21.85 °C	754.28 µS/cm	0.43 mg/L	27.10 NTU	-97.1 mV	25.82 ft	200.00 ml/min
9/4/2024 3:33 PM	05:00	6.88 pH	21.33 °C	766.33 µS/cm	0.22 mg/L	28.90 NTU	-93.2 mV	25.82 ft	200.00 ml/min
9/4/2024 3:38 PM	10:00	6.88 pH	20.66 °C	767.74 µS/cm	0.15 mg/L	16.00 NTU	-96.9 mV	25.82 ft	200.00 ml/min
9/4/2024 3:43 PM	15:00	6.87 pH	20.60 °C	771.05 µS/cm	0.12 mg/L	12.10 NTU	-97.5 mV	25.82 ft	200.00 ml/min
9/4/2024 3:48 PM	20:00	6.86 pH	20.75 °C	766.86 µS/cm	0.10 mg/L	11.70 NTU	-95.0 mV	25.82 ft	200.00 ml/min
9/4/2024 3:53 PM	25:00	6.85 pH	20.75 °C	769.54 µS/cm	0.08 mg/L	11.05 NTU	-97.3 mV	25.82 ft	200.00 ml/min
9/4/2024 3:58 PM	30:00	6.83 pH	20.80 °C	768.27 µS/cm	0.08 mg/L	7.51 NTU	-96.3 mV	25.82 ft	200.00 ml/min
9/4/2024 4:03 PM	35:00	6.82 pH	20.77 °C	765.04 µS/cm	0.06 mg/L	4.65 NTU	-95.5 mV	25.82 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-15	Grab.

Low-Flow Test Report:

Test Date / Time: 9/24/2024 3:50:23 PM
Project: GP-Plant Hammond
Operator Name: Jacob Tracy

Location Name: PT-07 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 38 ft** **Total Depth: 48.0 ft** **Initial Depth to Water: 27.29 ft**	**Pump Type: Bladder** **Tubing Type: Polyethylene** **Pump Intake From TOC: 43.0 ft** **Estimated Total Volume Pumped: 7 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.06 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1082822**

Test Notes:
Appendix III & IV + Total Arsenic. Ferrous Iron: 0 mg/L, Total Iron: 1.0 mg/L.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 1	+/- 0.3	
9/24/2024 3:50 PM	00:00	6.63 pH	25.86 °C	746.48 µS/cm	0.55 mg/L	8.85 NTU	11.0 mV	27.32 ft	200.00 ml/min
9/24/2024 3:55 PM	05:00	6.61 pH	22.98 °C	740.14 µS/cm	0.54 mg/L	7.15 NTU	14.3 mV	27.35 ft	200.00 ml/min
9/24/2024 4:00 PM	10:00	6.61 pH	22.29 °C	738.24 µS/cm	0.39 mg/L	2.96 NTU	17.7 mV	27.35 ft	200.00 ml/min
9/24/2024 4:05 PM	15:00	6.61 pH	22.17 °C	731.94 µS/cm	0.33 mg/L	2.42 NTU	16.2 mV	27.35 ft	200.00 ml/min
9/24/2024 4:10 PM	20:00	6.61 pH	22.18 °C	724.28 µS/cm	0.31 mg/L	1.58 NTU	17.9 mV	27.35 ft	200.00 ml/min
9/24/2024 4:15 PM	25:00	6.61 pH	22.14 °C	719.88 µS/cm	0.29 mg/L	1.06 NTU	21.7 mV	27.35 ft	200.00 ml/min
9/24/2024 4:20 PM	30:00	6.61 pH	22.16 °C	716.65 µS/cm	0.28 mg/L	0.54 NTU	18.7 mV	27.35 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-07	Grab.

Low-Flow Test Report:

Test Date / Time: 9/24/2024 12:31:28 PM
Project: GP-Plant Hammond
Operator Name: Zain W.

Location Name: PT-08 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 32.2 ft** **Total Depth: 42.2 ft** **Initial Depth to Water: 26.39 ft**	**Pump Type: Bladder** **Tubing Type: Polyethylene** **Pump Intake From TOC: 37.2 ft** **Estimated Total Volume Pumped: 18 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 150 ml/min** **Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1120055**

Test Notes:
Appendix III & IV + Total Arsenic. Ferrous Iron: 2.5 mg/L, Total Iron: 5.0 mg/L.

Weather Conditions:
Sunny, 90 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
9/24/2024 12:31 PM	00:00	6.56 pH	22.52 °C	561.58 µS/cm	6.35 mg/L	103.00 NTU	134.0 mV	26.39 ft	150.00 ml/min
9/24/2024 12:36 PM	05:00	6.59 pH	21.91 °C	593.88 µS/cm	5.62 mg/L	106.00 NTU	54.5 mV	26.39 ft	150.00 ml/min
9/24/2024 12:41 PM	10:00	6.62 pH	21.73 °C	621.77 µS/cm	4.82 mg/L	98.90 NTU	59.9 mV	26.39 ft	150.00 ml/min
9/24/2024 12:46 PM	15:00	6.62 pH	21.73 °C	631.63 µS/cm	4.28 mg/L	97.40 NTU	41.5 mV	26.39 ft	150.00 ml/min
9/24/2024 12:51 PM	20:00	6.61 pH	21.76 °C	638.19 µS/cm	4.08 mg/L	96.00 NTU	36.5 mV	26.39 ft	150.00 ml/min
9/24/2024 12:56 PM	25:00	6.61 pH	21.73 °C	629.27 µS/cm	3.74 mg/L	79.40 NTU	34.9 mV	26.39 ft	150.00 ml/min
9/24/2024 1:01 PM	30:00	6.59 pH	21.73 °C	612.98 µS/cm	3.52 mg/L	47.60 NTU	37.1 mV	26.39 ft	150.00 ml/min
9/24/2024 1:06 PM	35:00	6.60 pH	21.65 °C	620.24 µS/cm	3.30 mg/L	41.60 NTU	30.5 mV	26.39 ft	150.00 ml/min
9/24/2024 1:11 PM	40:00	6.61 pH	21.78 °C	620.52 µS/cm	3.23 mg/L	30.90 NTU	30.3 mV	26.39 ft	150.00 ml/min
9/24/2024 1:16 PM	45:00	6.59 pH	21.70 °C	603.25 µS/cm	3.13 mg/L	28.10 NTU	34.6 mV	26.39 ft	150.00 ml/min
9/24/2024 1:21 PM	50:00	6.59 pH	21.74 °C	596.56 µS/cm	3.07 mg/L	22.30 NTU	36.4 mV	26.39 ft	150.00 ml/min
9/24/2024 1:26 PM	55:00	6.58 pH	21.87 °C	599.55 µS/cm	2.98 mg/L	19.70 NTU	38.2 mV	26.39 ft	150.00 ml/min
9/24/2024 1:31 PM	01:00:00	6.58 pH	21.91 °C	601.28 µS/cm	2.68 mg/L	16.60 NTU	37.2 mV	26.39 ft	150.00 ml/min

9/24/2024 1:36 PM	01:05:00	6.56 pH	21.87 °C	580.77 µS/cm	2.36 mg/L	14.80 NTU	37.5 mV	26.39 ft	150.00 ml/min
9/24/2024 1:41 PM	01:10:00	6.55 pH	21.85 °C	586.71 µS/cm	2.33 mg/L	11.50 NTU	39.1 mV	26.39 ft	150.00 ml/min
9/24/2024 1:46 PM	01:15:00	6.55 pH	21.93 °C	586.59 µS/cm	2.25 mg/L	9.64 NTU	37.1 mV	26.39 ft	150.00 ml/min
9/24/2024 1:51 PM	01:20:00	6.54 pH	22.07 °C	587.16 µS/cm	2.23 mg/L	8.52 NTU	37.8 mV	26.39 ft	150.00 ml/min
9/24/2024 1:56 PM	01:25:00	6.54 pH	22.09 °C	571.63 µS/cm	2.23 mg/L	8.00 NTU	37.0 mV	26.39 ft	150.00 ml/min
9/24/2024 2:01 PM	01:30:00	6.53 pH	22.09 °C	570.35 µS/cm	2.21 mg/L	7.38 NTU	40.7 mV	26.39 ft	150.00 ml/min
9/24/2024 2:06 PM	01:35:00	6.52 pH	22.13 °C	559.35 µS/cm	2.22 mg/L	6.26 NTU	37.5 mV	26.39 ft	150.00 ml/min
9/24/2024 2:11 PM	01:40:00	6.52 pH	22.21 °C	567.63 µS/cm	2.19 mg/L	6.31 NTU	41.8 mV	26.39 ft	150.00 ml/min
9/24/2024 2:16 PM	01:45:00	6.51 pH	22.10 °C	569.23 µS/cm	2.21 mg/L	5.51 NTU	37.9 mV	26.39 ft	150.00 ml/min
9/24/2024 2:21 PM	01:50:00	6.51 pH	22.14 °C	575.80 µS/cm	2.20 mg/L	5.33 NTU	37.7 mV	26.39 ft	150.00 ml/min
9/24/2024 2:26 PM	01:55:00	6.50 pH	22.19 °C	587.82 µS/cm	2.16 mg/L	4.25 NTU	37.1 mV	26.39 ft	150.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-08	Grab.

Low-Flow Test Report:

Test Date / Time: 9/25/2024 9:10:58 AM
Project: GP-Plant Hammond
Operator Name: Jacob Tracy

Location Name: PT-09 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 17.45 ft** **Total Depth: 27.45 ft** **Initial Depth to Water: 16.89 ft**	**Pump Type: Peristaltic** **Tubing Type: Polyethylene** **Pump Intake From TOC: 22.45 ft** **Estimated Total Volume Pumped: 40 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.02 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1082822**

Test Notes:
Appendix III & IV + Total Arsenic. Ferrous Iron: 0 mg/L, Total Iron: 0.5 mg/L.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 1	+/- 0.3	
9/25/2024 9:10 AM	00:00	6.44 pH	21.01 °C	729.49 µS/cm	1.42 mg/L	++++	38.0 mV	16.91 ft	200.00 ml/min
9/25/2024 9:15 AM	05:00	6.53 pH	20.92 °C	726.11 µS/cm	1.03 mg/L	++++	29.0 mV	16.91 ft	200.00 ml/min
9/25/2024 9:20 AM	10:00	6.66 pH	20.83 °C	744.45 µS/cm	1.00 mg/L	++++	30.8 mV	16.91 ft	200.00 ml/min
9/25/2024 9:25 AM	15:00	6.68 pH	20.79 °C	744.74 µS/cm	0.99 mg/L	++++	40.6 mV	16.91 ft	200.00 ml/min
9/25/2024 9:30 AM	20:00	6.68 pH	20.83 °C	743.09 µS/cm	0.98 mg/L	++++	40.6 mV	16.91 ft	200.00 ml/min
9/25/2024 9:35 AM	25:00	6.67 pH	20.82 °C	742.14 µS/cm	0.91 mg/L	++++	40.7 mV	16.91 ft	200.00 ml/min
9/25/2024 9:40 AM	30:00	6.67 pH	20.83 °C	738.57 µS/cm	0.92 mg/L	++++	42.4 mV	16.91 ft	200.00 ml/min
9/25/2024 9:45 AM	35:00	6.67 pH	20.87 °C	738.04 µS/cm	0.92 mg/L	++++	42.2 mV	16.91 ft	200.00 ml/min
9/25/2024 9:50 AM	40:00	6.65 pH	20.83 °C	732.04 µS/cm	0.94 mg/L	++++	43.4 mV	16.91 ft	200.00 ml/min
9/25/2024 9:55 AM	45:00	6.66 pH	20.78 °C	736.60 µS/cm	0.93 mg/L	++++	43.2 mV	16.91 ft	200.00 ml/min
9/25/2024 10:00 AM	50:00	6.66 pH	20.70 °C	737.57 µS/cm	0.96 mg/L	++++	43.4 mV	16.91 ft	200.00 ml/min
9/25/2024 10:05 AM	55:00	6.67 pH	20.67 °C	745.78 µS/cm	0.90 mg/L	++++	42.9 mV	16.91 ft	200.00 ml/min
9/25/2024 10:10 AM	01:00:00	6.66 pH	20.65 °C	742.05 µS/cm	0.97 mg/L	++++	43.2 mV	16.91 ft	200.00 ml/min
9/25/2024 10:15 AM	01:05:00	6.65 pH	20.59 °C	737.57 µS/cm	0.98 mg/L	++++	42.7 mV	16.91 ft	200.00 ml/min
9/25/2024 10:20 AM	01:10:00	6.65 pH	20.51 °C	732.59 µS/cm	0.96 mg/L	++++	46.1 mV	16.91 ft	200.00 ml/min

9/25/2024 10:25 AM	01:15:00	6.65 pH	20.51 °C	733.25 µS/cm	1.03 mg/L	90.60 NTU	43.6 mV	16.91 ft	200.00 ml/min
9/25/2024 10:30 AM	01:20:00	6.65 pH	20.49 °C	733.97 µS/cm	1.09 mg/L	84.60 NTU	45.6 mV	16.91 ft	200.00 ml/min
9/25/2024 10:35 AM	01:25:00	6.65 pH	20.48 °C	736.69 µS/cm	0.95 mg/L	79.70 NTU	43.9 mV	16.91 ft	200.00 ml/min
9/25/2024 10:40 AM	01:30:00	6.63 pH	20.70 °C	733.57 µS/cm	0.32 mg/L	72.10 NTU	41.9 mV	16.91 ft	200.00 ml/min
9/25/2024 10:45 AM	01:35:00	6.63 pH	20.74 °C	731.03 µS/cm	0.32 mg/L	--	39.0 mV	16.91 ft	200.00 ml/min
9/25/2024 10:50 AM	01:40:00	6.65 pH	20.78 °C	731.78 µS/cm	0.31 mg/L	--	36.1 mV	16.91 ft	200.00 ml/min
9/25/2024 10:55 AM	01:45:00	6.64 pH	20.71 °C	731.12 µS/cm	0.29 mg/L	--	35.7 mV	16.91 ft	200.00 ml/min
9/25/2024 11:00 AM	01:50:00	6.65 pH	20.67 °C	736.52 µS/cm	0.79 mg/L	--	42.9 mV	16.91 ft	200.00 ml/min
9/25/2024 11:05 AM	01:55:00	6.65 pH	20.47 °C	735.22 µS/cm	0.92 mg/L	--	47.4 mV	16.91 ft	200.00 ml/min
9/25/2024 11:10 AM	02:00:00	6.65 pH	20.46 °C	731.89 µS/cm	0.95 mg/L	--	47.1 mV	16.91 ft	200.00 ml/min
9/25/2024 11:15 AM	02:05:00	6.65 pH	20.42 °C	729.54 µS/cm	0.98 mg/L	--	47.5 mV	16.91 ft	200.00 ml/min
9/25/2024 11:20 AM	02:10:00	6.66 pH	20.30 °C	727.55 µS/cm	1.00 mg/L	--	48.4 mV	16.91 ft	200.00 ml/min
9/25/2024 11:25 AM	02:15:00	6.66 pH	20.18 °C	728.21 µS/cm	1.00 mg/L	--	49.1 mV	16.91 ft	200.00 ml/min
9/25/2024 11:30 AM	02:20:00	6.66 pH	20.10 °C	736.01 µS/cm	0.99 mg/L	--	46.9 mV	16.91 ft	200.00 ml/min
9/25/2024 11:35 AM	02:25:00	6.66 pH	20.04 °C	735.66 µS/cm	1.01 mg/L	--	46.7 mV	16.91 ft	200.00 ml/min
9/25/2024 11:40 AM	02:30:00	6.67 pH	20.07 °C	734.50 µS/cm	1.01 mg/L	--	51.0 mV	16.91 ft	200.00 ml/min
9/25/2024 11:45 AM	02:35:00	6.66 pH	20.12 °C	733.96 µS/cm	0.98 mg/L	--	45.6 mV	16.91 ft	200.00 ml/min
9/25/2024 11:50 AM	02:40:00	6.66 pH	20.16 °C	732.14 µS/cm	1.00 mg/L	--	48.9 mV	16.91 ft	200.00 ml/min
9/25/2024 11:55 AM	02:45:00	6.69 pH	20.15 °C	734.20 µS/cm	1.03 mg/L	--	44.1 mV	16.91 ft	200.00 ml/min
9/25/2024 12:00 PM	02:50:00	6.67 pH	20.11 °C	731.54 µS/cm	1.05 mg/L	--	48.1 mV	16.91 ft	200.00 ml/min
9/25/2024 12:05 PM	02:55:00	6.67 pH	20.03 °C	732.48 µS/cm	1.06 mg/L	--	46.2 mV	16.91 ft	200.00 ml/min
9/25/2024 12:10 PM	03:00:00	6.66 pH	20.08 °C	731.53 µS/cm	0.95 mg/L	--	48.5 mV	16.91 ft	200.00 ml/min
9/25/2024 12:15 PM	03:05:00	6.66 pH	20.07 °C	731.94 µS/cm	0.93 mg/L	7.04 NTU	49.3 mV	16.91 ft	200.00 ml/min
9/25/2024 12:20 PM	03:10:00	6.66 pH	20.20 °C	735.33 µS/cm	0.96 mg/L	5.25 NTU	47.2 mV	16.91 ft	200.00 ml/min
9/25/2024 12:25 PM	03:15:00	6.67 pH	20.24 °C	737.13 µS/cm	0.83 mg/L	4.90 NTU	45.2 mV	16.91 ft	200.00 ml/min

Samples

Sample ID:	Description:

HAM-PT-09	Grab.

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 9/25/2024 8:40:38 AM
Project: GP-Plant Hammond
Operator Name: Zain W.

Location Name: PT-10 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 20.45 ft** **Total Depth: 30.45 ft** **Initial Depth to Water: 16.97 ft**	**Pump Type: Peristaltic** **Tubing Type: Polyethylene** **Pump Intake From TOC: 22.4 ft** **Estimated Total Volume Pumped: 16 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.03 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1120055**

Test Notes:
Appendix III & IV + Total Arsenic. Ferrous Iron: 0 mg/L, Total Iron: 0 mg/L.

Weather Conditions:
Cloudy, 70 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
9/25/2024 8:40 AM	00:00	6.70 pH	19.64 °C	655.29 µS/cm	0.84 mg/L	58.40 NTU	120.6 mV	16.97 ft	200.00 ml/min
9/25/2024 8:45 AM	05:00	6.71 pH	19.56 °C	657.47 µS/cm	0.38 mg/L	45.40 NTU	80.4 mV	16.98 ft	200.00 ml/min
9/25/2024 8:50 AM	10:00	6.72 pH	19.56 °C	657.45 µS/cm	0.81 mg/L	32.30 NTU	84.9 mV	16.99 ft	200.00 ml/min
9/25/2024 8:55 AM	15:00	6.72 pH	19.59 °C	657.37 µS/cm	0.43 mg/L	21.50 NTU	76.7 mV	17.00 ft	200.00 ml/min
9/25/2024 9:00 AM	20:00	6.72 pH	19.51 °C	656.26 µS/cm	0.65 mg/L	20.90 NTU	72.9 mV	17.00 ft	200.00 ml/min
9/25/2024 9:05 AM	25:00	6.74 pH	19.50 °C	655.03 µS/cm	0.31 mg/L	16.40 NTU	70.4 mV	17.00 ft	200.00 ml/min
9/25/2024 9:10 AM	30:00	6.72 pH	19.59 °C	660.92 µS/cm	0.44 mg/L	12.50 NTU	68.8 mV	17.00 ft	200.00 ml/min
9/25/2024 9:15 AM	35:00	6.72 pH	19.64 °C	655.52 µS/cm	0.67 mg/L	11.30 NTU	57.7 mV	17.00 ft	200.00 ml/min
9/25/2024 9:20 AM	40:00	6.71 pH	19.63 °C	631.39 µS/cm	0.51 mg/L	8.76 NTU	68.7 mV	17.00 ft	200.00 ml/min
9/25/2024 9:25 AM	45:00	6.71 pH	19.64 °C	658.29 µS/cm	0.45 mg/L	7.69 NTU	67.8 mV	17.00 ft	200.00 ml/min
9/25/2024 9:30 AM	50:00	6.70 pH	19.65 °C	657.03 µS/cm	0.34 mg/L	5.84 NTU	64.3 mV	17.00 ft	200.00 ml/min
9/25/2024 9:35 AM	55:00	6.70 pH	19.64 °C	660.71 µS/cm	0.46 mg/L	6.15 NTU	61.6 mV	17.00 ft	200.00 ml/min
9/25/2024 9:40 AM	01:00:00	6.69 pH	19.69 °C	644.61 µS/cm	0.24 mg/L	5.63 NTU	60.8 mV	17.00 ft	200.00 ml/min

9/25/2024 9:45 AM	01:05:00	6.69 pH	19.71 °C	666.30 µS/cm	0.28 mg/L	5.29 NTU	59.0 mV	17.00 ft	200.00 ml/min
9/25/2024 9:50 AM	01:10:00	6.68 pH	19.72 °C	660.77 µS/cm	0.25 mg/L	4.43 NTU	58.8 mV	17.00 ft	200.00 ml/min
9/25/2024 9:55 AM	01:15:00	6.69 pH	19.71 °C	661.53 µS/cm	0.38 mg/L	3.46 NTU	51.4 mV	17.00 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-10	Grab.

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 9/25/2024 10:44:42 AM
Project: GP-Plant Hammond
Operator Name: Zain W.

Location Name: PT-11 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 16.9 ft** **Total Depth: 26.9 ft** **Initial Depth to Water: 13.47 ft**	**Pump Type: Peristaltic** **Tubing Type: Polyethylene** **Pump Intake From TOC: 21.9 ft** **Estimated Total Volume Pumped: 50 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1120055**

Test Notes:
Appendix III & IV + Total Arsenic. Ferrous Iron: 2.0 mg/L, Total Iron: 3.0 mg/L.

Weather Conditions:
Rain, 70 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
9/25/2024 10:44 AM	00:00	6.28 pH	21.11 °C	650.44 µS/cm	1.00 mg/L	--	21.7 mV	13.47 ft	200.00 ml/min
9/25/2024 10:49 AM	05:00	6.22 pH	20.53 °C	646.49 µS/cm	1.23 mg/L	--	19.2 mV	13.47 ft	200.00 ml/min
9/25/2024 10:54 AM	10:00	6.24 pH	20.44 °C	651.08 µS/cm	0.60 mg/L	--	15.1 mV	13.47 ft	200.00 ml/min
9/25/2024 10:59 AM	15:00	6.27 pH	20.40 °C	661.44 µS/cm	0.22 mg/L	--	5.6 mV	13.47 ft	200.00 ml/min
9/25/2024 11:04 AM	20:00	6.30 pH	20.31 °C	664.60 µS/cm	0.24 mg/L	--	2.8 mV	13.47 ft	200.00 ml/min
9/25/2024 11:09 AM	25:00	6.31 pH	20.29 °C	668.72 µS/cm	0.33 mg/L	--	10.8 mV	13.47 ft	200.00 ml/min
9/25/2024 11:14 AM	30:00	6.32 pH	20.26 °C	667.70 µS/cm	0.13 mg/L	--	0.3 mV	13.47 ft	200.00 ml/min
9/25/2024 11:19 AM	35:00	6.33 pH	20.17 °C	665.09 µS/cm	0.11 mg/L	--	8.1 mV	13.47 ft	200.00 ml/min
9/25/2024 11:24 AM	40:00	6.35 pH	20.09 °C	662.85 µS/cm	0.10 mg/L	--	5.6 mV	13.47 ft	200.00 ml/min
9/25/2024 11:29 AM	45:00	6.35 pH	19.95 °C	667.55 µS/cm	0.10 mg/L	--	4.9 mV	13.47 ft	200.00 ml/min
9/25/2024 11:34 AM	50:00	6.37 pH	19.87 °C	670.50 µS/cm	0.20 mg/L	--	-2.0 mV	13.47 ft	200.00 ml/min
9/25/2024 11:39 AM	55:00	6.37 pH	19.94 °C	668.72 µS/cm	0.18 mg/L	--	9.2 mV	13.47 ft	200.00 ml/min
9/25/2024 11:44 AM	01:00:00	6.39 pH	19.91 °C	667.56 µS/cm	0.12 mg/L	--	11.4 mV	13.47 ft	200.00 ml/min

9/25/2024 11:49 AM	01:05:00	6.41 pH	19.93 °C	675.16 µS/cm	0.23 mg/L	--	-4.4 mV	13.47 ft	200.00 ml/min
9/25/2024 11:54 AM	01:10:00	6.42 pH	19.95 °C	673.78 µS/cm	0.13 mg/L	6.44 NTU	7.7 mV	13.47 ft	200.00 ml/min
9/25/2024 11:59 AM	01:15:00	6.42 pH	19.95 °C	674.53 µS/cm	1.10 mg/L	--	0.2 mV	13.47 ft	200.00 ml/min
9/25/2024 12:04 PM	01:20:00	6.43 pH	19.87 °C	681.85 µS/cm	0.23 mg/L	--	-4.4 mV	13.47 ft	200.00 ml/min
9/25/2024 12:09 PM	01:25:00	6.44 pH	19.86 °C	673.53 µS/cm	0.25 mg/L	8.65 NTU	-5.8 mV	13.47 ft	200.00 ml/min
9/25/2024 12:14 PM	01:30:00	6.45 pH	19.86 °C	676.31 µS/cm	0.34 mg/L	--	-9.8 mV	13.47 ft	200.00 ml/min
9/25/2024 12:19 PM	01:35:00	6.46 pH	19.95 °C	675.42 µS/cm	0.12 mg/L	--	1.9 mV	13.47 ft	200.00 ml/min
9/25/2024 12:24 PM	01:40:00	6.47 pH	19.98 °C	673.43 µS/cm	0.11 mg/L	--	-0.5 mV	13.47 ft	200.00 ml/min
9/25/2024 12:29 PM	01:45:00	6.49 pH	19.95 °C	676.43 µS/cm	0.32 mg/L	10.05 NTU	5.3 mV	13.47 ft	200.00 ml/min
9/25/2024 12:34 PM	01:50:00	6.48 pH	19.90 °C	674.84 µS/cm	0.18 mg/L	--	2.3 mV	13.47 ft	200.00 ml/min
9/25/2024 12:39 PM	01:55:00	6.50 pH	19.86 °C	675.11 µS/cm	0.19 mg/L	--	1.7 mV	13.47 ft	200.00 ml/min
9/25/2024 12:44 PM	02:00:00	6.50 pH	19.86 °C	674.70 µS/cm	0.19 mg/L	--	1.2 mV	13.47 ft	200.00 ml/min
9/25/2024 12:49 PM	02:05:00	6.51 pH	19.91 °C	673.97 µS/cm	0.20 mg/L	8.61 NTU	7.0 mV	13.47 ft	200.00 ml/min
9/25/2024 12:54 PM	02:10:00	6.51 pH	19.95 °C	671.88 µS/cm	0.12 mg/L	--	-1.5 mV	13.47 ft	200.00 ml/min
9/25/2024 12:59 PM	02:15:00	6.52 pH	19.95 °C	675.72 µS/cm	0.39 mg/L	--	-11.1 mV	13.47 ft	200.00 ml/min
9/25/2024 1:04 PM	02:20:00	6.53 pH	19.95 °C	672.15 µS/cm	0.13 mg/L	--	-0.3 mV	13.47 ft	200.00 ml/min
9/25/2024 1:09 PM	02:25:00	6.54 pH	20.05 °C	673.90 µS/cm	0.11 mg/L	7.25 NTU	-1.1 mV	13.47 ft	200.00 ml/min
9/25/2024 1:14 PM	02:30:00	6.54 pH	20.08 °C	673.61 µS/cm	0.09 mg/L	--	-4.0 mV	13.47 ft	200.00 ml/min
9/25/2024 1:19 PM	02:35:00	6.56 pH	20.13 °C	675.71 µS/cm	0.09 mg/L	--	-7.6 mV	13.47 ft	200.00 ml/min
9/25/2024 1:24 PM	02:40:00	6.58 pH	20.24 °C	675.52 µS/cm	0.09 mg/L	16.00 NTU	-7.2 mV	13.47 ft	200.00 ml/min
9/25/2024 1:29 PM	02:45:00	6.57 pH	20.40 °C	672.90 µS/cm	0.08 mg/L	14.70 NTU	-9.3 mV	13.47 ft	200.00 ml/min
9/25/2024 1:34 PM	02:50:00	6.58 pH	20.35 °C	675.11 µS/cm	0.09 mg/L	14.10 NTU	-8.5 mV	13.47 ft	200.00 ml/min
9/25/2024 1:39 PM	02:55:00	6.58 pH	20.40 °C	670.22 µS/cm	0.08 mg/L	14.80 NTU	-9.5 mV	13.47 ft	200.00 ml/min
9/25/2024 1:44 PM	03:00:00	6.59 pH	20.57 °C	670.85 µS/cm	0.08 mg/L	--	-11.0 mV	13.47 ft	200.00 ml/min
9/25/2024 1:49 PM	03:05:00	6.60 pH	20.61 °C	667.36 µS/cm	0.07 mg/L	--	-12.0 mV	13.47 ft	200.00 ml/min
9/25/2024 1:54 PM	03:10:00	6.60 pH	20.55 °C	666.06 µS/cm	0.07 mg/L	21.20 NTU	-12.7 mV	13.47 ft	200.00 ml/min
9/25/2024 1:59 PM	03:15:00	6.60 pH	20.42 °C	671.08 µS/cm	0.08 mg/L	--	-12.3 mV	13.47 ft	200.00 ml/min
9/25/2024 2:04 PM	03:20:00	6.63 pH	20.30 °C	674.16 µS/cm	0.08 mg/L	19.70 NTU	-12.6 mV	13.47 ft	200.00 ml/min
9/25/2024 2:09 PM	03:25:00	6.63 pH	20.22 °C	671.84 µS/cm	0.08 mg/L	--	-12.7 mV	13.47 ft	200.00 ml/min

9/25/2024 2:14 PM	03:30:00	6.63 pH	20.24 °C	670.00 µS/cm	0.08 mg/L	--	-13.4 mV	13.47 ft	200.00 ml/min
9/25/2024 2:19 PM	03:35:00	6.63 pH	20.29 °C	676.26 µS/cm	0.08 mg/L	12.40 NTU	-13.7 mV	13.47 ft	200.00 ml/min
9/25/2024 2:24 PM	03:40:00	6.63 pH	20.26 °C	675.48 µS/cm	0.07 mg/L	--	-13.7 mV	13.47 ft	200.00 ml/min
9/25/2024 2:29 PM	03:45:00	6.63 pH	20.30 °C	672.34 µS/cm	0.08 mg/L	9.44 NTU	-13.6 mV	13.47 ft	200.00 ml/min
9/25/2024 2:34 PM	03:50:00	6.62 pH	20.21 °C	669.17 µS/cm	0.08 mg/L	--	-14.0 mV	13.47 ft	200.00 ml/min
9/25/2024 2:39 PM	03:55:00	6.63 pH	20.08 °C	670.83 µS/cm	0.08 mg/L	5.87 NTU	-14.4 mV	13.47 ft	200.00 ml/min
9/25/2024 2:44 PM	04:00:00	6.63 pH	20.08 °C	673.42 µS/cm	0.08 mg/L	5.13 NTU	-14.3 mV	13.47 ft	200.00 ml/min
9/25/2024 2:49 PM	04:05:00	6.63 pH	20.04 °C	676.04 µS/cm	0.07 mg/L	4.97 NTU	-13.5 mV	13.47 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-11	Grab.

Low-Flow Test Report:

Test Date / Time: 9/25/2024 2:10:11 PM
Project: GP-Plant Hammond
Operator Name: Jacob Tracy

Location Name: PT-12 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 17.3 ft** **Total Depth: 27.3 ft** **Initial Depth to Water: 13.33 ft**	**Pump Type: Peristaltic** **Tubing Type: Polyethylene** **Pump Intake From TOC: 22.3 ft** **Estimated Total Volume Pumped: 33 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.01 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1082822**

Test Notes:
Appendix III & IV + Total Arsenic. Ferrous Iron: 0 mg/L, Total Iron: 0 mg/L.

Weather Conditions:
Cloudy, 70 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 1	+/- 0.3	
9/25/2024 2:10 PM	00:00	6.53 pH	20.36 °C	703.51 µS/cm	0.95 mg/L	++++	92.6 mV	13.36 ft	200.00 ml/min
9/25/2024 2:15 PM	05:00	6.55 pH	20.50 °C	709.20 µS/cm	0.97 mg/L	++++	100.0 mV	13.34 ft	200.00 ml/min
9/25/2024 2:20 PM	10:00	6.57 pH	20.53 °C	708.32 µS/cm	0.95 mg/L	++++	83.2 mV	13.34 ft	200.00 ml/min
9/25/2024 2:25 PM	15:00	6.56 pH	20.44 °C	704.57 µS/cm	0.98 mg/L	++++	82.9 mV	13.34 ft	200.00 ml/min
9/25/2024 2:30 PM	20:00	6.57 pH	20.47 °C	703.04 µS/cm	0.97 mg/L	++++	81.9 mV	13.34 ft	200.00 ml/min
9/25/2024 2:35 PM	25:00	6.57 pH	20.36 °C	705.01 µS/cm	0.95 mg/L	++++	81.3 mV	13.34 ft	200.00 ml/min
9/25/2024 2:40 PM	30:00	6.57 pH	20.31 °C	706.76 µS/cm	0.86 mg/L	++++	81.3 mV	13.34 ft	200.00 ml/min
9/25/2024 2:45 PM	35:00	6.55 pH	20.29 °C	706.85 µS/cm	0.89 mg/L	++++	81.8 mV	13.34 ft	200.00 ml/min
9/25/2024 2:50 PM	40:00	6.56 pH	20.22 °C	707.53 µS/cm	0.87 mg/L	108.00 NTU	80.7 mV	13.34 ft	200.00 ml/min
9/25/2024 2:55 PM	45:00	6.56 pH	20.20 °C	705.69 µS/cm	0.87 mg/L	102.00 NTU	80.6 mV	13.34 ft	200.00 ml/min
9/25/2024 3:00 PM	50:00	6.56 pH	20.23 °C	706.99 µS/cm	0.88 mg/L	96.00 NTU	79.5 mV	13.34 ft	200.00 ml/min
9/25/2024 3:05 PM	55:00	6.57 pH	20.31 °C	707.51 µS/cm	0.85 mg/L	88.00 NTU	79.7 mV	13.34 ft	200.00 ml/min
9/25/2024 3:10 PM	01:00:00	6.56 pH	20.42 °C	717.94 µS/cm	0.88 mg/L	82.50 NTU	92.6 mV	13.34 ft	200.00 ml/min

9/25/2024 3:15 PM	01:05:00	6.54 pH	20.20 °C	716.26 µS/cm	0.87 mg/L	64.30 NTU	79.5 mV	13.34 ft	200.00 ml/min
9/25/2024 3:20 PM	01:10:00	6.53 pH	20.15 °C	715.21 µS/cm	0.85 mg/L	59.60 NTU	80.0 mV	13.34 ft	200.00 ml/min
9/25/2024 3:25 PM	01:15:00	6.52 pH	20.11 °C	715.14 µS/cm	0.85 mg/L	58.20 NTU	80.2 mV	13.34 ft	200.00 ml/min
9/25/2024 3:30 PM	01:20:00	6.54 pH	20.20 °C	715.34 µS/cm	0.86 mg/L	48.30 NTU	78.8 mV	13.34 ft	200.00 ml/min
9/25/2024 3:35 PM	01:25:00	6.56 pH	20.24 °C	713.10 µS/cm	0.87 mg/L	42.40 NTU	78.2 mV	13.34 ft	200.00 ml/min
9/25/2024 3:40 PM	01:30:00	6.54 pH	20.31 °C	712.09 µS/cm	0.86 mg/L	38.40 NTU	77.9 mV	13.34 ft	200.00 ml/min
9/25/2024 3:45 PM	01:35:00	6.50 pH	20.21 °C	712.07 µS/cm	0.85 mg/L	36.60 NTU	78.2 mV	13.34 ft	200.00 ml/min
9/25/2024 3:50 PM	01:40:00	6.50 pH	20.09 °C	711.55 µS/cm	0.85 mg/L	34.40 NTU	79.2 mV	13.34 ft	200.00 ml/min
9/25/2024 3:55 PM	01:45:00	6.50 pH	20.01 °C	711.47 µS/cm	0.83 mg/L	29.50 NTU	79.3 mV	13.34 ft	200.00 ml/min
9/25/2024 4:00 PM	01:50:00	6.50 pH	19.96 °C	708.67 µS/cm	0.83 mg/L	24.30 NTU	91.1 mV	13.34 ft	200.00 ml/min
9/25/2024 4:05 PM	01:55:00	6.50 pH	19.95 °C	708.62 µS/cm	0.85 mg/L	22.00 NTU	79.1 mV	13.34 ft	200.00 ml/min
9/25/2024 4:10 PM	02:00:00	6.48 pH	19.88 °C	710.06 µS/cm	0.78 mg/L	21.90 NTU	79.5 mV	13.34 ft	200.00 ml/min
9/25/2024 4:15 PM	02:05:00	6.51 pH	19.92 °C	711.27 µS/cm	0.88 mg/L	16.50 NTU	77.6 mV	13.34 ft	200.00 ml/min
9/25/2024 4:20 PM	02:10:00	6.50 pH	19.90 °C	705.19 µS/cm	0.90 mg/L	14.70 NTU	78.0 mV	13.34 ft	200.00 ml/min
9/25/2024 4:25 PM	02:15:00	6.50 pH	19.89 °C	703.85 µS/cm	0.90 mg/L	12.00 NTU	77.8 mV	13.34 ft	200.00 ml/min
9/25/2024 4:30 PM	02:20:00	6.49 pH	19.94 °C	705.11 µS/cm	0.91 mg/L	9.90 NTU	78.0 mV	13.34 ft	200.00 ml/min
9/25/2024 4:35 PM	02:25:00	6.52 pH	19.94 °C	707.28 µS/cm	0.90 mg/L	7.47 NTU	77.4 mV	13.34 ft	200.00 ml/min
9/25/2024 4:40 PM	02:30:00	6.50 pH	19.93 °C	702.63 µS/cm	0.90 mg/L	6.98 NTU	78.0 mV	13.34 ft	200.00 ml/min
9/25/2024 4:45 PM	02:35:00	6.47 pH	19.97 °C	702.94 µS/cm	0.88 mg/L	5.88 NTU	79.5 mV	13.34 ft	200.00 ml/min
9/25/2024 4:50 PM	02:40:00	6.51 pH	19.99 °C	709.24 µS/cm	0.86 mg/L	4.72 NTU	76.6 mV	13.34 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-12	Grab.

Low-Flow Test Report:

Test Date / Time: 9/24/2024 9:25:04 AM
Project: GP-Plant Hammond
Operator Name: Jacob Tracy

Location Name: PT-13 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 35.3 ft** **Total Depth: 45.3 ft** **Initial Depth to Water: 26.14 ft**	**Pump Type: Bladder** **Tubing Type: Polyethylene** **Pump Intake From TOC: 40.3 ft** **Estimated Total Volume Pumped: 37 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.08 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1082822**

Test Notes:
Appendix III & IV + Total Arsenic. Ferrous Iron: 5.6 mg/L, Total Iron: 5.7 mg/L.

Weather Conditions:
Cloudy, 70 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 1	+/- 0.3	
9/24/2024 9:25 AM	00:00	6.56 pH	20.78 °C	675.79 µS/cm	1.23 mg/L	++++	26.9 mV	26.19 ft	200.00 ml/min
9/24/2024 9:30 AM	05:00	6.57 pH	20.83 °C	677.43 µS/cm	1.29 mg/L	++++	21.8 mV	26.22 ft	200.00 ml/min
9/24/2024 9:35 AM	10:00	6.57 pH	20.96 °C	667.85 µS/cm	1.27 mg/L	++++	20.9 mV	26.22 ft	200.00 ml/min
9/24/2024 9:40 AM	15:00	6.57 pH	20.96 °C	659.15 µS/cm	1.18 mg/L	++++	14.2 mV	26.22 ft	200.00 ml/min
9/24/2024 9:45 AM	20:00	6.56 pH	21.12 °C	667.82 µS/cm	1.14 mg/L	90.80 NTU	15.1 mV	26.22 ft	200.00 ml/min
9/24/2024 9:50 AM	25:00	6.56 pH	21.63 °C	654.47 µS/cm	1.09 mg/L	72.10 NTU	8.5 mV	26.22 ft	200.00 ml/min
9/24/2024 9:55 AM	30:00	6.55 pH	21.18 °C	652.67 µS/cm	1.06 mg/L	49.60 NTU	12.0 mV	26.22 ft	200.00 ml/min
9/24/2024 10:00 AM	35:00	6.55 pH	21.22 °C	650.18 µS/cm	1.04 mg/L	40.10 NTU	5.6 mV	26.22 ft	200.00 ml/min
9/24/2024 10:05 AM	40:00	6.55 pH	21.56 °C	655.22 µS/cm	0.96 mg/L	36.20 NTU	2.9 mV	26.22 ft	200.00 ml/min
9/24/2024 10:10 AM	45:00	6.55 pH	21.45 °C	652.56 µS/cm	0.97 mg/L	35.90 NTU	1.5 mV	26.22 ft	200.00 ml/min
9/24/2024 10:15 AM	50:00	6.54 pH	21.43 °C	639.36 µS/cm	0.92 mg/L	27.40 NTU	6.5 mV	26.22 ft	200.00 ml/min
9/24/2024 10:20 AM	55:00	6.54 pH	21.68 °C	664.86 µS/cm	0.87 mg/L	20.80 NTU	-0.1 mV	26.22 ft	200.00 ml/min
9/24/2024 10:25 AM	01:00:00	6.54 pH	21.65 °C	663.16 µS/cm	0.83 mg/L	19.50 NTU	-2.1 mV	26.22 ft	200.00 ml/min

9/24/2024 10:30 AM	01:05:00	6.53 pH	21.52 °C	661.72 µS/cm	0.79 mg/L	18.70 NTU	-3.2 mV	26.22 ft	200.00 ml/min
9/24/2024 10:35 AM	01:10:00	6.54 pH	21.88 °C	648.41 µS/cm	0.72 mg/L	18.80 NTU	-0.4 mV	26.22 ft	200.00 ml/min
9/24/2024 10:40 AM	01:15:00	6.53 pH	22.03 °C	651.71 µS/cm	0.69 mg/L	18.20 NTU	-1.0 mV	26.22 ft	200.00 ml/min
9/24/2024 10:45 AM	01:20:00	6.53 pH	22.12 °C	646.25 µS/cm	0.61 mg/L	14.60 NTU	-5.6 mV	26.22 ft	200.00 ml/min
9/24/2024 10:50 AM	01:25:00	6.54 pH	22.20 °C	654.86 µS/cm	0.51 mg/L	11.10 NTU	-16.3 mV	26.22 ft	200.00 ml/min
9/24/2024 10:55 AM	01:30:00	6.53 pH	22.16 °C	647.68 µS/cm	0.45 mg/L	11.30 NTU	-8.7 mV	26.22 ft	200.00 ml/min
9/24/2024 11:00 AM	01:35:00	6.52 pH	22.18 °C	648.57 µS/cm	0.45 mg/L	11.00 NTU	-8.1 mV	26.22 ft	200.00 ml/min
9/24/2024 11:05 AM	01:40:00	6.53 pH	22.28 °C	660.12 µS/cm	0.44 mg/L	10.80 NTU	-14.6 mV	26.22 ft	200.00 ml/min
9/24/2024 11:10 AM	01:45:00	6.53 pH	22.34 °C	653.16 µS/cm	0.42 mg/L	10.40 NTU	-9.0 mV	26.22 ft	200.00 ml/min
9/24/2024 11:15 AM	01:50:00	6.53 pH	22.34 °C	656.38 µS/cm	0.41 mg/L	9.90 NTU	-15.8 mV	26.22 ft	200.00 ml/min
9/24/2024 11:20 AM	01:55:00	6.51 pH	22.39 °C	660.89 µS/cm	0.38 mg/L	9.60 NTU	-10.0 mV	26.22 ft	200.00 ml/min
9/24/2024 11:25 AM	02:00:00	6.52 pH	22.56 °C	662.89 µS/cm	0.37 mg/L	7.84 NTU	-10.6 mV	26.22 ft	200.00 ml/min
9/24/2024 11:30 AM	02:05:00	6.52 pH	22.48 °C	652.05 µS/cm	0.36 mg/L	7.52 NTU	-10.4 mV	26.22 ft	200.00 ml/min
9/24/2024 11:35 AM	02:10:00	6.52 pH	22.52 °C	663.89 µS/cm	0.37 mg/L	7.34 NTU	-10.7 mV	26.22 ft	200.00 ml/min
9/24/2024 11:40 AM	02:15:00	6.52 pH	22.61 °C	665.86 µS/cm	0.38 mg/L	7.18 NTU	-11.2 mV	26.22 ft	200.00 ml/min
9/24/2024 11:45 AM	02:20:00	6.53 pH	22.70 °C	675.26 µS/cm	0.37 mg/L	6.97 NTU	-11.9 mV	26.22 ft	200.00 ml/min
9/24/2024 11:50 AM	02:25:00	6.52 pH	22.67 °C	671.85 µS/cm	0.35 mg/L	6.38 NTU	-11.9 mV	26.22 ft	200.00 ml/min
9/24/2024 11:55 AM	02:30:00	6.52 pH	22.64 °C	670.79 µS/cm	0.34 mg/L	5.71 NTU	-12.9 mV	26.22 ft	200.00 ml/min
9/24/2024 12:00 PM	02:35:00	6.53 pH	22.87 °C	666.81 µS/cm	0.35 mg/L	5.21 NTU	-18.7 mV	26.22 ft	200.00 ml/min
9/24/2024 12:05 PM	02:40:00	6.51 pH	22.81 °C	673.67 µS/cm	0.35 mg/L	5.25 NTU	-11.6 mV	26.22 ft	200.00 ml/min
9/24/2024 12:10 PM	02:45:00	6.53 pH	22.89 °C	670.20 µS/cm	0.36 mg/L	5.34 NTU	-12.8 mV	26.22 ft	200.00 ml/min
9/24/2024 12:15 PM	02:50:00	6.52 pH	23.05 °C	677.61 µS/cm	0.33 mg/L	5.27 NTU	-13.9 mV	26.22 ft	200.00 ml/min
9/24/2024 12:20 PM	02:55:00	6.52 pH	22.90 °C	676.20 µS/cm	0.35 mg/L	5.45 NTU	-12.7 mV	26.22 ft	200.00 ml/min
9/24/2024 12:25 PM	03:00:00	6.52 pH	23.01 °C	682.25 µS/cm	0.37 mg/L	4.97 NTU	-13.8 mV	26.22 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-13	Grab.

Low-Flow Test Report:

Test Date / Time: 9/24/2024 1:45:09 PM
Project: GP-Plant Hammond
Operator Name: Jacob Tracy

Location Name: PT-14 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 35.3 ft** **Total Depth: 45.3 ft** **Initial Depth to Water: 26.05 ft**	**Pump Type: Bladder** **Tubing Type: Polyethylene** **Pump Intake From TOC: 40.3 ft** **Estimated Total Volume Pumped: 12 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1082822**

Test Notes:
Appendix III & IV + Total Arsenic. Ferrous Iron: 5.8 mg/L, Total Iron: 6.2 mg/L.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 1	+/- 0.3	
9/24/2024 1:45 PM	00:00	6.69 pH	22.86 °C	789.63 µS/cm	0.48 mg/L	87.80 NTU	-63.7 mV	26.05 ft	200.00 ml/min
9/24/2024 1:50 PM	05:00	6.69 pH	22.51 °C	791.91 µS/cm	0.37 mg/L	75.40 NTU	-63.6 mV	26.05 ft	200.00 ml/min
9/24/2024 1:55 PM	10:00	6.69 pH	22.34 °C	787.07 µS/cm	0.34 mg/L	53.60 NTU	-64.1 mV	26.05 ft	200.00 ml/min
9/24/2024 2:00 PM	15:00	6.69 pH	22.28 °C	785.24 µS/cm	0.31 mg/L	31.50 NTU	-65.9 mV	26.05 ft	200.00 ml/min
9/24/2024 2:05 PM	20:00	6.71 pH	22.20 °C	777.25 µS/cm	0.29 mg/L	20.70 NTU	-67.5 mV	26.05 ft	200.00 ml/min
9/24/2024 2:10 PM	25:00	6.70 pH	22.07 °C	775.33 µS/cm	0.27 mg/L	17.50 NTU	-66.4 mV	26.05 ft	200.00 ml/min
9/24/2024 2:15 PM	30:00	6.71 pH	22.01 °C	772.16 µS/cm	0.26 mg/L	12.90 NTU	-67.5 mV	26.05 ft	200.00 ml/min
9/24/2024 2:20 PM	35:00	6.70 pH	22.06 °C	772.74 µS/cm	0.25 mg/L	10.60 NTU	-68.6 mV	26.05 ft	200.00 ml/min
9/24/2024 2:25 PM	40:00	6.71 pH	21.98 °C	772.36 µS/cm	0.25 mg/L	9.21 NTU	-77.3 mV	26.05 ft	200.00 ml/min
9/24/2024 2:30 PM	45:00	6.70 pH	21.90 °C	768.99 µS/cm	0.25 mg/L	5.83 NTU	-69.3 mV	26.05 ft	200.00 ml/min
9/24/2024 2:35 PM	50:00	6.69 pH	21.80 °C	768.59 µS/cm	0.24 mg/L	5.64 NTU	-69.4 mV	26.05 ft	200.00 ml/min
9/24/2024 2:40 PM	55:00	6.69 pH	21.91 °C	783.86 µS/cm	0.24 mg/L	4.97 NTU	-69.9 mV	26.05 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-14	Grab.

Low-Flow Test Report:

Test Date / Time: 9/24/2024 10:08:44 AM
Project: GP-Plant Hammond
Operator Name: Zain W.

Location Name: PT-15 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 35 ft** **Total Depth: 45 ft** **Initial Depth to Water: 26.13 ft**	**Pump Type: Bladder** **Tubing Type: Polyethylene** **Pump Intake From TOC: 40.3 ft** **Estimated Total Volume Pumped: 8.25 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 150 ml/min** **Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1120055**

Test Notes:
Appendix III & IV + Total Arsenic. Ferrous Iron: 0 mg/L, Total Iron: 0 mg/L.

Weather Conditions:
Cloudy, 75 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
9/24/2024 10:08 AM	00:00	6.73 pH	21.04 °C	645.47 µS/cm	1.77 mg/L	10.21 NTU	44.8 mV	26.13 ft	150.00 ml/min
9/24/2024 10:13 AM	05:00	6.73 pH	20.97 °C	630.77 µS/cm	1.46 mg/L	8.49 NTU	42.0 mV	26.13 ft	150.00 ml/min
9/24/2024 10:18 AM	10:00	6.73 pH	20.92 °C	627.07 µS/cm	1.19 mg/L	3.88 NTU	48.8 mV	26.13 ft	150.00 ml/min
9/24/2024 10:23 AM	15:00	6.73 pH	20.93 °C	618.11 µS/cm	0.97 mg/L	2.26 NTU	41.6 mV	26.13 ft	150.00 ml/min
9/24/2024 10:28 AM	20:00	6.72 pH	20.88 °C	614.36 µS/cm	0.85 mg/L	1.99 NTU	47.4 mV	26.13 ft	150.00 ml/min
9/24/2024 10:33 AM	25:00	6.73 pH	20.93 °C	607.24 µS/cm	0.81 mg/L	1.11 NTU	40.9 mV	26.13 ft	150.00 ml/min
9/24/2024 10:38 AM	30:00	6.73 pH	20.93 °C	607.19 µS/cm	0.64 mg/L	1.00 NTU	41.7 mV	26.13 ft	150.00 ml/min
9/24/2024 10:43 AM	35:00	6.73 pH	20.93 °C	600.98 µS/cm	0.56 mg/L	0.93 NTU	50.3 mV	26.13 ft	150.00 ml/min
9/24/2024 10:48 AM	40:00	6.73 pH	20.86 °C	598.09 µS/cm	0.53 mg/L	0.75 NTU	42.3 mV	26.13 ft	150.00 ml/min
9/24/2024 10:53 AM	45:00	6.73 pH	20.88 °C	587.09 µS/cm	0.46 mg/L	0.58 NTU	42.3 mV	26.13 ft	150.00 ml/min
9/24/2024 10:58 AM	50:00	6.73 pH	20.93 °C	582.11 µS/cm	0.43 mg/L	0.55 NTU	41.7 mV	26.13 ft	150.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-15	Grab.

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 10/2/2024 4:29:21 PM
Project: GP-Plant Hammond
Operator Name: Elisabeth R.

Location Name: INW-03 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 17.4 ft** **Total Depth: 27.4 ft** **Initial Depth to Water: 12.45 ft**	**Pump Type: Peristaltic** **Tubing Type: Polyethylene** **Pump Intake From TOC: 22 ft** **Estimated Total Volume Pumped: 5 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 883561**

Test Notes:
Parameters; No Sample.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
10/2/2024 4:29 PM	00:00	6.69 pH	22.88 °C	863.53 µS/cm	1.61 mg/L	40.50 NTU	-73.6 mV	12.45 ft	200.00 ml/min
10/2/2024 4:34 PM	05:00	5.92 pH	22.28 °C	728.61 µS/cm	0.71 mg/L	31.30 NTU	-17.6 mV	12.45 ft	200.00 ml/min
10/2/2024 4:35 PM	06:27	6.05 pH	22.17 °C	756.08 µS/cm	0.60 mg/L	28.20 NTU	-32.5 mV	12.45 ft	200.00 ml/min
10/2/2024 4:40 PM	11:27	6.30 pH	22.00 °C	796.46 µS/cm	0.58 mg/L	27.20 NTU	-62.7 mV	12.45 ft	200.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 10/1/2024 1:40:58 PM
Project: GP-Plant Hammond
Operator Name: Zain W.

Location Name: PT-07 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 37.75 ft** **Total Depth: 47.75 ft** **Initial Depth to Water: 25.09 ft**	**Pump Type: Bladder** **Tubing Type: Polyethylene** **Pump Intake From TOC: 42.75 ft** **Estimated Total Volume Pumped: 7.5 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 150 ml/min** **Final Draw Down: 0.04 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 883530**

Test Notes:
Metals. Ferrous Iron: 0 mg/L. Total Iron: 0 mg/L.

Weather Conditions:
Clear, 90 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
10/1/2024 1:40 PM	00:00	6.73 pH	22.11 °C	772.84 µS/cm	0.85 mg/L	16.60 NTU	413.2 mV	25.09 ft	150.00 ml/min
10/1/2024 1:45 PM	05:00	6.91 pH	21.70 °C	772.84 µS/cm	0.64 mg/L	15.20 NTU	711.6 mV	25.13 ft	150.00 ml/min
10/1/2024 1:50 PM	10:00	6.91 pH	21.65 °C	764.40 µS/cm	0.52 mg/L	13.40 NTU	818.8 mV	25.13 ft	150.00 ml/min
10/1/2024 1:55 PM	15:00	6.92 pH	21.47 °C	769.95 µS/cm	0.48 mg/L	11.80 NTU	819.5 mV	25.13 ft	150.00 ml/min
10/1/2024 2:00 PM	20:00	6.93 pH	21.27 °C	767.64 µS/cm	0.40 mg/L	10.21 NTU	725.4 mV	25.13 ft	150.00 ml/min
10/1/2024 2:05 PM	25:00	6.93 pH	21.33 °C	765.65 µS/cm	0.37 mg/L	9.48 NTU	752.4 mV	25.13 ft	150.00 ml/min
10/1/2024 2:10 PM	30:00	6.94 pH	21.16 °C	759.75 µS/cm	0.34 mg/L	8.25 NTU	680.7 mV	25.13 ft	150.00 ml/min
10/1/2024 2:15 PM	35:00	6.93 pH	21.04 °C	763.45 µS/cm	0.28 mg/L	6.33 NTU	685.1 mV	25.13 ft	150.00 ml/min
10/1/2024 2:20 PM	40:00	6.93 pH	20.92 °C	761.07 µS/cm	0.22 mg/L	5.18 NTU	646.6 mV	25.13 ft	150.00 ml/min
10/1/2024 2:25 PM	45:00	6.94 pH	21.10 °C	754.99 µS/cm	0.19 mg/L	4.92 NTU	591.7 mV	25.13 ft	150.00 ml/min

Samples

Sample ID:	Description:

HAM-PT-07	Grab.

Low-Flow Test Report:

Test Date / Time: 10/1/2024 12:55:40 PM
Project: GP-Plant Hammond
Operator Name: Elisabeth R.

Location Name: PT-08 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 31.93 ft** **Total Depth: 41.93 ft** **Initial Depth to Water: 25.3 ft**	**Pump Type: Bladder** **Tubing Type: Polyethylene** **Pump Intake From TOC: 37 ft** **Estimated Total Volume Pumped: 21 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.02 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 883561**

Test Notes:
Metals. Ferrous Iron: 2.0 mg/L, Total Iron: 5.0 mg/L.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
10/1/2024 12:55 PM	00:00	6.66 pH	21.56 °C	763.85 µS/cm	5.98 mg/L	55.40 NTU	-26.6 mV	25.30 ft	200.00 ml/min
10/1/2024 1:00 PM	05:00	6.65 pH	21.41 °C	770.67 µS/cm	5.48 mg/L	40.10 NTU	-25.6 mV	25.30 ft	200.00 ml/min
10/1/2024 1:05 PM	10:00	6.65 pH	21.42 °C	758.41 µS/cm	5.06 mg/L	34.50 NTU	-21.4 mV	25.31 ft	200.00 ml/min
10/1/2024 1:10 PM	15:00	6.66 pH	21.48 °C	769.08 µS/cm	4.60 mg/L	31.60 NTU	-29.3 mV	25.32 ft	200.00 ml/min
10/1/2024 1:15 PM	20:00	6.66 pH	20.97 °C	765.71 µS/cm	4.22 mg/L	28.10 NTU	-43.8 mV	25.32 ft	200.00 ml/min
10/1/2024 1:20 PM	25:00	6.66 pH	21.38 °C	755.58 µS/cm	3.73 mg/L	28.40 NTU	-45.3 mV	25.32 ft	200.00 ml/min
10/1/2024 1:25 PM	30:00	6.65 pH	21.07 °C	751.02 µS/cm	3.42 mg/L	29.40 NTU	-43.6 mV	25.32 ft	200.00 ml/min
10/1/2024 1:30 PM	35:00	6.65 pH	20.80 °C	776.94 µS/cm	3.15 mg/L	28.50 NTU	-41.9 mV	25.32 ft	200.00 ml/min
10/1/2024 1:35 PM	40:00	6.64 pH	20.73 °C	772.73 µS/cm	2.87 mg/L	27.00 NTU	-30.3 mV	25.32 ft	200.00 ml/min
10/1/2024 1:40 PM	45:00	6.64 pH	21.03 °C	768.51 µS/cm	2.58 mg/L	26.40 NTU	-38.1 mV	25.32 ft	200.00 ml/min
10/1/2024 1:45 PM	50:00	6.64 pH	21.34 °C	762.81 µS/cm	2.29 mg/L	21.30 NTU	-27.8 mV	25.32 ft	200.00 ml/min
10/1/2024 1:50 PM	55:00	6.63 pH	21.37 °C	757.78 µS/cm	2.06 mg/L	14.70 NTU	-26.7 mV	25.32 ft	200.00 ml/min
10/1/2024 1:55 PM	01:00:00	6.64 pH	21.19 °C	756.87 µS/cm	1.86 mg/L	13.20 NTU	-33.7 mV	25.32 ft	200.00 ml/min
10/1/2024 2:00 PM	01:05:00	6.63 pH	21.10 °C	753.53 µS/cm	1.70 mg/L	12.50 NTU	-23.9 mV	25.32 ft	200.00 ml/min
10/1/2024 2:05 PM	01:10:00	6.63 pH	21.15 °C	749.72 µS/cm	1.45 mg/L	11.00 NTU	-23.0 mV	25.32 ft	200.00 ml/min

10/1/2024 2:10 PM	01:15:00	6.64 pH	20.97 °C	743.97 µS/cm	1.32 mg/L	9.67 NTU	-22.4 mV	25.32 ft	200.00 ml/min
10/1/2024 2:15 PM	01:20:00	6.63 pH	20.93 °C	739.23 µS/cm	0.92 mg/L	6.41 NTU	-29.6 mV	25.32 ft	200.00 ml/min
10/1/2024 2:20 PM	01:25:00	6.63 pH	20.84 °C	737.03 µS/cm	0.81 mg/L	5.50 NTU	-28.9 mV	25.32 ft	200.00 ml/min
10/1/2024 2:25 PM	01:30:00	6.62 pH	21.11 °C	732.46 µS/cm	0.70 mg/L	3.57 NTU	-19.7 mV	25.32 ft	200.00 ml/min
10/1/2024 2:30 PM	01:35:00	6.62 pH	21.37 °C	730.56 µS/cm	0.59 mg/L	4.11 NTU	-26.9 mV	25.32 ft	200.00 ml/min
10/1/2024 2:35 PM	01:40:00	6.63 pH	21.51 °C	732.73 µS/cm	0.52 mg/L	3.60 NTU	-27.1 mV	25.32 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-08	Grab.

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 10/2/2024 11:16:09 AM
Project: GP-Plant Hammond
Operator Name: Zain W.

Location Name: PT-09 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 20.47 ft** **Total Depth: 30.47 ft** **Initial Depth to Water: 15.5 ft**	**Pump Type: Peristaltic** **Tubing Type: Polyethylene** **Pump Intake From TOC: 25.47 ft** **Estimated Total Volume Pumped: 10.5 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 150 ml/min** **Final Draw Down: 0.01 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 883530**

Test Notes:
Metals. Ferrous Iron: 0 mg/L, Total Iron: 0 mg/L.

Weather Conditions: Clear, 85 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
10/2/2024 11:16 AM	00:00	6.77 pH	21.20 °C	647.49 µS/cm	0.05 mg/L	32.00 NTU	111.9 mV	15.50 ft	150.00 ml/min
10/2/2024 11:21 AM	05:00	6.80 pH	21.15 °C	693.39 µS/cm	0.04 mg/L	30.60 NTU	401.2 mV	15.51 ft	150.00 ml/min
10/2/2024 11:26 AM	10:00	6.81 pH	21.13 °C	691.98 µS/cm	0.04 mg/L	28.50 NTU	447.7 mV	15.51 ft	150.00 ml/min
10/2/2024 11:31 AM	15:00	6.81 pH	20.98 °C	697.20 µS/cm	0.04 mg/L	27.70 NTU	463.8 mV	15.51 ft	150.00 ml/min
10/2/2024 11:36 AM	20:00	6.81 pH	20.98 °C	698.06 µS/cm	0.04 mg/L	26.90 NTU	469.6 mV	15.51 ft	150.00 ml/min
10/2/2024 11:41 AM	25:00	6.80 pH	21.06 °C	697.25 µS/cm	0.03 mg/L	27.40 NTU	470.3 mV	15.51 ft	150.00 ml/min
10/2/2024 11:46 AM	30:00	6.80 pH	21.11 °C	694.10 µS/cm	0.03 mg/L	23.20 NTU	467.8 mV	15.51 ft	150.00 ml/min
10/2/2024 11:51 AM	35:00	6.80 pH	21.11 °C	698.38 µS/cm	0.03 mg/L	17.90 NTU	465.4 mV	15.51 ft	150.00 ml/min
10/2/2024 11:56 AM	40:00	6.80 pH	21.19 °C	691.78 µS/cm	0.03 mg/L	14.80 NTU	461.8 mV	15.51 ft	150.00 ml/min
10/2/2024 12:01 PM	45:00	6.79 pH	21.05 °C	692.02 µS/cm	0.03 mg/L	11.40 NTU	458.3 mV	15.51 ft	150.00 ml/min
10/2/2024 12:06 PM	50:00	6.79 pH	21.02 °C	693.76 µS/cm	0.03 mg/L	6.93 NTU	455.5 mV	15.51 ft	150.00 ml/min
10/2/2024 12:11 PM	55:00	6.81 pH	21.16 °C	697.36 µS/cm	0.04 mg/L	5.14 NTU	451.8 mV	15.51 ft	150.00 ml/min
10/2/2024 12:16 PM	01:00:00	6.81 pH	21.11 °C	696.66 µS/cm	0.05 mg/L	3.87 NTU	447.2 mV	15.51 ft	150.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-09	Grab.
HAM-AP1-FD-01	Grab.

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 10/2/2024 11:33:40 AM
Project: GP-Plant Hammond
Operator Name: Elisabeth R.

Location Name: PT-10 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 25.45 ft** **Top of Screen: 20.45 ft** **Total Depth: 30.45 ft** **Initial Depth to Water: 15.7 ft**	**Pump Type: Peristaltic** **Tubing Type: Polyethylene Pump Intake From TOC: 25 ft** **Estimated Total Volume Pumped: 8 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min Final Draw Down: 0.02 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 883561**

Test Notes:
Metals. Ferrous Iron: 0 mg/L, Total Iron: 0 mg/L.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
10/2/2024 11:33 AM	00:00	7.08 pH	21.57 °C	706.62 µS/cm	0.53 mg/L	21.80 NTU	-40.5 mV	15.70 ft	200.00 ml/min
10/2/2024 11:38 AM	05:00	7.06 pH	21.58 °C	698.33 µS/cm	0.53 mg/L	18.30 NTU	-44.7 mV	15.71 ft	200.00 ml/min
10/2/2024 11:43 AM	10:00	7.04 pH	21.58 °C	689.07 µS/cm	0.53 mg/L	13.40 NTU	-39.2 mV	15.71 ft	200.00 ml/min
10/2/2024 11:48 AM	15:00	7.03 pH	21.49 °C	685.61 µS/cm	0.56 mg/L	7.83 NTU	-31.0 mV	15.71 ft	200.00 ml/min
10/2/2024 11:53 AM	20:00	7.01 pH	21.67 °C	680.20 µS/cm	0.39 mg/L	4.67 NTU	-13.1 mV	15.72 ft	200.00 ml/min
10/2/2024 11:58 AM	25:00	7.01 pH	21.64 °C	676.89 µS/cm	0.28 mg/L	2.98 NTU	-8.8 mV	15.72 ft	200.00 ml/min
10/2/2024 12:03 PM	30:00	6.99 pH	21.62 °C	674.40 µS/cm	0.28 mg/L	2.31 NTU	-6.2 mV	15.72 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-10	Grab.

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 10/2/2024 9:16:22 AM
Project: GP-Plant Hammond
Operator Name: Zain W.

Location Name: PT-11 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 16.9 ft** **Total Depth: 26.9 ft** **Initial Depth to Water: 12.1 ft**	**Pump Type: Peristaltic** **Tubing Type: Polyethylene** **Pump Intake From TOC: 21.9 ft** **Estimated Total Volume Pumped: 7.5 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 150 ml/min Final Draw Down: 0.01 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 883530**

Test Notes:
Metals. Ferrous Iron: 2.0 mg/L, Total Iron: 2.0 mg/L.

Weather Conditions:
Clear, 75 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
10/2/2024 9:16 AM	00:00	7.00 pH	21.21 °C	628.69 µS/cm	0.53 mg/L	3.26 NTU	171.2 mV	12.10 ft	150.00 ml/min
10/2/2024 9:21 AM	05:00	6.80 pH	20.75 °C	652.77 µS/cm	0.37 mg/L	4.68 NTU	478.2 mV	12.11 ft	150.00 ml/min
10/2/2024 9:26 AM	10:00	6.79 pH	20.84 °C	656.05 µS/cm	0.28 mg/L	4.85 NTU	505.0 mV	12.11 ft	150.00 ml/min
10/2/2024 9:31 AM	15:00	6.67 pH	20.98 °C	661.83 µS/cm	0.10 mg/L	5.16 NTU	414.7 mV	12.11 ft	150.00 ml/min
10/2/2024 9:36 AM	20:00	6.68 pH	21.01 °C	669.17 µS/cm	0.09 mg/L	4.55 NTU	407.9 mV	12.11 ft	150.00 ml/min
10/2/2024 9:41 AM	25:00	6.68 pH	21.02 °C	667.35 µS/cm	0.08 mg/L	5.93 NTU	460.1 mV	12.11 ft	150.00 ml/min
10/2/2024 9:46 AM	30:00	6.67 pH	20.98 °C	668.51 µS/cm	0.07 mg/L	6.60 NTU	457.6 mV	12.11 ft	150.00 ml/min
10/2/2024 9:51 AM	35:00	6.66 pH	21.07 °C	661.15 µS/cm	0.06 mg/L	6.97 NTU	458.3 mV	12.11 ft	150.00 ml/min
10/2/2024 9:56 AM	40:00	6.66 pH	21.13 °C	664.35 µS/cm	0.06 mg/L	5.49 NTU	417.2 mV	12.11 ft	150.00 ml/min
10/2/2024 10:01 AM	45:00	6.64 pH	21.20 °C	658.94 µS/cm	0.06 mg/L	4.70 NTU	406.7 mV	12.11 ft	150.00 ml/min

Samples

Sample ID:	Description:

HAM-PT-11	Grab.

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 10/2/2024 8:47:38 AM
Project: GP-Plant Hammond
Operator Name: Elisabeth R.

Location Name: PT-12 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 17.3 ft** **Total Depth: 27.3 ft** **Initial Depth to Water: 12.1 ft**	**Pump Type: Peristaltic** **Tubing Type: Polyethylene** **Pump Intake From TOC: 22 ft** **Estimated Total Volume Pumped: 20 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min Final Draw Down: 0.01 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 883561**

Test Notes:
Metals. Ferrous Iron: 0 mg/L, Total Iron: 0 mg/L.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
10/2/2024 8:47 AM	00:00	6.49 pH	19.69 °C	675.14 µS/cm	1.43 mg/L	21.20 NTU	109.8 mV	12.10 ft	200.00 ml/min
10/2/2024 8:52 AM	05:00	6.69 pH	19.64 °C	692.57 µS/cm	1.75 mg/L	18.60 NTU	108.1 mV	12.11 ft	200.00 ml/min
10/2/2024 8:57 AM	10:00	6.70 pH	19.65 °C	690.21 µS/cm	2.04 mg/L	17.30 NTU	78.9 mV	12.11 ft	200.00 ml/min
10/2/2024 9:02 AM	15:00	6.71 pH	19.68 °C	691.52 µS/cm	1.19 mg/L	14.60 NTU	74.2 mV	12.11 ft	200.00 ml/min
10/2/2024 9:07 AM	20:00	6.76 pH	19.67 °C	705.37 µS/cm	3.21 mg/L	15.10 NTU	79.3 mV	12.11 ft	200.00 ml/min
10/2/2024 9:12 AM	25:00	6.78 pH	19.72 °C	627.46 µS/cm	3.36 mg/L	18.30 NTU	81.8 mV	12.11 ft	200.00 ml/min
10/2/2024 9:17 AM	30:00	6.74 pH	19.82 °C	630.40 µS/cm	2.90 mg/L	23.30 NTU	80.4 mV	12.11 ft	200.00 ml/min
10/2/2024 9:22 AM	35:00	6.71 pH	19.90 °C	688.92 µS/cm	2.44 mg/L	22.80 NTU	78.9 mV	12.11 ft	200.00 ml/min
10/2/2024 9:27 AM	40:00	6.68 pH	20.11 °C	690.35 µS/cm	0.42 mg/L	19.50 NTU	72.3 mV	12.11 ft	200.00 ml/min
10/2/2024 9:32 AM	45:00	6.67 pH	20.32 °C	685.26 µS/cm	0.23 mg/L	17.80 NTU	87.4 mV	12.11 ft	200.00 ml/min
10/2/2024 9:37 AM	50:00	6.66 pH	20.44 °C	681.26 µS/cm	0.23 mg/L	15.80 NTU	87.1 mV	12.11 ft	200.00 ml/min
10/2/2024 9:42 AM	55:00	6.66 pH	20.52 °C	677.61 µS/cm	0.22 mg/L	13.40 NTU	86.6 mV	12.11 ft	200.00 ml/min
10/2/2024 9:47 AM	01:00:00	6.67 pH	20.62 °C	677.33 µS/cm	0.21 mg/L	11.10 NTU	66.4 mV	12.11 ft	200.00 ml/min
10/2/2024 9:52 AM	01:05:00	6.67 pH	20.72 °C	673.79 µS/cm	0.21 mg/L	10.70 NTU	83.7 mV	12.11 ft	200.00 ml/min
10/2/2024 9:57 AM	01:10:00	6.66 pH	20.84 °C	672.89 µS/cm	0.21 mg/L	5.85 NTU	65.7 mV	12.11 ft	200.00 ml/min

10/2/2024 10:02 AM	01:15:00	6.65 pH	20.84 °C	681.56 µS/cm	1.12 mg/L	4.19 NTU	67.7 mV	12.11 ft	200.00 ml/min
10/2/2024 10:07 AM	01:19:30	6.65 pH	20.84 °C	682.42 µS/cm	1.57 mg/L	3.70 NTU	71.5 mV	12.11 ft	200.00 ml/min
10/2/2024 10:12 AM	01:24:30	6.65 pH	20.86 °C	673.47 µS/cm	2.18 mg/L	3.20 NTU	86.8 mV	12.11 ft	200.00 ml/min
10/2/2024 10:17 AM	01:29:30	6.70 pH	20.88 °C	678.79 µS/cm	2.35 mg/L	3.22 NTU	94.0 mV	12.11 ft	200.00 ml/min
10/2/2024 10:20 AM	01:32:50	6.71 pH	20.84 °C	674.50 µS/cm	2.21 mg/L	2.93 NTU	75.6 mV	12.11 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-12	Grab.

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 10/1/2024 9:35:45 AM
Project: GP-Plant Hammond
Operator Name: Zain W.

Location Name: PT-13 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 35.3 ft** **Total Depth: 45.3 ft** **Initial Depth to Water: 24.83 ft**	**Pump Type: Bladder** **Tubing Type: Polyethylene** **Pump Intake From TOC: 40.3 ft** **Estimated Total Volume Pumped: 24 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 150 ml/min** **Final Draw Down: 0.05 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 883530**

Test Notes:
Metals. Ferrous Iron: 1.5 mg/L, Total Iron: 1.5 mg/L.

Weather Conditions:
Cloudy, 80 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
10/1/2024 9:35 AM	00:00	6.73 pH	20.45 °C	817.23 µS/cm	2.32 mg/L	++++	263.2 mV	24.83 ft	150.00 ml/min
10/1/2024 9:40 AM	05:00	6.73 pH	20.31 °C	793.43 µS/cm	2.66 mg/L	++++	472.0 mV	24.87 ft	150.00 ml/min
10/1/2024 9:45 AM	10:00	6.72 pH	20.70 °C	774.18 µS/cm	2.05 mg/L	++++	473.7 mV	24.87 ft	150.00 ml/min
10/1/2024 9:50 AM	15:00	6.70 pH	20.40 °C	754.08 µS/cm	1.83 mg/L	++++	480.7 mV	24.88 ft	150.00 ml/min
10/1/2024 9:55 AM	20:00	6.69 pH	20.27 °C	729.96 µS/cm	1.64 mg/L	70.20 NTU	477.0 mV	24.88 ft	150.00 ml/min
10/1/2024 10:00 AM	25:00	6.68 pH	20.26 °C	726.14 µS/cm	1.46 mg/L	49.30 NTU	374.9 mV	24.88 ft	150.00 ml/min
10/1/2024 10:05 AM	30:00	6.66 pH	20.35 °C	720.21 µS/cm	1.27 mg/L	34.70 NTU	334.4 mV	24.88 ft	150.00 ml/min
10/1/2024 10:10 AM	35:00	6.65 pH	20.81 °C	746.59 µS/cm	0.42 mg/L	26.50 NTU	250.6 mV	24.88 ft	150.00 ml/min
10/1/2024 10:15 AM	40:00	6.65 pH	21.02 °C	737.08 µS/cm	0.34 mg/L	20.50 NTU	248.0 mV	24.88 ft	150.00 ml/min
10/1/2024 10:20 AM	45:00	6.65 pH	21.40 °C	730.98 µS/cm	0.29 mg/L	18.60 NTU	374.1 mV	24.88 ft	150.00 ml/min
10/1/2024 10:25 AM	50:00	6.63 pH	21.22 °C	733.37 µS/cm	0.25 mg/L	15.70 NTU	550.9 mV	24.88 ft	150.00 ml/min
10/1/2024 10:30 AM	55:00	6.64 pH	20.85 °C	728.19 µS/cm	0.23 mg/L	12.80 NTU	574.5 mV	24.88 ft	150.00 ml/min
10/1/2024 10:35 AM	01:00:00	6.64 pH	20.93 °C	727.00 µS/cm	0.22 mg/L	11.30 NTU	614.2 mV	24.88 ft	150.00 ml/min

10/1/2024 10:40 AM	01:05:00	6.64 pH	20.80 °C	726.01 µS/cm	0.20 mg/L	10.60 NTU	634.0 mV	24.88 ft	150.00 ml/min
10/1/2024 10:45 AM	01:10:00	6.64 pH	20.62 °C	726.57 µS/cm	0.18 mg/L	12.10 NTU	641.4 mV	24.88 ft	150.00 ml/min
10/1/2024 10:50 AM	01:15:00	6.65 pH	20.53 °C	748.23 µS/cm	0.14 mg/L	11.20 NTU	644.9 mV	24.88 ft	150.00 ml/min
10/1/2024 10:55 AM	01:20:00	6.64 pH	20.49 °C	745.19 µS/cm	0.12 mg/L	10.50 NTU	680.9 mV	24.88 ft	150.00 ml/min
10/1/2024 11:00 AM	01:25:00	6.64 pH	20.51 °C	742.38 µS/cm	0.11 mg/L	9.49 NTU	629.7 mV	24.88 ft	150.00 ml/min
10/1/2024 11:05 AM	01:30:00	6.64 pH	20.49 °C	740.99 µS/cm	0.10 mg/L	8.73 NTU	618.4 mV	24.88 ft	150.00 ml/min
10/1/2024 11:10 AM	01:35:00	6.65 pH	20.49 °C	739.68 µS/cm	0.10 mg/L	8.45 NTU	618.9 mV	24.88 ft	150.00 ml/min
10/1/2024 11:15 AM	01:40:00	6.63 pH	20.49 °C	738.34 µS/cm	0.10 mg/L	7.86 NTU	656.9 mV	24.88 ft	150.00 ml/min
10/1/2024 11:20 AM	01:45:00	6.64 pH	20.49 °C	742.72 µS/cm	0.09 mg/L	7.44 NTU	613.6 mV	24.88 ft	150.00 ml/min
10/1/2024 11:25 AM	01:50:00	6.64 pH	20.44 °C	743.93 µS/cm	0.09 mg/L	7.11 NTU	621.6 mV	24.88 ft	150.00 ml/min
10/1/2024 11:30 AM	01:55:00	6.63 pH	20.44 °C	741.76 µS/cm	0.08 mg/L	6.35 NTU	665.2 mV	24.88 ft	150.00 ml/min
10/1/2024 11:35 AM	02:00:00	6.64 pH	20.44 °C	739.18 µS/cm	0.08 mg/L	5.94 NTU	622.3 mV	24.88 ft	150.00 ml/min
10/1/2024 11:40 AM	02:05:00	6.64 pH	20.40 °C	735.67 µS/cm	0.07 mg/L	5.78 NTU	619.4 mV	24.88 ft	150.00 ml/min
10/1/2024 11:45 AM	02:10:00	6.63 pH	20.40 °C	734.07 µS/cm	0.07 mg/L	5.91 NTU	663.5 mV	24.88 ft	150.00 ml/min
10/1/2024 11:50 AM	02:15:00	6.64 pH	20.59 °C	732.08 µS/cm	0.06 mg/L	5.47 NTU	621.8 mV	24.88 ft	150.00 ml/min
10/1/2024 11:55 AM	02:20:00	6.64 pH	20.89 °C	728.17 µS/cm	0.06 mg/L	5.23 NTU	625.2 mV	24.88 ft	150.00 ml/min
10/1/2024 12:00 PM	02:25:00	6.63 pH	21.28 °C	726.98 µS/cm	0.06 mg/L	5.17 NTU	653.7 mV	24.88 ft	150.00 ml/min
10/1/2024 12:05 PM	02:30:00	6.63 pH	21.20 °C	727.42 µS/cm	0.06 mg/L	5.69 NTU	683.7 mV	24.88 ft	150.00 ml/min
10/1/2024 12:10 PM	02:35:00	6.63 pH	21.04 °C	726.14 µS/cm	0.06 mg/L	4.83 NTU	716.9 mV	24.88 ft	150.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-13	Grab.

Low-Flow Test Report:

Test Date / Time: 10/1/2024 10:12:19 AM
Project: GP-Plant Hammond
Operator Name: Elisabeth R.

Location Name: PT-14 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 35.03 ft** **Total Depth: 45.03 ft** **Initial Depth to Water: 25.07 ft**	**Pump Type: Bladder** **Tubing Type: Polyethylene** **Pump Intake From TOC: 40 ft** **Estimated Total Volume Pumped: 12 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 160 ml/min** **Final Draw Down: 0.03 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 883561**

Test Notes:
Metals. Ferrous Iron: 2.25 mg/L, Total Iron: 6.5 mg/L.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
10/1/2024 10:12 AM	00:00	6.72 pH	19.99 °C	830.59 µS/cm	4.57 mg/L	64.60 NTU	-28.8 mV	25.10 ft	160.00 ml/min
10/1/2024 10:17 AM	05:00	6.72 pH	19.99 °C	825.95 µS/cm	4.09 mg/L	55.70 NTU	-47.2 mV	25.10 ft	160.00 ml/min
10/1/2024 10:22 AM	10:00	6.72 pH	20.06 °C	818.99 µS/cm	3.63 mg/L	42.60 NTU	-35.2 mV	25.10 ft	160.00 ml/min
10/1/2024 10:27 AM	15:00	6.72 pH	19.96 °C	813.64 µS/cm	3.29 mg/L	35.70 NTU	-37.0 mV	25.10 ft	160.00 ml/min
10/1/2024 10:32 AM	20:00	6.73 pH	19.95 °C	810.29 µS/cm	2.99 mg/L	23.50 NTU	-38.8 mV	25.10 ft	160.00 ml/min
10/1/2024 10:37 AM	25:00	6.73 pH	19.86 °C	807.83 µS/cm	2.70 mg/L	18.50 NTU	-39.5 mV	25.10 ft	160.00 ml/min
10/1/2024 10:42 AM	30:00	6.73 pH	19.72 °C	810.38 µS/cm	0.16 mg/L	16.60 NTU	-38.6 mV	25.10 ft	160.00 ml/min
10/1/2024 10:47 AM	35:00	6.73 pH	19.63 °C	805.85 µS/cm	0.13 mg/L	13.40 NTU	-40.6 mV	25.10 ft	160.00 ml/min
10/1/2024 10:52 AM	40:00	6.73 pH	19.55 °C	801.35 µS/cm	0.13 mg/L	8.87 NTU	-53.6 mV	25.10 ft	160.00 ml/min
10/1/2024 10:57 AM	45:00	6.74 pH	19.53 °C	796.99 µS/cm	0.23 mg/L	6.95 NTU	-54.6 mV	25.10 ft	160.00 ml/min
10/1/2024 11:02 AM	50:00	6.74 pH	19.50 °C	791.95 µS/cm	0.17 mg/L	7.34 NTU	-55.3 mV	25.10 ft	160.00 ml/min
10/1/2024 11:07 AM	55:00	6.72 pH	19.51 °C	790.85 µS/cm	0.17 mg/L	6.92 NTU	-54.8 mV	25.10 ft	160.00 ml/min
10/1/2024 11:12 AM	01:00:00	6.73 pH	19.50 °C	786.55 µS/cm	0.15 mg/L	5.67 NTU	-41.8 mV	25.10 ft	160.00 ml/min
10/1/2024 11:17 AM	01:05:00	6.73 pH	19.49 °C	778.06 µS/cm	0.13 mg/L	4.89 NTU	-43.0 mV	25.10 ft	160.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-14	Grab.

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 10/1/2024 3:52:20 PM
Project: GP-Plant Hammond
Operator Name: Elisabeth R.

Location Name: PT-15 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 35 ft** **Total Depth: 45 ft** **Initial Depth to Water: 24.81 ft**	**Pump Type: Bladder** **Tubing Type: Polyethylene** **Pump Intake From TOC: 40 ft** **Estimated Total Volume Pumped: 19 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 883561**

Test Notes:
Metals. Ferrous Iron: 0 mg/L, Total Iron: 0 mg/L.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
10/1/2024 3:52 PM	00:00	6.87 pH	22.53 °C	780.08 µS/cm	5.04 mg/L	++++	63.8 mV	24.81 ft	200.00 ml/min
10/1/2024 3:52 PM	00:18	6.88 pH	22.41 °C	779.80 µS/cm	4.89 mg/L	++++	58.5 mV	24.81 ft	200.00 ml/min
10/1/2024 3:57 PM	05:18	6.87 pH	21.58 °C	790.37 µS/cm	4.36 mg/L	++++	53.7 mV	24.81 ft	200.00 ml/min
10/1/2024 4:02 PM	10:18	6.85 pH	21.27 °C	788.88 µS/cm	3.94 mg/L	++++	53.1 mV	24.81 ft	200.00 ml/min
10/1/2024 4:07 PM	15:18	6.85 pH	21.11 °C	785.10 µS/cm	3.47 mg/L	++++	52.1 mV	24.81 ft	200.00 ml/min
10/1/2024 4:12 PM	20:18	6.84 pH	21.00 °C	780.52 µS/cm	3.06 mg/L	86.80 NTU	62.5 mV	24.81 ft	200.00 ml/min
10/1/2024 4:17 PM	25:18	6.84 pH	20.86 °C	776.20 µS/cm	2.73 mg/L	72.30 NTU	63.1 mV	24.81 ft	200.00 ml/min
10/1/2024 4:22 PM	30:18	6.84 pH	20.83 °C	778.55 µS/cm	2.36 mg/L	54.30 NTU	51.6 mV	24.81 ft	200.00 ml/min
10/1/2024 4:27 PM	35:18	6.83 pH	20.78 °C	775.01 µS/cm	2.15 mg/L	31.20 NTU	63.1 mV	24.81 ft	200.00 ml/min
10/1/2024 4:32 PM	40:18	6.82 pH	20.75 °C	771.05 µS/cm	1.94 mg/L	26.20 NTU	62.0 mV	24.81 ft	200.00 ml/min
10/1/2024 4:37 PM	45:18	6.82 pH	20.71 °C	768.33 µS/cm	1.75 mg/L	23.50 NTU	61.3 mV	24.81 ft	200.00 ml/min
10/1/2024 4:42 PM	50:18	6.82 pH	20.75 °C	764.92 µS/cm	1.58 mg/L	17.90 NTU	49.5 mV	24.81 ft	200.00 ml/min
10/1/2024 4:47 PM	55:18	6.82 pH	20.70 °C	777.11 µS/cm	1.41 mg/L	15.30 NTU	59.9 mV	24.81 ft	200.00 ml/min
10/1/2024 4:52 PM	01:00:18	6.82 pH	20.66 °C	772.45 µS/cm	1.25 mg/L	11.00 NTU	60.9 mV	24.81 ft	200.00 ml/min
10/1/2024 4:57 PM	01:05:18	6.82 pH	20.61 °C	769.84 µS/cm	1.10 mg/L	9.81 NTU	49.5 mV	24.81 ft	200.00 ml/min

10/1/2024 5:02 PM	01:10:18	6.81 pH	20.62 °C	768.09 µS/cm	0.99 mg/L	7.32 NTU	50.2 mV	24.81 ft	200.00 ml/min
10/1/2024 5:07 PM	01:15:18	6.81 pH	20.66 °C	771.08 µS/cm	0.73 mg/L	6.78 NTU	50.1 mV	24.81 ft	200.00 ml/min
10/1/2024 5:12 PM	01:20:18	6.81 pH	20.64 °C	769.04 µS/cm	0.64 mg/L	5.53 NTU	60.9 mV	24.81 ft	200.00 ml/min
10/1/2024 5:17 PM	01:25:18	6.81 pH	20.64 °C	771.11 µS/cm	0.55 mg/L	4.97 NTU	61.9 mV	24.81 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-15	Grab.

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 10/9/2024 1:54:52 PM
Project: GP-Plant Hammond
Operator Name: Elisabeth R.

Location Name: INW-03 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 17.4 ft** **Total Depth: 27.4 ft** **Initial Depth to Water: 13.08 ft**	**Pump Type: Peristaltic** **Tubing Type: Polyethylene** **Pump Intake From TOC: 22.4 ft** **Estimated Total Volume Pumped: 4 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 968202**

Test Notes:
Parameters.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
10/9/2024 1:54 PM	00:00	6.05 pH	22.58 °C	693.39 µS/cm	1.06 mg/L	3.30 NTU	-12.3 mV	13.08 ft	200.00 ml/min
10/9/2024 1:59 PM	05:00	6.04 pH	21.85 °C	705.48 µS/cm	0.63 mg/L	2.90 NTU	-12.1 mV	13.08 ft	200.00 ml/min
10/9/2024 2:04 PM	10:04	6.68 pH	21.72 °C	834.34 µS/cm	0.05 mg/L	2.03 NTU	-88.6 mV	13.08 ft	200.00 ml/min
10/9/2024 2:09 PM	15:04	6.73 pH	21.53 °C	840.17 µS/cm	0.08 mg/L	1.27 NTU	-98.7 mV	13.08 ft	200.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 10/9/2024 3:00:19 PM
Project: GP-Plant Hammond
Operator Name: Zain W.

Location Name: INW-04 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 35.3 ft** **Total Depth: 45.3 ft** **Initial Depth to Water: 25.38 ft**	**Pump Type: Bladder** **Tubing Type: Polyethylene** **Pump Intake From TOC: 40.3 ft** **Estimated Total Volume Pumped: 2.25 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 150 ml/min** **Final Draw Down: 0.13 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080302**

Test Notes:
Parameters.

Weather Conditions:
Clear, 90 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
10/9/2024 3:00 PM	00:00	6.33 pH	23.80 °C	610.47 µS/cm	3.43 mg/L	309.00 NTU	13.0 mV	25.38 ft	150.00 ml/min
10/9/2024 3:05 PM	05:00	6.32 pH	21.33 °C	641.31 µS/cm	2.92 mg/L	327.00 NTU	9.8 mV	25.51 ft	150.00 ml/min
10/9/2024 3:10 PM	10:00	6.30 pH	21.20 °C	631.62 µS/cm	2.79 mg/L	294.00 NTU	8.4 mV	25.51 ft	150.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 10/9/2024 3:23:20 PM
Project: GP-Plant Hammond
Operator Name: Zain W.

Location Name: INW-05 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 35.3 ft** **Total Depth: 45.3 ft** **Initial Depth to Water: 25.0 ft**	**Pump Type: Bladder** **Tubing Type: Polyethylene** **Pump Intake From TOC: 40.3 ft** **Estimated Total Volume Pumped: 2.25 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 150 ml/min Final Draw Down: 0.04 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080302**

Test Notes:
Parameters.

Weather Conditions:
Clear, 90 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
10/9/2024 3:23 PM	00:00	6.28 pH	25.64 °C	657.79 µS/cm	0.81 mg/L	266.00 NTU	8.1 mV	25.00 ft	150.00 ml/min
10/9/2024 3:28 PM	05:00	6.64 pH	21.71 °C	728.68 µS/cm	2.54 mg/L	304.00 NTU	-69.1 mV	25.04 ft	150.00 ml/min
10/9/2024 3:33 PM	10:00	6.67 pH	21.26 °C	741.49 µS/cm	1.11 mg/L	292.00 NTU	-81.9 mV	25.04 ft	150.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 10/8/2024 2:23:12 PM
Project: GP-Plant Hammond
Operator Name: Zain W.

Location Name: PT-07 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 37.75 ft** **Total Depth: 47.75 ft** **Initial Depth to Water: 26.0 ft**	**Pump Type: Bladder** **Tubing Type: Polyethylene** **Pump Intake From TOC: 42.75 ft** **Estimated Total Volume Pumped: 7.5 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 150 ml/min** **Final Draw Down: -0.22 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080302**

Test Notes:
Appendix III & IV + Major Ions. Ferrous Iron: 4.0 mg/L, Total Iron: 4.0 mg/L.

Weather Conditions:
Clear, 80 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
10/8/2024 2:23 PM	00:00	6.73 pH	20.79 °C	755.67 µS/cm	1.03 mg/L	26.10 NTU	-25.3 mV	26.00 ft	150.00 ml/min
10/8/2024 2:28 PM	05:00	6.72 pH	20.84 °C	752.69 µS/cm	0.97 mg/L	18.60 NTU	-34.5 mV	25.76 ft	150.00 ml/min
10/8/2024 2:33 PM	10:00	6.73 pH	20.84 °C	750.11 µS/cm	0.91 mg/L	12.00 NTU	-22.9 mV	25.78 ft	150.00 ml/min
10/8/2024 2:38 PM	15:00	6.73 pH	20.82 °C	747.93 µS/cm	0.84 mg/L	15.90 NTU	-32.8 mV	25.78 ft	150.00 ml/min
10/8/2024 2:43 PM	20:00	6.73 pH	20.84 °C	746.17 µS/cm	0.81 mg/L	14.10 NTU	-21.9 mV	25.78 ft	150.00 ml/min
10/8/2024 2:48 PM	25:00	6.72 pH	20.79 °C	740.51 µS/cm	0.75 mg/L	8.11 NTU	-21.2 mV	25.78 ft	150.00 ml/min
10/8/2024 2:53 PM	30:00	6.72 pH	20.76 °C	741.43 µS/cm	0.69 mg/L	7.56 NTU	-20.8 mV	25.78 ft	150.00 ml/min
10/8/2024 2:58 PM	35:00	6.73 pH	20.81 °C	737.37 µS/cm	0.63 mg/L	6.71 NTU	-20.6 mV	25.78 ft	150.00 ml/min
10/8/2024 3:03 PM	40:00	6.72 pH	20.74 °C	733.68 µS/cm	0.57 mg/L	5.54 NTU	-20.7 mV	25.78 ft	150.00 ml/min
10/8/2024 3:08 PM	45:00	6.72 pH	20.76 °C	729.91 µS/cm	0.54 mg/L	4.40 NTU	-20.5 mV	25.78 ft	150.00 ml/min

Samples

Sample ID:	Description:

HAM-PT-07	Grab.

Low-Flow Test Report:

Test Date / Time: 10/8/2024 10:37:10 AM
Project: GP-Plant Hammond
Operator Name: Elisabeth R.

Location Name: PT-08 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 31.93 ft** **Total Depth: 41.93 ft** **Initial Depth to Water: 25.75 ft**	**Pump Type: Bladder** **Tubing Type: Polyethylene** **Pump Intake From TOC: 37 ft** **Estimated Total Volume Pumped: 25 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.05 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 968202**

Test Notes:
Appendix III & IV + Major Ions. Ferrous Iron: 2.25 mg/L, Total Iron: 10 mg/L.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
10/8/2024 10:37 AM	00:00	6.62 pH	21.61 °C	624.57 µS/cm	3.85 mg/L	++++	-4.2 mV	25.75 ft	200.00 ml/min
10/8/2024 10:42 AM	05:00	6.59 pH	20.82 °C	640.63 µS/cm	3.04 mg/L	++++	0.4 mV	25.80 ft	200.00 ml/min
10/8/2024 10:47 AM	10:00	6.59 pH	20.99 °C	660.71 µS/cm	2.67 mg/L	++++	5.8 mV	25.80 ft	200.00 ml/min
10/8/2024 10:52 AM	15:00	6.60 pH	20.38 °C	676.87 µS/cm	2.58 mg/L	++++	-25.4 mV	25.80 ft	200.00 ml/min
10/8/2024 10:57 AM	20:00	6.62 pH	20.35 °C	685.16 µS/cm	2.30 mg/L	91.70 NTU	-25.2 mV	25.80 ft	200.00 ml/min
10/8/2024 11:02 AM	25:00	6.62 pH	20.29 °C	623.49 µS/cm	1.96 mg/L	75.30 NTU	-20.1 mV	25.80 ft	200.00 ml/min
10/8/2024 11:07 AM	30:00	6.63 pH	20.25 °C	683.03 µS/cm	1.86 mg/L	50.20 NTU	-19.6 mV	25.80 ft	200.00 ml/min
10/8/2024 11:12 AM	35:00	6.63 pH	20.29 °C	702.48 µS/cm	2.20 mg/L	31.40 NTU	-20.6 mV	25.80 ft	200.00 ml/min
10/8/2024 11:17 AM	40:00	6.63 pH	20.30 °C	698.20 µS/cm	2.03 mg/L	27.20 NTU	-19.6 mV	25.80 ft	200.00 ml/min
10/8/2024 11:22 AM	45:00	6.65 pH	20.39 °C	696.30 µS/cm	1.21 mg/L	22.50 NTU	-22.7 mV	25.80 ft	200.00 ml/min
10/8/2024 11:27 AM	50:00	6.65 pH	20.39 °C	692.90 µS/cm	0.93 mg/L	18.70 NTU	-21.6 mV	25.80 ft	200.00 ml/min
10/8/2024 11:32 AM	55:00	6.66 pH	20.34 °C	694.47 µS/cm	0.74 mg/L	16.70 NTU	-30.6 mV	25.80 ft	200.00 ml/min
10/8/2024 11:37 AM	01:00:00	6.67 pH	20.36 °C	691.64 µS/cm	0.63 mg/L	14.10 NTU	-30.6 mV	25.80 ft	200.00 ml/min
10/8/2024 11:42 AM	01:05:00	6.67 pH	20.34 °C	690.94 µS/cm	0.57 mg/L	13.00 NTU	-30.3 mV	25.80 ft	200.00 ml/min
10/8/2024 11:47 AM	01:10:00	6.67 pH	20.37 °C	688.70 µS/cm	0.50 mg/L	12.00 NTU	-29.7 mV	25.80 ft	200.00 ml/min

10/8/2024 11:52 AM	01:15:00	6.67 pH	20.39 °C	686.45 µS/cm	0.48 mg/L	11.20 NTU	-20.9 mV	25.80 ft	200.00 ml/min
10/8/2024 11:57 AM	01:20:00	6.67 pH	20.39 °C	685.91 µS/cm	0.46 mg/L	10.30 NTU	-28.7 mV	25.80 ft	200.00 ml/min
10/8/2024 12:02 PM	01:25:00	6.67 pH	20.39 °C	684.73 µS/cm	0.47 mg/L	9.30 NTU	-21.3 mV	25.80 ft	200.00 ml/min
10/8/2024 12:07 PM	01:30:00	6.67 pH	20.40 °C	681.65 µS/cm	0.45 mg/L	7.42 NTU	-20.6 mV	25.80 ft	200.00 ml/min
10/8/2024 12:12 PM	01:35:00	6.67 pH	20.40 °C	680.22 µS/cm	0.45 mg/L	6.33 NTU	-27.5 mV	25.80 ft	200.00 ml/min
10/8/2024 12:17 PM	01:40:00	6.67 pH	20.47 °C	678.81 µS/cm	0.44 mg/L	6.46 NTU	-20.3 mV	25.80 ft	200.00 ml/min
10/8/2024 12:22 PM	01:45:00	6.67 pH	20.44 °C	676.99 µS/cm	0.42 mg/L	6.07 NTU	-21.5 mV	25.80 ft	200.00 ml/min
10/8/2024 12:27 PM	01:50:00	6.68 pH	20.43 °C	675.17 µS/cm	0.39 mg/L	5.80 NTU	-19.5 mV	25.80 ft	200.00 ml/min
10/8/2024 12:32 PM	01:55:00	6.68 pH	20.46 °C	671.72 µS/cm	0.37 mg/L	5.34 NTU	-19.9 mV	25.80 ft	200.00 ml/min
10/8/2024 12:37 PM	02:00:00	6.69 pH	20.42 °C	669.84 µS/cm	0.36 mg/L	4.99 NTU	-20.0 mV	25.80 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-08	Grab.

Low-Flow Test Report:

Test Date / Time: 10/9/2024 11:27:06 AM
Project: GP-Plant Hammond
Operator Name: Elisabeth R.

Location Name: PT-09 **Well Diameter: 2 in** **Screen Length: 10 ft** **Top of Screen: 20.47 ft** **Total Depth: 30.47 ft** **Initial Depth to Water: 16.32 ft**	**Pump Type: Peristaltic** **Tubing Type: Polyethylene** **Pump Intake From TOC: 25 ft** **Estimated Total Volume Pumped: 14 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.02 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 968202**

Test Notes:
Appendix III & IV + Major Ions.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
10/9/2024 11:27 AM	00:00	6.90 pH	21.72 °C	716.42 µS/cm	0.10 mg/L	6.37 NTU	96.4 mV	16.33 ft	200.00 ml/min
10/9/2024 11:32 AM	05:00	6.91 pH	21.32 °C	733.39 µS/cm	0.06 mg/L	5.81 NTU	111.0 mV	16.33 ft	200.00 ml/min
10/9/2024 11:37 AM	10:00	6.94 pH	21.27 °C	723.13 µS/cm	0.06 mg/L	5.55 NTU	83.4 mV	16.34 ft	200.00 ml/min
10/9/2024 11:42 AM	15:00	6.96 pH	21.10 °C	727.87 µS/cm	0.06 mg/L	12.20 NTU	74.9 mV	16.34 ft	200.00 ml/min
10/9/2024 11:47 AM	20:00	6.94 pH	21.09 °C	724.34 µS/cm	0.06 mg/L	12.31 NTU	72.9 mV	16.34 ft	200.00 ml/min
10/9/2024 11:52 AM	25:00	6.90 pH	21.19 °C	723.55 µS/cm	0.05 mg/L	16.10 NTU	73.2 mV	16.34 ft	200.00 ml/min
10/9/2024 11:57 AM	30:00	6.91 pH	21.10 °C	722.98 µS/cm	0.04 mg/L	14.10 NTU	73.4 mV	16.34 ft	200.00 ml/min
10/9/2024 12:02 PM	35:00	6.90 pH	21.23 °C	720.59 µS/cm	0.04 mg/L	13.70 NTU	93.2 mV	16.34 ft	200.00 ml/min
10/9/2024 12:07 PM	40:00	6.90 pH	21.32 °C	713.56 µS/cm	0.04 mg/L	10.20 NTU	78.3 mV	16.34 ft	200.00 ml/min
10/9/2024 12:12 PM	45:00	6.92 pH	21.35 °C	718.85 µS/cm	0.04 mg/L	8.19 NTU	77.7 mV	16.34 ft	200.00 ml/min
10/9/2024 12:17 PM	50:00	6.89 pH	21.37 °C	713.52 µS/cm	0.05 mg/L	7.80 NTU	78.5 mV	16.34 ft	200.00 ml/min
10/9/2024 12:22 PM	55:00	6.88 pH	21.39 °C	718.45 µS/cm	0.05 mg/L	6.78 NTU	99.1 mV	16.34 ft	200.00 ml/min
10/9/2024 12:27 PM	01:00:00	6.92 pH	21.45 °C	719.31 µS/cm	0.04 mg/L	5.33 NTU	82.7 mV	16.34 ft	200.00 ml/min
10/9/2024 12:32 PM	01:05:00	6.90 pH	21.43 °C	722.62 µS/cm	0.04 mg/L	3.46 NTU	100.9 mV	16.34 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-09	Grab.

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 10/9/2024 11:19:02 AM
Project: GP-Plant Hammond
Operator Name: Zain W.

Location Name: PT-10 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 20.45 ft** **Total Depth: 30.45 ft** **Initial Depth to Water: 16.29 ft**	**Pump Type: Peristaltic** **Tubing Type: Polyethylene** **Pump Intake From TOC: 25.45 ft** **Estimated Total Volume Pumped: 22.5 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 150 ml/min** **Final Draw Down: 0.02 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080302**

Test Notes:
Appendix III & IV + Major Ions. Ferrous Iron: 0 mg/L, Total Iron: 0 mg/L.

Weather Conditions:
Clear, 80 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
10/9/2024 11:19 AM	00:00	7.13 pH	20.65 °C	759.56 µS/cm	2.05 mg/L	4.70 NTU	-36.2 mV	16.29 ft	150.00 ml/min
10/9/2024 11:24 AM	05:00	7.13 pH	20.46 °C	762.50 µS/cm	1.52 mg/L	3.65 NTU	-37.5 mV	16.31 ft	150.00 ml/min
10/9/2024 11:29 AM	10:00	7.12 pH	20.39 °C	741.76 µS/cm	1.49 mg/L	1.79 NTU	-60.1 mV	16.31 ft	150.00 ml/min
10/9/2024 11:34 AM	15:00	7.12 pH	20.35 °C	732.05 µS/cm	2.62 mg/L	1.77 NTU	-61.0 mV	16.31 ft	150.00 ml/min
10/9/2024 11:39 AM	20:00	7.11 pH	20.42 °C	730.21 µS/cm	1.01 mg/L	2.06 NTU	-44.7 mV	16.31 ft	150.00 ml/min
10/9/2024 11:44 AM	25:00	7.10 pH	20.48 °C	733.14 µS/cm	2.43 mg/L	1.86 NTU	-62.7 mV	16.31 ft	150.00 ml/min
10/9/2024 11:49 AM	30:00	7.10 pH	20.47 °C	729.61 µS/cm	1.10 mg/L	1.44 NTU	-60.4 mV	16.31 ft	150.00 ml/min
10/9/2024 11:54 AM	35:00	7.08 pH	20.52 °C	708.54 µS/cm	1.37 mg/L	1.63 NTU	-55.2 mV	16.31 ft	150.00 ml/min
10/9/2024 11:59 AM	40:00	7.08 pH	20.52 °C	716.06 µS/cm	1.50 mg/L	1.01 NTU	-51.0 mV	16.31 ft	150.00 ml/min
10/9/2024 12:04 PM	45:00	7.07 pH	20.70 °C	721.43 µS/cm	2.43 mg/L	0.85 NTU	-49.9 mV	16.31 ft	150.00 ml/min
10/9/2024 12:09 PM	50:00	7.06 pH	20.69 °C	715.96 µS/cm	3.13 mg/L	0.72 NTU	-45.4 mV	16.31 ft	150.00 ml/min
10/9/2024 12:14 PM	55:00	7.06 pH	20.62 °C	709.34 µS/cm	2.23 mg/L	0.83 NTU	-44.8 mV	16.31 ft	150.00 ml/min
10/9/2024 12:19 PM	01:00:00	7.06 pH	20.47 °C	715.11 µS/cm	2.31 mg/L	0.60 NTU	-45.2 mV	16.31 ft	150.00 ml/min

10/9/2024 12:24 PM	01:05:00	7.06 pH	20.34 °C	709.49 µS/cm	4.13 mg/L	0.44 NTU	-42.9 mV	16.31 ft	150.00 ml/min
10/9/2024 12:29 PM	01:10:00	7.05 pH	20.33 °C	709.06 µS/cm	2.95 mg/L	0.49 NTU	-25.3 mV	16.31 ft	150.00 ml/min
10/9/2024 12:34 PM	01:15:00	7.05 pH	20.39 °C	712.58 µS/cm	2.66 mg/L	0.54 NTU	-40.1 mV	16.31 ft	150.00 ml/min
10/9/2024 12:39 PM	01:20:00	7.05 pH	20.56 °C	710.99 µS/cm	1.82 mg/L	0.50 NTU	-39.5 mV	16.31 ft	150.00 ml/min
10/9/2024 12:44 PM	01:25:00	7.05 pH	20.74 °C	698.13 µS/cm	2.93 mg/L	0.51 NTU	-39.4 mV	16.31 ft	150.00 ml/min
10/9/2024 12:49 PM	01:30:00	7.05 pH	20.71 °C	699.64 µS/cm	1.82 mg/L	0.48 NTU	-38.9 mV	16.31 ft	150.00 ml/min
10/9/2024 12:54 PM	01:35:00	7.04 pH	20.76 °C	702.33 µS/cm	1.11 mg/L	0.40 NTU	-38.0 mV	16.31 ft	150.00 ml/min
10/9/2024 12:59 PM	01:40:00	7.04 pH	20.75 °C	700.31 µS/cm	1.38 mg/L	0.72 NTU	-37.1 mV	16.31 ft	150.00 ml/min
10/9/2024 1:04 PM	01:45:00	7.04 pH	20.71 °C	671.37 µS/cm	1.74 mg/L	0.82 NTU	-37.0 mV	16.31 ft	150.00 ml/min
10/9/2024 1:09 PM	01:50:00	7.03 pH	20.74 °C	699.29 µS/cm	2.05 mg/L	0.93 NTU	-36.0 mV	16.31 ft	150.00 ml/min
10/9/2024 1:14 PM	01:55:00	7.03 pH	20.79 °C	685.35 µS/cm	2.04 mg/L	0.43 NTU	-21.4 mV	16.31 ft	150.00 ml/min
10/9/2024 1:19 PM	02:00:00	7.03 pH	20.87 °C	700.82 µS/cm	1.78 mg/L	0.32 NTU	-35.0 mV	16.31 ft	150.00 ml/min
10/9/2024 1:24 PM	02:05:00	7.03 pH	20.70 °C	709.62 µS/cm	0.29 mg/L	0.36 NTU	-35.8 mV	16.31 ft	150.00 ml/min
10/9/2024 1:29 PM	02:10:00	7.02 pH	20.57 °C	698.96 µS/cm	0.25 mg/L	0.31 NTU	-20.9 mV	16.31 ft	150.00 ml/min
10/9/2024 1:34 PM	02:15:00	7.02 pH	20.43 °C	689.09 µS/cm	0.24 mg/L	0.27 NTU	-20.0 mV	16.31 ft	150.00 ml/min
10/9/2024 1:39 PM	02:20:00	7.01 pH	20.49 °C	679.88 µS/cm	0.24 mg/L	0.24 NTU	-19.4 mV	16.31 ft	150.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-10	Grab.

Low-Flow Test Report:

Test Date / Time: 10/9/2024 8:42:40 AM
Project: GP-Plant Hammond
Operator Name: Zain W.

Location Name: PT-11 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 16.9 ft** **Total Depth: 26.9 ft** **Initial Depth to Water: 12.82 ft**	**Pump Type: Peristaltic** **Tubing Type: Polyethylene** **Pump Intake From TOC: 21.9 ft** **Estimated Total Volume Pumped: 12.75 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 150 ml/min** **Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080302**

Test Notes:
Appendix III & IV + Major Ions. Ferrous Iron: 0.5 mg/L, Total Iron: 0.5 mg/L.

Weather Conditions:
Clear, 70 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
10/9/2024 8:42 AM	00:00	6.76 pH	20.06 °C	662.03 µS/cm	0.33 mg/L	4.86 NTU	135.9 mV	12.82 ft	150.00 ml/min
10/9/2024 8:47 AM	05:00	6.76 pH	19.90 °C	672.16 µS/cm	0.27 mg/L	4.74 NTU	74.0 mV	12.82 ft	150.00 ml/min
10/9/2024 8:52 AM	10:00	6.74 pH	19.87 °C	680.99 µS/cm	0.31 mg/L	4.45 NTU	35.9 mV	12.82 ft	150.00 ml/min
10/9/2024 8:57 AM	15:00	6.72 pH	19.85 °C	667.58 µS/cm	0.28 mg/L	5.38 NTU	26.0 mV	12.82 ft	150.00 ml/min
10/9/2024 9:02 AM	20:00	6.70 pH	20.00 °C	672.34 µS/cm	0.26 mg/L	7.62 NTU	22.9 mV	12.82 ft	150.00 ml/min
10/9/2024 9:07 AM	25:00	6.69 pH	19.85 °C	682.97 µS/cm	0.19 mg/L	8.27 NTU	23.3 mV	12.82 ft	150.00 ml/min
10/9/2024 9:12 AM	30:00	6.68 pH	19.98 °C	675.89 µS/cm	0.18 mg/L	8.62 NTU	21.7 mV	12.82 ft	150.00 ml/min
10/9/2024 9:17 AM	35:00	6.67 pH	20.03 °C	669.65 µS/cm	0.20 mg/L	8.09 NTU	20.3 mV	12.82 ft	150.00 ml/min
10/9/2024 9:22 AM	40:00	6.66 pH	20.08 °C	676.07 µS/cm	2.05 mg/L	6.77 NTU	21.6 mV	12.82 ft	150.00 ml/min
10/9/2024 9:27 AM	45:00	6.67 pH	20.08 °C	674.38 µS/cm	1.31 mg/L	3.15 NTU	21.4 mV	12.82 ft	150.00 ml/min
10/9/2024 9:32 AM	50:00	6.66 pH	20.12 °C	664.57 µS/cm	1.13 mg/L	4.22 NTU	19.4 mV	12.82 ft	150.00 ml/min
10/9/2024 9:37 AM	55:00	6.66 pH	20.08 °C	661.60 µS/cm	1.15 mg/L	2.37 NTU	20.0 mV	12.82 ft	150.00 ml/min
10/9/2024 9:42 AM	01:00:00	6.65 pH	20.21 °C	664.43 µS/cm	0.24 mg/L	1.46 NTU	18.8 mV	12.82 ft	150.00 ml/min

10/9/2024 9:47 AM	01:05:00	6.66 pH	20.25 °C	671.17 µS/cm	0.19 mg/L	1.10 NTU	19.8 mV	12.82 ft	150.00 ml/min
10/9/2024 9:52 AM	01:10:00	6.65 pH	20.33 °C	665.32 µS/cm	0.17 mg/L	2.18 NTU	20.7 mV	12.82 ft	150.00 ml/min
10/9/2024 9:57 AM	01:15:00	6.64 pH	20.39 °C	652.56 µS/cm	0.17 mg/L	2.04 NTU	20.2 mV	12.82 ft	150.00 ml/min
10/9/2024 10:02 AM	01:20:00	6.64 pH	20.48 °C	664.68 µS/cm	0.16 mg/L	1.23 NTU	21.8 mV	12.82 ft	150.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-11	Grab.

Low-Flow Test Report:

Test Date / Time: 10/9/2024 9:20:00 AM
Project: GP-Plant Hammond
Operator Name: Elisabeth R.

Location Name: PT-12 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 17.3 ft** **Total Depth: 27.3 ft** **Initial Depth to Water: 13.85 ft**	**Pump Type: Peristaltic** **Tubing Type: Polyethylene** **Pump Intake From TOC: 22.3 ft** **Estimated Total Volume Pumped: 15.5 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 968202**

Test Notes:
Appendix III & IV + Major Ions. Ferrous Iron: 0 mg/L, Total Iron: 0 mg/L.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
10/9/2024 9:20 AM	00:00	6.86 pH	21.88 °C	617.87 µS/cm	0.17 mg/L	22.20 NTU	145.5 mV	13.85 ft	200.00 ml/min
10/9/2024 9:25 AM	05:00	6.88 pH	20.96 °C	695.52 µS/cm	0.16 mg/L	16.40 NTU	144.5 mV	13.85 ft	200.00 ml/min
10/9/2024 9:30 AM	10:00	6.87 pH	20.68 °C	684.40 µS/cm	0.13 mg/L	10.80 NTU	108.9 mV	13.85 ft	200.00 ml/min
10/9/2024 9:35 AM	15:00	6.85 pH	20.38 °C	686.47 µS/cm	0.13 mg/L	12.10 NTU	98.9 mV	13.85 ft	200.00 ml/min
10/9/2024 9:40 AM	20:00	6.86 pH	20.11 °C	696.91 µS/cm	0.10 mg/L	13.30 NTU	92.6 mV	13.85 ft	200.00 ml/min
10/9/2024 9:45 AM	25:00	6.83 pH	20.12 °C	696.13 µS/cm	0.09 mg/L	12.40 NTU	109.8 mV	13.85 ft	200.00 ml/min
10/9/2024 9:50 AM	30:00	6.82 pH	20.08 °C	672.72 µS/cm	0.08 mg/L	14.40 NTU	89.0 mV	13.85 ft	200.00 ml/min
10/9/2024 9:55 AM	35:00	6.82 pH	20.08 °C	688.98 µS/cm	0.06 mg/L	12.10 NTU	83.9 mV	13.85 ft	200.00 ml/min
10/9/2024 10:00 AM	40:00	6.81 pH	20.22 °C	690.82 µS/cm	0.06 mg/L	10.30 NTU	81.8 mV	13.85 ft	200.00 ml/min
10/9/2024 10:05 AM	45:00	6.80 pH	20.43 °C	689.05 µS/cm	0.07 mg/L	8.70 NTU	80.9 mV	13.85 ft	200.00 ml/min
10/9/2024 10:10 AM	50:00	6.80 pH	20.47 °C	687.27 µS/cm	0.05 mg/L	7.19 NTU	82.0 mV	13.85 ft	200.00 ml/min
10/9/2024 10:15 AM	55:00	6.79 pH	20.59 °C	685.78 µS/cm	0.07 mg/L	6.00 NTU	84.7 mV	13.85 ft	200.00 ml/min
10/9/2024 10:20 AM	01:00:00	6.79 pH	20.65 °C	694.08 µS/cm	0.09 mg/L	5.65 NTU	88.2 mV	13.85 ft	200.00 ml/min
10/9/2024 10:25 AM	01:05:00	6.79 pH	20.81 °C	691.29 µS/cm	0.07 mg/L	4.65 NTU	92.8 mV	13.85 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-12	Grab.

Low-Flow Test Report:

Test Date / Time: 10/8/2024 10:45:45 AM
Project: GP-Plant Hammond
Operator Name: Zain W.

Location Name: PT-13 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 35.3 ft** **Total Depth: 45.3 ft** **Initial Depth to Water: 25.45 ft**	**Pump Type: Bladder** **Tubing Type: Polyethylene Pump** **Intake From TOC: 40.3 ft** **Estimated Total Volume Pumped: 20.25 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 150 ml/min Final Draw Down: -0.09 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080302**

Test Notes:
Appendix III & IV + Major Ions. Ferrous Iron: 5.0 mg/L, Total Iron: 9.2 mg/L.

Weather Conditions:
Clear, 70 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
10/8/2024 10:45 AM	00:00	6.65 pH	20.26 °C	739.61 µS/cm	1.14 mg/L	183.00 NTU	-30.1 mV	25.45 ft	150.00 ml/min
10/8/2024 10:50 AM	05:00	6.66 pH	20.19 °C	729.76 µS/cm	0.85 mg/L	203.00 NTU	-42.2 mV	25.34 ft	150.00 ml/min
10/8/2024 10:55 AM	10:00	6.66 pH	20.14 °C	730.44 µS/cm	0.62 mg/L	148.00 NTU	-28.7 mV	25.34 ft	150.00 ml/min
10/8/2024 11:00 AM	15:00	6.66 pH	20.12 °C	728.40 µS/cm	0.51 mg/L	79.50 NTU	-29.6 mV	25.35 ft	150.00 ml/min
10/8/2024 11:05 AM	20:00	6.66 pH	20.12 °C	725.88 µS/cm	0.45 mg/L	60.70 NTU	-30.7 mV	25.36 ft	150.00 ml/min
10/8/2024 11:10 AM	25:00	6.66 pH	20.12 °C	731.22 µS/cm	0.39 mg/L	48.90 NTU	-31.5 mV	25.36 ft	150.00 ml/min
10/8/2024 11:15 AM	30:00	6.66 pH	20.08 °C	737.12 µS/cm	0.34 mg/L	39.00 NTU	-33.4 mV	25.36 ft	150.00 ml/min
10/8/2024 11:20 AM	35:00	6.66 pH	20.08 °C	733.88 µS/cm	0.33 mg/L	29.90 NTU	-32.9 mV	25.36 ft	150.00 ml/min
10/8/2024 11:25 AM	40:00	6.66 pH	20.09 °C	731.37 µS/cm	0.28 mg/L	21.70 NTU	-31.8 mV	25.36 ft	150.00 ml/min
10/8/2024 11:30 AM	45:00	6.65 pH	20.12 °C	729.19 µS/cm	0.26 mg/L	18.00 NTU	-32.3 mV	25.36 ft	150.00 ml/min
10/8/2024 11:35 AM	50:00	6.66 pH	20.09 °C	720.87 µS/cm	0.24 mg/L	16.50 NTU	-31.8 mV	25.36 ft	150.00 ml/min
10/8/2024 11:40 AM	55:00	6.66 pH	20.08 °C	724.33 µS/cm	0.23 mg/L	14.80 NTU	-32.4 mV	25.36 ft	150.00 ml/min
10/8/2024 11:45 AM	01:00:00	6.65 pH	20.08 °C	720.68 µS/cm	0.21 mg/L	13.20 NTU	-31.8 mV	25.36 ft	150.00 ml/min

10/8/2024 11:50 AM	01:05:00	6.65 pH	20.07 °C	718.91 µS/cm	0.20 mg/L	11.90 NTU	-31.5 mV	25.36 ft	150.00 ml/min
10/8/2024 11:55 AM	01:10:00	6.65 pH	20.12 °C	715.70 µS/cm	0.20 mg/L	11.30 NTU	-31.0 mV	25.36 ft	150.00 ml/min
10/8/2024 12:00 PM	01:15:00	6.65 pH	20.07 °C	714.35 µS/cm	0.19 mg/L	9.08 NTU	-30.8 mV	25.36 ft	150.00 ml/min
10/8/2024 12:05 PM	01:20:00	6.65 pH	20.11 °C	710.63 µS/cm	0.19 mg/L	8.43 NTU	-30.9 mV	25.36 ft	150.00 ml/min
10/8/2024 12:10 PM	01:25:00	6.65 pH	20.14 °C	707.51 µS/cm	0.18 mg/L	7.31 NTU	-30.3 mV	25.36 ft	150.00 ml/min
10/8/2024 12:15 PM	01:30:00	6.65 pH	20.15 °C	707.18 µS/cm	0.18 mg/L	7.40 NTU	-30.1 mV	25.36 ft	150.00 ml/min
10/8/2024 12:20 PM	01:35:00	6.66 pH	20.15 °C	701.85 µS/cm	0.17 mg/L	6.61 NTU	-30.4 mV	25.36 ft	150.00 ml/min
10/8/2024 12:25 PM	01:40:00	6.65 pH	20.15 °C	698.33 µS/cm	0.17 mg/L	6.23 NTU	-30.4 mV	25.36 ft	150.00 ml/min
10/8/2024 12:30 PM	01:45:00	6.65 pH	20.20 °C	694.60 µS/cm	0.17 mg/L	5.90 NTU	-29.5 mV	25.36 ft	150.00 ml/min
10/8/2024 12:35 PM	01:50:00	6.65 pH	20.19 °C	692.54 µS/cm	0.16 mg/L	6.18 NTU	-29.7 mV	25.36 ft	150.00 ml/min
10/8/2024 12:40 PM	01:55:00	6.65 pH	20.20 °C	689.98 µS/cm	0.16 mg/L	5.62 NTU	-43.9 mV	25.36 ft	150.00 ml/min
10/8/2024 12:45 PM	02:00:00	6.65 pH	20.20 °C	688.13 µS/cm	0.16 mg/L	5.44 NTU	-29.2 mV	25.36 ft	150.00 ml/min
10/8/2024 12:50 PM	02:05:00	6.65 pH	20.21 °C	693.81 µS/cm	0.16 mg/L	5.18 NTU	-29.6 mV	25.36 ft	150.00 ml/min
10/8/2024 12:55 PM	02:10:00	6.65 pH	20.24 °C	691.25 µS/cm	0.15 mg/L	4.83 NTU	-29.4 mV	25.36 ft	150.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-13	Grab.

Low-Flow Test Report:

Test Date / Time: 10/8/2024 2:32:10 PM
Project: GP-Plant Hammond
Operator Name: Elisabeth R.

Location Name: PT-14 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 35.3 ft** **Total Depth: 45.3 ft** **Initial Depth to Water: 25.4 ft**	**Pump Type: Bladder** **Tubing Type: Polyethylene** **Pump Intake From TOC: 40.3 ft** **Estimated Total Volume Pumped: 11 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.03 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 968202**

Test Notes:
Appendix III & IV + Major Ions. Ferrous Iron: 2.0 mg/L, Total Iron: 9.0 mg/L.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
10/8/2024 2:32 PM	00:00	6.84 pH	21.79 °C	786.91 µS/cm	1.06 mg/L	70.80 NTU	-115.2 mV	25.40 ft	200.00 ml/min
10/8/2024 2:37 PM	05:00	6.85 pH	21.59 °C	788.61 µS/cm	0.77 mg/L	53.90 NTU	-114.3 mV	25.40 ft	200.00 ml/min
10/8/2024 2:42 PM	10:00	6.86 pH	21.40 °C	789.19 µS/cm	0.65 mg/L	37.60 NTU	-123.5 mV	25.42 ft	200.00 ml/min
10/8/2024 2:47 PM	15:00	6.86 pH	21.22 °C	788.23 µS/cm	0.59 mg/L	24.50 NTU	-115.1 mV	25.43 ft	200.00 ml/min
10/8/2024 2:52 PM	20:00	6.87 pH	21.10 °C	792.46 µS/cm	0.41 mg/L	19.70 NTU	-115.9 mV	25.43 ft	200.00 ml/min
10/8/2024 2:57 PM	25:00	6.87 pH	21.10 °C	794.42 µS/cm	0.36 mg/L	14.60 NTU	-116.4 mV	25.43 ft	200.00 ml/min
10/8/2024 3:02 PM	30:00	6.87 pH	20.99 °C	793.88 µS/cm	0.29 mg/L	13.10 NTU	-116.9 mV	25.43 ft	200.00 ml/min
10/8/2024 3:07 PM	35:00	6.87 pH	20.92 °C	794.06 µS/cm	0.25 mg/L	11.70 NTU	-116.8 mV	25.43 ft	200.00 ml/min
10/8/2024 3:12 PM	40:00	6.87 pH	20.96 °C	792.83 µS/cm	0.22 mg/L	10.00 NTU	-117.4 mV	25.43 ft	200.00 ml/min
10/8/2024 3:17 PM	45:00	6.87 pH	20.85 °C	793.65 µS/cm	0.21 mg/L	8.00 NTU	-117.1 mV	25.43 ft	200.00 ml/min
10/8/2024 3:22 PM	50:00	6.87 pH	20.83 °C	793.03 µS/cm	0.19 mg/L	4.20 NTU	-125.1 mV	25.43 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-14	Grab.

Low-Flow Test Report:

Test Date / Time: 10/8/2024 4:09:48 PM
Project: GP-Plant Hammond
Operator Name: Zain W.

Location Name: PT-15 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 35.3 ft** **Total Depth: 45.3 ft** **Initial Depth to Water: 25.37 ft**	**Pump Type: Bladder** **Tubing Type: Polyethylene** **Pump Intake From TOC: 40.3 ft** **Estimated Total Volume Pumped: 8.25 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 150 ml/min** **Final Draw Down: -0.17 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080302**

Test Notes:
Appendix III & IV + Major Ions. Ferrous Iron: 0 mg/L, Total Iron: 0 mg/L.

Weather Conditions:
Clear, 80 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
10/8/2024 4:09 PM	00:00	6.76 pH	27.28 °C	650.15 µS/cm	3.88 mg/L	151.00 NTU	6.0 mV	25.37 ft	150.00 ml/min
10/8/2024 4:14 PM	05:00	6.73 pH	21.09 °C	682.96 µS/cm	2.40 mg/L	77.80 NTU	8.7 mV	25.18 ft	150.00 ml/min
10/8/2024 4:19 PM	10:00	6.73 pH	20.69 °C	683.14 µS/cm	1.98 mg/L	65.30 NTU	5.3 mV	25.20 ft	150.00 ml/min
10/8/2024 4:24 PM	15:00	6.73 pH	20.61 °C	681.47 µS/cm	1.71 mg/L	53.60 NTU	9.9 mV	25.20 ft	150.00 ml/min
10/8/2024 4:29 PM	20:00	6.73 pH	20.52 °C	681.63 µS/cm	1.48 mg/L	20.20 NTU	6.2 mV	25.20 ft	150.00 ml/min
10/8/2024 4:34 PM	25:00	6.72 pH	20.54 °C	679.00 µS/cm	1.33 mg/L	12.90 NTU	11.0 mV	25.20 ft	150.00 ml/min
10/8/2024 4:39 PM	30:00	6.72 pH	20.52 °C	681.95 µS/cm	1.22 mg/L	7.36 NTU	11.9 mV	25.20 ft	150.00 ml/min
10/8/2024 4:44 PM	35:00	6.72 pH	20.51 °C	678.89 µS/cm	1.13 mg/L	6.83 NTU	12.9 mV	25.20 ft	150.00 ml/min
10/8/2024 4:49 PM	40:00	6.72 pH	20.49 °C	678.97 µS/cm	1.03 mg/L	5.22 NTU	13.3 mV	25.20 ft	150.00 ml/min
10/8/2024 4:54 PM	45:00	6.72 pH	20.47 °C	676.55 µS/cm	0.95 mg/L	4.74 NTU	13.5 mV	25.20 ft	150.00 ml/min
10/8/2024 4:59 PM	50:00	6.72 pH	20.43 °C	674.38 µS/cm	0.91 mg/L	3.69 NTU	13.2 mV	25.20 ft	150.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-15	Grab.
HAM-AP1-FD-01	Grab.

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 10/16/2024 1:13:10 PM
Project: GP-Plant Hammond
Operator Name: Jamie Newsome

Location Name: INW-03 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 17.4 ft** **Total Depth: 27.4 ft** **Initial Depth to Water: 13.37 ft**	**Pump Type: Peristaltic** **Tubing Type: Poly** **Pump Intake From TOC: 25.47 ft** **Estimated Total Volume Pumped: 2000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 843285**

Test Notes:
No samples, field parameters only.

Weather Conditions:
Sunny, 65 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
10/16/2024 1:13 PM	00:00	6.05 pH	20.87 °C	716.81 µS/cm	0.22 mg/L	24.20 NTU	-6.0 mV	13.37 ft	200.00 ml/min
10/16/2024 1:18 PM	05:00	6.09 pH	20.55 °C	715.49 µS/cm	0.11 mg/L	19.90 NTU	-9.5 mV	13.37 ft	200.00 ml/min
10/16/2024 1:23 PM	10:00	6.05 pH	20.15 °C	722.72 µS/cm	0.07 mg/L	21.20 NTU	-9.0 mV	13.37 ft	200.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 10/15/2024 3:05:38 PM
Project: GP-Plant Hammond
Operator Name: Jamie Newsome

Location Name: INW-04 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 35.3 ft** **Total Depth: 45.3 ft** **Initial Depth to Water: 25.45 ft**	**Pump Type: Bladder** **Tubing Type: Poly** **Pump Intake From TOC: 40 ft** **Estimated Total Volume Pumped: 2000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 843285**

Test Notes:
No sample, field parameters only.

Weather Conditions:
Cloudy, 65 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
10/15/2024 3:05 PM	00:00	6.70 pH	20.65 °C	729.74 µS/cm	0.61 mg/L	++++	-66.0 mV	25.45 ft	200.00 ml/min
10/15/2024 3:10 PM	05:00	6.68 pH	20.02 °C	731.62 µS/cm	1.17 mg/L	++++	-65.2 mV	25.45 ft	200.00 ml/min
10/15/2024 3:15 PM	10:00	6.68 pH	19.95 °C	728.50 µS/cm	1.34 mg/L	++++	-71.1 mV	25.45 ft	200.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 10/15/2024 3:30:20 PM
Project: GP-Plant Hammond
Operator Name: Jamie Newsome

Location Name: INW-05 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 35.3 ft** **Total Depth: 45.3 ft** **Initial Depth to Water: 25.94 ft**	**Pump Type: Bladder** **Tubing Type: Poly** **Pump Intake From TOC: 40 ft** **Estimated Total Volume Pumped: 2000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 843285**

Test Notes:
No samples, field parameters only.

Weather Conditions:
Cloudy, 65 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
10/15/2024 3:30 PM	00:00	6.16 pH	20.20 °C	561.56 µS/cm	1.41 mg/L		42.1 mV	25.94 ft	200.00 ml/min
10/15/2024 3:35 PM	05:00	6.24 pH	20.05 °C	607.26 µS/cm	1.66 mg/L		22.8 mV	25.94 ft	200.00 ml/min
10/15/2024 3:40 PM	10:00	6.29 pH	19.93 °C	628.69 µS/cm	1.38 mg/L		13.1 mV	25.94 ft	200.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 10/15/2024 1:50:47 PM
Project: GP-Plant Hammond
Operator Name: Jamie Newsome

Location Name: PT-07 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 37.6 ft** **Total Depth: 47.6 ft** **Initial Depth to Water: 26.16 ft**	**Pump Type: Bladder** **Tubing Type: Poly** **Pump Intake From TOC: 40 ft** **Estimated Total Volume Pumped: 6476.667 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 843285**

Test Notes:
Metals. Fe = 1.0 mg/L Fe2+ = 0.5 mg/L

Weather Conditions:
Cloudy, 65 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
10/15/2024 1:50 PM	00:00	6.74 pH	20.11 °C	748.88 µS/cm	0.52 mg/L	13.30 NTU	-53.1 mV	26.16 ft	200.00 ml/min
10/15/2024 1:55 PM	05:00	6.74 pH	19.79 °C	752.32 µS/cm	0.27 mg/L	3.39 NTU	-57.7 mV	26.16 ft	200.00 ml/min
10/15/2024 2:00 PM	10:00	6.75 pH	19.63 °C	749.58 µS/cm	0.25 mg/L	3.16 NTU	-54.4 mV	26.16 ft	200.00 ml/min
10/15/2024 2:05 PM	15:00	6.75 pH	19.62 °C	749.03 µS/cm	0.15 mg/L	2.03 NTU	-54.3 mV	26.16 ft	200.00 ml/min
10/15/2024 2:10 PM	20:00	6.75 pH	19.58 °C	748.34 µS/cm	0.11 mg/L	0.92 NTU	-53.4 mV	26.16 ft	200.00 ml/min
10/15/2024 2:15 PM	25:00	6.75 pH	19.53 °C	748.01 µS/cm	0.15 mg/L	1.45 NTU	-59.1 mV	26.16 ft	200.00 ml/min
10/15/2024 2:20 PM	30:00	6.75 pH	19.49 °C	747.98 µS/cm	0.09 mg/L	1.12 NTU	-59.5 mV	26.16 ft	200.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 10/15/2024 12:15:31 PM
Project: GP-Plant Hammond
Operator Name: Amanda Tomlinson

Location Name: PT-08 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 32.2 ft** **Total Depth: 42.2 ft** **Initial Depth to Water: 25.98 ft**	**Pump Type: Bladder** **Tubing Type: Polyethylene** **Pump Intake From TOC: 42.6 ft** **Estimated Total Volume Pumped: 24000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.04 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 843593**

Test Notes:
Metals. Total Fe: 2.5 mg/L. Fe2+: 2.0 mg/L.

Weather Conditions:
Partly cloudy, 59 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
10/15/2024 12:15 PM	00:00	6.74 pH	20.21 °C	662.24 µS/cm	0.92 mg/L	1,694.0 NTU	4.9 mV	26.01 ft	200.00 ml/min
10/15/2024 12:20 PM	05:00	6.68 pH	20.36 °C	668.30 µS/cm	0.83 mg/L	1,165.0 NTU	16.7 mV	26.01 ft	200.00 ml/min
10/15/2024 12:25 PM	10:00	6.68 pH	19.95 °C	659.01 µS/cm	0.80 mg/L	733.00 NTU	27.7 mV	26.01 ft	200.00 ml/min
10/15/2024 12:30 PM	15:00	6.69 pH	19.81 °C	665.83 µS/cm	0.66 mg/L	113.00 NTU	27.6 mV	26.01 ft	200.00 ml/min
10/15/2024 12:35 PM	20:00	6.69 pH	19.77 °C	675.02 µS/cm	0.50 mg/L	87.37 NTU	28.0 mV	26.02 ft	200.00 ml/min
10/15/2024 12:40 PM	25:00	6.69 pH	20.04 °C	681.94 µS/cm	0.41 mg/L	65.96 NTU	22.5 mV	26.02 ft	200.00 ml/min
10/15/2024 12:45 PM	30:00	6.72 pH	20.23 °C	682.16 µS/cm	0.38 mg/L	51.32 NTU	20.1 mV	26.02 ft	200.00 ml/min
10/15/2024 12:50 PM	35:00	6.72 pH	20.10 °C	682.00 µS/cm	0.36 mg/L	41.43 NTU	21.2 mV	26.02 ft	200.00 ml/min
10/15/2024 12:55 PM	40:00	6.72 pH	20.22 °C	688.29 µS/cm	0.40 mg/L	32.86 NTU	20.3 mV	26.02 ft	200.00 ml/min
10/15/2024 1:00 PM	45:00	6.72 pH	20.22 °C	690.13 µS/cm	0.36 mg/L	26.81 NTU	20.6 mV	26.02 ft	200.00 ml/min
10/15/2024 1:05 PM	50:00	6.74 pH	19.75 °C	688.15 µS/cm	0.33 mg/L	19.78 NTU	20.4 mV	26.02 ft	200.00 ml/min
10/15/2024 1:10 PM	55:00	6.75 pH	19.90 °C	692.50 µS/cm	0.30 mg/L	17.81 NTU	18.3 mV	26.02 ft	200.00 ml/min
10/15/2024 1:15 PM	01:00:00	6.76 pH	19.82 °C	691.94 µS/cm	0.29 mg/L	14.79 NTU	15.4 mV	26.02 ft	200.00 ml/min
10/15/2024 1:20 PM	01:05:00	6.75 pH	20.11 °C	698.73 µS/cm	0.27 mg/L	12.90 NTU	8.4 mV	26.02 ft	200.00 ml/min

10/15/2024 1:25 PM	01:10:00	6.78 pH	20.13 °C	696.67 µS/cm	0.30 mg/L	11.35 NTU	9.7 mV	26.02 ft	200.00 ml/min
10/15/2024 1:30 PM	01:15:00	6.79 pH	20.13 °C	700.01 µS/cm	0.28 mg/L	9.63 NTU	5.2 mV	26.02 ft	200.00 ml/min
10/15/2024 1:35 PM	01:20:00	6.80 pH	20.13 °C	699.73 µS/cm	0.29 mg/L	8.64 NTU	5.0 mV	26.02 ft	200.00 ml/min
10/15/2024 1:40 PM	01:25:00	6.80 pH	20.04 °C	699.71 µS/cm	0.29 mg/L	8.42 NTU	5.7 mV	26.02 ft	200.00 ml/min
10/15/2024 1:45 PM	01:30:00	6.82 pH	19.77 °C	700.29 µS/cm	0.29 mg/L	7.38 NTU	3.6 mV	26.02 ft	200.00 ml/min
10/15/2024 1:50 PM	01:35:00	6.83 pH	19.73 °C	700.81 µS/cm	0.29 mg/L	7.56 NTU	0.3 mV	26.02 ft	200.00 ml/min
10/15/2024 1:55 PM	01:40:00	6.83 pH	19.59 °C	699.94 µS/cm	0.28 mg/L	6.20 NTU	-2.9 mV	26.02 ft	200.00 ml/min
10/15/2024 2:00 PM	01:45:00	6.83 pH	19.58 °C	700.68 µS/cm	0.28 mg/L	6.42 NTU	-7.8 mV	26.02 ft	200.00 ml/min
10/15/2024 2:05 PM	01:50:00	6.85 pH	19.64 °C	703.47 µS/cm	0.28 mg/L	5.70 NTU	-10.4 mV	26.02 ft	200.00 ml/min
10/15/2024 2:10 PM	01:55:00	6.85 pH	19.47 °C	703.51 µS/cm	0.28 mg/L	5.37 NTU	-13.8 mV	26.02 ft	200.00 ml/min
10/15/2024 2:15 PM	02:00:00	6.84 pH	19.46 °C	702.16 µS/cm	0.29 mg/L	4.95 NTU	-15.5 mV	26.02 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-08	Grab.

Low-Flow Test Report:

Test Date / Time: 10/16/2024 11:20:36 AM
Project: GP-Plant Hammond
Operator Name: Jamie Newsome

Location Name: PT-09 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 20.47 ft** **Total Depth: 30.47 ft** **Initial Depth to Water: 16.65 ft**	**Pump Type: Peristaltic** **Tubing Type: Poly** **Pump Intake From TOC: 25.47 ft** **Estimated Total Volume Pumped: 13000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.05 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 843285**

Test Notes:
Metals. Fe = 0 mg/L Fe2+ = 0 mg/L.

Weather Conditions:
Sunny, 65 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
10/16/2024 11:20 AM	00:00	6.68 pH	19.40 °C	771.21 µS/cm	0.28 mg/L	59.50 NTU	52.4 mV	16.65 ft	200.00 ml/min
10/16/2024 11:25 AM	05:00	6.72 pH	18.79 °C	768.91 µS/cm	0.17 mg/L	51.60 NTU	54.3 mV	16.65 ft	200.00 ml/min
10/16/2024 11:30 AM	10:00	6.74 pH	18.62 °C	761.50 µS/cm	0.09 mg/L	41.70 NTU	46.5 mV	16.65 ft	200.00 ml/min
10/16/2024 11:35 AM	15:00	6.75 pH	18.72 °C	764.96 µS/cm	0.07 mg/L	35.90 NTU	45.2 mV	16.70 ft	200.00 ml/min
10/16/2024 11:40 AM	20:00	6.78 pH	18.64 °C	762.76 µS/cm	0.06 mg/L	36.60 NTU	44.6 mV	16.70 ft	200.00 ml/min
10/16/2024 11:45 AM	25:00	6.78 pH	18.86 °C	758.23 µS/cm	0.05 mg/L	31.10 NTU	44.1 mV	16.70 ft	200.00 ml/min
10/16/2024 11:50 AM	30:00	6.78 pH	18.89 °C	756.87 µS/cm	0.05 mg/L	24.40 NTU	43.2 mV	16.70 ft	200.00 ml/min
10/16/2024 11:55 AM	35:00	6.79 pH	18.77 °C	748.27 µS/cm	0.05 mg/L	21.20 NTU	42.9 mV	16.70 ft	200.00 ml/min
10/16/2024 12:00 PM	40:00	6.78 pH	18.95 °C	762.03 µS/cm	0.05 mg/L	16.10 NTU	42.1 mV	16.70 ft	200.00 ml/min
10/16/2024 12:05 PM	45:00	6.79 pH	19.09 °C	756.65 µS/cm	0.04 mg/L	15.60 NTU	41.5 mV	16.70 ft	200.00 ml/min
10/16/2024 12:10 PM	50:00	6.79 pH	18.89 °C	760.92 µS/cm	0.04 mg/L	11.50 NTU	41.3 mV	16.70 ft	200.00 ml/min
10/16/2024 12:15 PM	55:00	6.79 pH	18.87 °C	760.98 µS/cm	0.04 mg/L	7.81 NTU	40.8 mV	16.70 ft	200.00 ml/min
10/16/2024 12:20 PM	01:00:00	6.78 pH	18.77 °C	760.86 µS/cm	0.04 mg/L	5.79 NTU	40.6 mV	16.70 ft	200.00 ml/min

10/16/2024 12:25 PM	01:05:00	6.79 pH	19.06 °C	759.06 µS/cm	0.04 mg/L	4.92 NTU	39.2 mV	16.70 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-09	Grab.

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 10/16/2024 9:40:15 AM
Project: GP-Plant Hammond
Operator Name: Amanda Tomlinson

Location Name: PT-10 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 20.45 ft** **Total Depth: 30.45 ft** **Initial Depth to Water: 16.75 ft**	**Pump Type: Peristaltic** **Tubing Type: Polyethylene** **Pump Intake From TOC: 25.45 ft** **Estimated Total Volume Pumped: 11233.333 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.02 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 843593**

Test Notes:
Metals. Total Fe: 0.5 mg/L. Fe2+: 0.25 mg/L.

Weather Conditions:
Clear, 42 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
10/16/2024 9:40 AM	00:00	7.38 pH	17.29 °C	723.06 µS/cm	0.44 mg/L	62.53 NTU	1.5 mV	16.77 ft	200.00 ml/min
10/16/2024 9:45 AM	05:00	7.33 pH	17.67 °C	716.50 µS/cm	0.49 mg/L	57.43 NTU	-28.4 mV	16.77 ft	200.00 ml/min
10/16/2024 9:46 AM	06:10	7.35 pH	17.73 °C	716.21 µS/cm	0.37 mg/L		-27.4 mV	16.77 ft	200.00 ml/min
10/16/2024 9:51 AM	11:10	7.41 pH	17.57 °C	718.59 µS/cm	0.28 mg/L	40.69 NTU	-53.4 mV	16.77 ft	200.00 ml/min
10/16/2024 9:56 AM	16:10	7.51 pH	17.63 °C	727.17 µS/cm	0.22 mg/L	31.32 NTU	-66.2 mV	16.77 ft	200.00 ml/min
10/16/2024 10:01 AM	21:10	7.62 pH	17.79 °C	725.67 µS/cm	0.17 mg/L	21.31 NTU	-79.3 mV	16.77 ft	200.00 ml/min
10/16/2024 10:06 AM	26:10	7.74 pH	17.72 °C	722.91 µS/cm	0.16 mg/L	15.82 NTU	-83.0 mV	16.77 ft	200.00 ml/min
10/16/2024 10:11 AM	31:10	7.83 pH	17.54 °C	717.76 µS/cm	0.15 mg/L	14.42 NTU	-80.3 mV	16.77 ft	200.00 ml/min
10/16/2024 10:16 AM	36:10	7.93 pH	17.73 °C	716.30 µS/cm	0.14 mg/L	12.52 NTU	-96.2 mV	16.77 ft	200.00 ml/min
10/16/2024 10:21 AM	41:10	8.00 pH	17.86 °C	716.91 µS/cm	0.17 mg/L	8.92 NTU	-99.2 mV	16.77 ft	200.00 ml/min
10/16/2024 10:26 AM	46:10	8.07 pH	17.89 °C	708.92 µS/cm	0.13 mg/L	6.66 NTU	-104.3 mV	16.77 ft	200.00 ml/min
10/16/2024 10:31 AM	51:10	8.12 pH	17.90 °C	707.43 µS/cm	0.13 mg/L	6.70 NTU	-88.6 mV	16.77 ft	200.00 ml/min
10/16/2024 10:36 AM	56:10	8.15 pH	17.85 °C	708.42 µS/cm	0.12 mg/L	4.53 NTU	-103.7 mV	16.77 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-10	Grab.

Low-Flow Test Report:

Test Date / Time: 10/16/2024 9:40:05 AM
Project: GP-Plant Hammond
Operator Name: Jamie Newsome

Location Name: PT-11 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 16.9 ft** **Total Depth: 26.9 ft** **Initial Depth to Water: 12.3 ft**	**Pump Type: Peristaltic** **Tubing Type: Poly** **Pump Intake From TOC: 21.9 ft** **Estimated Total Volume Pumped: 11000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 843285**

Test Notes:
Metals. Fe = 1.0 mg/L Fe2+ = 0.5 mg/L

Weather Conditions:
Sunny, 40 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
10/16/2024 9:40 AM	00:00	6.47 pH	18.32 °C	723.65 µS/cm	0.19 mg/L	91.50 NTU	67.7 mV	12.30 ft	200.00 ml/min
10/16/2024 9:45 AM	05:00	6.46 pH	18.37 °C	725.27 µS/cm	0.14 mg/L	69.30 NTU	56.4 mV	12.30 ft	200.00 ml/min
10/16/2024 9:50 AM	10:00	6.49 pH	18.34 °C	722.63 µS/cm	0.12 mg/L	53.90 NTU	44.7 mV	12.30 ft	200.00 ml/min
10/16/2024 9:55 AM	15:00	6.49 pH	18.42 °C	722.01 µS/cm	0.11 mg/L	51.10 NTU	41.1 mV	12.30 ft	200.00 ml/min
10/16/2024 10:00 AM	20:00	6.50 pH	18.55 °C	723.17 µS/cm	0.10 mg/L	32.10 NTU	36.2 mV	12.30 ft	200.00 ml/min
10/16/2024 10:05 AM	25:00	6.52 pH	18.54 °C	727.59 µS/cm	0.09 mg/L	27.20 NTU	34.1 mV	12.30 ft	200.00 ml/min
10/16/2024 10:10 AM	30:00	6.52 pH	18.69 °C	729.42 µS/cm	0.11 mg/L	21.00 NTU	30.5 mV	12.30 ft	200.00 ml/min
10/16/2024 10:15 AM	35:00	6.54 pH	18.85 °C	729.41 µS/cm	0.10 mg/L	17.70 NTU	29.1 mV	12.30 ft	200.00 ml/min
10/16/2024 10:20 AM	40:00	6.55 pH	18.95 °C	731.36 µS/cm	0.10 mg/L	13.50 NTU	25.9 mV	12.30 ft	200.00 ml/min
10/16/2024 10:25 AM	45:00	6.57 pH	18.89 °C	726.06 µS/cm	0.11 mg/L	8.60 NTU	24.7 mV	12.30 ft	200.00 ml/min
10/16/2024 10:30 AM	50:00	6.56 pH	18.96 °C	736.54 µS/cm	0.07 mg/L	6.20 NTU	22.5 mV	12.30 ft	200.00 ml/min
10/16/2024 10:35 AM	55:00	6.57 pH	18.96 °C	735.60 µS/cm	0.08 mg/L	4.84 NTU	21.1 mV	12.30 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-11	Grab.
HAM-AP1-FD-01	Grab.

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 10/16/2024 11:15:48 AM
Project: GP-Plant Hammond
Operator Name: Amanda Tomlinson

Location Name: PT-12 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 17.3 ft** **Total Depth: 27.3 ft** **Initial Depth to Water: 13.14 ft**	**Pump Type: Peristaltic** **Tubing Type: Polyethylene** **Pump Intake From TOC: 22 ft** **Estimated Total Volume Pumped: 36000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 843593**

Test Notes:
Metals. Total Fe and Fe2+: 0 mg/L.

Weather Conditions:
Clear, 52 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
10/16/2024 11:15 AM	00:00	8.51 pH	19.61 °C	699.88 µS/cm	0.13 mg/L	1,098.0 NTU	5.6 mV	13.14 ft	200.00 ml/min
10/16/2024 11:20 AM	05:00	8.67 pH	19.31 °C	710.37 µS/cm	0.20 mg/L	998.00 NTU	15.1 mV	13.14 ft	200.00 ml/min
10/16/2024 11:25 AM	10:00	8.73 pH	18.64 °C	715.19 µS/cm	0.16 mg/L	764.00 NTU	26.5 mV	13.14 ft	200.00 ml/min
10/16/2024 11:30 AM	15:00	8.82 pH	18.43 °C	713.78 µS/cm	0.14 mg/L	769.00 NTU	27.1 mV	13.14 ft	200.00 ml/min
10/16/2024 11:35 AM	20:00	8.96 pH	18.65 °C	715.07 µS/cm	0.10 mg/L	618.00 NTU	22.0 mV	13.14 ft	200.00 ml/min
10/16/2024 11:40 AM	25:00	9.07 pH	18.64 °C	715.51 µS/cm	0.10 mg/L	132.00 NTU	21.5 mV	13.14 ft	200.00 ml/min
10/16/2024 11:45 AM	30:00	9.20 pH	18.75 °C	713.47 µS/cm	0.07 mg/L	168.00 NTU	19.0 mV	13.14 ft	200.00 ml/min
10/16/2024 11:50 AM	35:00	9.24 pH	18.75 °C	716.17 µS/cm	0.06 mg/L	113.00 NTU	13.6 mV	13.14 ft	200.00 ml/min
10/16/2024 11:55 AM	40:00	9.29 pH	18.71 °C	714.56 µS/cm	0.06 mg/L	62.00 NTU	7.9 mV	13.14 ft	200.00 ml/min
10/16/2024 12:00 PM	45:00	9.33 pH	18.76 °C	714.41 µS/cm	0.06 mg/L	50.00 NTU	8.9 mV	13.14 ft	200.00 ml/min
10/16/2024 12:05 PM	50:00	9.35 pH	18.76 °C	715.22 µS/cm	0.04 mg/L	92.54 NTU	0.0 mV	13.14 ft	200.00 ml/min
10/16/2024 12:10 PM	55:00	9.38 pH	18.69 °C	715.18 µS/cm	0.06 mg/L	86.83 NTU	-3.0 mV	13.14 ft	200.00 ml/min
10/16/2024 12:15 PM	01:00:00	9.39 pH	18.53 °C	714.75 µS/cm	0.04 mg/L	67.57 NTU	-3.8 mV	13.14 ft	200.00 ml/min

10/16/2024 12:20 PM	01:05:00	9.40 pH	18.48 °C	716.66 µS/cm	0.04 mg/L	53.02 NTU	-4.0 mV	13.14 ft	200.00 ml/min
10/16/2024 12:25 PM	01:10:00	9.41 pH	18.73 °C	713.70 µS/cm	0.05 mg/L	54.05 NTU	-4.0 mV	13.14 ft	200.00 ml/min
10/16/2024 12:30 PM	01:15:00	9.42 pH	18.79 °C	716.39 µS/cm	0.06 mg/L	31.56 NTU	-4.8 mV	13.14 ft	200.00 ml/min
10/16/2024 12:35 PM	01:20:00	9.43 pH	18.84 °C	714.65 µS/cm	0.06 mg/L	25.92 NTU	3.3 mV	13.14 ft	200.00 ml/min
10/16/2024 12:40 PM	01:25:00	9.45 pH	18.79 °C	714.56 µS/cm	0.05 mg/L	22.55 NTU	3.9 mV	13.14 ft	200.00 ml/min
10/16/2024 12:45 PM	01:30:00	9.45 pH	18.80 °C	716.63 µS/cm	0.05 mg/L	17.76 NTU	-2.8 mV	13.14 ft	200.00 ml/min
10/16/2024 12:50 PM	01:35:00	9.46 pH	18.91 °C	711.33 µS/cm	0.05 mg/L	11.95 NTU	3.7 mV	13.14 ft	200.00 ml/min
10/16/2024 12:55 PM	01:40:00	9.48 pH	19.02 °C	718.69 µS/cm	0.05 mg/L	12.46 NTU	-4.0 mV	13.14 ft	200.00 ml/min
10/16/2024 1:00 PM	01:45:00	9.46 pH	18.95 °C	711.56 µS/cm	0.04 mg/L	8.18 NTU	2.9 mV	13.14 ft	200.00 ml/min
10/16/2024 1:05 PM	01:50:00	9.45 pH	18.92 °C	718.34 µS/cm	0.04 mg/L	36.72 NTU	3.6 mV	13.14 ft	200.00 ml/min
10/16/2024 1:10 PM	01:55:00	9.50 pH	18.97 °C	715.45 µS/cm	0.06 mg/L	55.82 NTU	2.9 mV	13.14 ft	200.00 ml/min
10/16/2024 1:15 PM	02:00:00	9.48 pH	19.06 °C	710.07 µS/cm	0.03 mg/L	35.06 NTU	3.0 mV	13.14 ft	200.00 ml/min
10/16/2024 1:20 PM	02:05:00	9.49 pH	18.92 °C	709.18 µS/cm	0.04 mg/L	29.48 NTU	3.3 mV	13.12 ft	200.00 ml/min
10/16/2024 1:25 PM	02:10:00	9.50 pH	18.92 °C	713.11 µS/cm	0.05 mg/L	29.81 NTU	2.9 mV	13.12 ft	200.00 ml/min
10/16/2024 1:30 PM	02:15:00	9.51 pH	19.06 °C	711.96 µS/cm	0.04 mg/L	31.42 NTU	2.0 mV	13.10 ft	200.00 ml/min
10/16/2024 1:35 PM	02:20:00	9.50 pH	19.06 °C	716.72 µS/cm	0.04 mg/L	29.88 NTU	-6.4 mV	13.10 ft	200.00 ml/min
10/16/2024 1:40 PM	02:25:00	9.50 pH	19.05 °C	715.46 µS/cm	0.04 mg/L	26.92 NTU	-6.9 mV	13.10 ft	200.00 ml/min
10/16/2024 1:45 PM	02:30:00	9.50 pH	19.05 °C	713.15 µS/cm	0.03 mg/L	24.87 NTU	1.1 mV	13.10 ft	200.00 ml/min
10/16/2024 1:50 PM	02:35:00	9.50 pH	19.10 °C	715.91 µS/cm	0.07 mg/L	18.51 NTU	-5.6 mV	13.10 ft	200.00 ml/min
10/16/2024 1:55 PM	02:40:00	9.50 pH	19.15 °C	716.14 µS/cm	0.03 mg/L	15.55 NTU	-6.0 mV	13.10 ft	200.00 ml/min
10/16/2024 2:00 PM	02:45:00	9.50 pH	19.08 °C	715.78 µS/cm	0.05 mg/L	10.54 NTU	-5.4 mV	13.10 ft	200.00 ml/min
10/16/2024 2:05 PM	02:50:00	9.51 pH	19.01 °C	710.84 µS/cm	0.03 mg/L	9.49 NTU	3.3 mV	13.10 ft	200.00 ml/min
10/16/2024 2:10 PM	02:55:00	9.50 pH	19.12 °C	719.14 µS/cm	0.06 mg/L	8.46 NTU	-2.7 mV	13.10 ft	200.00 ml/min
10/16/2024 2:15 PM	03:00:00	9.50 pH	19.15 °C	715.28 µS/cm	0.05 mg/L	6.80 NTU	4.4 mV	13.10 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-12	Grab.

Low-Flow Test Report:

Test Date / Time: 10/15/2024 10:15:06 AM
Project: GP-Plant Hammond
Operator Name: Jamie Newsome

Location Name: PT-13 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 35 ft** **Total Depth: 45 ft** **Initial Depth to Water: 25.75 ft**	**Pump Type: Bladder** **Tubing Type: Poly** **Pump Intake From TOC: 40 ft** **Estimated Total Volume Pumped: 34000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 843285**

Test Notes:
Metals. Fe = 5.0 mg/L Fe2+ = 3.0 mg/L

Weather Conditions:
Cloudy, 50 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
10/15/2024 10:15 AM	00:00	6.62 pH	19.06 °C	740.29 µS/cm	2.41 mg/L	1.000e+09 NTU	-32.4 mV	25.75 ft	200.00 ml/min
10/15/2024 10:20 AM	05:00	6.63 pH	19.10 °C	730.89 µS/cm	2.50 mg/L	1.000e+09 NTU	-32.7 mV	25.75 ft	200.00 ml/min
10/15/2024 10:25 AM	10:00	6.64 pH	19.14 °C	728.71 µS/cm	2.50 mg/L	1.000e+09 NTU	-35.0 mV	25.75 ft	200.00 ml/min
10/15/2024 10:30 AM	15:00	6.64 pH	19.13 °C	724.36 µS/cm	2.22 mg/L	1.000e+09 NTU	-36.4 mV	25.80 ft	200.00 ml/min
10/15/2024 10:35 AM	20:00	6.65 pH	19.17 °C	719.29 µS/cm	2.31 mg/L	1.000e+09 NTU	-37.3 mV	25.80 ft	200.00 ml/min
10/15/2024 10:40 AM	25:00	6.65 pH	19.15 °C	718.88 µS/cm	2.11 mg/L	92.60 NTU	-38.6 mV	25.80 ft	200.00 ml/min
10/15/2024 10:45 AM	30:00	6.65 pH	19.19 °C	715.21 µS/cm	2.27 mg/L	82.90 NTU	-39.5 mV	25.80 ft	200.00 ml/min
10/15/2024 10:50 AM	35:00	6.65 pH	19.15 °C	717.17 µS/cm	2.05 mg/L	50.00 NTU	-39.9 mV	25.80 ft	200.00 ml/min
10/15/2024 10:55 AM	40:00	6.64 pH	19.24 °C	716.12 µS/cm	2.03 mg/L	32.00 NTU	-47.4 mV	25.80 ft	200.00 ml/min
10/15/2024 11:00 AM	45:00	6.65 pH	19.26 °C	711.66 µS/cm	1.92 mg/L	30.20 NTU	-40.7 mV	25.80 ft	200.00 ml/min
10/15/2024 11:05 AM	50:00	6.65 pH	19.24 °C	712.08 µS/cm	1.81 mg/L	27.30 NTU	-41.1 mV	25.80 ft	200.00 ml/min
10/15/2024 11:10 AM	55:00	6.65 pH	19.31 °C	711.02 µS/cm	1.69 mg/L	21.60 NTU	-41.2 mV	25.80 ft	200.00 ml/min
10/15/2024 11:15 AM	01:00:00	6.65 pH	19.53 °C	709.29 µS/cm	1.64 mg/L	18.60 NTU	-41.2 mV	25.80 ft	200.00 ml/min

10/15/2024 11:20 AM	01:05:00	6.65 pH	19.31 °C	711.16 µS/cm	1.66 mg/L	18.10 NTU	-41.4 mV	25.80 ft	200.00 ml/min
10/15/2024 11:25 AM	01:10:00	6.65 pH	19.43 °C	723.00 µS/cm	1.53 mg/L	17.20 NTU	-47.8 mV	25.80 ft	200.00 ml/min
10/15/2024 11:30 AM	01:15:00	6.65 pH	19.49 °C	726.39 µS/cm	1.48 mg/L	16.20 NTU	-41.6 mV	25.80 ft	200.00 ml/min
10/15/2024 11:35 AM	01:20:00	6.65 pH	19.35 °C	725.48 µS/cm	1.49 mg/L	15.20 NTU	-42.0 mV	25.80 ft	200.00 ml/min
10/15/2024 11:40 AM	01:25:00	6.65 pH	19.34 °C	726.05 µS/cm	1.42 mg/L	12.80 NTU	-41.7 mV	25.80 ft	200.00 ml/min
10/15/2024 11:45 AM	01:30:00	6.65 pH	19.29 °C	730.60 µS/cm	1.41 mg/L	13.90 NTU	-42.1 mV	25.80 ft	200.00 ml/min
10/15/2024 11:50 AM	01:35:00	6.65 pH	19.37 °C	726.44 µS/cm	1.38 mg/L	12.40 NTU	-48.1 mV	25.80 ft	200.00 ml/min
10/15/2024 11:55 AM	01:40:00	6.65 pH	19.39 °C	727.58 µS/cm	1.33 mg/L	10.90 NTU	-42.2 mV	25.80 ft	200.00 ml/min
10/15/2024 12:00 PM	01:45:00	6.66 pH	19.96 °C	721.87 µS/cm	1.24 mg/L	10.20 NTU	-48.1 mV	25.80 ft	200.00 ml/min
10/15/2024 12:05 PM	01:50:00	6.66 pH	20.02 °C	721.87 µS/cm	1.23 mg/L	11.70 NTU	-48.3 mV	25.80 ft	200.00 ml/min
10/15/2024 12:10 PM	01:55:00	6.66 pH	19.93 °C	721.85 µS/cm	1.20 mg/L	10.50 NTU	-42.8 mV	25.80 ft	200.00 ml/min
10/15/2024 12:15 PM	02:00:00	6.66 pH	19.77 °C	723.15 µS/cm	1.20 mg/L	10.10 NTU	-48.4 mV	25.80 ft	200.00 ml/min
10/15/2024 12:20 PM	02:05:00	6.66 pH	20.14 °C	723.34 µS/cm	1.18 mg/L	10.88 NTU	-48.7 mV	25.80 ft	200.00 ml/min
10/15/2024 12:25 PM	02:10:00	6.66 pH	19.67 °C	725.69 µS/cm	1.18 mg/L	10.30 NTU	-43.2 mV	25.80 ft	200.00 ml/min
10/15/2024 12:30 PM	02:15:00	6.66 pH	19.71 °C	727.41 µS/cm	1.19 mg/L	9.81 NTU	-48.9 mV	25.80 ft	200.00 ml/min
10/15/2024 12:35 PM	02:20:00	6.66 pH	19.84 °C	731.78 µS/cm	1.11 mg/L	9.17 NTU	-49.3 mV	25.80 ft	200.00 ml/min
10/15/2024 12:40 PM	02:25:00	6.66 pH	20.06 °C	728.89 µS/cm	1.10 mg/L	7.90 NTU	-49.7 mV	25.80 ft	200.00 ml/min
10/15/2024 12:45 PM	02:30:00	6.66 pH	19.98 °C	730.55 µS/cm	1.12 mg/L	8.57 NTU	-44.5 mV	25.80 ft	200.00 ml/min
10/15/2024 12:50 PM	02:35:00	6.66 pH	20.07 °C	733.04 µS/cm	1.08 mg/L	7.70 NTU	-50.0 mV	25.75 ft	200.00 ml/min
10/15/2024 12:55 PM	02:40:00	6.66 pH	20.15 °C	731.51 µS/cm	1.02 mg/L	6.58 NTU	-50.4 mV	25.75 ft	200.00 ml/min
10/15/2024 1:00 PM	02:45:00	6.66 pH	20.24 °C	730.37 µS/cm	0.95 mg/L	5.40 NTU	-50.6 mV	25.75 ft	200.00 ml/min
10/15/2024 1:05 PM	02:50:00	6.66 pH	19.80 °C	734.97 µS/cm	0.92 mg/L	4.98 NTU	-50.8 mV	25.75 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-13	Grab.

Low-Flow Test Report:

Test Date / Time: 10/15/2024 10:12:29 AM
Project: GP-Plant Hammond
Operator Name: Amanda Tomlinson

Location Name: PT-14 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 35.3 ft** **Total Depth: 45.3 ft** **Initial Depth to Water: 25.67 ft**	**Pump Type: Bladder** **Tubing Type: Polyethylene** **Pump Intake From TOC: 40 ft** **Estimated Total Volume Pumped: 17350 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.03 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 843593**

Test Notes:
Metals. Total Fe: 10 mg/L. Fe2+: 5.0 mg/L.

Weather Conditions:
Cloudy, 53 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
10/15/2024 10:12 AM	00:00	6.84 pH	18.94 °C	813.13 µS/cm	0.27 mg/L	94.30 NTU	-91.9 mV	25.68 ft	200.00 ml/min
10/15/2024 10:17 AM	05:00	6.77 pH	18.67 °C	783.56 µS/cm	0.24 mg/L	63.80 NTU	-98.4 mV	25.68 ft	200.00 ml/min
10/15/2024 10:22 AM	10:00	6.79 pH	18.83 °C	800.33 µS/cm	0.14 mg/L	47.30 NTU	-112.0 mV	25.70 ft	200.00 ml/min
10/15/2024 10:27 AM	15:00	6.80 pH	18.80 °C	799.17 µS/cm	0.10 mg/L	31.40 NTU	-110.0 mV	25.70 ft	200.00 ml/min
10/15/2024 10:32 AM	20:00	6.81 pH	18.74 °C	803.23 µS/cm	0.08 mg/L	25.20 NTU	-111.8 mV	25.70 ft	200.00 ml/min
10/15/2024 10:37 AM	25:00	6.81 pH	18.74 °C	797.74 µS/cm	0.07 mg/L	14.90 NTU	-112.3 mV	25.70 ft	200.00 ml/min
10/15/2024 10:42 AM	30:00	6.84 pH	18.74 °C	798.66 µS/cm	0.06 mg/L	10.43 NTU	-119.9 mV	25.69 ft	200.00 ml/min
10/15/2024 10:47 AM	35:00	6.85 pH	18.79 °C	798.36 µS/cm	0.05 mg/L	10.98 NTU	-114.8 mV	25.70 ft	200.00 ml/min
10/15/2024 10:52 AM	40:00	6.84 pH	18.88 °C	797.06 µS/cm	0.04 mg/L	10.85 NTU	-114.6 mV	25.70 ft	200.00 ml/min
10/15/2024 10:57 AM	45:00	6.88 pH	18.96 °C	796.62 µS/cm	0.03 mg/L	9.64 NTU	-116.8 mV	25.70 ft	200.00 ml/min
10/15/2024 11:02 AM	50:00	6.89 pH	18.88 °C	796.70 µS/cm	0.03 mg/L	7.04 NTU	-122.8 mV	25.71 ft	200.00 ml/min
10/15/2024 11:07 AM	55:00	6.89 pH	18.83 °C	795.53 µS/cm	0.02 mg/L	7.88 NTU	-117.0 mV	25.70 ft	200.00 ml/min
10/15/2024 11:12 AM	01:00:00	6.92 pH	18.91 °C	795.11 µS/cm	0.02 mg/L	5.83 NTU	-117.2 mV	25.71 ft	200.00 ml/min

10/15/2024 11:17 AM	01:05:00	6.93 pH	18.92 °C	796.03 µS/cm	0.01 mg/L	5.78 NTU	-118.5 mV	25.70 ft	200.00 ml/min
10/15/2024 11:22 AM	01:10:00	6.94 pH	18.94 °C	795.29 µS/cm	0.01 mg/L	4.23 NTU	-125.0 mV	25.70 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-14	Grab.

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 10/15/2024 2:45:04 PM
Project: GP-Plant Hammond
Operator Name: Amanda Tomlinson

Location Name: PT-15 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 35.3 ft** **Total Depth: 45.3 ft** **Initial Depth to Water: 25.62 ft**	**Pump Type: Bladder** **Tubing Type: Polyethylene** **Pump Intake From TOC: 40 ft** **Estimated Total Volume Pumped: 6000 ml** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 843593**

Test Notes:
Metals. Total Fe: 1.5 mg/L. Fe2+: 1.0 mg/L.

Weather Conditions:
Partly cloudy, 63 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
10/15/2024 2:45 PM	00:00	7.03 pH	20.42 °C	708.80 µS/cm	0.32 mg/L	153.00 NTU	-38.3 mV	25.60 ft	200.00 ml/min
10/15/2024 2:50 PM	05:00	7.02 pH	19.90 °C	710.28 µS/cm	0.33 mg/L	54.44 NTU	-27.7 mV	25.59 ft	200.00 ml/min
10/15/2024 2:55 PM	10:00	7.02 pH	19.90 °C	715.99 µS/cm	0.14 mg/L	19.80 NTU	-24.4 mV	25.59 ft	200.00 ml/min
10/15/2024 3:00 PM	15:00	7.01 pH	19.73 °C	714.15 µS/cm	0.09 mg/L	8.83 NTU	-20.8 mV	25.59 ft	200.00 ml/min
10/15/2024 3:05 PM	20:00	7.04 pH	19.72 °C	712.45 µS/cm	0.07 mg/L	4.30 NTU	-21.7 mV	25.59 ft	200.00 ml/min
10/15/2024 3:10 PM	25:00	7.04 pH	19.67 °C	711.67 µS/cm	0.06 mg/L	3.18 NTU	-19.9 mV	25.60 ft	200.00 ml/min
10/15/2024 3:15 PM	30:00	7.04 pH	19.83 °C	710.88 µS/cm	0.05 mg/L	3.45 NTU	-19.6 mV	25.60 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-15	Grab.

Low-Flow Test Report:

Test Date / Time: 11/5/2024 10:07:38 AM
Project: Plant Hammond
Operator Name: Tristan Halterman

Location Name: INW-03 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 17.4 ft** **Total Depth: 27.4 ft** **Initial Depth to Water: 13.72 ft**	**Pump Type: Peristaltic** **Tubing Type: Polyethylene** **Pump Intake From TOC: 22.4 ft** **Estimated Total Volume Pumped: 4 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.03 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 980712**

Test Notes:
Parameters.

Weather Conditions:
Cloudy, 80 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
11/5/2024 10:07 AM	00:00	6.37 pH	20.39 °C	712.31 µS/cm	0.23 mg/L	5.08 NTU	-28.6 mV	13.75 ft	200.00 ml/min
11/5/2024 10:12 AM	05:00	6.35 pH	20.19 °C	719.11 µS/cm	0.17 mg/L	4.77 NTU	-35.3 mV	13.75 ft	200.00 ml/min
11/5/2024 10:17 AM	10:00	6.37 pH	20.17 °C	725.54 µS/cm	0.14 mg/L	3.15 NTU	-41.7 mV	13.75 ft	200.00 ml/min
11/5/2024 10:22 AM	15:00	6.39 pH	20.07 °C	730.96 µS/cm	0.12 mg/L	2.90 NTU	-41.8 mV	13.75 ft	200.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 11/4/2024 3:27:08 PM
Project: Plant Hammond
Operator Name: Zain Webb

Location Name: INW-04 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 35.3 ft** **Total Depth: 45.3 ft** **Initial Depth to Water: 26.65 ft**	**Pump Type: Bladder** **Tubing Type: Polyethylene** **Pump Intake From TOC: 40.3 ft** **Estimated Total Volume Pumped: 1.5 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 150 ml/min** **Final Draw Down: 0.08 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 989630**

Test Notes:
Parameters.

Weather Conditions:
Cloudy, 70 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
11/4/2024 3:27 PM	00:00	6.10 pH	19.50 °C	566.44 µS/cm	0.51 mg/L	++++	41.2 mV	26.65 ft	150.00 ml/min
11/4/2024 3:32 PM	05:00	6.29 pH	19.36 °C	623.26 µS/cm	0.43 mg/L	++++	6.9 mV	26.73 ft	150.00 ml/min
11/4/2024 3:37 PM	10:00	6.34 pH	19.37 °C	636.38 µS/cm	0.25 mg/L	++++	-3.9 mV	26.73 ft	150.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 11/4/2024 3:01:45 PM
Project: Plant Hammond
Operator Name: Tristan Halterman

Location Name: INW-05 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 35.3 ft** **Total Depth: 45.3 ft** **Initial Depth to Water: 26.25 ft**	**Pump Type: Bladder** **Tubing Type: Polyethylene** **Pump Intake From TOC: 40.3 ft** **Estimated Total Volume Pumped: 4 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 980712**

Test Notes:
Parameters.

Weather Conditions:
Cloudy, 70 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
11/4/2024 3:01 PM	00:00	6.75 pH	21.27 °C	735.02 µS/cm	1.04 mg/L	++++	-81.2 mV	26.25 ft	200.00 ml/min
11/4/2024 3:06 PM	05:00	6.76 pH	20.20 °C	746.52 µS/cm	0.67 mg/L	++++	-84.2 mV	26.25 ft	200.00 ml/min
11/4/2024 3:11 PM	10:00	6.76 pH	20.07 °C	750.26 µS/cm	0.81 mg/L	++++	-89.9 mV	26.25 ft	200.00 ml/min
11/4/2024 3:16 PM	15:00	6.77 pH	19.97 °C	753.63 µS/cm	0.77 mg/L	103.30 NTU	-92.1 mV	26.25 ft	200.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 11/4/2024 11:59:32 AM
Project: Plant Hammond
Operator Name: Tristan Halterman

Location Name: PT-07 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 37.75 ft** **Total Depth: 47.75 ft** **Initial Depth to Water: 27.09 ft**	**Pump Type: Bladder** **Tubing Type: Polyethylene** **Pump Intake From TOC: 42.75 ft** **Estimated Total Volume Pumped: 8 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 980712**

Test Notes:
Five Bottles: Appendix III and IV + Major Ions. Ferrous Iron: 4.5 mg/L, Total Iron: 5.0 mg/L.

Weather Conditions:
Cloudy, 60 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
11/4/2024 11:59 AM	00:00	6.74 pH	20.92 °C	752.94 µS/cm	1.45 mg/L	3.14 NTU	-76.9 mV	27.08 ft	200.00 ml/min
11/4/2024 12:04 PM	05:00	6.75 pH	20.13 °C	763.05 µS/cm	1.39 mg/L	2.25 NTU	-78.8 mV	27.09 ft	200.00 ml/min
11/4/2024 12:09 PM	10:00	6.76 pH	20.06 °C	761.88 µS/cm	1.53 mg/L	1.28 NTU	-83.8 mV	27.09 ft	200.00 ml/min
11/4/2024 12:14 PM	15:00	6.76 pH	20.06 °C	761.10 µS/cm	1.44 mg/L	0.98 NTU	-83.0 mV	27.09 ft	200.00 ml/min
11/4/2024 12:19 PM	20:00	6.76 pH	20.05 °C	759.72 µS/cm	1.45 mg/L	0.74 NTU	-81.7 mV	27.09 ft	200.00 ml/min
11/4/2024 12:24 PM	25:00	6.76 pH	20.02 °C	757.48 µS/cm	1.46 mg/L	0.48 NTU	-74.7 mV	27.09 ft	200.00 ml/min
11/4/2024 12:29 PM	30:00	6.76 pH	19.98 °C	756.66 µS/cm	1.46 mg/L	0.44 NTU	-79.3 mV	27.09 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-07	Grab.

Low-Flow Test Report:

Test Date / Time: 11/4/2024 10:24:38 AM
Project: Plant Hammond
Operator Name: Zain Webb

Location Name: PT-08 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 31.93 ft** **Total Depth: 41.93 ft** **Initial Depth to Water: 26.82 ft**	**Pump Type: Bladder** **Tubing Type: Polyethylene** **Pump Intake From TOC: 36.93 ft** **Estimated Total Volume Pumped: 16.5 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 150 ml/min** **Final Draw Down: 0.04 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 989630**

Test Notes:
Five Bottles: Appendix III and IV + Major Ions. Ferrous Iron: 0.5 mg/L, Total Iron: 0.6 mg/L.

Weather Conditions:
Cloudy, 70 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
11/4/2024 10:24 AM	00:00	6.30 pH	19.55 °C	594.75 µS/cm	0.71 mg/L	++++	123.4 mV	26.82 ft	150.00 ml/min
11/4/2024 10:29 AM	05:00	6.28 pH	19.44 °C	596.68 µS/cm	0.48 mg/L	++++	104.4 mV	26.84 ft	150.00 ml/min
11/4/2024 10:34 AM	10:00	6.30 pH	19.43 °C	609.37 µS/cm	0.35 mg/L	++++	90.8 mV	26.84 ft	150.00 ml/min
11/4/2024 10:39 AM	15:00	6.29 pH	19.45 °C	612.52 µS/cm	0.27 mg/L	++++	97.3 mV	26.85 ft	150.00 ml/min
11/4/2024 10:44 AM	20:00	6.30 pH	19.45 °C	615.04 µS/cm	0.35 mg/L	98.50 NTU	92.3 mV	26.85 ft	150.00 ml/min
11/4/2024 10:49 AM	25:00	6.29 pH	19.47 °C	615.76 µS/cm	0.46 mg/L	67.80 NTU	73.0 mV	26.85 ft	150.00 ml/min
11/4/2024 10:54 AM	30:00	6.30 pH	19.48 °C	616.43 µS/cm	0.30 mg/L	45.20 NTU	68.8 mV	26.86 ft	150.00 ml/min
11/4/2024 10:59 AM	35:00	6.30 pH	19.45 °C	618.45 µS/cm	0.26 mg/L	39.40 NTU	65.9 mV	26.86 ft	150.00 ml/min
11/4/2024 11:04 AM	40:00	6.31 pH	19.41 °C	619.37 µS/cm	0.23 mg/L	33.80 NTU	79.7 mV	26.86 ft	150.00 ml/min
11/4/2024 11:09 AM	45:00	6.31 pH	19.41 °C	621.36 µS/cm	0.25 mg/L	24.70 NTU	78.3 mV	26.86 ft	150.00 ml/min
11/4/2024 11:14 AM	50:00	6.32 pH	19.41 °C	621.63 µS/cm	0.24 mg/L	22.00 NTU	60.7 mV	26.86 ft	150.00 ml/min
11/4/2024 11:19 AM	55:00	6.31 pH	19.41 °C	618.71 µS/cm	0.26 mg/L	19.30 NTU	59.7 mV	26.86 ft	150.00 ml/min
11/4/2024 11:24 AM	01:00:00	6.31 pH	19.41 °C	622.24 µS/cm	0.23 mg/L	17.80 NTU	58.6 mV	26.86 ft	150.00 ml/min

11/4/2024 11:29 AM	01:05:00	6.32 pH	19.35 °C	619.19 µS/cm	0.35 mg/L	16.70 NTU	57.0 mV	26.86 ft	150.00 ml/min
11/4/2024 11:34 AM	01:10:00	6.33 pH	19.33 °C	626.17 µS/cm	0.14 mg/L	15.10 NTU	71.1 mV	26.86 ft	150.00 ml/min
11/4/2024 11:39 AM	01:15:00	6.34 pH	19.33 °C	627.61 µS/cm	0.19 mg/L	13.50 NTU	69.4 mV	26.86 ft	150.00 ml/min
11/4/2024 11:44 AM	01:20:00	6.34 pH	19.35 °C	630.84 µS/cm	0.15 mg/L	10.60 NTU	66.9 mV	26.86 ft	150.00 ml/min
11/4/2024 11:49 AM	01:25:00	6.36 pH	19.37 °C	632.97 µS/cm	0.19 mg/L	8.99 NTU	49.6 mV	26.86 ft	150.00 ml/min
11/4/2024 11:54 AM	01:30:00	6.37 pH	19.34 °C	637.17 µS/cm	0.19 mg/L	7.80 NTU	59.5 mV	26.86 ft	150.00 ml/min
11/4/2024 11:59 AM	01:35:00	6.38 pH	19.34 °C	638.66 µS/cm	0.20 mg/L	6.92 NTU	56.5 mV	26.86 ft	150.00 ml/min
11/4/2024 12:04 PM	01:40:00	6.38 pH	19.36 °C	640.96 µS/cm	0.17 mg/L	6.26 NTU	53.8 mV	26.86 ft	150.00 ml/min
11/4/2024 12:09 PM	01:45:00	6.39 pH	19.37 °C	643.29 µS/cm	0.15 mg/L	4.98 NTU	39.5 mV	26.86 ft	150.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-08	Grab.
HAM-AP1-FD-01	Grab.

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 11/5/2024 11:19:35 AM
Project: Plant Hammond
Operator Name: Tristan Halterman

Location Name: PT-09 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 20.47 ft** **Total Depth: 30.47 ft** **Initial Depth to Water: 17.20 ft**	**Pump Type: Peristaltic** **Tubing Type: Polyethylene** **Pump Intake From TOC: 25.47 ft** **Estimated Total Volume Pumped: 8 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 980712**

Test Notes:
Five Bottles: Appendix III and IV + Major Ions. Ferrous Iron: 0 mg/L, Total Iron: 0 mg/L.

Weather Conditions:
Cloudy, 70 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
11/5/2024 11:19 AM	00:00	6.90 pH	21.14 °C	754.52 µS/cm	0.73 mg/L	3.06 NTU	74.1 mV	17.30 ft	200.00 ml/min
11/5/2024 11:24 AM	05:00	6.79 pH	20.39 °C	761.25 µS/cm	0.27 mg/L	3.29 NTU	62.5 mV	17.30 ft	200.00 ml/min
11/5/2024 11:29 AM	10:00	6.80 pH	20.30 °C	758.32 µS/cm	0.21 mg/L	3.20 NTU	78.6 mV	17.30 ft	200.00 ml/min
11/5/2024 11:34 AM	15:00	6.80 pH	20.21 °C	759.98 µS/cm	0.18 mg/L	3.19 NTU	57.4 mV	17.30 ft	200.00 ml/min
11/5/2024 11:39 AM	20:00	6.79 pH	20.20 °C	754.43 µS/cm	0.17 mg/L	3.72 NTU	75.8 mV	17.30 ft	200.00 ml/min
11/5/2024 11:44 AM	25:00	6.78 pH	20.14 °C	758.31 µS/cm	0.15 mg/L	4.03 NTU	56.1 mV	17.20 ft	200.00 ml/min
11/5/2024 11:49 AM	30:00	6.79 pH	20.16 °C	756.70 µS/cm	0.15 mg/L	3.78 NTU	74.2 mV	17.20 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-09	Grab.

Low-Flow Test Report:

Test Date / Time: 11/5/2024 8:54:41 AM
Project: Plant Hammond
Operator Name: Zain Webb

Location Name: PT-10 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 20.45 ft** **Total Depth: 30.45 ft** **Initial Depth to Water: 17.13 ft**	**Pump Type: Peristaltic** **Tubing Type: Polyethylene** **Pump Intake From TOC: 25.45 ft** **Estimated Total Volume Pumped: 7 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.03 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 989630**

Test Notes:
Five Bottles: Appendix III and IV + Major Ions. Ferrous Iron: 0 mg/L, Total Iron: 0 mg/L.

Weather Conditions:
Cloudy, 80 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
11/5/2024 8:54 AM	00:00	6.85 pH	19.68 °C	675.75 µS/cm	0.26 mg/L	4.77 NTU	183.1 mV	17.13 ft	200.00 ml/min
11/5/2024 8:59 AM	05:00	6.87 pH	19.54 °C	677.59 µS/cm	0.17 mg/L	4.38 NTU	189.9 mV	17.15 ft	200.00 ml/min
11/5/2024 9:04 AM	10:00	6.88 pH	19.54 °C	677.84 µS/cm	0.14 mg/L	3.53 NTU	183.0 mV	17.15 ft	200.00 ml/min
11/5/2024 9:09 AM	15:00	6.89 pH	19.54 °C	679.17 µS/cm	0.11 mg/L	3.39 NTU	153.0 mV	17.16 ft	200.00 ml/min
11/5/2024 9:14 AM	20:00	6.89 pH	19.50 °C	679.78 µS/cm	0.10 mg/L	2.64 NTU	142.6 mV	17.16 ft	200.00 ml/min
11/5/2024 9:19 AM	25:00	6.90 pH	19.50 °C	678.73 µS/cm	0.09 mg/L	2.04 NTU	133.8 mV	17.16 ft	200.00 ml/min
11/5/2024 9:24 AM	30:00	6.90 pH	19.54 °C	677.87 µS/cm	0.09 mg/L	1.92 NTU	126.1 mV	17.16 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-10	Grab.

Low-Flow Test Report:

Test Date / Time: 11/5/2024 8:50:42 AM
Project: Plant Hammond
Operator Name: Tristan Halterman

Location Name: PT-11 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 16.9 ft** **Total Depth: 26.9 ft** **Initial Depth to Water: 13.64 ft**	**Pump Type: Peristaltic** **Tubing Type: Polyethylene** **Pump Intake From TOC: 21.9 ft** **Estimated Total Volume Pumped: 8 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 980712**

Test Notes:
Five Bottles: Appendix III and IV + Major Ions. Ferrous Iron: 0 mg/L, Total Iron: 0 mg/L.

Weather Conditions:
Cloudy, 65 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
11/5/2024 8:50 AM	00:00	6.85 pH	19.76 °C	752.24 µS/cm	0.43 mg/L	6.81 NTU	92.8 mV	13.64 ft	200.00 ml/min
11/5/2024 8:55 AM	05:00	6.83 pH	19.77 °C	741.50 µS/cm	0.22 mg/L	3.22 NTU	95.7 mV	13.64 ft	200.00 ml/min
11/5/2024 9:00 AM	10:00	6.82 pH	19.81 °C	741.37 µS/cm	0.18 mg/L	2.13 NTU	66.1 mV	13.64 ft	200.00 ml/min
11/5/2024 9:05 AM	15:00	6.80 pH	19.80 °C	736.71 µS/cm	0.17 mg/L	2.84 NTU	84.7 mV	13.64 ft	200.00 ml/min
11/5/2024 9:10 AM	20:00	6.80 pH	19.79 °C	736.79 µS/cm	0.16 mg/L	2.12 NTU	61.9 mV	13.64 ft	200.00 ml/min
11/5/2024 9:15 AM	25:00	6.80 pH	19.81 °C	734.49 µS/cm	0.15 mg/L	2.13 NTU	80.9 mV	13.64 ft	200.00 ml/min
11/5/2024 9:20 AM	30:00	6.80 pH	19.82 °C	735.89 µS/cm	0.14 mg/L	1.79 NTU	59.9 mV	13.64 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-11	Grab.

Low-Flow Test Report:

Test Date / Time: 11/5/2024 11:04:40 AM
Project: Plant Hammond
Operator Name: Zain Webb

Location Name: PT-12 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 17.3 ft** **Total Depth: 27.3 ft** **Initial Depth to Water: 13.52 ft**	**Pump Type: Peristaltic** **Tubing Type: Polyethylene** **Pump Intake From TOC: 22.3 ft** **Estimated Total Volume Pumped: 8 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.04 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 989630**

Test Notes:
Five Bottles: Appendix III and IV + Major Ions. Ferrous Iron: 0 mg/L, Total Iron: 0 mg/L.

Weather Conditions:
Cloudy, 80 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
11/5/2024 11:04 AM	00:00	6.81 pH	20.46 °C	776.88 µS/cm	0.20 mg/L	4.77 NTU	114.2 mV	13.52 ft	200.00 ml/min
11/5/2024 11:09 AM	05:00	6.78 pH	20.45 °C	743.67 µS/cm	0.15 mg/L	6.26 NTU	129.2 mV	13.55 ft	200.00 ml/min
11/5/2024 11:14 AM	10:00	6.76 pH	20.39 °C	740.39 µS/cm	0.13 mg/L	6.73 NTU	100.9 mV	13.55 ft	200.00 ml/min
11/5/2024 11:19 AM	15:00	6.73 pH	20.30 °C	734.20 µS/cm	0.11 mg/L	5.82 NTU	96.7 mV	13.56 ft	200.00 ml/min
11/5/2024 11:24 AM	20:00	6.68 pH	20.25 °C	731.23 µS/cm	0.10 mg/L	6.14 NTU	122.9 mV	13.56 ft	200.00 ml/min
11/5/2024 11:29 AM	25:00	6.64 pH	20.23 °C	728.18 µS/cm	0.10 mg/L	5.77 NTU	97.7 mV	13.56 ft	200.00 ml/min
11/5/2024 11:34 AM	30:00	6.63 pH	20.21 °C	723.90 µS/cm	0.09 mg/L	5.18 NTU	94.9 mV	13.56 ft	200.00 ml/min
11/5/2024 11:39 AM	35:00	6.61 pH	20.15 °C	717.50 µS/cm	0.08 mg/L	3.23 NTU	94.3 mV	13.56 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-12	Grab.

Low-Flow Test Report:

Test Date / Time: 11/4/2024 9:45:32 AM
Project: Plant Hammond
Operator Name: Tristan Halterman

Location Name: PT-13 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 35.3 ft** **Total Depth: 45.3 ft** **Initial Depth to Water: 26.52 ft**	**Pump Type: Bladder** **Tubing Type: Polyethylene** **Pump Intake From TOC: 40.3 ft** **Estimated Total Volume Pumped: 17 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.06 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 980712**

Test Notes:
Five Bottles: Appendix III and IV + Major Ions. Ferrous Iron: 2.5 mg/L, Total Iron: 5.0 mg/L.

Weather Conditions:
Cloudy, 60 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
11/4/2024 9:45 AM	00:00	6.64 pH	19.79 °C	727.16 µS/cm	2.02 mg/L	++++	-46.1 mV	26.59 ft	200.00 ml/min
11/4/2024 9:50 AM	05:00	6.65 pH	19.84 °C	725.57 µS/cm	2.59 mg/L	88.80 NTU	-43.4 mV	26.59 ft	200.00 ml/min
11/4/2024 9:55 AM	10:00	6.66 pH	19.76 °C	726.54 µS/cm	2.85 mg/L	56.60 NTU	-55.1 mV	26.59 ft	200.00 ml/min
11/4/2024 10:00 AM	15:00	6.66 pH	19.76 °C	739.19 µS/cm	3.08 mg/L	39.80 NTU	-55.9 mV	26.59 ft	200.00 ml/min
11/4/2024 10:05 AM	20:00	6.67 pH	19.79 °C	738.28 µS/cm	3.25 mg/L	31.20 NTU	-45.5 mV	26.59 ft	200.00 ml/min
11/4/2024 10:10 AM	25:00	6.68 pH	19.78 °C	738.09 µS/cm	3.29 mg/L	25.40 NTU	-56.6 mV	26.59 ft	200.00 ml/min
11/4/2024 10:15 AM	30:00	6.68 pH	19.80 °C	736.41 µS/cm	3.28 mg/L	19.60 NTU	-46.6 mV	26.59 ft	200.00 ml/min
11/4/2024 10:20 AM	35:00	6.68 pH	19.69 °C	762.30 µS/cm	7.92 mg/L	18.80 NTU	-57.4 mV	26.58 ft	200.00 ml/min
11/4/2024 10:25 AM	40:00	6.69 pH	19.76 °C	754.05 µS/cm	6.73 mg/L	15.80 NTU	-49.0 mV	26.58 ft	200.00 ml/min
11/4/2024 10:30 AM	45:00	6.69 pH	19.77 °C	755.05 µS/cm	6.48 mg/L	11.20 NTU	-49.8 mV	26.58 ft	200.00 ml/min
11/4/2024 10:35 AM	50:00	6.69 pH	19.85 °C	760.04 µS/cm	5.99 mg/L	8.16 NTU	-50.9 mV	26.58 ft	200.00 ml/min
11/4/2024 10:40 AM	55:00	6.69 pH	19.85 °C	758.31 µS/cm	6.88 mg/L	6.56 NTU	-60.2 mV	26.58 ft	200.00 ml/min
11/4/2024 10:45 AM	01:00:00	6.70 pH	19.85 °C	761.70 µS/cm	3.62 mg/L	6.29 NTU	-52.3 mV	26.58 ft	200.00 ml/min

11/4/2024 10:50 AM	01:05:00	6.69 pH	19.82 °C	761.12 µS/cm	3.41 mg/L	6.09 NTU	-52.8 mV	26.58 ft	200.00 ml/min
11/4/2024 10:55 AM	01:10:00	6.70 pH	19.77 °C	761.38 µS/cm	3.41 mg/L	5.34 NTU	-53.4 mV	26.58 ft	200.00 ml/min
11/4/2024 11:00 AM	01:15:00	6.70 pH	19.85 °C	759.92 µS/cm	3.41 mg/L	4.66 NTU	-54.1 mV	26.58 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-13	Grab

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 11/4/2024 1:35:28 PM
Project: Plant Hammond
Operator Name: Zain Webb

Location Name: PT-14 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 35.3 ft** **Total Depth: 45.3 ft** **Initial Depth to Water: 26.51 ft**	**Pump Type: Bladder** **Tubing Type: Polyethylene** **Pump Intake From TOC: 40.3 ft** **Estimated Total Volume Pumped: 11.25 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 150 ml/min** **Final Draw Down: 0.03 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 989630**

Test Notes:
Five Bottles: Appendix III and IV + Major Ions. Ferrous Iron: 2.5 mg/L, Total Iron: 16 mg/L.

Weather Conditions:
Cloudy, 70 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
11/4/2024 1:35 PM	00:00	6.71 pH	21.32 °C	758.16 µS/cm	3.01 mg/L	18.60 NTU	-93.1 mV	26.51 ft	150.00 ml/min
11/4/2024 1:40 PM	05:00	6.87 pH	19.59 °C	770.56 µS/cm	1.09 mg/L	14.10 NTU	-109.6 mV	26.54 ft	150.00 ml/min
11/4/2024 1:45 PM	10:00	6.88 pH	19.43 °C	771.51 µS/cm	0.72 mg/L	9.09 NTU	-109.9 mV	26.54 ft	150.00 ml/min
11/4/2024 1:50 PM	15:00	6.89 pH	19.38 °C	770.96 µS/cm	0.75 mg/L	7.58 NTU	-109.7 mV	26.54 ft	150.00 ml/min
11/4/2024 1:55 PM	20:00	6.88 pH	19.35 °C	770.74 µS/cm	0.89 mg/L	5.85 NTU	-94.4 mV	26.54 ft	150.00 ml/min
11/4/2024 2:00 PM	25:00	6.89 pH	19.32 °C	782.68 µS/cm	0.58 mg/L	4.99 NTU	-108.8 mV	26.54 ft	150.00 ml/min
11/4/2024 2:05 PM	30:00	6.89 pH	19.30 °C	770.33 µS/cm	0.47 mg/L	3.72 NTU	-109.3 mV	26.54 ft	150.00 ml/min
11/4/2024 2:10 PM	35:00	6.89 pH	19.28 °C	770.65 µS/cm	0.36 mg/L	3.46 NTU	-110.9 mV	26.54 ft	150.00 ml/min
11/4/2024 2:15 PM	40:00	6.89 pH	19.23 °C	770.52 µS/cm	0.39 mg/L	2.85 NTU	-110.3 mV	26.54 ft	150.00 ml/min
11/4/2024 2:20 PM	45:00	6.89 pH	19.23 °C	770.47 µS/cm	0.43 mg/L	2.67 NTU	-96.4 mV	26.54 ft	150.00 ml/min
11/4/2024 2:25 PM	50:00	6.90 pH	19.21 °C	770.55 µS/cm	0.21 mg/L	2.28 NTU	-113.5 mV	26.54 ft	150.00 ml/min
11/4/2024 2:30 PM	55:00	6.90 pH	19.18 °C	770.34 µS/cm	0.22 mg/L	1.57 NTU	-113.8 mV	26.54 ft	150.00 ml/min
11/4/2024 2:35 PM	01:00:00	6.90 pH	19.18 °C	770.71 µS/cm	0.40 mg/L	1.79 NTU	-111.8 mV	26.54 ft	150.00 ml/min

11/4/2024 2:40 PM	01:05:00	6.90 pH	19.19 °C	770.46 µS/cm	0.34 mg/L	1.42 NTU	-112.5 mV	26.54 ft	150.00 ml/min
11/4/2024 2:45 PM	01:10:00	6.90 pH	19.23 °C	769.88 µS/cm	0.33 mg/L	1.12 NTU	-100.0 mV	26.54 ft	150.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-14	Grab.

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 11/4/2024 1:26:33 PM
Project: Plant Hammond
Operator Name: Tristan Halterman

Location Name: PT-15 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 35.3 ft** **Total Depth: 45.3 ft** **Initial Depth to Water: 26.43 ft**	**Pump Type: Bladder** **Tubing Type: Polyethylene** **Pump Intake From TOC: 40.3 ft** **Estimated Total Volume Pumped: 8 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.04 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 980712**

Test Notes:
Five Bottles: Appendix III and IV + Major Ions. Ferrous Iron: 1.5 mg/L, Total Iron: 1.5 mg/L.

Weather Conditions:
Cloudy, 70 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
11/4/2024 1:26 PM	00:00	6.77 pH	20.38 °C	719.48 µS/cm	0.52 mg/L	5.17 NTU	-29.3 mV	26.47 ft	200.00 ml/min
11/4/2024 1:31 PM	05:00	6.71 pH	19.85 °C	726.89 µS/cm	0.34 mg/L	2.97 NTU	-33.4 mV	26.47 ft	200.00 ml/min
11/4/2024 1:36 PM	10:00	6.70 pH	19.74 °C	727.71 µS/cm	0.27 mg/L	1.34 NTU	-32.5 mV	26.47 ft	200.00 ml/min
11/4/2024 1:41 PM	15:00	6.69 pH	19.72 °C	726.47 µS/cm	0.22 mg/L	0.78 NTU	-27.8 mV	26.47 ft	200.00 ml/min
11/4/2024 1:46 PM	20:00	6.70 pH	19.72 °C	726.01 µS/cm	0.21 mg/L	0.60 NTU	-31.9 mV	26.47 ft	200.00 ml/min
11/4/2024 1:51 PM	25:00	6.70 pH	19.69 °C	725.42 µS/cm	0.16 mg/L	0.50 NTU	-27.1 mV	26.47 ft	200.00 ml/min
11/4/2024 1:56 PM	30:00	6.70 pH	19.69 °C	724.15 µS/cm	0.16 mg/L	0.21 NTU	-26.7 mV	26.47 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-15	Grab.

Low-Flow Test Report:

Test Date / Time: 12/3/2024 2:39:37 PM
Project: GP-Plant Hammond
Operator Name: Zain W.

Location Name: INW-03 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 17.4 ft** **Total Depth: 27.4 ft** **Initial Depth to Water: 13.77 ft**	**Pump Type: Peristaltic** **Tubing Type: Polyethylene** **Pump Intake From TOC: 22.4 ft** **Estimated Total Volume Pumped: 5 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.1 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1170065**

Test Notes:
Parameters.

Weather Conditions:
Clear, 40 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
12/3/2024 2:39 PM	00:00	6.34 pH	17.86 °C	673.58 µS/cm	0.24 mg/L	14.40 NTU	28.7 mV	13.85 ft	200.00 ml/min
12/3/2024 2:44 PM	05:00	6.34 pH	17.72 °C	679.16 µS/cm	0.20 mg/L	11.30 NTU	44.4 mV	13.86 ft	200.00 ml/min
12/3/2024 2:49 PM	10:00	6.34 pH	17.86 °C	675.83 µS/cm	0.19 mg/L	8.75 NTU	44.6 mV	13.87 ft	200.00 ml/min
12/3/2024 2:54 PM	15:00	6.36 pH	18.08 °C	672.92 µS/cm	0.18 mg/L	7.73 NTU	44.3 mV	13.87 ft	200.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 12/2/2024 3:40:26 PM
Project: GP-Plant Hammond
Operator Name: Jacob T.

Location Name: INW-04 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 35.3 ft** **Total Depth: 45.3 ft** **Initial Depth to Water: 26.81 ft**	**Pump Type: Bladder** **Tubing Type: Polyethylene** **Pump Intake From TOC: 40.3 ft** **Estimated Total Volume Pumped: 5.5 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.05 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1170046**

Test Notes:
Parameters.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
12/2/2024 3:40 PM	00:00	6.57 pH	17.71 °C	654.65 µS/cm	0.13 mg/L	87.40 NTU	-10.4 mV	26.81 ft	200.00 ml/min
12/2/2024 3:45 PM	05:00	6.62 pH	17.77 °C	659.42 µS/cm	0.11 mg/L	72.30 NTU	-14.0 mV	26.84 ft	200.00 ml/min
12/2/2024 3:51 PM	11:02	6.64 pH	17.83 °C	668.93 µS/cm	0.11 mg/L	64.30 NTU	-17.6 mV	26.86 ft	200.00 ml/min
12/2/2024 3:52 PM	12:23	6.65 pH	17.81 °C	630.20 µS/cm	0.10 mg/L	--	-15.8 mV	26.86 ft	200.00 ml/min
12/2/2024 3:57 PM	17:23	6.65 pH	17.76 °C	672.56 µS/cm	0.09 mg/L	50.60 NTU	-25.4 mV	26.86 ft	200.00 ml/min

Samples

Sample ID:	Description:

Low-Flow Test Report:

Test Date / Time: 12/2/2024 4:20:07 PM
Project: GP-Plant Hammond
Operator Name: Jacob T.

Location Name: INW-05 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 35.3 ft** **Total Depth: 45.3 ft** **Initial Depth to Water: 26.34 ft**	**Pump Type: Bladder** **Tubing Type: Polyethylene** **Pump Intake From TOC: 40.3 ft** **Estimated Total Volume Pumped: 4 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.04 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1170046**

Test Notes:
Parameters.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
12/2/2024 4:20 PM	00:00	7.12 pH	18.08 °C	757.06 µS/cm	0.47 mg/L	++++	-65.4 mV	26.36 ft	200.00 ml/min
12/2/2024 4:25 PM	05:00	7.13 pH	18.21 °C	754.80 µS/cm	0.35 mg/L	++++	-70.7 mV	26.36 ft	200.00 ml/min
12/2/2024 4:30 PM	10:00	7.12 pH	18.19 °C	758.30 µS/cm	0.22 mg/L	102.70 NTU	-75.3 mV	26.38 ft	200.00 ml/min
12/2/2024 4:35 PM	15:00	7.13 pH	18.26 °C	760.52 µS/cm	0.18 mg/L	65.20 NTU	-78.4 mV	26.38 ft	200.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 12/2/2024 2:26:10 PM
Project: GP-Plant Hammond
Operator Name: Zain Webb

Location Name: PT-07 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 37.75 ft** **Total Depth: 47.75 ft** **Initial Depth to Water: 27.22 ft**	**Pump Type: Bladder** **Tubing Type: Polyethylene** **Pump Intake From TOC: 42.75 ft** **Estimated Total Volume Pumped: 5.25 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 150 ml/min** **Final Draw Down: -0.03 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1170065**

Test Notes:
Full App. III & IV and Major Ions. Ferrous Iron: 6.5 mg/L, Total Iron: 9.2 mg/L.

Weather Conditions:
Clear, 40 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
12/2/2024 2:26 PM	00:00	6.85 pH	18.76 °C	755.91 µS/cm	0.96 mg/L	5.18 NTU	-63.8 mV	27.22 ft	150.00 ml/min
12/2/2024 2:31 PM	05:00	6.86 pH	18.84 °C	756.73 µS/cm	0.74 mg/L	3.27 NTU	-62.7 mV	27.16 ft	150.00 ml/min
12/2/2024 2:36 PM	10:00	6.86 pH	18.79 °C	759.08 µS/cm	0.61 mg/L	3.36 NTU	-53.7 mV	27.17 ft	150.00 ml/min
12/2/2024 2:41 PM	15:00	6.86 pH	18.83 °C	761.28 µS/cm	0.53 mg/L	2.61 NTU	-55.6 mV	27.18 ft	150.00 ml/min
12/2/2024 2:46 PM	20:00	6.86 pH	18.79 °C	761.15 µS/cm	0.39 mg/L	2.48 NTU	-56.1 mV	27.18 ft	150.00 ml/min
12/2/2024 2:51 PM	25:00	6.86 pH	18.84 °C	759.49 µS/cm	0.42 mg/L	2.04 NTU	-57.0 mV	27.19 ft	150.00 ml/min
12/2/2024 2:56 PM	30:00	6.87 pH	18.82 °C	760.18 µS/cm	0.46 mg/L	1.93 NTU	-57.7 mV	27.19 ft	150.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-07	Grab.

Low-Flow Test Report:

Test Date / Time: 12/2/2024 11:48:16 AM
Project: GP-Plant Hammond
Operator Name: Jacob T.

Location Name: PT-08 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 32.2 ft** **Total Depth: 42.2 ft** **Initial Depth to Water: 26.86 ft**	**Pump Type: Bladder** **Tubing Type: Polyethylene** **Pump Intake From TOC: 37.2 ft** **Estimated Total Volume Pumped: 7 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min Final Draw Down: 0.06 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1170046**

Test Notes:
Full App. III & IV and Major Ions. Ferrous Iron: 0.2 mg/L, Total Iron: 0.4 mg/L.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
12/2/2024 11:48 AM	00:00	6.39 pH	18.57 °C	547.38 µS/cm	0.32 mg/L	14.40 NTU	59.2 mV	26.58 ft	200.00 ml/min
12/2/2024 11:53 AM	05:00	6.43 pH	18.57 °C	585.92 µS/cm	0.23 mg/L	11.30 NTU	49.1 mV	26.89 ft	200.00 ml/min
12/2/2024 11:58 AM	10:00	6.47 pH	18.52 °C	602.98 µS/cm	0.19 mg/L	7.11 NTU	44.4 mV	26.92 ft	200.00 ml/min
12/2/2024 12:03 PM	15:00	6.48 pH	18.55 °C	603.27 µS/cm	0.17 mg/L	5.70 NTU	46.6 mV	26.92 ft	200.00 ml/min
12/2/2024 12:08 PM	20:00	6.49 pH	18.54 °C	613.32 µS/cm	0.15 mg/L	4.32 NTU	65.7 mV	26.92 ft	200.00 ml/min
12/2/2024 12:13 PM	25:00	6.49 pH	18.51 °C	613.76 µS/cm	0.15 mg/L	4.20 NTU	66.8 mV	26.92 ft	200.00 ml/min
12/2/2024 12:18 PM	30:00	6.49 pH	18.52 °C	607.25 µS/cm	0.13 mg/L	2.30 NTU	48.5 mV	26.92 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-08	Grab.

Low-Flow Test Report:

Test Date / Time: 12/3/2024 12:50:27 PM
Project: GP-Plant Hammond
Operator Name: Jacob T.

Location Name: PT-09 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 20.47 ft** **Total Depth: 30.47 ft** **Initial Depth to Water: 17.09 ft**	**Pump Type: Peristaltic** **Tubing Type: Polyethylene** **Pump Intake From TOC: 25.47 ft** **Estimated Total Volume Pumped: 24 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080307**

Test Notes:
Full App. III & IV and Major Ions. Ferrous Iron: 0 mg/L, Total Iron: 0 mg/L.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
12/3/2024 12:50 PM	00:00	7.12 pH	17.92 °C	760.91 µS/cm	0.73 mg/L	5.47 NTU	89.7 mV	17.09 ft	200.00 ml/min
12/3/2024 12:55 PM	05:00	7.09 pH	17.82 °C	738.10 µS/cm	0.80 mg/L	2.46 NTU	79.3 mV	17.09 ft	200.00 ml/min
12/3/2024 1:00 PM	10:00	7.10 pH	17.72 °C	750.06 µS/cm	0.77 mg/L	2.02 NTU	51.5 mV	17.09 ft	200.00 ml/min
12/3/2024 1:05 PM	15:00	7.09 pH	17.81 °C	744.90 µS/cm	0.78 mg/L	1.81 NTU	46.2 mV	17.09 ft	200.00 ml/min
12/3/2024 1:10 PM	20:00	7.10 pH	17.38 °C	740.10 µS/cm	0.76 mg/L	1.12 NTU	42.8 mV	17.09 ft	200.00 ml/min
12/3/2024 1:15 PM	25:00	7.08 pH	17.40 °C	742.19 µS/cm	0.71 mg/L	1.15 NTU	41.1 mV	17.09 ft	200.00 ml/min
12/3/2024 1:20 PM	30:00	7.09 pH	17.31 °C	730.13 µS/cm	0.69 mg/L	1.41 NTU	40.0 mV	17.09 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-09	Grab.

Low-Flow Test Report:

Test Date / Time: 12/3/2024 11:21:47 AM
Project: GP-Plant Hammond
Operator Name: Zain Webb

Location Name: PT-10 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 20.45 ft** **Total Depth: 30.45 ft** **Initial Depth to Water: 17.19 ft**	**Pump Type: Peristaltic** **Tubing Type: Polyethylene** **Pump Intake From TOC: 25.45 ft** **Estimated Total Volume Pumped: 7 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.06 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1170065**

Test Notes:
Full App. III & IV and Major Ions. Ferrous Iron: 0 mg/L, Total Iron: 0 mg/L.

Weather Conditions:
Clear, 40 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
12/3/2024 11:21 AM	00:00	6.61 pH	17.58 °C	668.58 µS/cm	0.28 mg/L	3.68 NTU	38.6 mV	17.19 ft	200.00 ml/min
12/3/2024 11:26 AM	05:00	6.71 pH	17.85 °C	680.97 µS/cm	0.20 mg/L	2.84 NTU	50.2 mV	17.25 ft	200.00 ml/min
12/3/2024 11:31 AM	10:00	6.76 pH	18.17 °C	688.26 µS/cm	0.18 mg/L	1.69 NTU	51.1 mV	17.25 ft	200.00 ml/min
12/3/2024 11:36 AM	15:00	6.78 pH	18.04 °C	685.04 µS/cm	0.16 mg/L	1.35 NTU	53.2 mV	17.25 ft	200.00 ml/min
12/3/2024 11:41 AM	20:00	6.80 pH	17.99 °C	682.95 µS/cm	0.16 mg/L	1.12 NTU	54.5 mV	17.25 ft	200.00 ml/min
12/3/2024 11:46 AM	25:00	6.82 pH	18.16 °C	681.20 µS/cm	0.15 mg/L	1.03 NTU	55.1 mV	17.25 ft	200.00 ml/min
12/3/2024 11:51 AM	30:00	6.83 pH	18.32 °C	678.04 µS/cm	0.15 mg/L	0.94 NTU	57.0 mV	17.25 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-10	Grab.
HAM-AP1-FD-01	Grab.

Low-Flow Test Report:

Test Date / Time: 12/3/2024 2:05:37 PM
Project: GP-Plant Hammond
Operator Name: Jacob T.

Location Name: PT-11 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 16.9 ft** **Total Depth: 26.9 ft** **Initial Depth to Water: 13.71 ft**	**Pump Type: Peristaltic** **Tubing Type: Polyethylene** **Pump Intake From TOC: 21.9 ft** **Estimated Total Volume Pumped: 7.2 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1080307**

Test Notes:
Full App. III & IV and Major Ions.

Weather Conditions:
Clear, 40 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
12/3/2024 2:05 PM	00:00	6.94 pH	16.67 °C	686.68 µS/cm	0.39 mg/L	1.72 NTU	92.2 mV	13.71 ft	200.00 ml/min
12/3/2024 2:07 PM	01:38	6.95 pH	17.24 °C	691.29 µS/cm	0.22 mg/L	--	72.1 mV	13.71 ft	200.00 ml/min
12/3/2024 2:12 PM	06:38	7.00 pH	17.54 °C	678.26 µS/cm	0.12 mg/L	0.82 NTU	59.7 mV	13.71 ft	200.00 ml/min
12/3/2024 2:17 PM	11:38	7.03 pH	17.57 °C	691.42 µS/cm	0.11 mg/L	0.64 NTU	38.8 mV	13.71 ft	200.00 ml/min
12/3/2024 2:22 PM	16:38	7.05 pH	17.71 °C	691.94 µS/cm	0.10 mg/L	0.92 NTU	45.3 mV	13.71 ft	200.00 ml/min
12/3/2024 2:27 PM	21:38	7.07 pH	17.45 °C	696.87 µS/cm	0.11 mg/L	0.85 NTU	32.7 mV	13.71 ft	200.00 ml/min
12/3/2024 2:32 PM	26:38	7.07 pH	17.17 °C	706.29 µS/cm	0.11 mg/L	0.89 NTU	30.5 mV	13.71 ft	200.00 ml/min
12/3/2024 2:37 PM	31:38	7.08 pH	17.00 °C	710.00 µS/cm	0.11 mg/L	0.70 NTU	28.9 mV	13.71 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-11	Grab.

Low-Flow Test Report:

Test Date / Time: 12/3/2024 1:22:08 PM
Project: GP-Plant Hammond
Operator Name: Zain Webb

Location Name: PT-12 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 17.3 ft** **Total Depth: 27.3 ft** **Initial Depth to Water: 13.6 ft**	**Pump Type: Peristaltic** **Tubing Type: Polyethylene** **Pump Intake From TOC: 22.3 ft** **Estimated Total Volume Pumped: 7 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1170065**

Test Notes:
Full App. III & IV and Major Ions. Ferrous Iron: 0 mg/L, Total Iron: 0 mg/L.

Weather Conditions:
Clear, 40 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
12/3/2024 1:22 PM	00:00	6.63 pH	17.81 °C	747.86 µS/cm	0.21 mg/L	6.84 NTU	44.5 mV	13.60 ft	200.00 ml/min
12/3/2024 1:27 PM	05:00	6.63 pH	17.82 °C	749.89 µS/cm	0.20 mg/L	5.12 NTU	77.0 mV	13.60 ft	200.00 ml/min
12/3/2024 1:32 PM	10:00	6.66 pH	17.90 °C	752.37 µS/cm	0.19 mg/L	4.00 NTU	74.2 mV	13.60 ft	200.00 ml/min
12/3/2024 1:37 PM	15:00	6.67 pH	17.49 °C	748.62 µS/cm	0.19 mg/L	4.53 NTU	73.1 mV	13.60 ft	200.00 ml/min
12/3/2024 1:42 PM	20:00	6.64 pH	17.50 °C	742.47 µS/cm	0.18 mg/L	4.30 NTU	70.9 mV	13.60 ft	200.00 ml/min
12/3/2024 1:47 PM	25:00	6.65 pH	17.48 °C	742.14 µS/cm	0.18 mg/L	3.64 NTU	69.2 mV	13.60 ft	200.00 ml/min
12/3/2024 1:52 PM	30:00	6.65 pH	17.50 °C	741.65 µS/cm	0.18 mg/L	3.47 NTU	68.7 mV	13.60 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-12	Grab.

Low-Flow Test Report:

Test Date / Time: 12/2/2024 11:42:31 AM
Project: GP-Plant Hammond
Operator Name: Zain Webb

Location Name: PT-13 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 35.3 ft** **Total Depth: 45.3 ft** **Initial Depth to Water: 26.58 ft**	**Pump Type: Bladder** **Tubing Type: Polyethylene** **Pump Intake From TOC: 40.3 ft** **Estimated Total Volume Pumped: 14.25 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 150 ml/min** **Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1170065**

Test Notes:
Full App. III & IV and Major Ions. Total Iron: 4.0 mg/L.

Weather Conditions:
Clear, 40 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
12/2/2024 11:42 AM	00:00	6.76 pH	17.86 °C	747.43 µS/cm	3.07 mg/L	52.90 NTU	-48.1 mV	26.58 ft	150.00 ml/min
12/2/2024 11:47 AM	05:00	6.81 pH	18.21 °C	778.89 µS/cm	3.12 mg/L	40.20 NTU	-52.2 mV	26.57 ft	150.00 ml/min
12/2/2024 11:52 AM	10:00	6.82 pH	18.27 °C	779.03 µS/cm	2.80 mg/L	36.70 NTU	-54.2 mV	26.58 ft	150.00 ml/min
12/2/2024 11:57 AM	15:00	6.82 pH	18.33 °C	762.71 µS/cm	2.52 mg/L	21.40 NTU	-54.8 mV	26.58 ft	150.00 ml/min
12/2/2024 12:02 PM	20:00	6.83 pH	18.42 °C	772.12 µS/cm	6.56 mg/L	16.60 NTU	-52.9 mV	26.58 ft	150.00 ml/min
12/2/2024 12:07 PM	25:00	6.83 pH	18.35 °C	774.53 µS/cm	4.26 mg/L	14.30 NTU	-49.3 mV	26.58 ft	150.00 ml/min
12/2/2024 12:12 PM	30:00	6.84 pH	18.26 °C	778.89 µS/cm	0.71 mg/L	13.10 NTU	-68.9 mV	26.58 ft	150.00 ml/min
12/2/2024 12:17 PM	35:00	6.83 pH	18.28 °C	779.09 µS/cm	0.61 mg/L	11.80 NTU	-55.9 mV	26.58 ft	150.00 ml/min
12/2/2024 12:22 PM	40:00	6.83 pH	18.36 °C	779.19 µS/cm	0.65 mg/L	11.00 NTU	-56.5 mV	26.58 ft	150.00 ml/min
12/2/2024 12:27 PM	45:00	6.83 pH	18.35 °C	778.82 µS/cm	0.62 mg/L	9.56 NTU	-56.7 mV	26.58 ft	150.00 ml/min
12/2/2024 12:32 PM	50:00	6.83 pH	18.36 °C	778.50 µS/cm	0.55 mg/L	8.47 NTU	-57.5 mV	26.58 ft	150.00 ml/min
12/2/2024 12:37 PM	55:00	6.83 pH	18.39 °C	773.95 µS/cm	0.50 mg/L	8.33 NTU	-57.6 mV	26.58 ft	150.00 ml/min
12/2/2024 12:42 PM	01:00:00	6.82 pH	18.43 °C	776.26 µS/cm	0.48 mg/L	7.56 NTU	-58.1 mV	26.58 ft	150.00 ml/min

12/2/2024 12:47 PM	01:05:00	6.82 pH	18.50 °C	778.94 µS/cm	0.60 mg/L	7.02 NTU	-58.3 mV	26.58 ft	150.00 ml/min
12/2/2024 12:52 PM	01:10:00	6.82 pH	18.47 °C	773.41 µS/cm	0.45 mg/L	6.24 NTU	-58.5 mV	26.58 ft	150.00 ml/min
12/2/2024 12:57 PM	01:15:00	6.82 pH	18.52 °C	774.20 µS/cm	0.41 mg/L	6.76 NTU	-59.0 mV	26.58 ft	150.00 ml/min
12/2/2024 1:02 PM	01:20:00	6.81 pH	18.51 °C	784.18 µS/cm	0.53 mg/L	5.90 NTU	-58.1 mV	26.58 ft	150.00 ml/min
12/2/2024 1:07 PM	01:25:00	6.82 pH	18.52 °C	774.29 µS/cm	0.38 mg/L	5.62 NTU	-59.1 mV	26.58 ft	150.00 ml/min
12/2/2024 1:12 PM	01:30:00	6.82 pH	18.53 °C	773.35 µS/cm	0.52 mg/L	4.74 NTU	-59.1 mV	26.58 ft	150.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-13	Grab.

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Low-Flow Test Report:

Test Date / Time: 12/2/2024 1:50:48 PM
Project: GP-Plant Hammond
Operator Name: Jacob T.

Location Name: PT-14 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 35.3 ft** **Total Depth: 45.3 ft** **Initial Depth to Water: 26.54 ft**	**Pump Type: Bladder** **Tubing Type: Polyethylene** **Pump Intake From TOC: 40.3 ft** **Estimated Total Volume Pumped: 10 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.05 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1170046**

Test Notes:
Full App. III & IV and Major Ions. Ferrous Iron: 5.2 mg/L, Total Iron: 5.6 mg/L.

Weather Conditions:
Clear, 40 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
12/2/2024 1:50 PM	00:00	7.16 pH	18.88 °C	782.39 µS/cm	0.34 mg/L	50.40 NTU	-77.5 mV	26.54 ft	200.00 ml/min
12/2/2024 1:55 PM	05:00	7.16 pH	18.90 °C	783.70 µS/cm	0.21 mg/L	42.70 NTU	-78.0 mV	26.54 ft	200.00 ml/min
12/2/2024 2:00 PM	10:00	7.17 pH	18.84 °C	782.11 µS/cm	0.17 mg/L	36.80 NTU	-104.7 mV	26.54 ft	200.00 ml/min
12/2/2024 2:05 PM	15:00	7.18 pH	18.76 °C	782.95 µS/cm	0.15 mg/L	30.10 NTU	-106.2 mV	26.54 ft	200.00 ml/min
12/2/2024 2:10 PM	20:00	7.18 pH	18.49 °C	783.57 µS/cm	0.14 mg/L	20.30 NTU	-81.4 mV	26.54 ft	200.00 ml/min
12/2/2024 2:15 PM	25:00	7.18 pH	18.26 °C	787.19 µS/cm	0.13 mg/L	17.80 NTU	-107.2 mV	26.54 ft	200.00 ml/min
12/2/2024 2:20 PM	30:00	7.18 pH	18.22 °C	787.83 µS/cm	0.12 mg/L	14.10 NTU	-81.1 mV	26.54 ft	200.00 ml/min
12/2/2024 2:25 PM	35:00	7.18 pH	18.21 °C	787.85 µS/cm	0.12 mg/L	7.48 NTU	-108.5 mV	26.54 ft	200.00 ml/min
12/2/2024 2:30 PM	40:00	7.18 pH	18.17 °C	787.77 µS/cm	0.11 mg/L	6.34 NTU	-84.0 mV	26.59 ft	200.00 ml/min
12/2/2024 2:35 PM	45:00	7.18 pH	18.13 °C	787.18 µS/cm	0.11 mg/L	4.76 NTU	-85.0 mV	26.59 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-14	Grab.

Low-Flow Test Report:

Test Date / Time: 12/2/2024 3:50:39 PM
Project: GP-Plant Hammond
Operator Name: Zain Webb

Location Name: PT-15 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 35.3 ft** **Total Depth: 45.3 ft** **Initial Depth to Water: 26.51 ft**	**Pump Type: Bladder** **Tubing Type: Polyethylene** **Pump Intake From TOC: 40.3 ft** **Estimated Total Volume Pumped: 5.25 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 150 ml/min** **Final Draw Down: 0.01 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1170065**

Test Notes:
Full App. III & IV and Major Ions. Ferrous Iron: 0 mg/L, Total Iron: 0.2 mg/L.

Weather Conditions:
Clear, 40 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
12/2/2024 3:50 PM	00:00	6.98 pH	18.48 °C	654.57 µS/cm	0.52 mg/L	27.60 NTU	-78.9 mV	26.51 ft	150.00 ml/min
12/2/2024 3:55 PM	05:00	6.82 pH	18.48 °C	704.98 µS/cm	0.45 mg/L	22.30 NTU	-18.6 mV	26.51 ft	150.00 ml/min
12/2/2024 4:00 PM	10:00	6.79 pH	18.47 °C	708.66 µS/cm	0.43 mg/L	15.50 NTU	-0.9 mV	26.52 ft	150.00 ml/min
12/2/2024 4:05 PM	15:00	6.78 pH	18.45 °C	706.73 µS/cm	0.40 mg/L	8.91 NTU	5.9 mV	26.52 ft	150.00 ml/min
12/2/2024 4:10 PM	20:00	6.77 pH	18.46 °C	706.23 µS/cm	0.31 mg/L	5.37 NTU	10.0 mV	26.52 ft	150.00 ml/min
12/2/2024 4:15 PM	25:00	6.76 pH	18.39 °C	707.28 µS/cm	0.30 mg/L	4.28 NTU	12.8 mV	26.52 ft	150.00 ml/min
12/2/2024 4:20 PM	30:00	6.76 pH	18.43 °C	703.58 µS/cm	0.32 mg/L	2.70 NTU	13.9 mV	26.52 ft	150.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-15	Grab.

Low-Flow Test Report:

Test Date / Time: 1/6/2025 3:09:18 PM
Project: GP-Plant Hammond
Operator Name: Thomas Kessler

Location Name: PT-07 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 37.75 ft** **Total Depth: 47.75 ft** **Initial Depth to Water: 26.85 ft**	**Pump Type: Bladder** **Tubing Type: Polyethylene** **Pump Intake From TOC: 42.75 ft** **Estimated Total Volume Pumped: 6 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1082817**

Test Notes:
Full App. III and IV and Major Ions. Ferrous Iron: 6.2 mg/L, Total Iron: 6.2 mg/L.

Weather Conditions:
Cloudy, 40 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
1/6/2025 3:09 PM	00:00	6.91 pH	13.45 °C	698.57 µS/cm	2.23 mg/L	8.45 NTU	-88.1 mV	26.85 ft	200.00 ml/min
1/6/2025 3:14 PM	05:00	6.87 pH	15.62 °C	680.43 µS/cm	0.93 mg/L	6.00 NTU	-65.8 mV	26.85 ft	200.00 ml/min
1/6/2025 3:19 PM	10:00	6.85 pH	15.77 °C	681.80 µS/cm	0.53 mg/L	2.87 NTU	-84.5 mV	26.85 ft	200.00 ml/min
1/6/2025 3:24 PM	15:00	6.86 pH	15.75 °C	679.69 µS/cm	0.36 mg/L	1.60 NTU	-66.6 mV	26.85 ft	200.00 ml/min
1/6/2025 3:29 PM	20:00	6.87 pH	15.61 °C	679.27 µS/cm	0.31 mg/L	1.23 NTU	-66.0 mV	26.85 ft	200.00 ml/min
1/6/2025 3:34 PM	25:00	6.85 pH	15.75 °C	682.97 µS/cm	0.24 mg/L	0.81 NTU	-66.0 mV	26.85 ft	200.00 ml/min
1/6/2025 3:39 PM	30:00	6.86 pH	15.75 °C	681.45 µS/cm	0.17 mg/L	0.39 NTU	-65.2 mV	26.85 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-07	Grab.

Low-Flow Test Report:

Test Date / Time: 1/6/2025 1:16:14 PM
Project: GP-Plant Hammond
Operator Name: Amanda Tomlinson

Location Name: PT-08 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 32 ft** **Total Depth: 42 ft** **Initial Depth to Water: 26.52**	**Pump Type: Bladder** **Tubing Type: Polyethylene** **Pump Intake From TOC: 38.00 ft** **Estimated Total Volume Pumped: 42 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min Final Draw Down: 0.04 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1082822**

Test Notes:
Full App. III and IV and Major Ions. Ferrous Iron: 1.0 mg/L, Total Iron: 2.0 mg/L.

Weather Conditions:
Cloudy and snow, 36 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
1/6/2025 1:16 PM	00:00	6.66 pH	14.34 °C	687.04 µS/cm	1.27 mg/L	++++	-37.0 mV	26.52 ft	200.00 ml/min
1/6/2025 1:21 PM	05:00	6.50 pH	15.91 °C	653.28 µS/cm	0.40 mg/L	++++	-14.4 mV	26.52 ft	200.00 ml/min
1/6/2025 1:26 PM	10:00	6.44 pH	15.64 °C	639.56 µS/cm	0.42 mg/L	++++	11.4 mV	26.54 ft	200.00 ml/min
1/6/2025 1:31 PM	15:00	6.41 pH	15.68 °C	632.12 µS/cm	0.37 mg/L	547.00 NTU	21.9 mV	26.56 ft	200.00 ml/min
1/6/2025 1:36 PM	20:00	6.39 pH	15.66 °C	630.44 µS/cm	0.40 mg/L	370.00 NTU	22.3 mV	26.56 ft	200.00 ml/min
1/6/2025 1:41 PM	25:00	6.39 pH	15.49 °C	632.69 µS/cm	0.32 mg/L	255.00 NTU	24.4 mV	26.56 ft	200.00 ml/min
1/6/2025 1:46 PM	30:00	6.41 pH	15.78 °C	633.82 µS/cm	0.31 mg/L	182.00 NTU	22.9 mV	26.56 ft	200.00 ml/min
1/6/2025 1:51 PM	35:00	6.41 pH	15.75 °C	640.84 µS/cm	0.29 mg/L	135.00 NTU	21.8 mV	26.56 ft	200.00 ml/min
1/6/2025 1:56 PM	40:00	6.42 pH	15.74 °C	645.46 µS/cm	0.28 mg/L	86.10 NTU	26.1 mV	26.56 ft	200.00 ml/min
1/6/2025 2:01 PM	45:00	6.42 pH	15.82 °C	643.08 µS/cm	0.27 mg/L	64.80 NTU	26.4 mV	26.56 ft	200.00 ml/min
1/6/2025 2:06 PM	50:00	6.42 pH	15.88 °C	648.01 µS/cm	0.26 mg/L	47.50 NTU	23.1 mV	26.56 ft	200.00 ml/min
1/6/2025 2:11 PM	55:00	6.42 pH	15.87 °C	648.39 µS/cm	0.26 mg/L	36.70 NTU	23.0 mV	26.56 ft	200.00 ml/min
1/6/2025 2:16 PM	01:00:00	6.43 pH	15.74 °C	647.63 µS/cm	0.25 mg/L	28.20 NTU	21.8 mV	26.56 ft	200.00 ml/min
1/6/2025 2:21 PM	01:05:00	6.43 pH	15.78 °C	646.26 µS/cm	0.24 mg/L	24.90 NTU	20.5 mV	26.56 ft	200.00 ml/min

1/6/2025 2:26 PM	01:10:00	6.44 pH	15.42 °C	649.73 µS/cm	0.24 mg/L	22.70 NTU	23.7 mV	26.56 ft	200.00 ml/min
1/6/2025 2:31 PM	01:15:00	6.44 pH	15.51 °C	649.01 µS/cm	0.24 mg/L	23.50 NTU	18.8 mV	26.56 ft	200.00 ml/min
1/6/2025 2:36 PM	01:20:00	6.45 pH	15.69 °C	653.52 µS/cm	0.24 mg/L	19.90 NTU	16.0 mV	26.56 ft	200.00 ml/min
1/6/2025 2:41 PM	01:25:00	6.44 pH	15.77 °C	657.89 µS/cm	1.26 mg/L	19.10 NTU	17.8 mV	26.56 ft	200.00 ml/min
1/6/2025 2:46 PM	01:30:00	6.46 pH	16.08 °C	656.91 µS/cm	1.52 mg/L	17.30 NTU	17.5 mV	26.56 ft	200.00 ml/min
1/6/2025 2:51 PM	01:35:00	6.46 pH	16.01 °C	657.35 µS/cm	1.12 mg/L	16.70 NTU	16.9 mV	26.56 ft	200.00 ml/min
1/6/2025 2:56 PM	01:40:00	6.48 pH	15.94 °C	660.12 µS/cm	0.45 mg/L	14.50 NTU	15.6 mV	26.56 ft	200.00 ml/min
1/6/2025 3:01 PM	01:45:00	6.49 pH	15.97 °C	658.74 µS/cm	0.51 mg/L	16.00 NTU	17.8 mV	26.56 ft	200.00 ml/min
1/6/2025 3:06 PM	01:50:00	6.49 pH	15.73 °C	657.39 µS/cm	0.62 mg/L	12.40 NTU	17.1 mV	26.56 ft	200.00 ml/min
1/6/2025 3:11 PM	01:55:00	6.50 pH	15.82 °C	657.73 µS/cm	0.38 mg/L	12.00 NTU	16.6 mV	26.56 ft	200.00 ml/min
1/6/2025 3:16 PM	02:00:00	6.49 pH	15.74 °C	657.81 µS/cm	0.25 mg/L	13.10 NTU	13.8 mV	26.56 ft	200.00 ml/min
1/6/2025 3:21 PM	02:05:00	6.50 pH	15.66 °C	655.73 µS/cm	0.30 mg/L	11.20 NTU	14.9 mV	26.56 ft	200.00 ml/min
1/6/2025 3:26 PM	02:10:00	6.49 pH	15.72 °C	663.49 µS/cm	0.25 mg/L	10.00 NTU	16.6 mV	26.56 ft	200.00 ml/min
1/6/2025 3:31 PM	02:15:00	6.49 pH	15.61 °C	663.73 µS/cm	1.42 mg/L	9.60 NTU	14.3 mV	26.56 ft	200.00 ml/min
1/6/2025 3:36 PM	02:20:00	6.50 pH	15.78 °C	664.62 µS/cm	0.29 mg/L	10.40 NTU	13.4 mV	26.56 ft	200.00 ml/min
1/6/2025 3:41 PM	02:25:00	6.50 pH	15.82 °C	665.74 µS/cm	0.26 mg/L	8.97 NTU	11.2 mV	26.56 ft	200.00 ml/min
1/6/2025 3:46 PM	02:30:00	6.49 pH	15.96 °C	665.90 µS/cm	0.23 mg/L	9.29 NTU	10.3 mV	26.56 ft	200.00 ml/min
1/6/2025 3:51 PM	02:35:00	6.50 pH	15.60 °C	664.25 µS/cm	0.23 mg/L	9.51 NTU	8.7 mV	26.56 ft	200.00 ml/min
1/6/2025 3:56 PM	02:40:00	6.50 pH	15.69 °C	660.56 µS/cm	0.23 mg/L	9.12 NTU	8.0 mV	26.56 ft	200.00 ml/min
1/6/2025 4:01 PM	02:45:00	6.50 pH	15.69 °C	664.00 µS/cm	0.23 mg/L	12.00 NTU	8.0 mV	26.56 ft	200.00 ml/min
1/6/2025 4:06 PM	02:50:00	6.50 pH	15.63 °C	664.58 µS/cm	0.24 mg/L	11.80 NTU	6.7 mV	26.56 ft	200.00 ml/min
1/6/2025 4:11 PM	02:55:00	6.51 pH	15.58 °C	667.80 µS/cm	1.23 mg/L	9.88 NTU	7.8 mV	26.56 ft	200.00 ml/min
1/6/2025 4:16 PM	03:00:00	6.49 pH	15.47 °C	672.52 µS/cm	1.44 mg/L	8.63 NTU	6.2 mV	26.56 ft	200.00 ml/min
1/6/2025 4:21 PM	03:05:00	6.51 pH	15.41 °C	668.62 µS/cm	0.56 mg/L	6.66 NTU	6.0 mV	26.56 ft	200.00 ml/min
1/6/2025 4:26 PM	03:10:00	6.50 pH	15.74 °C	658.24 µS/cm	0.93 mg/L	6.69 NTU	6.8 mV	26.56 ft	200.00 ml/min
1/6/2025 4:31 PM	03:15:00	6.52 pH	15.17 °C	668.70 µS/cm	0.23 mg/L	6.58 NTU	6.1 mV	26.56 ft	200.00 ml/min
1/6/2025 4:36 PM	03:20:00	6.52 pH	15.46 °C	671.35 µS/cm	0.24 mg/L	7.99 NTU	4.5 mV	26.56 ft	200.00 ml/min
1/6/2025 4:41 PM	03:25:00	6.51 pH	15.56 °C	670.03 µS/cm	0.31 mg/L	8.05 NTU	6.1 mV	26.56 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-08	Grab.
HAM-AP1-FD-01	Grab.

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 1/7/2025 9:52:12 AM
Project: GP-Plant Hammond
Operator Name: Thomas Kessler

Location Name: PT-09 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 20.47 ft** **Total Depth: 30.47 ft** **Initial Depth to Water: 16 ft**	**Pump Type: Peri** **Tubing Type: Polyethylene** **Pump Intake From TOC: 25.47 ft** **Estimated Total Volume Pumped: 8 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1082817**

Test Notes:
Full App. III and IV and Major Ions. Ferrous Iron: 0 mg/L, Total Iron: 0.2 mg/L.

Weather Conditions:
Cloudy, 28 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
1/7/2025 9:52 AM	00:00	6.89 pH	14.81 °C	691.18 µS/cm	0.40 mg/L	3.75 NTU	69.1 mV	16.00 ft	200.00 ml/min
1/7/2025 9:57 AM	05:00	6.91 pH	15.71 °C	663.07 µS/cm	0.25 mg/L	3.86 NTU	62.5 mV	16.00 ft	200.00 ml/min
1/7/2025 10:02 AM	10:00	6.90 pH	15.80 °C	659.07 µS/cm	0.26 mg/L	2.81 NTU	46.3 mV	16.00 ft	200.00 ml/min
1/7/2025 10:07 AM	15:00	6.92 pH	15.97 °C	651.52 µS/cm	0.33 mg/L	2.51 NTU	42.7 mV	16.00 ft	200.00 ml/min
1/7/2025 10:12 AM	20:00	6.90 pH	15.97 °C	657.91 µS/cm	0.30 mg/L	6.57 NTU	51.1 mV	16.00 ft	200.00 ml/min
1/7/2025 10:17 AM	25:00	6.92 pH	16.29 °C	651.61 µS/cm	0.20 mg/L	6.80 NTU	39.8 mV	16.00 ft	200.00 ml/min
1/7/2025 10:22 AM	30:00	6.93 pH	16.05 °C	643.66 µS/cm	0.17 mg/L	7.89 NTU	36.9 mV	16.00 ft	200.00 ml/min
1/7/2025 10:27 AM	35:00	6.92 pH	16.15 °C	638.73 µS/cm	0.19 mg/L	6.82 NTU	35.4 mV	16.00 ft	200.00 ml/min
1/7/2025 10:32 AM	40:00	6.94 pH	15.90 °C	641.49 µS/cm	0.13 mg/L	4.93 NTU	33.4 mV	16.00 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-09	Grab.

Low-Flow Test Report:

Test Date / Time: 1/7/2025 11:55:09 AM
Project: GP-Plant Hammond
Operator Name: Thomas Kessler

Location Name: PT-10 **Well Diameter: 2 ft** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 20.45 ft** **Total Depth: 30.45 ft** **Initial Depth to Water: 16.05 ft**	**Pump Type: Peri** **Tubing Type: Polyethylene** **Pump Intake From TOC: 25.45 ft** **Estimated Total Volume Pumped: 6 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.02 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1082817**

Test Notes:
Full App. III and IV and Major Ions. Ferrous Iron: 0 mg/L, Total Iron: 0 mg/L.

Weather Conditions:
Clear, 28 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
1/7/2025 11:55 AM	00:00	6.63 pH	13.98 °C	541.88 µS/cm	0.28 mg/L	4.02 NTU	74.7 mV	12.07 ft	200.00 ml/min
1/7/2025 12:00 PM	05:00	6.58 pH	14.09 °C	553.41 µS/cm	0.21 mg/L	3.98 NTU	66.0 mV	12.07 ft	200.00 ml/min
1/7/2025 12:05 PM	10:00	6.57 pH	15.62 °C	543.37 µS/cm	0.14 mg/L	4.46 NTU	46.7 mV	12.07 ft	200.00 ml/min
1/7/2025 12:10 PM	15:00	6.57 pH	15.88 °C	535.08 µS/cm	0.10 mg/L	3.22 NTU	42.2 mV	12.07 ft	200.00 ml/min
1/7/2025 12:15 PM	20:00	6.56 pH	16.06 °C	536.63 µS/cm	0.09 mg/L	2.99 NTU	37.4 mV	12.07 ft	200.00 ml/min
1/7/2025 12:20 PM	25:00	6.57 pH	16.08 °C	541.98 µS/cm	0.07 mg/L	3.54 NTU	32.3 mV	12.07 ft	200.00 ml/min
1/7/2025 12:25 PM	30:00	6.60 pH	15.87 °C	546.13 µS/cm	0.07 mg/L	2.65 NTU	12.0 mV	12.07 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-10	Grab.

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 1/7/2025 11:02:20 AM
Project: GP-Plant Hammond
Operator Name: Thomas Kessler

Location Name: PT-11 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 16.9 ft** **Total Depth: 26.9 ft** **Initial Depth to Water: 12.6 ft**	**Pump Type: Peri** **Tubing Type: Polyethylene** **Pump Intake From TOC: 21.9 ft** **Estimated Total Volume Pumped: 6 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1082817**

Test Notes:
Full App. III and IV and Major Ions. Ferrous Iron: 0 mg/L, Total Iron: 0 mg/L.

Weather Conditions:
Cloudy, 29 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
1/7/2025 11:02 AM	00:00	6.88 pH	14.96 °C	577.26 µS/cm	0.21 mg/L	2.49 NTU	67.6 mV	12.60 ft	200.00 ml/min
1/7/2025 11:07 AM	05:00	6.88 pH	15.29 °C	567.01 µS/cm	0.16 mg/L	1.37 NTU	61.1 mV	12.60 ft	200.00 ml/min
1/7/2025 11:12 AM	10:00	6.88 pH	15.26 °C	567.08 µS/cm	0.14 mg/L	1.38 NTU	42.5 mV	12.60 ft	200.00 ml/min
1/7/2025 11:17 AM	15:00	6.87 pH	15.93 °C	568.54 µS/cm	0.13 mg/L	0.63 NTU	51.1 mV	12.60 ft	200.00 ml/min
1/7/2025 11:22 AM	20:00	6.88 pH	15.26 °C	558.99 µS/cm	0.11 mg/L	0.53 NTU	38.7 mV	12.60 ft	200.00 ml/min
1/7/2025 11:27 AM	25:00	6.88 pH	14.99 °C	559.88 µS/cm	0.09 mg/L	0.61 NTU	45.6 mV	12.60 ft	200.00 ml/min
1/7/2025 11:32 AM	30:00	6.87 pH	15.26 °C	559.68 µS/cm	0.09 mg/L	0.35 NTU	35.7 mV	12.60 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-11	Grab.

Low-Flow Test Report:

Test Date / Time: 1/7/2025 8:56:36 AM
Project: GP-Plant Hammond
Operator Name: Thomas Kessler

Location Name: PT-12 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 17.3 ft** **Total Depth: 27.3 ft** **Initial Depth to Water: 12.45 ft**	**Pump Type: Peri** **Tubing Type: Polyethylene** **Pump Intake From TOC: 22.3 ft** **Estimated Total Volume Pumped: 7 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1082817**

Test Notes:
Full App. III and IV and Major Ions. Ferrous Iron: 0 mg/L, Total Iron: 2.0 mg/L.

Weather Conditions:
Cloudy, 28 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
1/7/2025 8:56 AM	00:00	6.53 pH	14.40 °C	579.45 µS/cm	0.41 mg/L	12.70 NTU	124.2 mV	12.45 ft	200.00 ml/min
1/7/2025 9:01 AM	05:00	6.56 pH	14.54 °C	632.12 µS/cm	0.30 mg/L	16.90 NTU	111.3 mV	12.45 ft	200.00 ml/min
1/7/2025 9:06 AM	10:00	6.54 pH	14.67 °C	635.88 µS/cm	0.24 mg/L	10.90 NTU	81.3 mV	12.45 ft	200.00 ml/min
1/7/2025 9:11 AM	15:00	6.57 pH	15.30 °C	647.29 µS/cm	0.19 mg/L	8.67 NTU	72.2 mV	12.45 ft	200.00 ml/min
1/7/2025 9:16 AM	20:00	6.58 pH	15.57 °C	647.20 µS/cm	0.19 mg/L	7.10 NTU	80.9 mV	12.45 ft	200.00 ml/min
1/7/2025 9:21 AM	25:00	6.58 pH	15.84 °C	648.79 µS/cm	0.14 mg/L	7.22 NTU	65.1 mV	12.45 ft	200.00 ml/min
1/7/2025 9:26 AM	30:00	6.58 pH	15.84 °C	640.17 µS/cm	0.12 mg/L	6.08 NTU	61.3 mV	12.45 ft	200.00 ml/min
1/7/2025 9:31 AM	35:00	6.62 pH	15.86 °C	649.55 µS/cm	0.09 mg/L	4.90 NTU	57.2 mV	12.45 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-12	Grab.

Low-Flow Test Report:

Test Date / Time: 1/6/2025 10:36:38 AM
Project: GP-Plant Hammond
Operator Name: Thomas Kessler

Location Name: PT-13 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 35.3 ft** **Total Depth: 45.3 ft** **Initial Depth to Water: 26.29 ft**	**Pump Type: Bladder** **Tubing Type: Polyethylene** **Pump Intake From TOC: 40.3 ft** **Estimated Total Volume Pumped: 25 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.02 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1082817**

Test Notes:
Full App. III and IV and Major Ions. Ferrous Iron: 6.6 mg/L, Total Iron: 6.6 mg/L.

Weather Conditions:
Cloudy, 40 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
1/6/2025 10:36 AM	00:00	6.71 pH	16.38 °C	697.34 µS/cm	2.06 mg/L	185.00 NTU	-169.4 mV	26.31 ft	200.00 ml/min
1/6/2025 10:41 AM	05:00	6.75 pH	17.49 °C	675.79 µS/cm	1.14 mg/L	146.00 NTU	-187.2 mV	26.31 ft	200.00 ml/min
1/6/2025 10:46 AM	10:00	6.77 pH	17.58 °C	677.41 µS/cm	0.97 mg/L	143.00 NTU	-211.1 mV	26.31 ft	200.00 ml/min
1/6/2025 10:51 AM	15:00	6.78 pH	17.63 °C	679.20 µS/cm	0.72 mg/L	85.90 NTU	-200.6 mV	26.31 ft	200.00 ml/min
1/6/2025 10:56 AM	20:00	6.79 pH	17.57 °C	681.39 µS/cm	0.55 mg/L	49.10 NTU	-138.6 mV	26.31 ft	200.00 ml/min
1/6/2025 11:01 AM	25:00	6.80 pH	17.47 °C	677.72 µS/cm	0.43 mg/L	32.40 NTU	-181.9 mV	26.31 ft	200.00 ml/min
1/6/2025 11:06 AM	30:00	6.80 pH	17.55 °C	680.49 µS/cm	0.25 mg/L	25.10 NTU	-125.9 mV	26.31 ft	200.00 ml/min
1/6/2025 11:11 AM	35:00	6.78 pH	17.56 °C	678.99 µS/cm	0.21 mg/L	21.80 NTU	-126.6 mV	26.31 ft	200.00 ml/min
1/6/2025 11:16 AM	40:00	6.80 pH	17.59 °C	684.53 µS/cm	0.17 mg/L	16.30 NTU	-165.3 mV	26.31 ft	200.00 ml/min
1/6/2025 11:21 AM	45:00	6.80 pH	17.45 °C	684.53 µS/cm	0.15 mg/L	16.00 NTU	-117.5 mV	26.31 ft	200.00 ml/min
1/6/2025 11:26 AM	50:00	6.80 pH	17.41 °C	685.63 µS/cm	0.13 mg/L	13.70 NTU	-113.1 mV	26.31 ft	200.00 ml/min
1/6/2025 11:31 AM	55:00	6.80 pH	17.44 °C	683.81 µS/cm	0.11 mg/L	12.30 NTU	-108.4 mV	26.31 ft	200.00 ml/min
1/6/2025 11:36 AM	01:00:00	6.81 pH	17.40 °C	683.92 µS/cm	0.10 mg/L	12.00 NTU	-148.2 mV	26.31 ft	200.00 ml/min

1/6/2025 11:41 AM	01:05:00	6.79 pH	17.48 °C	686.02 µS/cm	0.09 mg/L	11.30 NTU	-113.1 mV	26.31 ft	200.00 ml/min
1/6/2025 11:46 AM	01:10:00	6.80 pH	17.50 °C	682.10 µS/cm	0.08 mg/L	10.10 NTU	-117.5 mV	26.31 ft	200.00 ml/min
1/6/2025 11:51 AM	01:15:00	6.80 pH	17.42 °C	681.80 µS/cm	0.07 mg/L	9.78 NTU	-117.3 mV	26.31 ft	200.00 ml/min
1/6/2025 11:56 AM	01:20:00	6.80 pH	17.28 °C	684.30 µS/cm	0.07 mg/L	8.80 NTU	-117.2 mV	26.31 ft	200.00 ml/min
1/6/2025 12:01 PM	01:25:00	6.80 pH	17.22 °C	680.01 µS/cm	0.06 mg/L	8.41 NTU	-116.9 mV	26.31 ft	200.00 ml/min
1/6/2025 12:06 PM	01:30:00	6.80 pH	17.36 °C	682.96 µS/cm	0.06 mg/L	7.20 NTU	-113.0 mV	26.31 ft	200.00 ml/min
1/6/2025 12:11 PM	01:35:00	6.79 pH	17.36 °C	683.68 µS/cm	0.05 mg/L	7.76 NTU	-114.8 mV	26.31 ft	200.00 ml/min
1/6/2025 12:16 PM	01:40:00	6.79 pH	17.44 °C	681.05 µS/cm	0.05 mg/L	7.13 NTU	-117.0 mV	26.31 ft	200.00 ml/min
1/6/2025 12:21 PM	01:45:00	6.80 pH	17.36 °C	680.31 µS/cm	0.05 mg/L	6.80 NTU	-115.2 mV	26.31 ft	200.00 ml/min
1/6/2025 12:26 PM	01:50:00	6.80 pH	17.21 °C	682.42 µS/cm	0.04 mg/L	6.23 NTU	-153.8 mV	26.31 ft	200.00 ml/min
1/6/2025 12:31 PM	01:55:00	6.79 pH	17.27 °C	679.93 µS/cm	0.04 mg/L	6.06 NTU	-111.5 mV	26.31 ft	200.00 ml/min
1/6/2025 12:36 PM	02:00:00	6.80 pH	17.27 °C	680.14 µS/cm	0.04 mg/L	5.47 NTU	-107.4 mV	26.31 ft	200.00 ml/min
1/6/2025 12:41 PM	02:05:00	6.80 pH	17.29 °C	682.49 µS/cm	0.04 mg/L	4.96 NTU	-104.8 mV	26.31 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-13	Grab.

Low-Flow Test Report:

Test Date / Time: 1/6/2025 10:40:09 AM
Project: GP-Plant Hammond
Operator Name: Amanda Tomlinson

Location Name: PT-14 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 35.3 ft** **Total Depth: 45.3 ft** **Initial Depth to Water: 26.26 ft**	**Pump Type: Bladder** **Tubing Type: Polyethylene** **Pump Intake From TOC: 40.00 ft** **Estimated Total Volume Pumped: 24 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: -0.15 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1082822**

Test Notes:
Full App. III and IV and Major Ions. Ferrous Iron: 7.0 mg/L, Total Iron: 7.0 mg/L.

Weather Conditions:
Cloudy, 39 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
1/6/2025 10:40 AM	00:00	6.85 pH	17.37 °C	773.16 µS/cm	3.00 mg/L	177.00 NTU	-88.1 mV	25.82 ft	200.00 ml/min
1/6/2025 10:45 AM	05:00	6.86 pH	17.46 °C	761.67 µS/cm	3.43 mg/L	123.00 NTU	-90.2 mV	26.02 ft	200.00 ml/min
1/6/2025 10:50 AM	10:00	6.87 pH	17.53 °C	756.62 µS/cm	3.56 mg/L	75.90 NTU	-92.3 mV	26.10 ft	200.00 ml/min
1/6/2025 10:55 AM	15:00	6.88 pH	17.53 °C	751.02 µS/cm	3.63 mg/L	60.00 NTU	-93.3 mV	26.08 ft	200.00 ml/min
1/6/2025 11:00 AM	20:00	6.88 pH	17.48 °C	749.75 µS/cm	3.62 mg/L	36.20 NTU	-94.7 mV	26.08 ft	200.00 ml/min
1/6/2025 11:05 AM	25:00	6.88 pH	17.45 °C	748.41 µS/cm	3.86 mg/L	34.10 NTU	-102.3 mV	26.11 ft	200.00 ml/min
1/6/2025 11:10 AM	30:00	6.88 pH	17.45 °C	746.04 µS/cm	3.62 mg/L	24.20 NTU	-104.7 mV	26.11 ft	200.00 ml/min
1/6/2025 11:15 AM	35:00	6.89 pH	17.42 °C	749.36 µS/cm	3.50 mg/L	20.60 NTU	-106.0 mV	26.11 ft	200.00 ml/min
1/6/2025 11:20 AM	40:00	6.89 pH	17.36 °C	748.26 µS/cm	3.47 mg/L	18.20 NTU	-98.7 mV	26.11 ft	200.00 ml/min
1/6/2025 11:25 AM	45:00	6.90 pH	17.31 °C	746.15 µS/cm	3.71 mg/L	16.50 NTU	-98.4 mV	26.11 ft	200.00 ml/min
1/6/2025 11:30 AM	50:00	6.90 pH	17.32 °C	759.07 µS/cm	3.81 mg/L	14.40 NTU	-105.7 mV	26.11 ft	200.00 ml/min
1/6/2025 11:35 AM	55:00	6.90 pH	17.26 °C	759.39 µS/cm	3.75 mg/L	12.60 NTU	-99.8 mV	26.11 ft	200.00 ml/min
1/6/2025 11:40 AM	01:00:00	6.90 pH	17.27 °C	758.12 µS/cm	3.78 mg/L	11.10 NTU	-99.9 mV	26.11 ft	200.00 ml/min
1/6/2025 11:45 AM	01:05:00	6.91 pH	17.37 °C	755.32 µS/cm	3.80 mg/L	10.50 NTU	-107.1 mV	26.11 ft	200.00 ml/min

1/6/2025 11:50 AM	01:10:00	6.90 pH	17.26 °C	757.15 µS/cm	3.80 mg/L	9.76 NTU	-106.6 mV	26.11 ft	200.00 ml/min
1/6/2025 11:51 AM	01:11:20	6.90 pH	17.35 °C	753.80 µS/cm	3.84 mg/L	--	-100.3 mV	26.11 ft	200.00 ml/min
1/6/2025 11:56 AM	01:16:20	6.91 pH	17.17 °C	758.62 µS/cm	3.86 mg/L	8.75 NTU	-106.4 mV	26.11 ft	200.00 ml/min
1/6/2025 12:01 PM	01:21:20	6.90 pH	17.08 °C	757.95 µS/cm	3.86 mg/L	8.14 NTU	-105.6 mV	26.11 ft	200.00 ml/min
1/6/2025 12:06 PM	01:26:20	6.90 pH	17.23 °C	756.50 µS/cm	3.82 mg/L	7.31 NTU	-106.8 mV	26.11 ft	200.00 ml/min
1/6/2025 12:11 PM	01:31:20	6.90 pH	17.23 °C	759.70 µS/cm	3.90 mg/L	7.02 NTU	-107.0 mV	26.11 ft	200.00 ml/min
1/6/2025 12:16 PM	01:36:20	6.90 pH	17.31 °C	760.53 µS/cm	3.96 mg/L	6.03 NTU	-107.3 mV	26.11 ft	200.00 ml/min
1/6/2025 12:21 PM	01:41:20	6.91 pH	17.23 °C	757.88 µS/cm	3.93 mg/L	6.03 NTU	-101.7 mV	26.11 ft	200.00 ml/min
1/6/2025 12:26 PM	01:46:20	6.91 pH	17.09 °C	757.92 µS/cm	3.98 mg/L	5.91 NTU	-106.8 mV	26.11 ft	200.00 ml/min
1/6/2025 12:31 PM	01:51:20	6.91 pH	17.14 °C	760.75 µS/cm	3.99 mg/L	5.53 NTU	-106.8 mV	26.11 ft	200.00 ml/min
1/6/2025 12:36 PM	01:56:20	6.90 pH	17.13 °C	760.72 µS/cm	4.01 mg/L	4.85 NTU	-106.7 mV	26.11 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-14	Grab.

Low-Flow Test Report:

Test Date / Time: 1/6/2025 1:28:26 PM
Project: GP-Plant Hammond
Operator Name: Thomas Kessler

Location Name: PT-15 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 35.3 ft** **Total Depth: 45.3 ft** **Initial Depth to Water: 26.2 ft**	**Pump Type: Bladder** **Tubing Type: Polyethylene** **Pump Intake From TOC: 40.3 ft** **Estimated Total Volume Pumped: 10 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: -0.02 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1082817**

Test Notes:
Full app. III and IV and Major Ions. Ferrous Iron: 1.2 mg/L, Total Iron: 1.2 mg/L.

Weather Conditions:
Snowy, 40 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
1/6/2025 1:28 PM	00:00	6.79 pH	14.18 °C	651.10 µS/cm	3.75 mg/L	179.00 NTU	-50.3 mV	26.18 ft	200.00 ml/min
1/6/2025 1:33 PM	05:00	6.77 pH	15.91 °C	639.78 µS/cm	2.73 mg/L	194.00 NTU	-42.0 mV	26.18 ft	200.00 ml/min
1/6/2025 1:38 PM	10:00	6.77 pH	15.89 °C	646.81 µS/cm	2.25 mg/L	69.20 NTU	-37.6 mV	26.18 ft	200.00 ml/min
1/6/2025 1:43 PM	15:00	6.76 pH	15.93 °C	646.63 µS/cm	1.91 mg/L	58.10 NTU	-35.5 mV	26.18 ft	200.00 ml/min
1/6/2025 1:48 PM	20:00	6.76 pH	16.11 °C	648.00 µS/cm	1.62 mg/L	51.10 NTU	-47.2 mV	26.18 ft	200.00 ml/min
1/6/2025 1:53 PM	25:00	6.76 pH	15.97 °C	647.67 µS/cm	1.29 mg/L	14.80 NTU	-42.5 mV	26.18 ft	200.00 ml/min
1/6/2025 1:58 PM	30:00	6.75 pH	16.11 °C	648.18 µS/cm	0.93 mg/L	7.20 NTU	-29.6 mV	26.18 ft	200.00 ml/min
1/6/2025 2:03 PM	35:00	6.76 pH	16.15 °C	645.63 µS/cm	0.78 mg/L	5.32 NTU	-36.3 mV	26.18 ft	200.00 ml/min
1/6/2025 2:08 PM	40:00	6.75 pH	16.25 °C	645.31 µS/cm	0.65 mg/L	4.87 NTU	-35.1 mV	26.18 ft	200.00 ml/min
1/6/2025 2:13 PM	45:00	6.75 pH	16.27 °C	646.29 µS/cm	0.56 mg/L	4.01 NTU	-34.0 mV	26.18 ft	200.00 ml/min
1/6/2025 2:18 PM	50:00	6.76 pH	16.09 °C	643.69 µS/cm	0.48 mg/L	4.40 NTU	-24.4 mV	26.18 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-15	Grab.

Low-Flow Test Report:

Test Date / Time: 1/7/2025 1:22:52 PM
Project: GP-Plant Hammond
Operator Name: Thomas Kessler

Location Name: INW-03 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 17.4 ft** **Total Depth: 27.4 ft** **Initial Depth to Water: 12.72 ft**	**Pump Type: Peri** **Tubing Type: Polyethylene** **Pump Intake From TOC: 22.4 ft** **Estimated Total Volume Pumped: 3 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1082817**

Test Notes:
Parameters.

Weather Conditions:
Clear, 30 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
1/7/2025 1:22 PM	00:00	6.28 pH	12.31 °C	529.25 µS/cm	1.63 mg/L	8.86 NTU	78.2 mV	12.72 ft	200.00 ml/min
1/7/2025 1:27 PM	05:00	6.32 pH	15.42 °C	589.67 µS/cm	0.28 mg/L	2.87 NTU	78.6 mV	12.72 ft	200.00 ml/min
1/7/2025 1:32 PM	10:00	6.44 pH	15.73 °C	598.29 µS/cm	0.17 mg/L	2.93 NTU	69.2 mV	12.74 ft	200.00 ml/min
1/7/2025 1:37 PM	15:00	6.46 pH	15.75 °C	600.20 µS/cm	0.11 mg/L	3.36 NTU	65.6 mV	12.74 ft	200.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 1/6/2025 5:15:54 PM
Project: GP-Plant Hammond
Operator Name: Thomas Kessler

Location Name: INW-04 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 33.11 ft** **Total Depth: 43.11 ft** **Initial Depth to Water: 26.35 ft**	**Pump Type: Bladder** **Tubing Type: Polyethylene** **Pump Intake From TOC: 38.11 ft** **Estimated Total Volume Pumped: 3 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.2 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1082817**

Test Notes:
Parameters.

Weather Conditions:
Cloudy, 30 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
1/6/2025 5:15 PM	00:00	6.26 pH	14.40 °C	557.95 µS/cm	0.51 mg/L	529.00 NTU	4.3 mV	26.55 ft	200.00 ml/min
1/6/2025 5:20 PM	05:00	6.32 pH	15.17 °C	575.00 µS/cm	0.24 mg/L	430.00 NTU	-13.0 mV	26.55 ft	200.00 ml/min
1/6/2025 5:25 PM	10:00	6.39 pH	15.26 °C	600.53 µS/cm	0.18 mg/L	204.00 NTU	-24.5 mV	26.55 ft	200.00 ml/min
1/6/2025 5:30 PM	15:00	6.43 pH	15.30 °C	607.43 µS/cm	0.13 mg/L	124.00 NTU	-30.4 mV	26.55 ft	200.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 1/6/2025 4:40:30 PM
Project: GP-Plant Hammond
Operator Name: Thomas Kessler

Location Name: INW-05 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 31.6 ft** **Total Depth: 41.6 ft** **Initial Depth to Water: 26 ft**	**Pump Type: Bladder** **Tubing Type: Polyethylene** **Pump Intake From TOC: 36.6 ft** **Estimated Total Volume Pumped: 3 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.1 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1082817**

Test Notes:
Parameters.

Weather Conditions:
Cloudy, 30 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
1/6/2025 4:40 PM	00:00	6.90 pH	12.57 °C	649.48 µS/cm	0.99 mg/L	340.00 NTU	-63.0 mV	26.00 ft	200.00 ml/min
1/6/2025 4:45 PM	05:00	6.85 pH	16.22 °C	653.97 µS/cm	0.34 mg/L	163.00 NTU	-84.3 mV	26.10 ft	200.00 ml/min
1/6/2025 4:50 PM	10:00	6.86 pH	16.67 °C	647.92 µS/cm	0.18 mg/L	129.00 NTU	-86.2 mV	26.10 ft	200.00 ml/min
1/6/2025 4:55 PM	15:00	6.85 pH	16.90 °C	640.46 µS/cm	0.17 mg/L	126.00 NTU	-87.1 mV	26.10 ft	200.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 2/5/2025 11:54:31 AM
Project: GP-Plant Hammond
Operator Name: Tristan Halterman

Location Name: INW-03 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 17.40 ft** **Total Depth: 27.40 ft** **Initial Depth to Water: 13.62 ft**	**Pump Type: Peristaltic** **Tubing Type: Polyethylene** **Pump Intake From TOC: 22.40 ft** **Estimated Total Volume Pumped: 3 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.03 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965586**

Test Notes:
Parameters.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
2/5/2025 11:54 AM	00:00	6.77 pH	22.53 °C	606.42 µS/cm	1.56 mg/L	4.23 NTU	87.5 mV	13.65 ft	200.00 ml/min
2/5/2025 11:59 AM	05:00	6.44 pH	19.51 °C	658.60 µS/cm	0.27 mg/L	3.65 NTU	95.7 mV	13.65 ft	200.00 ml/min
2/5/2025 12:04 PM	10:00	6.38 pH	19.40 °C	654.61 µS/cm	0.19 mg/L	6.26 NTU	84.1 mV	13.65 ft	200.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 2/4/2025 2:47:02 PM
Project: GP-Plant Hammond
Operator Name: Tristan Halterman

Location Name: INW-04 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 35.30 ft** **Total Depth: 45.30 ft** **Initial Depth to Water: 26.60 ft**	**Pump Type: Bladder** **Tubing Type: Polyethylene** **Pump Intake From TOC: 40.30 ft** **Estimated Total Volume Pumped: 3 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.13 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965586**

Test Notes:
Parameters.

Weather Conditions:
Cloudy, 75 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
2/4/2025 2:47 PM	00:00	5.88 pH	20.93 °C	617.25 µS/cm	0.84 mg/L	++++	23.8 mV	26.65 ft	200.00 ml/min
2/4/2025 2:52 PM	05:00	6.12 pH	19.49 °C	666.65 µS/cm	0.41 mg/L	++++	23.2 mV	26.70 ft	200.00 ml/min
2/4/2025 2:57 PM	10:00	6.23 pH	19.27 °C	677.90 µS/cm	0.31 mg/L	92.20 NTU	26.2 mV	26.73 ft	200.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 2/4/2025 1:07:33 PM
Project: GP-Plant Hammond
Operator Name: Zain Webb

Location Name: INW-05 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 35.30 ft** **Total Depth: 45.30 ft** **Initial Depth to Water: 26.17 ft**	**Pump Type: Bladder** **Tubing Type: Polyethylene** **Pump Intake From TOC: 40.30 ft** **Estimated Total Volume Pumped: 2.25 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 150 ml/min** **Final Draw Down: 0.05 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 952637**

Test Notes:
Parameters; Fe^{2+} = 4.5 mg/L.

Weather Conditions:
Sunny, 70 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
2/4/2025 1:07 PM	00:00	6.96 pH	19.76 °C	776.82 µS/cm	0.15 mg/L	77.50 NTU	-115.2 mV	26.17 ft	150.00 ml/min
2/4/2025 1:12 PM	05:00	6.95 pH	19.68 °C	782.02 µS/cm	0.10 mg/L	63.90 NTU	-124.4 mV	26.21 ft	150.00 ml/min
2/4/2025 1:17 PM	10:00	6.96 pH	19.60 °C	783.71 µS/cm	0.07 mg/L	48.80 NTU	-118.9 mV	26.22 ft	150.00 ml/min
2/4/2025 1:22 PM	15:00	6.97 pH	19.55 °C	783.95 µS/cm	0.06 mg/L	35.90 NTU	-119.1 mV	26.22 ft	150.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 2/4/2025 11:10:51 AM
Project: GP-Plant Hammond
Operator Name: Zain Webb

Location Name: PT-07 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 37.75 ft** **Total Depth: 47.75 ft** **Initial Depth to Water: 26.93 ft**	**Pump Type: Bladder** **Tubing Type: Polyethylene** **Pump Intake From TOC: 42.75 ft** **Estimated Total Volume Pumped: 6.75 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 150 ml/min** **Final Draw Down: 0.05 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 952637**

Test Notes:
Six Bottles: Appendix III & IV + Major Ions; Fe^{2+} = 4.5 mg/L, Fe_T = 6.0 mg/L.

Weather Conditions:
Cloudy, 65 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
2/4/2025 11:10 AM	00:00	6.87 pH	18.73 °C	758.54 µS/cm	0.46 mg/L	11.60 NTU	-89.5 mV	26.93 ft	150.00 ml/min
2/4/2025 11:15 AM	05:00	6.87 pH	18.61 °C	761.84 µS/cm	0.26 mg/L	8.23 NTU	-90.9 mV	26.95 ft	150.00 ml/min
2/4/2025 11:20 AM	10:00	6.88 pH	18.60 °C	761.89 µS/cm	0.21 mg/L	5.14 NTU	-91.7 mV	26.97 ft	150.00 ml/min
2/4/2025 11:25 AM	15:00	6.88 pH	18.64 °C	763.00 µS/cm	0.17 mg/L	3.89 NTU	-92.9 mV	26.98 ft	150.00 ml/min
2/4/2025 11:30 AM	20:00	6.89 pH	18.61 °C	762.65 µS/cm	0.15 mg/L	2.75 NTU	-93.5 mV	26.98 ft	150.00 ml/min
2/4/2025 11:35 AM	25:00	6.89 pH	18.61 °C	760.88 µS/cm	0.14 mg/L	--	-102.1 mV	26.98 ft	150.00 ml/min
2/4/2025 11:40 AM	30:00	6.88 pH	18.66 °C	760.32 µS/cm	0.12 mg/L	--	-92.1 mV	26.98 ft	150.00 ml/min
2/4/2025 11:45 AM	35:00	6.89 pH	18.64 °C	760.16 µS/cm	0.11 mg/L	--	-92.2 mV	26.98 ft	150.00 ml/min
2/4/2025 11:50 AM	40:00	6.88 pH	18.64 °C	759.86 µS/cm	0.10 mg/L	1.21 NTU	-92.8 mV	26.98 ft	150.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-07	Grab.

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 2/4/2025 11:19:36 AM
Project: GP-Plant Hammond
Operator Name: Tristan Halterman

Location Name: PT-08 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 31.93 ft** **Total Depth: 41.93 ft** **Initial Depth to Water: 26.75 ft**	**Pump Type: Bladder** **Tubing Type: Polyethylene** **Pump Intake From TOC: 36.93 ft** **Estimated Total Volume Pumped: 29 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.05 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965586**

Test Notes:
Six Bottles: Appendix III & IV + Major Ions; Fe^{2+} = 1.0 mg/L, Fe_T = 1.0 mg/L.

Weather Conditions:
Cloudy, 60 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
2/4/2025 11:19 AM	00:00	6.50 pH	20.25 °C	642.14 µS/cm	0.30 mg/L	++++	65.4 mV	26.82 ft	200.00 ml/min
2/4/2025 11:24 AM	05:00	6.36 pH	19.05 °C	656.79 µS/cm	0.17 mg/L	++++	69.6 mV	26.82 ft	200.00 ml/min
2/4/2025 11:29 AM	10:00	6.33 pH	18.84 °C	664.19 µS/cm	0.13 mg/L	++++	66.1 mV	26.85 ft	200.00 ml/min
2/4/2025 11:34 AM	15:00	6.33 pH	18.76 °C	668.38 µS/cm	0.11 mg/L	97.80 NTU	67.0 mV	26.85 ft	200.00 ml/min
2/4/2025 11:39 AM	20:00	6.34 pH	18.81 °C	672.66 µS/cm	0.09 mg/L	65.30 NTU	67.4 mV	26.85 ft	200.00 ml/min
2/4/2025 11:44 AM	25:00	6.34 pH	18.74 °C	672.78 µS/cm	0.07 mg/L	51.10 NTU	73.5 mV	26.83 ft	200.00 ml/min
2/4/2025 11:49 AM	30:00	6.34 pH	18.74 °C	674.58 µS/cm	0.06 mg/L	39.00 NTU	68.5 mV	26.85 ft	200.00 ml/min
2/4/2025 11:54 AM	35:00	6.34 pH	18.77 °C	672.67 µS/cm	0.05 mg/L	32.30 NTU	68.7 mV	26.85 ft	200.00 ml/min
2/4/2025 11:59 AM	40:00	6.34 pH	18.76 °C	672.27 µS/cm	0.05 mg/L	28.40 NTU	68.8 mV	26.85 ft	200.00 ml/min
2/4/2025 12:04 PM	45:00	6.33 pH	19.05 °C	671.13 µS/cm	0.05 mg/L	23.70 NTU	69.1 mV	26.85 ft	200.00 ml/min
2/4/2025 12:09 PM	50:00	6.34 pH	19.23 °C	668.43 µS/cm	0.04 mg/L	23.00 NTU	68.4 mV	26.85 ft	200.00 ml/min
2/4/2025 12:14 PM	55:00	6.33 pH	19.28 °C	665.49 µS/cm	0.04 mg/L	21.20 NTU	69.2 mV	26.80 ft	200.00 ml/min
2/4/2025 12:19 PM	01:00:00	6.33 pH	19.27 °C	664.43 µS/cm	0.04 mg/L	16.80 NTU	74.0 mV	26.80 ft	200.00 ml/min

2/4/2025 12:24 PM	01:05:00	6.33 pH	19.29 °C	665.57 µS/cm	0.03 mg/L	15.10 NTU	68.3 mV	26.80 ft	200.00 ml/min
2/4/2025 12:29 AM	01:10:00	6.33 pH	19.32 °C	664.25 µS/cm	0.03 mg/L	14.10 NTU	68.1 mV	26.80 ft	200.00 ml/min
2/4/2025 12:34 PM	01:15:00	6.33 pH	19.32 °C	664.14 µS/cm	0.03 mg/L	14.30 NTU	73.4 mV	26.80 ft	200.00 ml/min
2/4/2025 12:39 PM	01:20:00	6.33 pH	19.32 °C	667.44 µS/cm	0.03 mg/L	12.50 NTU	67.4 mV	26.80 ft	200.00 ml/min
2/4/2025 12:44 PM	01:25:00	6.34 pH	19.32 °C	669.53 µS/cm	0.03 mg/L	9.52 NTU	67.1 mV	26.80 ft	200.00 ml/min
2/4/2025 12:49 PM	01:30:00	6.33 pH	19.29 °C	671.03 µS/cm	0.03 mg/L	9.08 NTU	72.3 mV	26.80 ft	200.00 ml/min
2/4/2025 12:54 PM	01:35:00	6.34 pH	19.32 °C	669.72 µS/cm	0.02 mg/L	7.73 NTU	65.9 mV	26.80 ft	200.00 ml/min
2/4/2025 12:59 PM	01:40:00	6.34 pH	19.28 °C	671.13 µS/cm	0.03 mg/L	8.02 NTU	71.1 mV	26.80 ft	200.00 ml/min
2/4/2025 1:04 PM	01:45:00	6.35 pH	19.30 °C	671.50 µS/cm	0.02 mg/L	7.49 NTU	65.0 mV	26.80 ft	200.00 ml/min
2/4/2025 1:09 PM	01:50:00	6.34 pH	19.32 °C	672.31 µS/cm	0.03 mg/L	6.82 NTU	64.5 mV	26.80 ft	200.00 ml/min
2/4/2025 1:14 PM	01:55:00	6.35 pH	19.33 °C	671.76 µS/cm	0.02 mg/L	6.07 NTU	63.4 mV	26.80 ft	200.00 ml/min
2/4/2025 1:19 PM	02:00:00	6.35 pH	19.31 °C	672.26 µS/cm	0.02 mg/L	6.37 NTU	68.5 mV	26.80 ft	200.00 ml/min
2/4/2025 1:24 PM	02:05:00	6.36 pH	19.31 °C	675.61 µS/cm	0.02 mg/L	5.43 NTU	62.8 mV	26.80 ft	200.00 ml/min
2/4/2025 1:29 PM	02:10:00	6.36 pH	19.25 °C	677.38 µS/cm	0.02 mg/L	5.17 NTU	62.1 mV	26.80 ft	200.00 ml/min
2/4/2025 1:34 PM	02:15:00	6.36 pH	19.17 °C	674.81 µS/cm	0.02 mg/L	4.76 NTU	61.5 mV	26.80 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-08	Grab.

Low-Flow Test Report:

Test Date / Time: 2/5/2024 10:41:48 AM
Project: GP-Plant Hammond
Operator Name: Tristan Halterman

Location Name: PT-09 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 20.47 ft** **Total Depth: 30.47 ft** **Initial Depth to Water: 16.89 ft**	**Pump Type: Peristaltic** **Tubing Type: Polyethylene** **Pump Intake From TOC: 25.47 ft** **Estimated Total Volume Pumped: 9 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.01 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965586**

Test Notes:
Six Bottles: Appendix III & IV + Major Ions; Fe^{2+} = 0 mg/L, Fe_T = 0 mg/L.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
2/5/2025 10:41 AM	00:00	6.87 pH	19.23 °C	698.30 µS/cm	1.00 mg/L	4.35 NTU	81.3 mV	16.90 ft	200.00 ml/min
2/5/2025 10:46 AM	05:00	6.70 pH	18.22 °C	715.08 µS/cm	0.24 mg/L	4.40 NTU	91.2 mV	16.90 ft	200.00 ml/min
2/5/2025 10:51 AM	10:00	6.67 pH	18.19 °C	705.74 µS/cm	0.17 mg/L	5.10 NTU	80.1 mV	16.90 ft	200.00 ml/min
2/5/2025 10:56 AM	15:00	6.67 pH	18.34 °C	706.23 µS/cm	0.15 mg/L	7.63 NTU	79.8 mV	16.90 ft	200.00 ml/min
2/5/2025 11:01 AM	20:00	6.67 pH	18.34 °C	694.51 µS/cm	0.13 mg/L	7.02 NTU	80.1 mV	16.90 ft	200.00 ml/min
2/5/2025 11:06 AM	25:00	6.69 pH	18.34 °C	695.80 µS/cm	0.12 mg/L	6.14 NTU	79.7 mV	16.90 ft	200.00 ml/min
2/5/2025 11:11 AM	30:00	6.68 pH	18.45 °C	689.31 µS/cm	0.11 mg/L	5.48 NTU	79.9 mV	16.90 ft	200.00 ml/min
2/5/2025 11:16 AM	35:00	6.68 pH	18.52 °C	693.51 µS/cm	0.10 mg/L	4.62 NTU	79.8 mV	16.90 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-09	Grab.

Low-Flow Test Report:

Test Date / Time: 2/5/2025 9:25:19 AM
Project: GP-Plant Hammond
Operator Name: Zain Webb

Location Name: PT-10 **Well Diameter: 2 ft** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 20.45 ft** **Total Depth: 30.45 ft** **Initial Depth to Water: 16.97 ft**	**Pump Type: Peristaltic** **Tubing Type: Polyethylene** **Pump Intake From TOC: 25.45 ft** **Estimated Total Volume Pumped: 7 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.03 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 952637**

Test Notes:
Six Bottles: Appendix III & IV + Major Ions; Fe^{2+} = 0 mg/L, Fe_T = 1 mg/L.

Weather Conditions:
Overcast, 55 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
2/5/2025 9:25 AM	00:00	6.75 pH	17.58 °C	662.83 µS/cm	0.53 mg/L	6.78 NTU	135.1 mV	16.97 ft	200.00 ml/min
2/5/2025 9:30 AM	05:00	6.60 pH	17.74 °C	595.54 µS/cm	0.41 mg/L	4.21 NTU	115.1 mV	16.99 ft	200.00 ml/min
2/5/2025 9:35 AM	10:00	6.59 pH	17.85 °C	594.95 µS/cm	0.34 mg/L	2.57 NTU	71.1 mV	17.00 ft	200.00 ml/min
2/5/2025 9:40 AM	15:00	6.59 pH	17.81 °C	596.59 µS/cm	0.28 mg/L	2.16 NTU	59.7 mV	17.00 ft	200.00 ml/min
2/5/2025 9:45 AM	20:00	6.60 pH	17.85 °C	606.31 µS/cm	0.24 mg/L	1.73 NTU	69.0 mV	17.00 ft	200.00 ml/min
2/5/2025 9:50 AM	25:00	6.63 pH	17.91 °C	615.34 µS/cm	0.27 mg/L	1.92 NTU	27.3 mV	17.00 ft	200.00 ml/min
2/5/2025 9:55 AM	30:00	6.66 pH	17.90 °C	623.67 µS/cm	0.24 mg/L	1.49 NTU	13.2 mV	17.00 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-10	Grab.

Low-Flow Test Report:

Test Date / Time: 2/5/2024 9:11:08 AM
Project: GP-Plant Hammond
Operator Name: Tristan Halterman

Location Name: PT-11 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 16.90 ft** **Total Depth: 26.90 ft** **Initial Depth to Water: 13.46 ft**	**Pump Type: Peristaltic** **Tubing Type: Polyethylene** **Pump Intake From TOC: 21.90 ft** **Estimated Total Volume Pumped: 11 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.03 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965586**

Test Notes:
Six Bottles: Appendix III & IV + Major Ions; Fe^{2+} = 0.5 mg/L, Fe_T = 0.5 mg/L.

Weather Conditions:
Cloudy, 60 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
2/5/2025 9:11 AM	00:00	6.11 pH	17.38 °C	584.55 µS/cm	0.52 mg/L	6.15 NTU	75.7 mV	13.49 ft	200.00 ml/min
2/5/2025 9:16 AM	05:00	6.35 pH	17.59 °C	637.86 µS/cm	0.24 mg/L	3.51 NTU	87.3 mV	13.49 ft	200.00 ml/min
2/5/2025 9:21 AM	10:00	6.46 pH	17.67 °C	630.28 µS/cm	0.17 mg/L	2.14 NTU	80.3 mV	13.49 ft	200.00 ml/min
2/5/2025 9:26 AM	15:00	6.52 pH	17.72 °C	631.26 µS/cm	0.17 mg/L	2.03 NTU	80.4 mV	13.49 ft	200.00 ml/min
2/5/2025 9:31 AM	20:00	6.56 pH	17.67 °C	635.76 µS/cm	0.14 mg/L	1.69 NTU	80.6 mV	13.49 ft	200.00 ml/min
2/5/2025 9:36 AM	25:00	6.59 pH	17.79 °C	639.16 µS/cm	0.13 mg/L	1.41 NTU	90.6 mV	13.49 ft	200.00 ml/min
2/5/2025 9:41 AM	30:00	6.61 pH	17.85 °C	629.34 µS/cm	1.97 mg/L	1.39 NTU	80.9 mV	13.49 ft	200.00 ml/min
2/5/2025 9:46 AM	35:00	6.63 pH	17.87 °C	638.53 µS/cm	0.11 mg/L	1.50 NTU	80.6 mV	13.49 ft	200.00 ml/min
2/5/2025 9:51 AM	40:00	6.64 pH	17.84 °C	629.22 µS/cm	0.10 mg/L	1.51 NTU	80.8 mV	13.49 ft	200.00 ml/min
2/5/2025 9:56 AM	45:00	6.65 pH	17.91 °C	630.82 µS/cm	0.10 mg/L	2.26 NTU	80.6 mV	13.49 ft	200.00 ml/min

Samples

Sample ID:	Description:

HAM-PT-11	Grab.

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 2/5/2025 10:56:01 AM
Project: GP-Plant Hammond
Operator Name: Zain Webb

Location Name: PT-12 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 17.30 ft** **Total Depth: 27.30 ft** **Initial Depth to Water: 13.41 ft**	**Pump Type: Peristaltic** **Tubing Type: Polyethylene** **Pump Intake From TOC: 22.30 ft** **Estimated Total Volume Pumped: 9 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.02 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 952637**

Test Notes:
Six Bottles: Appendix III & IV + Major Ions; Fe^{2+} = 0 mg/L, Fe_T = 4.0 mg/L.

Weather Conditions:
Overcast, 60 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
2/5/2025 10:56 AM	00:00	6.51 pH	18.79 °C	662.24 µS/cm	0.94 mg/L	12.90 NTU	73.6 mV	13.41 ft	200.00 ml/min
2/5/2025 11:01 AM	05:00	6.46 pH	18.57 °C	671.60 µS/cm	0.35 mg/L	7.47 NTU	64.4 mV	13.43 ft	200.00 ml/min
2/5/2025 11:06 AM	10:00	6.49 pH	18.52 °C	673.58 µS/cm	1.38 mg/L	5.21 NTU	84.2 mV	13.43 ft	200.00 ml/min
2/5/2025 11:11 AM	15:00	6.50 pH	18.66 °C	667.42 µS/cm	2.59 mg/L	5.28 NTU	61.4 mV	13.43 ft	200.00 ml/min
2/5/2025 11:16 AM	20:00	6.50 pH	18.71 °C	666.26 µS/cm	0.14 mg/L	5.03 NTU	60.7 mV	13.43 ft	200.00 ml/min
2/5/2025 11:21 AM	25:00	6.51 pH	18.90 °C	665.36 µS/cm	0.10 mg/L	4.68 NTU	58.3 mV	13.43 ft	200.00 ml/min
2/5/2025 11:26 AM	30:00	6.52 pH	18.96 °C	659.36 µS/cm	0.09 mg/L	4.47 NTU	57.7 mV	13.43 ft	200.00 ml/min
2/5/2025 11:31 AM	35:00	6.49 pH	18.92 °C	655.28 µS/cm	0.09 mg/L	4.32 NTU	58.0 mV	13.43 ft	200.00 ml/min
2/5/2025 11:36 AM	40:00	6.53 pH	18.97 °C	651.97 µS/cm	0.09 mg/L	3.89 NTU	55.9 mV	13.43 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-12	Grab.

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 2/4/2025 9:10:15 AM
Project: GP-Plant Hammond
Operator Name: Zain Webb

Location Name: PT-13 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 35.30 ft** **Total Depth: 45.30 ft** **Initial Depth to Water: 26.45 ft**	**Pump Type: Bladder** **Tubing Type: Polyethylene** **Pump Intake From TOC: 40.30 ft** **Estimated Total Volume Pumped: 8.25 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 150 ml/min** **Final Draw Down: 0.06 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 952637**

Test Notes:
Six Bottles: Appendix III & IV + Major Ions; Fe^{2+} = 4.0 mg/L, Fe_T = 5.5 mg/L.

Weather Conditions:
Cloudy, 55 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
2/4/2025 9:10 AM	00:00	6.94 pH	17.81 °C	753.64 µS/cm	0.51 mg/L	49.90 NTU	-83.2 mV	26.45 ft	150.00 ml/min
2/4/2025 9:15 AM	05:00	6.82 pH	18.08 °C	748.97 µS/cm	0.32 mg/L	49.20 NTU	-99.6 mV	26.49 ft	150.00 ml/min
2/4/2025 9:20 AM	10:00	6.81 pH	18.17 °C	751.38 µS/cm	0.25 mg/L	35.80 NTU	-85.3 mV	26.50 ft	150.00 ml/min
2/4/2025 9:25 AM	15:00	6.83 pH	18.17 °C	753.63 µS/cm	0.21 mg/L	33.60 NTU	-87.7 mV	26.51 ft	150.00 ml/min
2/4/2025 9:30 AM	20:00	6.82 pH	18.23 °C	753.64 µS/cm	0.18 mg/L	19.50 NTU	-87.2 mV	26.51 ft	150.00 ml/min
2/4/2025 9:35 AM	25:00	6.82 pH	18.26 °C	753.72 µS/cm	0.16 mg/L	14.90 NTU	-86.9 mV	26.51 ft	150.00 ml/min
2/4/2025 9:40 AM	30:00	6.82 pH	18.26 °C	754.13 µS/cm	0.15 mg/L	13.10 NTU	-86.2 mV	26.51 ft	150.00 ml/min
2/4/2025 9:45 AM	35:00	6.82 pH	18.27 °C	754.67 µS/cm	0.13 mg/L	8.77 NTU	-86.6 mV	26.51 ft	150.00 ml/min
2/4/2025 9:50 AM	40:00	6.83 pH	18.30 °C	754.54 µS/cm	0.13 mg/L	5.98 NTU	-86.2 mV	26.51 ft	150.00 ml/min
2/4/2025 9:55 AM	45:00	6.83 pH	18.26 °C	753.52 µS/cm	0.15 mg/L	5.01 NTU	-85.3 mV	26.51 ft	150.00 ml/min
2/4/2025 10:00 AM	50:00	6.82 pH	18.27 °C	753.40 µS/cm	0.13 mg/L	4.90 NTU	-84.8 mV	26.51 ft	150.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-13	Grab.

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 2/4/2025 9:03:48 AM
Project: GP-Plant Hammond
Operator Name: Tristan Halterman

Location Name: PT-14 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 35.30 ft** **Total Depth: 45.30 ft** **Initial Depth to Water: 26.45 ft**	**Pump Type: Bladder** **Tubing Type: Polyethylene** **Pump Intake From TOC: 40.30 ft** **Estimated Total Volume Pumped: 14 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.10 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 965586**

Test Notes:
Six Bottles: Appendix III & IV + Major Ions; Fe^{2+} = 5.5 mg/L, Fe_T = 6.5 mg/L.

Weather Conditions:
Sunny, 55 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
2/4/2025 9:03 AM	00:00	6.34 pH	18.34 °C	789.39 µS/cm	0.35 mg/L	86.50 NTU	-42.0 mV	26.60 ft	200.00 ml/min
2/4/2025 9:08 AM	05:00	6.54 pH	18.28 °C	787.99 µS/cm	0.25 mg/L	60.70 NTU	-55.9 mV	26.60 ft	200.00 ml/min
2/4/2025 9:13 AM	10:00	6.63 pH	18.34 °C	789.13 µS/cm	0.21 mg/L	48.20 NTU	-57.6 mV	26.58 ft	200.00 ml/min
2/4/2025 9:18 AM	15:00	6.69 pH	18.34 °C	790.00 µS/cm	0.15 mg/L	34.00 NTU	-61.3 mV	26.58 ft	200.00 ml/min
2/4/2025 9:23 AM	20:00	6.72 pH	18.30 °C	789.74 µS/cm	0.14 mg/L	26.00 NTU	-64.0 mV	26.58 ft	200.00 ml/min
2/4/2025 9:28 AM	25:00	6.74 pH	18.30 °C	789.24 µS/cm	0.12 mg/L	21.20 NTU	-66.1 mV	26.55 ft	200.00 ml/min
2/4/2025 9:33 AM	30:00	6.75 pH	18.33 °C	789.84 µS/cm	0.10 mg/L	15.90 NTU	-67.5 mV	26.55 ft	200.00 ml/min
2/4/2025 9:38 AM	35:00	6.77 pH	18.26 °C	790.02 µS/cm	0.09 mg/L	12.00 NTU	-68.6 mV	26.55 ft	200.00 ml/min
2/4/2025 9:43 AM	40:00	6.78 pH	18.23 °C	790.13 µS/cm	0.08 mg/L	11.10 NTU	-69.5 mV	26.55 ft	200.00 ml/min
2/4/2025 9:48 AM	45:00	6.79 pH	18.25 °C	790.01 µS/cm	0.08 mg/L	7.13 NTU	-70.8 mV	26.55 ft	200.00 ml/min
2/4/2025 9:53 AM	50:00	6.80 pH	18.24 °C	790.11 µS/cm	0.06 mg/L	6.41 NTU	-70.9 mV	26.55 ft	200.00 ml/min
2/4/2025 9:58 AM	55:00	6.81 pH	18.22 °C	790.36 µS/cm	0.07 mg/L	5.53 NTU	-71.6 mV	26.55 ft	200.00 ml/min
2/4/2025 10:03 AM	01:00:00	6.81 pH	18.25 °C	790.08 µS/cm	0.06 mg/L	3.72 NTU	-71.6 mV	26.55 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-14	Grab.
HAM-AP1-FD-01	Grab.

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 2/4/2025 2:15:19 PM
Project: GP-Plant Hammond
Operator Name: Zain Webb

Location Name: PT-15 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 35.30 ft** **Total Depth: 45.30 ft** **Initial Depth to Water: 26.33 ft**	**Pump Type: Bladder** **Tubing Type: Polyethylene** **Pump Intake From TOC: 40.30 ft** **Estimated Total Volume Pumped: 6 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 150 ml/min** **Final Draw Down: 0.04 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 952637**

Test Notes:
Six Bottles: Appendix III & IV + Major Ions; Fe^{2+} = 2.5 mg/L, Fe_T = 5.5 mg/L.

Weather Conditions:
Sunny, 70 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
2/4/2025 2:15 PM	00:00	6.94 pH	21.49 °C	710.72 µS/cm	0.65 mg/L	31.40 NTU	-47.6 mV	26.33 ft	150.00 ml/min
2/4/2025 2:20 PM	05:00	6.85 pH	19.98 °C	746.54 µS/cm	0.30 mg/L	25.90 NTU	-46.8 mV	26.34 ft	150.00 ml/min
2/4/2025 2:25 PM	10:00	6.83 pH	19.78 °C	748.76 µS/cm	0.21 mg/L	23.70 NTU	-46.8 mV	26.35 ft	150.00 ml/min
2/4/2025 2:30 PM	15:00	6.82 pH	19.73 °C	749.28 µS/cm	0.17 mg/L	17.00 NTU	-48.0 mV	26.37 ft	150.00 ml/min
2/4/2025 2:35 PM	20:00	6.81 pH	19.68 °C	748.47 µS/cm	0.15 mg/L	9.13 NTU	-48.1 mV	26.37 ft	150.00 ml/min
2/4/2025 2:40 PM	25:00	6.81 pH	19.67 °C	747.76 µS/cm	0.13 mg/L	7.42 NTU	-47.3 mV	26.37 ft	150.00 ml/min
2/4/2025 2:45 PM	30:00	6.80 pH	19.68 °C	746.58 µS/cm	0.11 mg/L	6.26 NTU	-47.3 mV	26.37 ft	150.00 ml/min
2/4/2025 2:50 PM	35:00	6.79 pH	19.68 °C	748.89 µS/cm	0.11 mg/L	2.75 NTU	-47.4 mV	26.37 ft	150.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-15	Grab.

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 3/6/2025 10:19:23 AM
Project: GP-Plant Hammond
Operator Name: Z. Webb

Location Name: INW-03 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 17.40 ft** **Total Depth: 27.40 ft** **Initial Depth to Water: 13.59 ft**	**Pump Type: Peristaltic** **Tubing Type: Polyethylene** **Pump Intake From TOC: 22.40 ft** **Estimated Total Volume Pumped: 3 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1167968**

Test Notes:
Parameters; Fe^{2+} = 0 mg/L, Fe_T = 1.0 mg/L.

Weather Conditions:
Clear, 55 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
3/6/2025 10:19 AM	00:00	6.98 pH	17.08 °C	823.63 µS/cm	0.64 mg/L	5.59 NTU	-9.6 mV	13.59 ft	200.00 ml/min
3/6/2025 10:24 AM	05:00	6.96 pH	17.02 °C	814.57 µS/cm	0.42 mg/L	5.21 NTU	-3.6 mV	13.59 ft	200.00 ml/min
3/6/2025 10:29 AM	10:00	7.02 pH	17.09 °C	824.82 µS/cm	0.39 mg/L	5.44 NTU	-5.5 mV	13.59 ft	200.00 ml/min
3/6/2025 10:34 AM	15:00	7.01 pH	17.27 °C	816.91 µS/cm	0.56 mg/L	5.50 NTU	-3.6 mV	13.59 ft	200.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 3/5/2025 1:42:26 PM
Project: GP-Plant Hammond
Operator Name: Z. Webb

Location Name: INW-04 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 35.30 ft** **Total Depth: 45.30 ft** **Initial Depth to Water: 26.10 ft**	**Pump Type: Bladder** **Tubing Type: Polyethylene** **Pump Intake From TOC: 40.30 ft** **Estimated Total Volume Pumped: 3 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.12 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1167968**

Test Notes:
Parameters; Fe^{2+} = 3.0 mg/L, Fe_T = 5.5 mg/L.

Weather Conditions:
Cloudy, 50 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
3/5/2025 1:42 PM	00:00	6.43 pH	17.14 °C	589.26 µS/cm	1.57 mg/L	++++	21.6 mV	26.10 ft	200.00 ml/min
3/5/2025 1:47 PM	05:00	6.56 pH	17.79 °C	562.05 µS/cm	2.98 mg/L	++++	21.1 mV	26.19 ft	200.00 ml/min
3/5/2025 1:52 PM	10:00	6.61 pH	17.77 °C	580.40 µS/cm	3.29 mg/L	++++	13.2 mV	26.22 ft	200.00 ml/min
3/5/2025 1:57 PM	15:00	6.63 pH	17.63 °C	569.95 µS/cm	3.29 mg/L	++++	6.2 mV	26.22 ft	200.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 3/5/2025 4:03:02 PM
Project: GP-Plant Hammond
Operator Name: T. Kessler

Location Name: INW-05 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 35.30 ft** **Total Depth: 45.30 ft** **Initial Depth to Water: 25.75 ft**	**Pump Type: Bladder** **Tubing Type: Polyethylene** **Pump Intake From TOC: 40.30 ft** **Estimated Total Volume Pumped: 4 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.05 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1146036**

Test Notes:
Parameters; Fe^{2+} = 3.0 mg/L, Fe_T = 3.0 mg/L.

Weather Conditions:
Cloudy, 55 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
3/5/2025 4:03 PM	00:00	6.97 pH	16.56 °C	744.67 µS/cm	0.36 mg/L	365.00 NTU	-18.8 mV	25.80 ft	200.00 ml/min
3/5/2025 4:08 PM	05:00	6.96 pH	16.82 °C	741.68 µS/cm	0.27 mg/L	347.00 NTU	4.7 mV	25.80 ft	200.00 ml/min
3/5/2025 4:13 PM	10:00	6.98 pH	16.79 °C	748.15 µS/cm	0.24 mg/L	315.00 NTU	-28.5 mV	25.80 ft	200.00 ml/min
3/5/2025 4:18 PM	15:00	7.00 pH	16.65 °C	755.09 µS/cm	0.21 mg/L	74.50 NTU	-45.7 mV	25.80 ft	200.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 3/5/2025 2:57:21 PM
Project: GP-Plant Hammond
Operator Name: T. Kessler

Location Name: PT-07 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 37.75 ft** **Total Depth: 47.75 ft** **Initial Depth to Water: 26.60 ft**	**Pump Type: Bladder** **Tubing Type: Poly** **Pump Intake From TOC: 42.75 ft** **Estimated Total Volume Pumped: 7 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1146036**

Test Notes:
Six Bottles: Appendix III & IV + Major Ions; Fe^{2+} = 3.4 mg/L, Fe_T = 5.0 mg/L.

Weather Conditions:
Rainy, 55 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
3/5/2025 2:57 PM	00:00	6.94 pH	16.31 °C	739.62 µS/cm	3.85 mg/L	1.97 NTU	118.3 mV	26.60 ft	200.00 ml/min
3/5/2025 3:02 PM	05:00	6.93 pH	17.08 °C	747.93 µS/cm	1.22 mg/L	1.07 NTU	278.9 mV	26.60 ft	200.00 ml/min
3/5/2025 3:07 PM	10:00	6.93 pH	17.33 °C	748.67 µS/cm	0.99 mg/L	1.21 NTU	201.1 mV	26.60 ft	200.00 ml/min
3/5/2025 3:12 PM	15:00	6.93 pH	17.41 °C	747.60 µS/cm	0.88 mg/L	0.81 NTU	134.5 mV	26.60 ft	200.00 ml/min
3/5/2025 3:17 PM	20:00	6.94 pH	17.44 °C	746.94 µS/cm	0.81 mg/L	0.72 NTU	104.0 mV	26.60 ft	200.00 ml/min
3/5/2025 3:22 PM	25:00	6.94 pH	17.40 °C	747.01 µS/cm	0.74 mg/L	0.53 NTU	85.4 mV	26.60 ft	200.00 ml/min
3/5/2025 3:27 PM	30:00	6.94 pH	17.38 °C	747.64 µS/cm	0.70 mg/L	0.40 NTU	70.4 mV	26.60 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-07	Grab.

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 3/5/2025 2:49:54 PM
Project: GP-Plant Hammond
Operator Name: Z. Webb

Location Name: PT-08 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 31.93 ft** **Total Depth: 41.93 ft** **Initial Depth to Water: 26.27 ft**	**Pump Type: Bladder** **Tubing Type: Polyethylene** **Pump Intake From TOC: 36.93 ft** **Estimated Total Volume Pumped: 11 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.04 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1167968**

Test Notes:
Six Bottles: Appendix III & IV + Major Ions; Fe^{2+} = 0.5 mg/L, Fe_T = 0.5 mg/L.

Weather Conditions:
Cloudy, 50 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
3/5/2025 2:49 PM	00:00	6.42 pH	17.41 °C	685.82 µS/cm	0.56 mg/L	++++	71.0 mV	26.27 ft	200.00 ml/min
3/5/2025 2:54 PM	05:00	6.45 pH	17.56 °C	696.23 µS/cm	0.41 mg/L	49.20 NTU	74.0 mV	26.31 ft	200.00 ml/min
3/5/2025 2:59 PM	10:00	6.47 pH	17.48 °C	699.53 µS/cm	0.40 mg/L	33.80 NTU	60.6 mV	26.31 ft	200.00 ml/min
3/5/2025 3:04 PM	15:00	6.49 pH	17.60 °C	701.34 µS/cm	0.37 mg/L	24.50 NTU	57.2 mV	26.31 ft	200.00 ml/min
3/5/2025 3:09 PM	20:00	6.50 pH	17.63 °C	701.83 µS/cm	0.41 mg/L	19.30 NTU	56.9 mV	26.31 ft	200.00 ml/min
3/5/2025 3:14 PM	25:00	6.50 pH	17.64 °C	701.90 µS/cm	0.34 mg/L	14.60 NTU	56.7 mV	26.31 ft	200.00 ml/min
3/5/2025 3:19 PM	30:00	6.52 pH	17.63 °C	703.49 µS/cm	0.31 mg/L	10.10 NTU	53.8 mV	26.31 ft	200.00 ml/min
3/5/2025 3:24 PM	35:00	6.51 pH	17.71 °C	697.08 µS/cm	0.23 mg/L	8.27 NTU	55.4 mV	26.31 ft	200.00 ml/min
3/5/2025 3:29 PM	40:00	6.51 pH	17.64 °C	687.82 µS/cm	0.18 mg/L	6.94 NTU	54.8 mV	26.31 ft	200.00 ml/min
3/5/2025 3:34 PM	45:00	6.52 pH	17.65 °C	701.16 µS/cm	0.15 mg/L	5.18 NTU	53.8 mV	26.31 ft	200.00 ml/min
3/5/2025 3:39 PM	50:00	6.53 pH	17.66 °C	698.87 µS/cm	0.20 mg/L	4.05 NTU	52.9 mV	26.31 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-08	Grab.

Low-Flow Test Report:

Test Date / Time: 3/6/2025 8:44:14 AM
Project: GP-Plant Hammond
Operator Name: T. Kessler

Location Name: PT-09 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 20.47 ft** **Total Depth: 30.47 ft** **Initial Depth to Water: 16.85 ft**	**Pump Type: Peristaltic** **Tubing Type: Polyethylene** **Pump Intake From TOC: 25.47 ft** **Estimated Total Volume Pumped: 13 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.03 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1146036**

Test Notes:
Six Bottles: Appendix III & IV + Major Ions; Fe^{2+} = 0.75 mg/L, Fe_T = 0.75 mg/L.

Weather Conditions:
Sunny, 38 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
3/6/2025 8:44 AM	00:00	6.77 pH	15.39 °C	754.52 µS/cm	0.41 mg/L	133.00 NTU	113.7 mV	16.88 ft	200.00 ml/min
3/6/2025 8:49 AM	05:00	6.76 pH	15.65 °C	746.74 µS/cm	0.21 mg/L	19.00 NTU	415.0 mV	16.88 ft	200.00 ml/min
3/6/2025 8:54 AM	10:00	6.76 pH	15.63 °C	738.83 µS/cm	0.17 mg/L	11.30 NTU	396.7 mV	16.88 ft	200.00 ml/min
3/6/2025 8:59 AM	15:00	6.78 pH	15.92 °C	739.77 µS/cm	0.15 mg/L	11.60 NTU	407.7 mV	16.88 ft	200.00 ml/min
3/6/2025 9:04 AM	20:00	6.75 pH	16.21 °C	735.54 µS/cm	0.13 mg/L	10.10 NTU	416.4 mV	16.88 ft	200.00 ml/min
3/6/2025 9:09 AM	25:00	6.79 pH	16.44 °C	736.14 µS/cm	0.12 mg/L	12.10 NTU	426.8 mV	16.88 ft	200.00 ml/min
3/6/2025 9:14 AM	30:00	6.78 pH	16.08 °C	741.98 µS/cm	0.12 mg/L	10.80 NTU	495.8 mV	16.88 ft	200.00 ml/min
3/6/2025 9:19 AM	35:00	6.79 pH	15.81 °C	734.50 µS/cm	0.12 mg/L	9.38 NTU	442.4 mV	16.88 ft	200.00 ml/min
3/6/2025 9:24 AM	40:00	6.80 pH	15.29 °C	734.83 µS/cm	0.11 mg/L	9.52 NTU	446.0 mV	16.88 ft	200.00 ml/min
3/6/2025 9:29 AM	45:00	6.80 pH	15.59 °C	735.99 µS/cm	0.12 mg/L	12.40 NTU	436.6 mV	16.88 ft	200.00 ml/min
3/6/2025 9:34 AM	50:00	6.79 pH	16.07 °C	736.97 µS/cm	0.11 mg/L	7.93 NTU	427.1 mV	16.88 ft	200.00 ml/min
3/6/2025 9:39 AM	55:00	6.80 pH	16.44 °C	736.67 µS/cm	0.11 mg/L	6.73 NTU	414.2 mV	16.88 ft	200.00 ml/min
3/6/2025 9:44 AM	01:00:00	6.81 pH	16.48 °C	733.89 µS/cm	0.10 mg/L	4.73 NTU	407.0 mV	16.88 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-09	Grab.

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 3/6/2025 8:41:25 AM
Project: GP-Plant Hammond
Operator Name: Z. Webb

Location Name: PT-10 **Well Diameter: 2 ft** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 20.45 ft** **Total Depth: 30.45 ft** **Initial Depth to Water: 6.94 ft**	**Pump Type: Peristaltic** **Tubing Type: Polyethylene** **Pump Intake From TOC: 25.45 ft** **Estimated Total Volume Pumped: 9 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.02 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1167968**

Test Notes:
Six Bottles: Appendix III & IV + Major Ions; Fe^{2+} = 0 mg/L, Fe_T = 0 mg/L.

Weather Conditions:
Cloudy, 50 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
3/6/2025 8:41 AM	00:00	6.50 pH	15.37 °C	592.01 µS/cm	0.45 mg/L	6.92 NTU	84.2 mV	6.94 ft	200.00 ml/min
3/6/2025 8:46 AM	05:00	6.51 pH	15.16 °C	591.56 µS/cm	0.33 mg/L	3.24 NTU	107.1 mV	6.96 ft	200.00 ml/min
3/6/2025 8:51 AM	10:00	6.52 pH	15.25 °C	590.95 µS/cm	0.44 mg/L	2.94 NTU	73.7 mV	6.96 ft	200.00 ml/min
3/6/2025 8:56 AM	15:00	6.64 pH	15.37 °C	661.94 µS/cm	0.45 mg/L	2.85 NTU	14.5 mV	6.96 ft	200.00 ml/min
3/6/2025 9:01 AM	20:00	6.69 pH	15.69 °C	684.23 µS/cm	0.35 mg/L	2.41 NTU	2.9 mV	6.96 ft	200.00 ml/min
3/6/2025 9:06 AM	25:00	6.69 pH	15.83 °C	681.77 µS/cm	0.44 mg/L	2.08 NTU	2.0 mV	6.96 ft	200.00 ml/min
3/6/2025 9:11 AM	30:00	6.72 pH	15.80 °C	684.66 µS/cm	0.46 mg/L	1.92 NTU	-0.9 mV	6.96 ft	200.00 ml/min
3/6/2025 9:16 AM	35:00	6.74 pH	15.90 °C	691.04 µS/cm	0.42 mg/L	1.69 NTU	-4.9 mV	6.96 ft	200.00 ml/min
3/6/2025 9:21 AM	40:00	6.71 pH	15.74 °C	672.95 µS/cm	0.43 mg/L	0.78 NTU	1.5 mV	6.96 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-10	Grab.

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 3/6/2025 10:33:28 AM
Project: GP-Plant Hammond
Operator Name: T. Kessler

Location Name: PT-11 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 16.90 ft** **Total Depth: 26.90 ft** **Initial Depth to Water: 13.50 ft**	**Pump Type: Peristaltic** **Tubing Type: Polyethylene** **Pump Intake From TOC: 21.90 ft** **Estimated Total Volume Pumped: 10 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1146036**

Test Notes:
Six Bottles: Appendix III & IV + Major Ions; Fe^{2+} = 0 mg/L, Fe_T = 0 mg/L.

Weather Conditions:
Clear, 40 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
3/6/2025 10:33 AM	00:00	6.81 pH	16.61 °C	640.71 µS/cm	0.24 mg/L	12.70 NTU	154.5 mV	13.50 ft	200.00 ml/min
3/6/2025 10:38 AM	05:00	6.81 pH	16.88 °C	638.53 µS/cm	0.18 mg/L	10.90 NTU	558.4 mV	13.50 ft	200.00 ml/min
3/6/2025 10:43 AM	10:00	6.84 pH	16.86 °C	640.78 µS/cm	0.15 mg/L	8.77 NTU	515.5 mV	13.50 ft	200.00 ml/min
3/6/2025 10:48 AM	15:00	6.85 pH	17.15 °C	640.20 µS/cm	0.14 mg/L	10.80 NTU	503.0 mV	13.50 ft	200.00 ml/min
3/6/2025 10:53 AM	20:00	6.85 pH	17.26 °C	633.06 µS/cm	0.13 mg/L	8.20 NTU	498.1 mV	13.50 ft	200.00 ml/min
3/6/2025 10:58 AM	25:00	6.86 pH	17.22 °C	631.38 µS/cm	0.12 mg/L	8.46 NTU	500.5 mV	13.50 ft	200.00 ml/min
3/6/2025 11:03 AM	30:00	6.86 pH	17.20 °C	637.55 µS/cm	0.11 mg/L	6.85 NTU	498.4 mV	13.50 ft	200.00 ml/min
3/6/2025 11:08 AM	35:00	6.88 pH	17.25 °C	635.61 µS/cm	0.11 mg/L	5.63 NTU	489.4 mV	13.50 ft	200.00 ml/min
3/6/2025 11:13 AM	40:00	6.86 pH	17.06 °C	640.85 µS/cm	0.12 mg/L	5.34 NTU	478.0 mV	13.50 ft	200.00 ml/min
3/6/2025 11:18 AM	45:00	6.86 pH	17.06 °C	633.63 µS/cm	0.12 mg/L	4.20 NTU	449.5 mV	13.50 ft	200.00 ml/min

Samples

Sample ID:	Description:

HAM-PT-11	Grab.

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 3/6/2025 11:53:34 AM
Project: GP-Plant Hammond
Operator Name: T. Kessler

Location Name: PT-12 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 17.30 ft** **Total Depth: 27.30 ft** **Initial Depth to Water: 13.35 ft**	**Pump Type: Peristaltic** **Tubing Type: Polyethylene** **Pump Intake From TOC: 22.30 ft** **Estimated Total Volume Pumped: 9 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1146036**

Test Notes:
Six Bottles: Appendix III & IV + Major Ions; Fe^{2+} = 0 mg/L, Fe_T = 0 mg/L.

Weather Conditions:
Sunny, 45 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
3/6/2025 11:53 AM	00:00	6.36 pH	17.33 °C	636.22 µS/cm	0.58 mg/L	48.20 NTU	212.9 mV	13.35 ft	200.00 ml/min
3/6/2025 11:58 AM	05:00	6.33 pH	17.06 °C	646.73 µS/cm	0.21 mg/L	47.50 NTU	658.8 mV	13.35 ft	200.00 ml/min
3/6/2025 12:03 PM	10:00	6.38 pH	17.33 °C	644.71 µS/cm	0.17 mg/L	44.30 NTU	573.5 mV	13.35 ft	200.00 ml/min
3/6/2025 12:08 PM	15:00	6.41 pH	17.24 °C	651.78 µS/cm	0.15 mg/L	38.90 NTU	536.7 mV	13.35 ft	200.00 ml/min
3/6/2025 12:13 PM	20:00	6.42 pH	17.28 °C	655.22 µS/cm	0.13 mg/L	16.30 NTU	500.0 mV	13.35 ft	200.00 ml/min
3/6/2025 12:18 PM	25:00	6.45 pH	17.23 °C	660.55 µS/cm	0.12 mg/L	8.14 NTU	476.8 mV	13.35 ft	200.00 ml/min
3/6/2025 12:23 PM	30:00	6.45 pH	17.25 °C	656.14 µS/cm	0.11 mg/L	6.65 NTU	459.0 mV	13.35 ft	200.00 ml/min
3/6/2025 12:28 PM	35:00	6.47 pH	17.11 °C	661.02 µS/cm	0.10 mg/L	5.05 NTU	443.1 mV	13.35 ft	200.00 ml/min
3/6/2025 12:33 PM	40:00	6.47 pH	17.28 °C	660.11 µS/cm	0.11 mg/L	4.71 NTU	431.4 mV	13.35 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-12	Grab.

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 3/5/2025 10:39:35 AM
Project: GP-Plant Hammond
Operator Name: T. Kessler

Location Name: PT-13 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 35.30 ft** **Total Depth: 45.30 ft** **Initial Depth to Water: 25.98 ft**	**Pump Type: Bladder** **Tubing Type: Polyethylene** **Pump Intake From TOC: 40.30 ft** **Estimated Total Volume Pumped: 20 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.07 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1146036**

Test Notes:
Six Bottles: Appendix III & IV + Major Ions; Fe^{2+} = 5.2 mg/L, Fe_T = 5.2 mg/L.

Weather Conditions:
Cloudy, 55 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
3/5/2025 10:39 AM	00:00	6.89 pH	17.86 °C	737.30 µS/cm	3.32 mg/L	73.40 NTU	178.3 mV	26.05 ft	200.00 ml/min
3/5/2025 10:44 AM	05:00	6.91 pH	18.00 °C	750.22 µS/cm	1.39 mg/L	70.00 NTU	418.2 mV	26.05 ft	200.00 ml/min
3/5/2025 10:49 AM	10:00	6.91 pH	18.08 °C	747.35 µS/cm	1.73 mg/L	22.20 NTU	518.5 mV	26.05 ft	200.00 ml/min
3/5/2025 10:54 AM	15:00	6.91 pH	18.14 °C	750.77 µS/cm	2.81 mg/L	15.40 NTU	560.0 mV	26.05 ft	200.00 ml/min
3/5/2025 10:59 AM	20:00	6.90 pH	18.09 °C	727.77 µS/cm	1.20 mg/L	10.33 NTU	590.2 mV	26.05 ft	200.00 ml/min
3/5/2025 11:04 AM	25:00	6.90 pH	18.13 °C	744.30 µS/cm	1.34 mg/L	9.13 NTU	611.2 mV	26.05 ft	200.00 ml/min
3/5/2025 11:09 AM	30:00	6.90 pH	18.10 °C	746.44 µS/cm	1.62 mg/L	7.02 NTU	622.3 mV	26.05 ft	200.00 ml/min
3/5/2025 11:14 AM	35:00	6.91 pH	18.09 °C	744.57 µS/cm	1.25 mg/L	6.31 NTU	625.9 mV	26.05 ft	200.00 ml/min
3/5/2025 11:19 AM	40:00	6.91 pH	17.96 °C	747.33 µS/cm	1.03 mg/L	5.73 NTU	623.7 mV	26.05 ft	200.00 ml/min
3/5/2025 11:24 AM	45:00	6.90 pH	17.88 °C	752.08 µS/cm	1.31 mg/L	5.19 NTU	611.4 mV	26.05 ft	200.00 ml/min
3/5/2025 11:29 AM	50:00	6.91 pH	17.83 °C	756.94 µS/cm	2.11 mg/L	4.99 NTU	583.9 mV	26.05 ft	200.00 ml/min
3/5/2025 11:34 AM	55:00	6.91 pH	17.84 °C	756.47 µS/cm	2.02 mg/L	4.52 NTU	543.8 mV	26.05 ft	200.00 ml/min
3/5/2025 11:39 AM	01:00:00	6.92 pH	17.79 °C	750.56 µS/cm	2.95 mg/L	4.31 NTU	503.7 mV	26.05 ft	200.00 ml/min

3/5/2025 11:44 AM	01:05:00	6.92 pH	17.87 °C	749.82 µS/cm	1.49 mg/L	3.69 NTU	464.7 mV	26.05 ft	200.00 ml/min
3/5/2025 11:49 AM	01:10:00	6.92 pH	18.05 °C	748.78 µS/cm	0.99 mg/L	3.71 NTU	439.0 mV	26.05 ft	200.00 ml/min
3/5/2025 11:54 AM	01:15:00	6.93 pH	18.05 °C	750.36 µS/cm	0.68 mg/L	3.41 NTU	429.2 mV	26.05 ft	200.00 ml/min
3/5/2025 11:59 AM	01:20:00	6.93 pH	18.02 °C	752.11 µS/cm	0.42 mg/L	3.57 NTU	382.1 mV	26.05 ft	200.00 ml/min
3/5/2025 12:04 PM	01:25:00	6.93 pH	17.88 °C	750.76 µS/cm	0.28 mg/L	3.73 NTU	370.7 mV	26.05 ft	200.00 ml/min
3/5/2025 12:09 PM	01:30:00	6.93 pH	17.91 °C	752.17 µS/cm	0.20 mg/L	3.71 NTU	356.9 mV	26.05 ft	200.00 ml/min
3/5/2025 12:14 PM	01:35:00	6.93 pH	17.89 °C	750.54 µS/cm	0.16 mg/L	3.82 NTU	335.0 mV	26.05 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-13	Grab.

Low-Flow Test Report:

Test Date / Time: 3/5/2025 11:04:09 AM
Project: GP-Plant Hammond
Operator Name: Z. Webb

Location Name: PT-14 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 35.30 ft** **Total Depth: 45.30 ft** **Initial Depth to Water: 26.00 ft**	**Pump Type: Bladder** **Tubing Type: Polyethylene** **Pump Intake From TOC: 40.30 ft** **Estimated Total Volume Pumped: 18 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.03 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1167968**

Test Notes:
Six Bottles: Appendix III & IV + Major Ions; Fe^{2+} = 3.5 mg/L, Fe_T = 7.0 mg/L.

Weather Conditions:
Clear, 50 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
3/5/2025 11:04 AM	00:00	6.91 pH	18.00 °C	744.45 µS/cm	3.00 mg/L	36.50 NTU	-30.5 mV	26.00 ft	200.00 ml/min
3/5/2025 11:09 AM	05:00	6.92 pH	18.16 °C	741.30 µS/cm	3.01 mg/L	24.00 NTU	-50.3 mV	26.03 ft	200.00 ml/min
3/5/2025 11:14 AM	10:00	6.93 pH	18.12 °C	737.50 µS/cm	2.25 mg/L	20.60 NTU	-52.6 mV	26.03 ft	200.00 ml/min
3/5/2025 11:19 AM	15:00	6.95 pH	18.02 °C	734.64 µS/cm	3.08 mg/L	15.40 NTU	-62.7 mV	26.03 ft	200.00 ml/min
3/5/2025 11:24 AM	20:00	6.95 pH	17.92 °C	726.19 µS/cm	2.60 mg/L	12.60 NTU	-62.5 mV	26.03 ft	200.00 ml/min
3/5/2025 11:29 AM	25:00	6.96 pH	17.86 °C	730.03 µS/cm	2.82 mg/L	11.30 NTU	-69.6 mV	26.03 ft	200.00 ml/min
3/5/2025 11:34 AM	30:00	6.96 pH	17.87 °C	724.88 µS/cm	2.70 mg/L	9.95 NTU	-70.6 mV	26.03 ft	200.00 ml/min
3/5/2025 11:39 AM	35:00	6.97 pH	17.80 °C	728.06 µS/cm	2.79 mg/L	7.53 NTU	-75.5 mV	26.03 ft	200.00 ml/min
3/5/2025 11:44 AM	40:00	6.98 pH	17.86 °C	730.65 µS/cm	2.80 mg/L	6.49 NTU	-75.3 mV	26.03 ft	200.00 ml/min
3/5/2025 11:49 AM	45:00	6.98 pH	18.03 °C	732.78 µS/cm	2.47 mg/L	5.77 NTU	-74.5 mV	26.03 ft	200.00 ml/min
3/5/2025 11:54 AM	50:00	6.98 pH	18.07 °C	726.31 µS/cm	2.15 mg/L	5.86 NTU	-80.6 mV	26.03 ft	200.00 ml/min
3/5/2025 11:59 AM	55:00	6.99 pH	18.06 °C	709.29 µS/cm	2.63 mg/L	5.15 NTU	-79.3 mV	26.03 ft	200.00 ml/min
3/5/2025 12:04 PM	01:00:00	6.98 pH	17.93 °C	732.78 µS/cm	2.47 mg/L	4.92 NTU	-78.9 mV	26.03 ft	200.00 ml/min

3/5/2025 12:09 PM	01:05:00	6.98 pH	17.92 °C	725.06 µS/cm	1.68 mg/L	4.43 NTU	-83.2 mV	26.03 ft	200.00 ml/min
3/5/2025 12:14 PM	01:10:00	6.98 pH	17.91 °C	725.91 µS/cm	1.59 mg/L	4.25 NTU	-78.5 mV	26.03 ft	200.00 ml/min
3/5/2025 12:19 PM	01:15:00	6.98 pH	17.91 °C	728.89 µS/cm	1.53 mg/L	4.11 NTU	-79.0 mV	26.03 ft	200.00 ml/min
3/5/2025 12:24 PM	01:20:38	7.00 pH	17.89 °C	718.03 µS/cm	1.66 mg/L	3.82 NTU	-83.1 mV	26.03 ft	200.00 ml/min
3/5/2025 12:29 PM	01:25:38	7.00 pH	17.84 °C	719.20 µS/cm	1.63 mg/L	3.59 NTU	-78.3 mV	26.03 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-14	Grab.
HAM-AP1-FD-01	Grab.

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 3/5/2025 1:20:11 PM
Project: GP-Plant Hammond
Operator Name: T. Kessler

Location Name: PT-15 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 35.30 ft** **Total Depth: 45.30 ft** **Initial Depth to Water: 25.90 ft**	**Pump Type: Bladder** **Tubing Type: Polyethylene** **Pump Intake From TOC: 40.30 ft** **Estimated Total Volume Pumped: 10 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1146036**

Test Notes:
Six Bottles: Appendix III & IV + Major Ions; Fe^{2+} = 1.0 mg/L, Fe_T = 1.2 mg/L.

Weather Conditions:
Cloudy, 55 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
3/5/2025 1:20 PM	00:00	6.83 pH	17.81 °C	706.34 µS/cm	3.06 mg/L	66.70 NTU	157.2 mV	25.90 ft	200.00 ml/min
3/5/2025 1:25 PM	05:00	6.83 pH	17.81 °C	726.84 µS/cm	2.21 mg/L	36.40 NTU	441.9 mV	25.90 ft	200.00 ml/min
3/5/2025 1:30 PM	10:00	6.86 pH	17.78 °C	721.82 µS/cm	1.75 mg/L	14.70 NTU	526.2 mV	25.90 ft	200.00 ml/min
3/5/2025 1:35 PM	15:00	6.87 pH	17.78 °C	722.05 µS/cm	1.16 mg/L	10.11 NTU	513.7 mV	25.90 ft	200.00 ml/min
3/5/2025 1:40 PM	20:00	6.87 pH	17.81 °C	720.82 µS/cm	0.87 mg/L	5.16 NTU	532.5 mV	25.90 ft	200.00 ml/min
3/5/2025 1:45 PM	25:00	6.87 pH	17.82 °C	719.34 µS/cm	0.70 mg/L	4.99 NTU	549.4 mV	25.90 ft	200.00 ml/min
3/5/2025 1:50 PM	30:00	6.87 pH	17.64 °C	715.41 µS/cm	0.55 mg/L	2.81 NTU	560.1 mV	25.90 ft	200.00 ml/min
3/5/2025 1:55 PM	35:00	6.88 pH	17.45 °C	715.93 µS/cm	0.42 mg/L	2.50 NTU	568.5 mV	25.90 ft	200.00 ml/min
3/5/2025 2:00 PM	40:00	6.88 pH	17.33 °C	715.47 µS/cm	0.33 mg/L	1.71 NTU	573.0 mV	25.90 ft	200.00 ml/min
3/5/2025 2:05 PM	45:00	6.88 pH	17.41 °C	732.70 µS/cm	0.22 mg/L	1.38 NTU	571.8 mV	25.90 ft	200.00 ml/min

Samples

Sample ID:	Description:

HAM-PT-15	Grab.

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 4/3/2025 2:29:58 PM
Project: GP-Plant Hammond
Operator Name: Z. Webb

Location Name: INW-03 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 17.4 ft** **Total Depth: 27.4 ft** **Initial Depth to Water: 14.06 ft**	**Pump Type: Peristaltic** **Tubing Type: Polyethylene** **Pump Intake From TOC: 22.4 ft** **Estimated Total Volume Pumped: 4 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.09 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1179236**

Test Notes:
Parameters. Ferrous Iron: 1.0 mg/L, Total Iron: 1.5 mg/L.

Weather Conditions:
Sunny, 80 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
4/3/2025 2:29 PM	00:00	7.01 pH	19.86 °C	797.80 µS/cm	0.16 mg/L	6.01 NTU	14.3 mV	14.06 ft	200.00 ml/min
4/3/2025 2:34 PM	05:00	7.00 pH	20.06 °C	795.20 µS/cm	0.10 mg/L	7.35 NTU	9.1 mV	14.12 ft	200.00 ml/min
4/3/2025 2:39 PM	10:00	6.99 pH	20.12 °C	799.01 µS/cm	0.08 mg/L	5.91 NTU	14.2 mV	14.14 ft	200.00 ml/min
4/3/2025 2:44 PM	15:00	6.97 pH	20.00 °C	790.55 µS/cm	0.07 mg/L	5.73 NTU	16.3 mV	14.15 ft	200.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 4/3/2025 8:53:57 AM
Project: GP-Plant Hammond
Operator Name: Z. Webb

Location Name: INW-04 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 35.3 ft** **Total Depth: 45.3 ft** **Initial Depth to Water: 26.62 ft**	**Pump Type: Peristaltic** **Tubing Type: Polyethylene** **Pump Intake From TOC: 40.3 ft** **Estimated Total Volume Pumped: 4 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.02 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1179236**

Test Notes:
Parameters. Ferrous Iron: 3.5 mg/L, Total Iron: 5.5 mg/L.

Weather Conditions:
Clear, 70 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
4/3/2025 8:53 AM	00:00	6.23 pH	19.15 °C	621.68 µS/cm	0.77 mg/L	++++	-30.5 mV	26.62 ft	200.00 ml/min
4/3/2025 8:58 AM	05:00	6.35 pH	19.04 °C	646.71 µS/cm	0.56 mg/L	++++	-44.0 mV	26.63 ft	200.00 ml/min
4/3/2025 9:03 AM	10:00	6.39 pH	19.17 °C	649.73 µS/cm	0.40 mg/L	78.10 NTU	-43.9 mV	26.64 ft	200.00 ml/min
4/3/2025 9:08 AM	15:00	6.44 pH	19.13 °C	653.51 µS/cm	0.42 mg/L	47.00 NTU	-47.1 mV	26.64 ft	200.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 4/3/2025 10:20:34 AM
Project: GP-Plant Hammond
Operator Name: Y. Wang

Location Name: INW-05 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 35.3 ft** **Total Depth: 45.3 ft** **Initial Depth to Water: 26.12 ft**	**Pump Type: Bladder** **Tubing Type: Polyethylene** **Pump Intake From TOC: 40.3 ft** **Estimated Total Volume Pumped: 4 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.01 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1149710**

Test Notes:
Parameters. Ferrous Iron: 4.9 mg/L, Total Iron: 7.0 mg/L.

Weather Conditions:
Sunny,70 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
4/3/2025 10:20 AM	00:00	6.92 pH	19.33 °C	758.82 µS/cm	2.25 mg/L	++++	-78.1 mV	26.14 ft	200.00 ml/min
4/3/2025 10:25 AM	05:00	6.92 pH	18.82 °C	766.39 µS/cm	1.40 mg/L	++++	-71.2 mV	26.13 ft	200.00 ml/min
4/3/2025 10:30 AM	10:00	6.94 pH	18.73 °C	767.75 µS/cm	0.88 mg/L	++++	-74.3 mV	26.13 ft	200.00 ml/min
4/3/2025 10:35 AM	15:00	6.94 pH	18.73 °C	771.69 µS/cm	0.85 mg/L	125.1	-77.1 mV	26.13 ft	200.00 ml/min

Samples

Sample ID:	Description:

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 4/3/2025 8:55:31 AM
Project: GP-Plant Hammond
Operator Name: Y. Wang

Location Name: PT-07 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 37.75 ft** **Total Depth: 47.75 ft** **Initial Depth to Water: 26.82 ft**	**Pump Type: Bladder** **Tubing Type: Polyethylene** **Pump Intake From TOC: 42.75 ft** **Estimated Total Volume Pumped: 5 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.1 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1149710**

Test Notes:
Full App. III and IV + Major Ions. Ferrous Iron: 4.3 mg/L. Total Iron: 5.5 mg/L.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
4/3/2025 8:55 AM	00:00	6.91 pH	18.71 °C	755.53 µS/cm	1.31 mg/L	0.40 NTU	-92.3 mV	26.91 ft	200.00 ml/min
4/3/2025 9:00 AM	05:00	6.92 pH	18.70 °C	759.47 µS/cm	1.01 mg/L	0.43 NTU	-93.0 mV	26.92 ft	200.00 ml/min
4/3/2025 9:05 AM	10:00	6.92 pH	18.72 °C	759.46 µS/cm	0.91 mg/L	0.23 NTU	-88.0 mV	26.93 ft	200.00 ml/min
4/3/2025 9:10 AM	15:00	6.92 pH	18.71 °C	760.02 µS/cm	0.87 mg/L	0.27 NTU	-85.4 mV	26.92 ft	200.00 ml/min
4/3/2025 9:15 AM	20:00	6.92 pH	18.74 °C	759.60 µS/cm	0.78 mg/L	0.41 NTU	-83.5 mV	26.92 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-7	Grab

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 4/2/2025 3:12:10 PM
Project: GP-Plant Hammond
Operator Name: Z. Webb

Location Name: PT-08 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 31.93 ft** **Total Depth: 41.93 ft** **Initial Depth to Water: 26.61 ft**	**Pump Type: Peristaltic** **Tubing Type: Polyethylene** **Pump Intake From TOC: 36.93 ft** **Estimated Total Volume Pumped: 20 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.02 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1179236**

Test Notes:
Full App. III and IV + Major Ions. Ferrous Iron: 0.4 mg/L. Total Iron: 1.0 mg/L.

Weather Conditions:
Sunny, 80 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
4/2/2025 3:12 PM	00:00	6.53 pH	24.84 °C	618.29 µS/cm	1.47 mg/L	++++	39.6 mV	26.61 ft	200.00 ml/min
4/2/2025 3:17 PM	05:00	6.46 pH	20.95 °C	678.88 µS/cm	0.46 mg/L	++++	47.2 mV	26.61 ft	200.00 ml/min
4/2/2025 3:22 PM	10:00	6.45 pH	20.87 °C	673.00 µS/cm	0.36 mg/L	++++	47.8 mV	26.62 ft	200.00 ml/min
4/2/2025 3:27 PM	15:00	6.47 pH	21.06 °C	671.95 µS/cm	0.29 mg/L	65.40 NTU	43.3 mV	26.62 ft	200.00 ml/min
4/2/2025 3:32 PM	20:00	6.49 pH	21.00 °C	683.70 µS/cm	0.20 mg/L	49.10 NTU	40.3 mV	26.63 ft	200.00 ml/min
4/2/2025 3:37 PM	25:00	6.49 pH	20.77 °C	685.33 µS/cm	0.19 mg/L	33.80 NTU	41.2 mV	26.63 ft	200.00 ml/min
4/2/2025 3:42 PM	30:00	6.50 pH	20.81 °C	678.70 µS/cm	0.16 mg/L	26.90 NTU	40.3 mV	26.63 ft	200.00 ml/min
4/2/2025 3:47 PM	35:00	6.50 pH	20.25 °C	681.51 µS/cm	0.15 mg/L	22.30 NTU	40.3 mV	26.63 ft	200.00 ml/min
4/2/2025 3:52 PM	40:00	6.50 pH	20.42 °C	677.65 µS/cm	0.14 mg/L	15.60 NTU	37.8 mV	26.63 ft	200.00 ml/min
4/2/2025 3:57 PM	45:00	6.51 pH	20.20 °C	680.67 µS/cm	0.13 mg/L	11.40 NTU	37.4 mV	26.63 ft	200.00 ml/min
4/2/2025 4:02 PM	50:00	6.51 pH	20.24 °C	687.60 µS/cm	0.14 mg/L	10.70 NTU	36.3 mV	26.63 ft	200.00 ml/min
4/2/2025 4:07 PM	55:00	6.51 pH	20.60 °C	685.39 µS/cm	0.12 mg/L	9.04 NTU	34.9 mV	26.63 ft	200.00 ml/min
4/2/2025 4:12 PM	01:00:00	6.51 pH	20.77 °C	685.48 µS/cm	0.11 mg/L	7.65 NTU	33.1 mV	26.63 ft	200.00 ml/min

4/2/2025 4:17 PM	01:05:00	6.51 pH	20.46 °C	677.12 µS/cm	0.10 mg/L	6.90 NTU	31.7 mV	26.63 ft	200.00 ml/min
4/2/2025 4:22 PM	01:10:00	6.50 pH	20.24 °C	678.83 µS/cm		6.23 NTU	33.4 mV	26.63 ft	200.00 ml/min
4/2/2025 4:27 PM	01:15:00	6.50 pH	19.94 °C	686.46 µS/cm	0.08 mg/L	5.99 NTU	32.3 mV	26.63 ft	200.00 ml/min
4/2/2025 4:32 PM	01:20:00	6.50 pH	19.96 °C	684.90 µS/cm	0.08 mg/L	5.75 NTU	31.6 mV	26.63 ft	200.00 ml/min
4/2/2025 4:37 PM	01:25:00	6.51 pH	19.94 °C	699.80 µS/cm	0.09 mg/L	5.40 NTU	30.7 mV	26.63 ft	200.00 ml/min
4/2/2025 4:42 PM	01:30:00	6.50 pH	19.95 °C	694.37 µS/cm	0.11 mg/L	4.63 NTU	30.0 mV	26.63 ft	200.00 ml/min
4/2/2025 4:47 PM	01:35:00	6.50 pH	20.01 °C	695.92 µS/cm	0.10 mg/L	4.55 NTU	29.3 mV	26.63 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-08	Grab.

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 4/3/2025 1:17:23 PM
Project: GP-Plant Hammond
Operator Name: Z. Webb

Location Name: PT-09 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 20.47 ft** **Total Depth: 30.47 ft** **Initial Depth to Water: 17.37 ft**	**Pump Type: Peristaltic** **Tubing Type: Polyethylene** **Pump Intake From TOC: 21.9 ft** **Estimated Total Volume Pumped: 8 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.06 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1179236**

Test Notes:
Full App. III and IV + Major Ions. Ferrous Iron: 0 mg/L. Total Iron: 0.5 mg/L.

Weather Conditions:
Sunny, 80 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
4/3/2025 1:17 PM	00:00	6.73 pH	19.78 °C	718.45 µS/cm	0.11 mg/L	17.20 NTU	84.2 mV	17.37 ft	200.00 ml/min
4/3/2025 1:22 PM	05:00	6.75 pH	19.83 °C	697.18 µS/cm	0.09 mg/L	16.30 NTU	81.5 mV	17.39 ft	200.00 ml/min
4/3/2025 1:27 PM	10:00	6.76 pH	19.87 °C	708.10 µS/cm	0.07 mg/L	13.10 NTU	59.9 mV	17.41 ft	200.00 ml/min
4/3/2025 1:32 PM	15:00	6.77 pH	20.02 °C	706.40 µS/cm	0.07 mg/L	10.40 NTU	57.8 mV	17.42 ft	200.00 ml/min
4/3/2025 1:37 PM	20:00	6.78 pH	19.91 °C	712.37 µS/cm	0.06 mg/L	9.62 NTU	56.8 mV	17.43 ft	200.00 ml/min
4/3/2025 1:42 PM	25:00	6.77 pH	19.88 °C	716.13 µS/cm	0.06 mg/L	8.17 NTU	56.6 mV	17.43 ft	200.00 ml/min
4/3/2025 1:47 PM	30:00	6.78 pH	20.09 °C	714.20 µS/cm	0.06 mg/L	5.92 NTU	56.1 mV	17.43 ft	200.00 ml/min
4/3/2025 1:52 PM	35:00	6.78 pH	20.38 °C	716.18 µS/cm	0.05 mg/L	4.85 NTU	55.3 mV	17.43 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-09	Grab.

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 4/3/2025 12:05:08 PM
Project: GP-Plant Hammond
Operator Name: Y. Wang

Location Name: PT-10 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 20.45 ft** **Total Depth: 30.45 ft** **Initial Depth to Water: 17.45 ft**	**Pump Type: Peri** **Tubing Type: Polyethylene** **Pump Intake From TOC: 25.45 ft** **Estimated Total Volume Pumped: 7 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.08 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1149710**

Test Notes:
Full App. III and IV + Major Ions. Ferrous Iron: 0 mg/L. Total Iron: 0 mg/L.

Weather Conditions:
Sunny, 65 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
4/3/2025 12:05 PM	00:00	6.76 pH	20.17 °C	754.15 µS/cm	0.17 mg/L	1.23 NTU	26.1 mV	17.46 ft	200.00 ml/min
4/3/2025 12:10 PM	05:00	6.77 pH	20.07 °C	753.51 µS/cm	0.15 mg/L	0.46 NTU	78.9 mV	17.51 ft	200.00 ml/min
4/3/2025 12:15 PM	10:00	6.77 pH	20.26 °C	758.01 µS/cm	0.13 mg/L	0.33 NTU	94.6 mV	17.53 ft	200.00 ml/min
4/3/2025 12:20 PM	15:00	6.79 pH	20.79 °C	761.76 µS/cm	0.13 mg/L	0.21 NTU	98.3 mV	17.51 ft	200.00 ml/min
4/3/2025 12:25 PM	20:00	6.80 pH	20.62 °C	764.99 µS/cm	0.12 mg/L	0.85 NTU	102.0 mV	17.52 ft	200.00 ml/min
4/3/2025 12:30 PM	25:00	6.81 pH	21.07 °C	769.62 µS/cm	0.11 mg/L	0.21 NTU	105.8 mV	17.52 ft	200.00 ml/min
4/3/2025 12:35 PM	30:00	6.82 pH	20.49 °C	767.32 µS/cm	0.11 mg/L	0.49 NTU	139.0 mV	17.52 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-10	Grab.

Low-Flow Test Report:

Test Date / Time: 4/3/2025 11:55:04 AM
Project: GP-Plant Hammond
Operator Name: Z. Webb

Location Name: PT-11 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 16.9 ft** **Total Depth: 26.9 ft** **Initial Depth to Water: 13.94 ft**	**Pump Type: Peristaltic** **Tubing Type: Polyethylene** **Pump Intake From TOC: 21.9 ft** **Estimated Total Volume Pumped: 10 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1179236**

Test Notes:
Full App. III and IV + Major Ions. Ferrous Iron: 0.5 mg/L. Total Iron: 0.5 mg/L.

Weather Conditions:
Sunny, 75 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
4/3/2025 11:55 AM	00:00	6.72 pH	19.58 °C	684.25 µS/cm	0.15 mg/L	12.10 NTU	119.6 mV	13.94 ft	200.00 ml/min
4/3/2025 12:00 PM	05:00	6.70 pH	19.53 °C	650.68 µS/cm	0.12 mg/L	11.40 NTU	97.5 mV	13.94 ft	200.00 ml/min
4/3/2025 12:05 PM	10:00	6.72 pH	19.61 °C	663.55 µS/cm	0.11 mg/L	8.53 NTU	65.0 mV	13.94 ft	200.00 ml/min
4/3/2025 12:10 PM	15:00	6.75 pH	19.63 °C	659.37 µS/cm	0.10 mg/L	6.41 NTU	59.5 mV	13.94 ft	200.00 ml/min
4/3/2025 12:15 PM	20:00	6.74 pH	19.75 °C	660.35 µS/cm	0.09 mg/L	6.18 NTU	56.6 mV	13.94 ft	200.00 ml/min
4/3/2025 12:20 PM	25:00	6.74 pH	20.04 °C	656.46 µS/cm	0.09 mg/L	5.45 NTU	55.2 mV	13.94 ft	200.00 ml/min
4/3/2025 12:25 PM	30:00	6.75 pH	19.89 °C	655.81 µS/cm	0.09 mg/L	4.32 NTU	54.2 mV	13.94 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-11	Grab.

Low-Flow Test Report:

Test Date / Time: 4/3/2025 1:30:16 PM
Project: GP-Plant Hammond
Operator Name: Y. Wang

Location Name: PT-12 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 17.3 ft** **Total Depth: 27.3 ft** **Initial Depth to Water: 13.86 ft**	**Pump Type: Peri** **Tubing Type: Polyethylene Pump** **Intake From TOC: 22.3 ft** **Estimated Total Volume Pumped: 10.8 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.06 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1149710**

Test Notes:
Full App. III and IV + Major Ions. Ferrous Iron: 0 mg/L. Total Iron: 0 mg/L.

Weather Conditions:
Sunny, 70 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
4/3/2025 1:30 PM	00:00	7.77 pH	31.87 °C	0.14 µS/cm	6.93 mg/L	9.19 NTU	160.0 mV	13.91 ft	200.00 ml/min
4/3/2025 1:35 PM	05:41	6.32 pH	21.47 °C	643.05 µS/cm	0.23 mg/L	6.41 NTU	224.2 mV	13.92 ft	200.00 ml/min
4/3/2025 1:36 PM	06:20	6.32 pH	20.76 °C	651.77 µS/cm	0.22 mg/L	6.23 NTU	283.5 mV	13.91 ft	200.00 ml/min
4/3/2025 1:37 PM	07:40	6.32 pH	20.41 °C	660.05 µS/cm	0.20 mg/L	6.18 NTU	302.2 mV	13.94 ft	200.00 ml/min
4/3/2025 1:42 PM	12:40	6.33 pH	19.77 °C	670.07 µS/cm	0.14 mg/L	9.81 NTU	439.9 mV	13.92 ft	200.00 ml/min
4/3/2025 1:47 PM	17:40	6.33 pH	19.96 °C	667.55 µS/cm	0.13 mg/L	9.41 NTU	455.2 mV	13.91 ft	200.00 ml/min
4/3/2025 1:52 PM	22:40	6.35 pH	20.13 °C	673.36 µS/cm	0.12 mg/L	9.21 NTU	589.3 mV	13.90 ft	200.00 ml/min
4/3/2025 1:55 PM	25:41	6.39 pH	20.22 °C	678.63 µS/cm	0.12 mg/L	10.24 NTU	412.4 mV	13.91 ft	200.00 ml/min
4/3/2025 2:00 PM	30:41	6.41 pH	20.14 °C	678.68 µS/cm	0.11 mg/L	8.44 NTU	485.1 mV	13.93 ft	200.00 ml/min
4/3/2025 2:05 PM	35:41	6.35 pH	20.00 °C	668.27 µS/cm	0.11 mg/L	4.59 NTU	484.4 mV	13.91 ft	200.00 ml/min
4/3/2025 2:10 PM	40:41	6.41 pH	20.21 °C	678.48 µS/cm	0.11 mg/L	4.32 NTU	480.7 mV	13.92 ft	200.00 ml/min
4/3/2025 2:15 PM	45:41	6.40 pH	20.05 °C	675.61 µS/cm	0.11 mg/L	4.78 NTU	485.5 mV	13.91 ft	200.00 ml/min
4/3/2025 2:20 PM	50:41	6.43 pH	20.21 °C	681.72 µS/cm	0.11 mg/L	2.97 NTU	485.4 mV	13.92 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-12	Grab.

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 4/2/2025 2:40:14 PM
Project: GP-Plant Hammond
Operator Name: Y. Wang

Location Name: PT-13 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 35.3 ft** **Total Depth: 45.3 ft** **Initial Depth to Water: 26.38 ft**	**Pump Type: Bladder** **Tubing Type: Polyethylene** **Pump Intake From TOC: 40.3 ft** **Estimated Total Volume Pumped: 31.6 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: -0.02 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1149710**

Test Notes:
Full App. III and IV + Major Ions. Ferrous Iron: 3.6 mg/L. Total Iron: 4.8 mg/L.

Weather Conditions:
Sunny, 70 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
4/2/2025 2:40 PM	00:00	6.85 pH	20.57 °C	737.04 µS/cm	0.38 mg/L	++++	-34.9 mV	26.42 ft	200.00 ml/min
4/2/2025 2:43 PM	03:31	6.85 pH	20.22 °C	745.58 µS/cm	0.30 mg/L	++++	-32.0 mV	26.40 ft	200.00 ml/min
4/2/2025 2:48 PM	08:22	6.86 pH	19.96 °C	737.21 µS/cm	0.21 mg/L	++++	-42.0 mV	26.41 ft	200.00 ml/min
4/2/2025 2:53 PM	13:22	6.86 pH	20.18 °C	746.43 µS/cm	0.19 mg/L	56.40 NTU	-31.4 mV	26.37 ft	200.00 ml/min
4/2/2025 2:58 PM	18:22	6.86 pH	20.06 °C	745.58 µS/cm	0.15 mg/L	46.70 NTU	-38.5 mV	26.35 ft	200.00 ml/min
4/2/2025 3:03 PM	23:22	6.86 pH	20.03 °C	745.77 µS/cm	0.13 mg/L	35.50 NTU	-40.8 mV	26.34 ft	200.00 ml/min
4/2/2025 3:08 PM	28:22	6.85 pH	19.99 °C	741.94 µS/cm	0.12 mg/L	28.20 NTU	-37.5 mV	26.34 ft	200.00 ml/min
4/2/2025 3:13 PM	33:22	6.86 pH	19.90 °C	746.76 µS/cm	0.11 mg/L	25.00 NTU	-40.1 mV	26.35 ft	200.00 ml/min
4/2/2025 3:18 PM	38:22	6.85 pH	20.37 °C	749.19 µS/cm	0.10 mg/L	23.30 NTU	-42.4 mV	26.35 ft	200.00 ml/min
4/2/2025 3:23 PM	43:22	6.85 pH	20.48 °C	748.04 µS/cm	0.09 mg/L	22.80 NTU	-41.5 mV	26.34 ft	200.00 ml/min
4/2/2025 3:28 PM	48:22	6.85 pH	20.22 °C	740.36 µS/cm	0.08 mg/L	20.90 NTU	-42.2 mV	26.35 ft	200.00 ml/min
4/2/2025 3:33 PM	53:22	6.84 pH	20.30 °C	739.48 µS/cm	0.08 mg/L	15.40 NTU	-40.6 mV	26.36 ft	200.00 ml/min
4/2/2025 3:38 PM	58:22	6.85 pH	20.49 °C	740.20 µS/cm	0.07 mg/L	17.70 NTU	-42.4 mV	26.35 ft	200.00 ml/min

4/2/2025 3:43 PM	01:03:22	6.85 pH	20.43 °C	739.47 µS/cm	0.07 mg/L	20.20 NTU	-43.3 mV	26.34 ft	200.00 ml/min
4/2/2025 3:48 PM	01:08:22	6.85 pH	19.99 °C	741.54 µS/cm	0.06 mg/L	19.40 NTU	-43.7 mV	26.35 ft	200.00 ml/min
4/2/2025 3:53 PM	01:13:22	6.85 pH	20.08 °C	740.56 µS/cm	0.06 mg/L	18.70 NTU	-43.7 mV	26.36 ft	200.00 ml/min
4/2/2025 3:58 PM	01:18:22	6.86 pH	19.97 °C	738.38 µS/cm	0.06 mg/L	13.90 NTU	-46.1 mV	26.35 ft	200.00 ml/min
4/2/2025 4:03 PM	01:23:22	6.85 pH	19.95 °C	737.63 µS/cm	0.06 mg/L	17.80 NTU	-46.4 mV	26.34 ft	200.00 ml/min
4/2/2025 4:08 PM	01:28:22	6.85 pH	20.24 °C	738.03 µS/cm	0.05 mg/L	20.30 NTU	-45.4 mV	26.35 ft	200.00 ml/min
4/2/2025 4:13 PM	01:33:22	6.86 pH	20.26 °C	737.09 µS/cm	0.06 mg/L	21.20 NTU	-46.6 mV	26.35 ft	200.00 ml/min
4/2/2025 4:18 PM	01:38:22	6.85 pH	20.09 °C	734.90 µS/cm	0.05 mg/L	20.80 NTU	-44.1 mV	26.32 ft	200.00 ml/min
4/2/2025 4:23 PM	01:43:22	6.86 pH	19.86 °C	735.25 µS/cm	0.04 mg/L	19.80 NTU	-46.3 mV	26.35 ft	200.00 ml/min
4/2/2025 4:28 PM	01:48:22	6.86 pH	19.99 °C	738.07 µS/cm	0.05 mg/L	35.50 NTU	-50.9 mV	26.34 ft	200.00 ml/min
4/2/2025 4:33 PM	01:53:22	6.85 pH	19.96 °C	733.77 µS/cm	0.08 mg/L	25.60 NTU	-47.0 mV	26.35 ft	200.00 ml/min
4/2/2025 4:38 PM	01:58:22	6.85 pH	20.20 °C	733.46 µS/cm	0.07 mg/L	12.30 NTU	-51.7 mV	26.32 ft	200.00 ml/min
4/2/2025 4:43 PM	02:03:22	6.86 pH	19.95 °C	731.35 µS/cm	0.05 mg/L	10.33 NTU	-50.3 mV	26.36 ft	200.00 ml/min
4/2/2025 4:48 PM	02:08:22	6.85 pH	20.09 °C	734.77 µS/cm	0.04 mg/L	7.91 NTU	-50.2 mV	26.37 ft	200.00 ml/min
4/2/2025 4:53 PM	02:13:22	6.86 pH	19.88 °C	734.66 µS/cm	0.04 mg/L	6.61 NTU	-51.2 mV	26.33 ft	200.00 ml/min
4/2/2025 4:58 PM	02:18:22	6.85 pH	20.03 °C	734.55 µS/cm	0.04 mg/L	4.96 NTU	-51.3 mV	26.36 ft	200.00 ml/min
4/2/2025 5:03 PM	02:23:22	6.85 pH	19.89 °C	734.66 µS/cm	0.04 mg/L	4.55 NTU	-51.7 mV	26.35 ft	200.00 ml/min
4/2/2025 5:08 PM	02:28:22	6.85 pH	19.80 °C	733.67 µS/cm	0.04 mg/L	4.91 NTU	-50.5 mV	26.32 ft	200.00 ml/min
4/2/2025 5:12 PM	02:32:29	6.85 pH	19.86 °C	731.33 µS/cm	0.04 mg/L	4.97 NTU	-50.1 mV	26.36 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-13	Grab

Low-Flow Test Report:

Test Date / Time: 4/2/2025 12:43:25 PM
Project: GP-Plant Hammond
Operator Name: Z. Webb

Location Name: PT-14 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 35.3 ft** **Total Depth: 45.3 ft** **Initial Depth to Water: 26.34 ft**	**Pump Type: Peristaltic** **Tubing Type: Polyethylene** **Pump Intake From TOC: 40.3 ft** **Estimated Total Volume Pumped: 13 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: 0.07 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1179236**

Test Notes:
Full App. III and IV + Major Ions. Ferrous Iron: 4.4 mg/L. Total Iron: 7.0 mg/L.

Weather Conditions:
Sunny, 70 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
4/2/2025 12:43 PM	00:00	6.89 pH	20.77 °C	738.95 µS/cm	0.61 mg/L	31.50 NTU	-89.5 mV	26.34 ft	200.00 ml/min
4/2/2025 12:48 PM	05:00	6.94 pH	20.15 °C	723.95 µS/cm	0.63 mg/L	28.70 NTU	-105.9 mV	26.33 ft	200.00 ml/min
4/2/2025 12:53 PM	10:00	6.95 pH	20.28 °C	698.22 µS/cm	0.45 mg/L	25.00 NTU	-107.8 mV	26.38 ft	200.00 ml/min
4/2/2025 12:58 PM	15:00	6.95 pH	20.18 °C	734.81 µS/cm	0.33 mg/L	22.30 NTU	-95.9 mV	26.40 ft	200.00 ml/min
4/2/2025 1:03 PM	20:00	6.95 pH	20.37 °C	721.70 µS/cm	0.27 mg/L	18.10 NTU	-97.5 mV	26.41 ft	200.00 ml/min
4/2/2025 1:08 PM	25:00	6.96 pH	20.36 °C	655.23 µS/cm	0.20 mg/L	14.30 NTU	-98.3 mV	26.41 ft	200.00 ml/min
4/2/2025 1:14 PM	30:56	6.96 pH	20.46 °C	723.31 µS/cm	0.19 mg/L	11.90 NTU	-86.8 mV	26.41 ft	200.00 ml/min
4/2/2025 1:19 PM	35:56	6.97 pH	20.37 °C	749.94 µS/cm	0.16 mg/L	9.63 NTU	-111.9 mV	26.41 ft	200.00 ml/min
4/2/2025 1:24 PM	40:56	6.96 pH	20.82 °C	724.58 µS/cm	0.18 mg/L	8.28 NTU	-112.9 mV	26.41 ft	200.00 ml/min
4/2/2025 1:29 PM	45:56	6.96 pH	20.67 °C	703.48 µS/cm	0.15 mg/L	7.72 NTU	-101.6 mV	26.41 ft	200.00 ml/min
4/2/2025 1:34 PM	50:56	6.96 pH	20.87 °C	714.10 µS/cm	0.15 mg/L	6.21 NTU	-101.8 mV	26.41 ft	200.00 ml/min
4/2/2025 1:39 PM	55:56	6.96 pH	20.83 °C	722.10 µS/cm	0.12 mg/L	5.52 NTU	-102.4 mV	26.41 ft	200.00 ml/min
4/2/2025 1:44 PM	01:00:56	6.96 pH	20.72 °C	726.72 µS/cm	0.11 mg/L	4.58 NTU	-102.3 mV	26.41 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-14	Grab.
HAM-AP1-FD-01	Grab.

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 4/2/2025 12:24:21 PM
Project: GP-Plant Hammond
Operator Name: Y. Wang

Location Name: PT-15 **Well Diameter: 2 in** **Casing Type: PVC** **Screen Length: 10 ft** **Top of Screen: 35.3 ft** **Total Depth: 45.3 ft** **Initial Depth to Water: 26.25 ft**	**Pump Type: Bladder** **Tubing Type: Polyethylene** **Pump Intake From TOC: 40.3 ft** **Estimated Total Volume Pumped: 8 liter** **Flow Cell Volume: 90 ml** **Final Flow Rate: 200 ml/min** **Final Draw Down: -0.02 ft**	**Instrument Used: Aqua TROLL 400** **Serial Number: 1149710**

Test Notes:
Full App. III and IV + Major Ions. Ferrous Iron: 1.2 mg/L. Total Iron: 2.0 mg/L.

Weather Conditions:
Sunny, 70 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
4/2/2025 12:24 PM	00:00	6.77 pH	19.42 °C	753.62 µS/cm	0.57 mg/L	5.86 NTU	25.0 mV	26.25 ft	200.00 ml/min
4/2/2025 12:29 PM	05:00	6.78 pH	19.59 °C	749.15 µS/cm	0.45 mg/L	4.32 NTU	59.4 mV	26.21 ft	200.00 ml/min
4/2/2025 12:34 PM	10:00	6.78 pH	19.55 °C	750.26 µS/cm	0.31 mg/L	2.66 NTU	48.8 mV	26.22 ft	200.00 ml/min
4/2/2025 12:39 PM	15:00	6.78 pH	19.54 °C	751.76 µS/cm	0.26 mg/L	3.63 NTU	49.4 mV	26.23 ft	200.00 ml/min
4/2/2025 12:44 PM	20:00	6.78 pH	19.62 °C	733.28 µS/cm	0.20 mg/L	2.76 NTU	49.3 mV	26.22 ft	200.00 ml/min
4/2/2025 12:49 PM	25:00	6.78 pH	19.53 °C	728.82 µS/cm	0.19 mg/L	1.05 NTU	52.3 mV	26.24 ft	200.00 ml/min
4/2/2025 12:54 PM	30:00	6.78 pH	19.71 °C	724.63 µS/cm	0.15 mg/L	1.57 NTU	49.8 mV	26.25 ft	200.00 ml/min
4/2/2025 12:59 PM	35:00	6.78 pH	19.65 °C	728.24 µS/cm	0.13 mg/L	1.05 NTU	48.8 mV	26.23 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-PT-15	Grab.

Created using VuSitu from In-Situ, Inc.

Calibration Forms

Site Name Plant Hammond

Field Instrumentation Calibration Form

Date 8/1/2024

Calibrated By T. Kessler

Field Conditions Clear, 75°

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatell Lamotte	968702
Turbidity Meter		

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4 490	24005593	12/24	Ins. t4
pH (SU)	4 00	24004197	12/24	↓
pH (SU)	7 00	24000085	12/24	
pH (SU)	10 00	24000085	12/24	
D O (%)	N/A	—	—	
ORP (mV)	228 0	24006903	11/24	

Calibration					
Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4.490	4490	27.15	± 10% of standard	EPA 2023
pH (SU)	4 00	4.0	27.09	± 0 1	GWMP
pH (SU)	7 00	7.0	26.99	± 0 1	GWMP
pH (SU)	10 00	10.00	27.14	± 0 1	GWMP
D O (%)	N/A	~~10.0~~ 100	26.20	± 10%	NA
ORP (mV)	228 0	228	26.59	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0	± 10% of standard	EPA 2023
	1	0.93		
	10	10.0		
	—	—		

Calibration Check					
Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4400	33.04	± 10% of standard	EPA 2023
pH (SU)	4 00	4.00	32.04	± 0 1	GWMP
pH (SU)	7 00	6.95	30.17	± 0 1	GWMP
pH (SU)	10 00	9.95	28.66	± 0 1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0.00	± 10% of standard	EPA 2023
	1	1.02		
	10	9.90		
	—	—		

Notes

~~HG00-13~~

PT-07

PT-08

PT-13

PT-141

~~PT-185~~

Site Name Hammond

Calibrated By Jacob Tracy

Field Instrumentation Calibration Form

Date 7/31/2024

Field Conditions Sunny

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	In Situ	850724
Turbidity Meter	Hach	11040075

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4.490	24003597	11/24	AIR
pH (SU)	4.00			
pH (SU)	7.00	24003597	11/24	AIR
pH (SU)	10.00	24000085	12/24	AIR
D.O. (%)	N/A			
ORP (mV)	228.0	24000603	12/24	AIR

Calibration

Time Start

Time Finish

Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4.490	4473.4	22.3	± 10% of standard	EPA 2023
pH (SU)	4.00	3.99	22.35	± 0.1	GWMP
pH (SU)	7.00	6.97	22.24	± 0.1	GWMP
pH (SU)	10.00	9.93	22.29	± 10%	NA
D.O. (%)	N/A	102.3	21.84	± 10	EPA 2023
ORP (mV)	228.0	228.7	22.22		

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0.0	± 10% of standard	EPA 2023
	1	0.92		
	10	10.05		

Calibration Check

Time Start

Time Finish

Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4.490			± 10% of standard	EPA 2023
pH (SU)	4.00			± 0.1	GWMP
pH (SU)	7.00			± 0.1	GWMP
pH (SU)	10.00			± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0.0	± 10% of standard	EPA 2023
	1	1.		
	10	10.6		

Notes

Site Name Hammond

Field Instrumentation Calibration Form

Date 08/01/24

Calibrated By Jacob Tracy

Field Conditions Clear

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	In-Situ	850724
Turbidity Meter	Lamotte	4104-2623

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4.490			
pH (SU)	4.00			
pH (SU)	7.00			
pH (SU)	10.00			
D O (%)	N/A			
ORP (mV)	228.0			

07 8/5/24

Calibration					
Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4.490	4470	22.76	± 10% of standard	EPA 2023
pH (SU)	4.00	4.02	4	± 0.1	GWMP
pH (SU)	7.00	7.03		± 0.1	GWMP
pH (SU)	10.00	10.02	22.96	± 0.1	GWMP
D O (%)	N/A		90.5	± 10%	NA
ORP (mV)	228.0	232		± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0	± 10% of standard	EPA 2023
	1	0.97		
	10	10.4		

Calibration Check					
Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4.490			± 10% of standard	EPA 2023
pH (SU)	4.00			± 0.1	GWMP
pH (SU)	7.00			± 0.1	GWMP
pH (SU)	10.00			± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0	± 10% of standard	EPA 2023
	1	1.02		
	10	10.5		

Notes

Site Name: Hammond

Field Instrumentation Calibration Form

Date: 8/5/24

Calibrated By: Elisabeth Russell

Field Conditions: Hot.

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll	1080293
Turbidity Meter	LaMotte 2020e	SN596-3819

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4.490	24005593	12/24	AR
pH (SU)	4.00	24005593	12/24	AR
pH (SU)	7.00	24004517	12/24	AR
pH (SU)	10.00	24000085	12/24	AR
D.O. (%)	N/A	—	—	AR
ORP (mV)	228.0	24006903	12/24	

Calibration					
Time Start	1500	Time Finish	1535		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4.490	~~4490~~	37.25	± 10% of standard	EPA 2023
pH (SU)	4.00	4.0	37.06	± 0.1	GWMP
pH (SU)	7.00	7.0	36.11	± 0.1	GWMP
pH (SU)	10.00	10.0	36.09	± 0.1	GWMP
D.O. (%)	N/A	100.1	~~35.02~~ 35.02	± 10%	NA
ORP (mV)	228.0	228	~~35.38~~	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.0	0.0	± 10% of standard	EPA 2023
	1.0	1.02		
	10.0	9.89		

Calibration Check					
Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4.490			± 10% of standard	EPA 2023
pH (SU)	4.00			± 0.1	GWMP
pH (SU)	7.00			± 0.1	GWMP
pH (SU)	10.00			± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)			± 10% of standard	EPA 2023

N/A

Notes:

Site Name: Hammond

Field Instrumentation Calibration Form

Date: 8/6/24

Calibrated By: Elisabeth Russell

Field Conditions: 70-90, sunny

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquaroll 900	1080293
Turbidity Meter	LaMotte 2020e	~~1080293~~ ER SN1596-3019

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24005593	12/24	AIR
pH (SU)	4.00	24003593	12/24	AIR
pH (SU)	7.00	24009517	12/24	AIR
pH (SU)	10.00	24000085	12/24	AIR
D.O. (%)	N/A	—	—	AIR
ORP (mV)	228.0	24006903	12/24	AIR

Calibration					
Time Start	730	Time Finish	800		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4490	27.34	± 10% of standard	EPA 2023
pH (SU)	4.00	4.0	27.42	± 0.1	GWMP
pH (SU)	7.00	7.0	27.93	± 0.1	GWMP
pH (SU)	10.00	10.0	28.41	± 0.1	GWMP
D.O. (%)	N/A	100%	28.38	± 10%	NA
ORP (mV)	228.0	228	28.07	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0.02	± 10% of standard	EPA 2023
	1	1.07		
	10	9.2		

Calibration Check					
Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490			± 10% of standard	EPA 2023
pH (SU)	4.00			± 0.1	GWMP
pH (SU)	7.00			± 0.1	GWMP
pH (SU)	10.00			± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)			± 10% of standard	EPA 2023

Notes: Second well unexpectedly took 3.5 hours, no mid day calibration

Site Name Hammond

Field Instrumentation Calibration Form

Date 8/7/24

Calibrated By E Russell

Field Conditions 70-90, Sunny

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 400	1080293
Turbidity Meter	Eqmotte 2020e	SN1596-3019

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24005593	12/24	AYR
pH (SU)	4 00	24003593	12/24	AYR
pH (SU)	7 00	24004517	12/24	AYR
pH (SU)	10 00	24000085	12/24	AYR
D O (%)	N/A	—	—	—
ORP (mV)	228 0	24006903	12/24	AYR

Calibration					
Time Start	800	Time Finish	835		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4490	29.11	± 10% of standard	EPA 2023
pH (SU)	4.00	4.0	29.69	± 0.1	GWMP
pH (SU)	7.00	7.0	29.71	± 0.1	GWMP
pH (SU)	10 00	10.0	29.83	± 0.1	GWMP
D O. (%)	N/A	—	29.31	± 10%	NA
ORP (mV)	228 0	228	29.34	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0.1	± 10% of standard	EPA 2023
	1	1.0		
	10	9.92		

Calibration Check					
Time Start	1300	Time Finish	1315		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4493	35.20	± 10% of standard	EPA 2023
pH (SU)	4.00	4.0	35.71	± 0.1	GWMP
pH (SU)	7.00	7.0	35.83	± 0.1	GWMP
pH (SU)	10.00	10.0	35.13	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0.13	± 10% of standard	EPA 2023
	1	1.1		
	10	9.97		

Notes

Site Name: Hammond

Field Instrumentation Calibration Form

Date: 8/8/24

Calibrated By: E. Russell

Field Conditions: 70-95, Sunny

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	YSI Pro Plus	19D101080293
Turbidity Meter	LaMotte 2020e	SN-19630194

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24005593	12/24	ATR
pH (SU)	4.00	24005593	12/24	ATR
pH (SU)	7.00	24004517	12/24	ATR
pH (SU)	10.00	24000085	12/24	ATR
D.O. (%)	N/A	—	—	—
ORP (mV)	228.0	24006903	12/24	ATR

Calibration					
Time Start: 900		Time Finish:			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4490	28.17	± 10% of standard	EPA 2023
pH (SU)	4.00	4.0	28.54	± 0.1	GWMP
pH (SU)	7.00	7.0	28.78	± 0.1	GWMP
pH (SU)	10.00	10.0	28.62	± 0.1	GWMP
D.O. (%)	N/A	100 %	28.18	± 10%	NA
ORP (mV)	228.0	228	28.87	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	-0.07	± 10% of standard	EPA 2023
	1	1.0		
	10	9.90		

Calibration Check					
Time Start: 1410		Time Finish: 1430			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4490	35.64	± 10% of standard	EPA 2023
pH (SU)	4.00	4.0	35.33	± 0.1	GWMP
pH (SU)	7.00	7.0	34.26	± 0.1	GWMP
pH (SU)	10.00	10.0	33.45	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	-0.10	± 10% of standard	EPA 2023
	1	1.07		
	10	9.98		

Notes

Site Name Plant Hammond

Field Instrumentation Calibration Form

Date 8/9/24

Calibrated By E. Russell

Field Conditions 70-80, Sun

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 700	1080293
Turbidity Meter	LaMotte 2020	1596-3019

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24005593	12/24	AIR
pH (SU)	4 00	24005593	12/24	AIR
pH (SU)	7 00	24004517	12/24	AIR
pH (SU)	10 00	24000085	12/24	AIR
D O (%)	N/A	—	—	Air
ORP (mV)	228 0	24006903	12/24	AIR

Calibration					
Time Start	805	Time Finish	825		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4490	26.50	± 10% of standard	EPA 2023
pH (SU)	4 00	4.0	26.89	± 0 1	GWMP
pH (SU)	7 00	7.0	27.98	± 0 1	GWMP
pH (SU)	10 00	10.0	27.89	± 0 1	GWMP
D O (%)	N/A	—	27.98	± 10%	NA
ORP (mV)	228 0	228	27.94	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0.0	± 10% of standard	EPA 2023
	1	1.09		
	10	9.97		

Calibration Check					
Time Start	1240	Time Finish	1257		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4490	36.2	± 10% of standard	EPA 2023
pH (SU)	4 00	4.0	35.7	± 0 1	GWMP
pH (SU)	7 00	7.0	35.05	± 0 1	GWMP
pH (SU)	10 00	10.0	35.18	± 0 1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0.02	± 10% of standard	EPA 2023
	1	1.1		
	10	9.97		

Notes

Site Name [redacted] Hammond

Calibrated By ERussell

Field Instrumentation Calibration Form

Date 8/12/24

Field Conditions 70-90, Sunny

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	1080293
Turbidity Meter	LaMotte 2020	SN1596-3019

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24005593	12/24	ASR
pH (SU)	4 00	24005593	12/24	ASR
pH (SU)	7 00	24004517	12/24	ASR
pH (SU)	10 00	24000085	12/24	ASR
D O (%)	N/A	—	—	ASR
ORP (mV)	228 0	24006903	12/24	ASR

Calibration					
Time Start 735		Time Finish 755			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4490	22.06	± 10% of standard	EPA 2023
pH (SU)	4 00	4.00	22.13	± 0 1	GWMP
pH (SU)	7 00	7.00	22.67	± 0 1	GWMP
pH (SU)	10 00	10.00	23.02	± 0 1	GWMP
D O (%)	N/A	100	22.80	± 10%	NA
ORP (mV)	228 0	228	23.08	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	.23	± 10% of standard	EPA 2023
	1	1.07		
	10	9.98		

Calibration Check					
Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490			± 10% of standard	EPA 2023
pH (SU)	4 00			± 0 1	GWMP
pH (SU)	7 00			± 0 1	GWMP
pH (SU)	10 00			± 0 1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)			± 10% of standard	EPA 2023

Notes

done before 12pm no mid day calibration N/A

Site Name: Hammond

Field Instrumentation Calibration Form

Date: 08/13/24

Calibrated By: Jacob Tracy

Field Conditions:

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	YSI Pro DSS	AFR
Turbidity Meter		

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24D05393	12/24	AFR
pH (SU)	4.00	↓	↓	
pH (SU)	7.00	24004517	12/24	AFR
pH (SU)	10.00	24000085	12/24	AFR
D.O. (%)	N/A			
ORP (mV)	228.0	24006903	12/24	AFR

Calibration					
Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4490	24.48	± 10% of standard	EPA 2023
pH (SU)	4.00	4	24.50	± 0.1	GWMP
pH (SU)	7.00	7	24.50	± 0.1	GWMP
pH (SU)	10.00	9.96	25.12	± 0.1	GWMP
D.O. (%)	N/A	108	24.87	± 10%	NA
ORP (mV)	228.0	227.2	24.97	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0	± 10% of standard	EPA 2023
	1	0.96		
	10	10.01		

Calibration Check					
Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4381	25.61	± 10% of standard	EPA 2023
pH (SU)	4.00	4.02	25.62	± 0.1	GWMP
pH (SU)	7.00	7.01	25.72	± 0.1	GWMP
pH (SU)	10.00	10.02	25.75	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0	± 10% of standard	EPA 2023
	1	0.99		
	10	10.4		

Notes:

Site Name: Hammond

Calibrated By: J. Tracy

Field Instrumentation Calibration Form

Date: 08/13/24

Field Conditions: Sunny

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	In Situ	10R0247
Turbidity Meter	Hach	

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24005393	12/24	Ato
pH (SU)	4.00			
pH (SU)	7.00	24004517	12/24	
pH (SU)	10.00	24000083	12/24	
D.O. (%)	N/A			
ORP (mV)	228.0	24006903	12/24	

Calibration					
Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4491	24.59	± 10% of standard	EPA 2023
pH (SU)	4.00	4	24.56	± 0.1	GWMP
pH (SU)	7.00	6.97	23.08	± 0.1	GWMP
pH (SU)	10.00	9.97	23.13	± 0.1	GWMP
D.O. (%)	N/A	99.4	24.59	± 10%	NA
ORP (mV)	228.0	226.3	23.17	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0	± 10% of standard	EPA 2023
	1	0.91		
	10	10.31		

Calibration Check					
Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4470	23.16	± 10% of standard	EPA 2023
pH (SU)	4.00	4.1	23.61	± 0.1	GWMP
pH (SU)	7.00	7.0	23.13	± 0.1	GWMP
pH (SU)	10.00	10.07	23.14	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0	± 10% of standard	EPA 2023
	1			
	10	9.62		

Notes:

Site Name: Hammond

Field Instrumentation Calibration Form

Date: 08/15/24

Calibrated By: J. Tracy

Field Conditions: _____

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	In-Situ	1080617
Turbidity Meter		

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24005593	12/24	
pH (SU)	4.00	↓	↓	
pH (SU)	7.00	24004517	12/24	
pH (SU)	10.00	24000085	12/24	
D.O. (%)	N/A			
ORP (mV)	228.0	24006903	12/24	

Calibration					
Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	45372	24.18	± 10% of standard	EPA 2023
pH (SU)	4.00	4.04	24.36	± 0.1	GWMP
pH (SU)	7.00	7.01	24.73	± 0.1	GWMP
pH (SU)	10.00	9.98	24.91	± 0.1	GWMP
D.O. (%)	N/A	99.06	24.3	± 10%	NA
ORP (mV)	228.0	207.5	24.63	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0	± 10% of standard	EPA 2023
	1	0.98		
	10	10.0		

Calibration Check					
Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4380	25.13	± 10% of standard	EPA 2023
pH (SU)	4.00	3.98	25.26	± 0.1	GWMP
pH (SU)	7.00	7.00	25.31	± 0.1	GWMP
pH (SU)	10.00	10.01	25.47	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0	± 10% of standard	EPA 2023
	1	0.96		
	10	10.1		

Notes:

Site Name: Plant Hammond

Field Instrumentation Calibration Form

Date: 8/15/24

Calibrated By: J. Newsome

Field Conditions: Clear, 90F

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter		10B0293
Turbidity Meter	2020	1594-3069

Calibration Standard Information

Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24005593	12/2024	AIR
pH (SU)	4.00	24005593	12/2024	AIR
pH (SU)	7.00	24004512	12/2024	AIR
pH (SU)	10.00	24000085	12/2024	AIR
D.O. (%)	N/A			
ORP (mV)	228.0	24005903	12/2024	AIR

Calibration

Time Start

Time Finish

Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4445	23.75	± 10% of standard	EPA 2023
pH (SU)	4.00	4.26	23.75	± 0.1	GWMP
pH (SU)	7.00	6.99	24.37	± 0.1	GWMP
pH (SU)	10.00	9.47	24.81	± 0.1	GWMP
D.O. (%)	N/A	101.78	24.1	± 10%	NA
ORP (mV)	228.0	~~22~~ 228.0	24.81	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0	± 10% of standard	EPA 2023
	1	1.08		
	10	10.0		

Calibration Check

Time Start

Time Finish

Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490			± 10% of standard	EPA 2023
pH (SU)	4.00			± 0.1	GWMP
pH (SU)	7.00			± 0.1	GWMP
pH (SU)	10.00			± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)			± 10% of standard	EPA 2023

JN 8/15/24

Notes:

Site Name: Hammond

Calibrated By: TH

Field Instrumentation Calibration Form

Date: 8/20/24

Field Conditions: 58-85F Sunny

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aqua troll	968202
Turbidity Meter	Lamotte 2020	4303-323

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24010943	05/2025	AIR
pH (SU)	4 00	24010945	05/2025	AIR
pH (SU)	7 00	24004517	12/2024	AIR
pH (SU)	10 00	24000685	12/2024	AIR
D O (%)	N/A			
ORP (mV)	228 0	24006903	12/2024	AIR

Calibration					
Time Start: 0845		Time Finish: 0915			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4490	26.99	± 10% of standard	EPA 2023
pH (SU)	4 00	4.00	26.01	± 0.1	GWMP
pH (SU)	7 00	7.00	25.40	± 0.1	GWMP
pH (SU)	10 00	10.00	25.23	± 0.1	GWMP
D O (%)	N/A	100	27.24	± 10%	NA
ORP (mV)	228 0	228	25.41	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0	± 10% of standard	EPA 2023
	1	0.99		
	10	10		

Calibration Check					
Time Start: 1351		Time Finish: 1410			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4490	39.29	± 10% of standard	EPA 2023
pH (SU)	4 00	4.00	39.76	± 0.1	GWMP
pH (SU)	7 00	7.00	39.00	± 0.1	GWMP
pH (SU)	10 00	10.00	38.57	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0	± 10% of standard	EPA 2023
	1	1.00		
	10	10.00		

Notes

Site Name Hammond

Field Instrumentation Calibration Form

Date 8/20/24

Calibrated By CR

Field Conditions clear

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	965586
Turbidity Meter	LaMotte 2020	4123-2633

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24003593	12/24	AIR
pH (SU)	4.00	24003593	12/24	AIR
pH (SU)	7.00	24003517	12/24	AIR
pH (SU)	10.00	24003585	12/24	AIR
D.O. (%)	N/A	—	—	AIR
ORP (mV)	228.0	24006903	12/24	AIR

Calibration					
Time Start	845	Time Finish	915		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4490	24.9	± 10% of standard	EPA 2023
pH (SU)	4.00	4.0	26.9	± 0.1	GWMP
pH (SU)	7.00	7.0	26.7	± 0.1	GWMP
pH (SU)	10.00	10.0	26.7	± 0.1	GWMP
D.O. (%)	N/A	100.1	26.5	± 10%	NA
ORP (mV)	228.0	229	26.5	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0.03	± 10% of standard	EPA 2023
	1	0.99		
	10	9.98		

Calibration Check					
Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4490	27.6	± 10% of standard	EPA 2023
pH (SU)	4.00	4.0	25.9	± 0.1	GWMP
pH (SU)	7.00	7.0	26.6	± 0.1	GWMP
pH (SU)	10.00	10.0	26.9	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0.01	± 10% of standard	EPA 2023
	1	0.89		
	10	10.1		

Notes

Site Name Hammond

Calibrated By TRISTAN

Field Instrumentation Calibration Form

Date 8/21/24

Field Conditions 65 Sunny

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aqua TROLL	968202
Turbidity Meter	LaMotte 2020e	43103-3123

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24010943	05/2025	AMR
pH (SU)	4 00	24010943	05/2025	
pH (SU)	7 00	24002517	12/2024	
pH (SU)	10 00	24000085	12/2024	
D O (%)	N/A			
ORP (mV)	228 0	24100108	12/2024	

Calibration					
Time Start 0815		Time Finish 0835			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4490	23.59	± 10% of standard	EPA 2023
pH (SU)	4 00	4.0	23.46	± 0 1	GWMP
pH (SU)	7 00	7.00	23.46	± 0 1	GWMP
pH (SU)	10 00	10.00	22.69	± 0 1	GWMP
D O (%)	N/A	100	23.23	± 10%	NA
ORP (mV)	228 0	228	22.16	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0	± 10% of standard	EPA 2023
	1	1.00		
	10	10.00		

Calibration Check					
Time Start 1258		Time Finish 1305			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4490	30.09	± 10% of standard	EPA 2023
pH (SU)	4 00	4.00	30.09	± 0 1	GWMP
pH (SU)	7 00	7.00	29.69	± 0 1	GWMP
pH (SU)	10 00	10.00	30.04	± 0 1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0	± 10% of standard	EPA 2023
	1	1		
	10	10		

Notes

Site Name Hammond

Field Instrumentation Calibration Form

Date 8/21/24

Calibrated By ER

Field Conditions clear; 70 90

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquaread 900	965586
Turbidity Meter	LaMotte 2020t	9123-2623

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4.490	24005593	12/24	AR
pH (SU)	4.00	24005593	12/24	AR
pH (SU)	7.00	24004517	12/24	AR
pH (SU)	10.00	24010085	12/24	AR
D.O. (%)	N/A			AR
ORP (mV)	228.0	24006903	12/24	AR

Calibration					
Time Start	815	Time Finish	845		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4.490	4490	21.3	± 10% of standard	EPA 2023
pH (SU)	4.00	4.0	22.54	± 0.1	GWMP
pH (SU)	7.00	7.0	23.80	± 0.1	GWMP
pH (SU)	10.00	10.0	23.04	± 0.1	GWMP
D.O. (%)	N/A		22.23	± 10%	NA
ORP (mV)	228.0	228	22.95	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0.10	± 10% of standard	EPA 2023
	1	0.91		
	10	10.27		

Calibration Check					
Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4.490			± 10% of standard	EPA 2023
pH (SU)	4.00			± 0.1	GWMP
pH (SU)	7.00			± 0.1	GWMP
pH (SU)	10.00			± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)			± 10% of standard	EPA 2023

Notes N/A - one well sampled

Site Name: Hammond

Field Instrumentation Calibration Form

Date: 09-04-24

Calibrated By: JNT

Field Conditions: Clear

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	YSI-ProDSS	18B 3553
Turbidity Meter	Lamotte	4363-3123

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4.490	24000559	12/24	A+R
pH (SU)	4.00	↓	↓	
pH (SU)	7.00	24002417	12/24	
pH (SU)	10.00	24000085	12/24	
D.O. (%)	N/A			
ORP (mV)	228.0	24000903	12/24	

Calibration					
Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4.490	4490	24.77	± 10% of standard	EPA 2023
pH (SU)	4.00	4.02	24.62	± 0.1	GWMP
pH (SU)	7.00	7	25.32	± 0.1	GWMP
pH (SU)	10.00	10	25.14	± 0.1	GWMP
D.O. (%)	N/A	102.98	25.74	± 10%	NA
ORP (mV)	228.0	223	25.33	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0	± 10% of standard	EPA 2023
	10	10.14		

Calibration Check					
Time Start 14:00		Time Finish 14:05			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4.490	4480.1	26.02	± 10% of standard	EPA 2023
pH (SU)	4.00	4.0	26.13	± 0.1	GWMP
pH (SU)	7.00	7.0	25.50	± 0.1	GWMP
pH (SU)	10.00	10.03	25.42	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0	± 10% of standard	EPA 2023
	10	9.75		

Notes:

Site Name: GP Plant Hammond

Field Instrumentation Calibration Form

Date: 9/4/24

Calibrated By: J. Newsom

Field Conditions: Clear, 75°F

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll	729023
Turbidity Meter	LaMotte 2020e	1511-4111

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24410943	05/2025	APZ
pH (SU)	4 00	"	05/2025	"
pH (SU)	7 00	24094517	12/2024	"
pH (SU)	10 00	24000085	12/2024	"
D O (%)	N/A	—	—	—
ORP (mV)	228 0	24061903	12/2024	"

Calibration					
Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4453.0	23.91	± 10% of standard	EPA 2023
pH (SU)	4 00	4.06	25.0	± 0 1	GWMP
pH (SU)	7 00	7.00	25.51	± 0 1	GWMP
pH (SU)	10 00	10.0	25.05	± 0 1	GWMP
D O (%)	N/A	100	24.94	± 10%	NA
ORP (mV)	228 0	228.0	24.99	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0	± 10% of standard	EPA 2023
	1	1		
	10	10		

Calibration Check					
Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4490.0	24.63	± 10% of standard	EPA 2023
pH (SU)	4 00	4.00	23.92	± 0 1	GWMP
pH (SU)	7 00	7.00	24.12	± 0 1	GWMP
pH (SU)	10 00	10.06	23.46	± 0 1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0	± 10% of standard	EPA 2023
	1	1		
	10	10		

Notes

Site Name: Selena Wam Plant Hammond **Field Instrumentation Calibration Form**

Date: 9/4/2024.

Calibrated By: Selena Wang

Field Conditions: Sunny, 80F

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AQUA TROLL	883567
Turbidity Meter	LaMotte 2020	4111-6122

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24003193	12/2024	AIV
pH (SU)	4.00	24005593	12/2024.	AIV
pH (SU)	7.00	24004517	12/2024.	AIV
pH (SU)	10.00	24000085	12/2024	AIV
D.O. (%)	N/A			
ORP (mV)	228.0	24006903	12/2024.	AIV

Calibration					
Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4490.	35.79	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00.	~~33.30~~ 33.26	± 0.1	GWMP
pH (SU)	7.00	7.00	31.30.	± 0.1	GWMP
pH (SU)	10.00	10.00	30.83	± 0.1	GWMP
D.O. (%)	N/A	100%.	32.26.	± 10%	NA
ORP (mV)	228.0	228.0	31.58	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0	± 10% of standard	EPA 2023
	1	1		
	10	10		

Calibration Check					
Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490			± 10% of standard	EPA 2023
pH (SU)	4.00			± 0.1	GWMP
pH (SU)	7.00			± 0.1	GWMP
pH (SU)	10.00			± 0.1	GWMP

	~~Standard~~	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)			± 10% of standard	EPA 2023

Notes:

Site Name: Hammond

Field Instrumentation Calibration Form

Date: 04-05-24

Calibrated By: JNT

Field Conditions: Clear

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	YSI-556 MPS	23B100553
Turbidity Meter	Hach 2100Q	4363-3123

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24005543	12/24	AEM
pH (SU)	4.00	~~24003517~~	~~12/24~~	
pH (SU)	7.00	24004537	12/24	
pH (SU)	10.00	24000085	12/24	
D.O. (%)	N/A			
ORP (mV)	228.0	24006903	12/24	

Calibration					
Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4495	25.38	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	25.51	± 0.1	GWMP
pH (SU)	7.00	7.00	25.55	± 0.1	GWMP
pH (SU)	10.00	10.00	25.69	± 0.1	GWMP
D.O. (%)	N/A	100	24.45	± 10%	NA
ORP (mV)	228.0	228	25.61	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0	± 10% of standard	EPA 2023
		0.94		
	10	10.1		

Calibration Check					
Time Start	12:00	Time Finish	12:05		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4482	Missed	± 10% of standard	EPA 2023
pH (SU)	4.00	4.0		± 0.1	GWMP
pH (SU)	7.00	7.01		± 0.1	GWMP
pH (SU)	10.00	10.00		± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0.01	± 10% of standard	EPA 2023
	1	0.98		
	10	10.2		

Notes:

Site Name Plant Hammond

Field Instrumentation Calibration Form

Date 9/5/24

Calibrated By J Newsom

Field Conditions clear

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll	845593
Turbidity Meter	La Motte 2020we	1611411

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24005593	12/2024	YSI
pH (SU)	4 00	"	"	YSI
pH (SU)	7 00	24004597	12/2024	YSI
pH (SU)	10 00	24000685	12/2024	YSI
D O (%)	N/A			
ORP (mV)	228 0	24006903	12/2024	YSI

Calibration					
Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4496	24.19	± 10% of standard	EPA 2023
pH (SU)	4.00	4.01	24.97	± 0.1	GWMP
pH (SU)	7 00	7.00	25.49	± 0.1	GWMP
pH (SU)	10 00	10.00	24.05	± 0.1	GWMP
D O (%)	N/A	100	22.64	± 10%	NA
ORP (mV)	228 0	228.0	25.59	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0	± 10% of standard	EPA 2023
	1	1		
	10	10		

Calibration Check					
Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4490	24.31	± 10% of standard	EPA 2023
pH (SU)	4 00	4.06	24.31	± 0.1	GWMP
pH (SU)	7 00	7.06	24.91	± 0.1	GWMP
pH (SU)	10 00	10.00	24.82	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0	± 10% of standard	EPA 2023
	1	1		
	10	10		

Notes

Site Name: Plant Hammond

Field Instrumentation Calibration Form

Date: 9-24-24

Calibrated By: ZW

Field Conditions: Cloudy, 75°F

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	~~La Motte Aquatic~~	1120055
Turbidity Meter	La Motte, 2020i	4125-2623

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	4,490	24005543	12/2024	AIR
pH (SU)	4.00	24005593	12/2024	AIR
pH (SU)	7.00			AIR
pH (SU)	10.00			AIR
D.O. (%)	N/A			AIR
ORP (mV)	228.0			AIR

Calibration					
Time Start 0854		**Time Finish** 0934			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490	4490	24.20	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	24.31	± 0.1	GWMP
pH (SU)	7.00	7.00	24.33	± 0.1	GWMP
pH (SU)	10.00	10.00	24.43	± 0.1	GWMP
D.O. (%)	N/A	100%	22.13	± 10%	NA
ORP (mV)	228.0	228.0	24.24	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0	0	± 10% of standard	EPA 2023
	1	1		
	10	10		
	—	—		

Calibration Check					
Time Start —		**Time Finish** —			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490	—	—	± 10% of standard	EPA 2023
pH (SU)	4.00	—	—	± 0.1	GWMP
pH (SU)	7.00	—	—	± 0.1	GWMP
pH (SU)	10.00	—	—	± 0.1	GWMP

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	—	—	± 10% of standard	EPA 2023
	—	—		
	—	—		
	—	—		

Notes

Site Name: Hammond

Calibrated By: JNT

Field Instrumentation Calibration Form

Date: 09/24/24

Field Conditions: Cloudy

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	In Situ	108 3822
Turbidity Meter	LaMotte	4121-2623

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24005593	12/24	AIR
pH (SU)	4.00	↓	↓	AIR
pH (SU)	7.00	24004517	12/24	AIR
pH (SU)	10.00	24005083	12/24	AIR
D.O. (%)	N/A	—	—	AIR
ORP (mV)	228.0	24006903	12/24	AIR

Calibration					
Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4490	26.41	± 10% of standard	EPA 2023
pH (SU)	4.00	4.0	26.44	± 0.1	GWMP
pH (SU)	7.00	7.0	26.54	± 0.1	GWMP
pH (SU)	10.00	10	26.82	± 0.1	GWMP
D.O. (%)	N/A	100	—	± 10%	NA
ORP (mV)	228.0	228	26.97	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0	± 10% of standard	EPA 2023
	10	10.1		
	—	—		

Calibration Check					
Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4490	—	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	—	± 0.1	GWMP
pH (SU)	7.00	7.00	—	± 0.1	GWMP
pH (SU)	10.00	10.00	—	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	—	—	± 10% of standard	EPA 2023
	—	—		
	—	—		
	—	—		

Notes:

Site Name: Plant Hammond

Field Instrumentation Calibration Form

Date: 9-25-24

Calibrated By: Zain W.

Field Conditions: Cloudy, 75°F

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aqua Troll 400	1120055
Turbidity Meter	LaMotte 2020e	4123-2623

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	4,490	24005593	12/2024	AIR
pH (SU)	4.00	24005593	12/2024	AIR
pH (SU)	7.00			AIR
pH (SU)	10.00			AIR
D.O. (%)	N/A			AIR
ORP (mV)	228.0			AIR

Calibration					
Time Start 0735		**Time Finish** 0803			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490	4490	24.16	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	24.41	± 0.1	GWMP
pH (SU)	7.00	7.00	24.83	± 0.1	GWMP
pH (SU)	10.00	10.00	25.14	± 0.1	GWMP
D.O. (%)	N/A	100%	22.27	± 10%	NA
ORP (mV)	228.0	228.0	25.06	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0	0	± 10% of standard	EPA 2023
	1	1		
	10	10		
	—	—		

Calibration Check					
Time Start —		**Time Finish** —			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490	—	—	± 10% of standard	EPA 2023
pH (SU)	4.00	—	—	± 0.1	GWMP
pH (SU)	7.00	—	—	± 0.1	GWMP
pH (SU)	10.00	—	—	± 0.1	GWMP

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	—	—	± 10% of standard	EPA 2023
	—	—		
	—	—		
	—	—		

Notes:

Site Name: Hammond

Calibrated By: JNT

Field Instrumentation Calibration Form

Date: 09/25/25

Field Conditions: Cloudy, 80 F

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	In-Situ	—
Turbidity Meter	Hanna	—

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24003593	12/24	AIR
pH (SU)	4.00	↓	↓	AIR
pH (SU)	7.00	24004517	12/24	AIR
pH (SU)	10.00	24008315	12/24	AIR
D.O. (%)	N/A	—	—	AIR
ORP (mV)	228.0	24006903	27.04	AIR

Calibration					
Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4490	—	± 10% of standard	EPA 2023
pH (SU)	4.00	4	27.03	± 0.1	GWMP
pH (SU)	7.00	7	27.74	± 0.1	GWMP
pH (SU)	10.00	10	28.02	± 0.1	GWMP
D.O. (%)	N/A	100	27.02	± 10%	NA
ORP (mV)	228.0	228	28.04	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0	± 10% of standard	EPA 2023
	1.0	1.00		
	10	10.8		
	—	—		

Calibration Check					
Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4490	—	± 10% of standard	EPA 2023
pH (SU)	4.00	4	—	± 0.1	GWMP
pH (SU)	7.00	7	—	± 0.1	GWMP
pH (SU)	10.00	10	—	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0	± 10% of standard	EPA 2023
	1.0	1.02		
	10	10.1		
	—	—		

Notes:

Site Name: Hammond

Calibrated By: ER

Field Instrumentation Calibration Form

Date: 10/1/24

Field Conditions: 75-85, Sun

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	YSI 1400	883561
Turbidity Meter	2020 e	4126-2613

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490			
pH (SU)	4.00	24010943	05/25	ATR
pH (SU)	7.00	24004517	12/24	ATR
pH (SU)	10.00	24000085	12/24	ATR
D.O. (%)	N/A	—	—	ATR
ORP (mV)	228.0	24006903	12/24	ATR

Calibration					
Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4490	21.21	± 10% of standard	EPA 2023
pH (SU)	4.00	4.0	21.51	± 0.1	GWMP
pH (SU)	7.00	7.0	21.67	± 0.1	GWMP
pH (SU)	10.00	10.0	22.43	± 0.1	GWMP
D.O. (%)	N/A	100	22.73	± 10%	NA
ORP (mV)	228.0	228	22.43	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0	± 10% of standard	EPA 2023
	1	1		
	10	10		

Calibration Check					
Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4490	21.21	± 10% of standard	EPA 2023
pH (SU)	4.00	4.0	21.35	± 0.1	GWMP
pH (SU)	7.00	7.0	21.30	± 0.1	GWMP
pH (SU)	10.00	10.0	21.40	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0	± 10% of standard	EPA 2023
	1	1		
	10	10		

Notes:

Site Name: Plant Hammond

Field Instrumentation Calibration Form

Date: 10-1-24

Calibrated By: Zain W.

Field Conditions: Cloudy, 75°F

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aqua Troll 400	883530
Turbidity Meter	La Motte, 2020e	4663-3123

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	4,490	24010943	05/2025	AIR
pH (SU)	4.00	24010943	05/2025	AIR
pH (SU)	7.00	2400617	12/2024	AIR
pH (SU)	10.00	24000085	12/2024	AIR
D.O. (%)	N/A	—	—	AIR
ORP (mV)	228.0	24011792	06/2025	AIR

Calibration					
Time Start 0730		**Time Finish** 0800			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490	4490	21.90	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	22.27	± 0.1	GWMP
pH (SU)	7.00	7.00	22.54	± 0.1	GWMP
pH (SU)	10.00	10.00	22.83	± 0.1	GWMP
D.O. (%)	N/A	100%	21.17	± 10%	NA
ORP (mV)	228.0	228.0	228.0@22.5°C	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0	0	± 10% of standard	EPA 2023
	1	1		
	10	10		
	—	—		

Calibration Check					
Time Start —		**Time Finish** —			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490	—	—	± 10% of standard	EPA 2023
pH (SU)	4.00	—	—	± 0.1	GWMP
pH (SU)	7.00	—	—	± 0.1	GWMP
pH (SU)	10.00	—	—	± 0.1	GWMP

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	—	—	± 10% of standard	EPA 2023
	—	—		
	—	—		
	—	—		

Notes:

Site Name: Hammond

Field Instrumentation Calibration Form

Date: 10/2/24

Calibrated By: GR

Field Conditions: 75-80

Instrument	Manufacturer/ Model	Serial Number
Water Quality Meter	Aqua TROLL 400	853561
Turbidity Meter	2020e	4126 2623

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24010943	5/24	YSI
pH (SU)	4.00	24011943	5/24	
pH (SU)	7.00	24004513	12/24	
pH (SU)	10.00	24009085	12/24	
D.O. (%)	N/A			
ORP (mV)	228.0	24006903	12/24	

Calibration					
Time Start	800	Time Finish	830		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4490	21.01	± 10% of standard	EPA 2023
pH (SU)	4.00	4.0	21.16	± 0.1	GWMP
pH (SU)	7.00	7.0	21.95	± 0.1	GWMP
pH (SU)	10.00	10.0	22.65	± 0.1	GWMP
D.O. (%)	N/A	100	22.90	± 10%	NA
ORP (mV)	228.0	228	22.54	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0	± 10% of standard	EPA 2023
	1	1		
	10	10		

Calibration Check					
Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490			± 10% of standard	EPA 2023
pH (SU)	4.00			± 0.1	GWMP
pH (SU)	7.00			± 0.1	GWMP
pH (SU)	10.00			± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)			± 10% of standard	EPA 2023

N/A

Notes:

Site Name: Plant Hammond

Field Instrumentation Calibration Form

Date: 10-2-24

Calibrated By: Zain W.

Field Conditions: Clear 70°F

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	883550
Turbidity Meter	LaMotte 2020e	4663-3173

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24010943	05/2025	AIR
pH (SU)	4.00	24010943	05/2025	AIR
pH (SU)	7.00	24004517	12/2024	AIR
pH (SU)	10.00	24000085	12/2024	AIR
D.O. (%)	N/A	—	—	AIR
ORP (mV)	228.0	24011772	06/2025	AIR

Calibration					
Time Start 0845		Time Finish 0900			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4490	22.60	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	22.68	± 0.1	GWMP
pH (SU)	7.00	7.00	22.85	± 0.1	GWMP
pH (SU)	10.00	10.00	23.08	± 0.1	GWMP
D.O. (%)	N/A	105%	22.22	± 10%	NA
ORP (mV)	228.0	228.0	22.85	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0	± 10% of standard	EPA 2023
	1	1		
	10	10		
	—	—		

Calibration Check					
Time Start —		Time Finish —			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	—	—	± 10% of standard	EPA 2023
pH (SU)	4.00	—	—	± 0.1	GWMP
pH (SU)	7.00	—	—	± 0.1	GWMP
pH (SU)	10.00	—	—	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	—	—	± 10% of standard	EPA 2023
	—	—		
	—	—		
	—	—		

Notes:

Site Name: Hammond

Calibrated By: ER

Field Instrumentation Calibration Form

Date: 10/8/24

Field Conditions: 70-80, sun

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 400	968202
Turbidity Meter	LaMotte 2020	4123-2623

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24010943	5/25	YSI
pH (SU)	4.00	24010943	5/24	YSI
pH (SU)	7.00	24004517	12/24	YSI
pH (SU)	10.00	24000085	12/24	YSI
D.O. (%)	N/A	—	—	YSI
ORP (mV)	228.0	24011792	6/25	YSI

Calibration					
Time Start 930		Time Finish 10			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4490	22.56	± 10% of standard	EPA 2023
pH (SU)	4.00	4.0	23.06	± 0.1	GWMP
pH (SU)	7.00	7.0	23.52	± 0.1	GWMP
pH (SU)	10.00	10	24.11	± 0.1	GWMP
D.O. (%)	N/A	100	25.53	± 10%	NA
ORP (mV)	228.0	228	24.22	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0.0	± 10% of standard	EPA 2023
	1	0.91		
	10	10.9		

Calibration Check					
Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490			± 10% of standard	EPA 2023
pH (SU)	4.00			± 0.1	GWMP
pH (SU)	7.00			± 0.1	GWMP
pH (SU)	10.00			± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)			± 10% of standard	EPA 2023

Notes:

N/A 22 wells

Site Name: Plant Hammond

Field Instrumentation Calibration Form

Date: 10/8/24

Calibrated By: Zain W.

Field Conditions: Clear 70°F

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 40	1000302
Turbidity Meter	La Motte 2020e	

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24010943	05/2025	AIR
pH (SU)	4.00	24010943	05/2025	AIR
pH (SU)	7.00	24004519	12/2024	AIR
pH (SU)	10.00	24000085	12/2024	AIR
D.O. (%)	N/A	—	—	AIR
ORP (mV)	228.0	24006903	12/2024	AIR

Calibration					
Time Start 0940		Time Finish 1013			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4490	23.20	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	23.54	± 0.1	GWMP
pH (SU)	7.00	7.00	23.90	± 0.1	GWMP
pH (SU)	10.00	10.00	24.06	± 0.1	GWMP
D.O. (%)	N/A	100%	22.49	± 10%	NA
ORP (mV)	228.0	228.0	23.86	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0	± 10% of standard	EPA 2023
	1	1		
	10	10		
	—	—		

Calibration Check					
Time Start —		Time Finish —			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	—	—	± 10% of standard	EPA 2023
pH (SU)	4.00	—	—	± 0.1	GWMP
pH (SU)	7.00	—	—	± 0.1	GWMP
pH (SU)	10.00	—	—	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	—	—	± 10% of standard	EPA 2023
	—	—		
	—	—		
	—	—		

Notes:

Site Name: Hammond

Calibrated By: E. Russell

Field Instrumentation Calibration Form

Date: 10/9/24

Field Conditions: 70-80 Sun

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquaread 1900	968202
Turbidity Meter	LaMotte 2020	4123-2623

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24010943	05/25	AIR
pH (SU)	4.00	24010943	05/25	AIR
pH (SU)	7.00	24004517	12/24	AIR
pH (SU)	10.00	24000083	12/24	
D.O. (%)	N/A	~~24~~	—	AIR
ORP (mV)	228.0	24011792		

Calibration					
Time Start 817			Time Finish 840		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4490	23.91	± 10% of standard	EPA 2023
pH (SU)	4.00	4.0	24.19	± 0.1	GWMP
pH (SU)	7.00	7.0	24.62	± 0.1	GWMP
pH (SU)	10.00	10.0	24.68	± 0.1	GWMP
D.O. (%)	N/A	100	24.77	± 10%	NA
ORP (mV)	228.0	229	24.52	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0.	± 10% of standard	EPA 2023
	1	0.7		
	10	10.9		

Calibration Check					
Time Start			Time Finish		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490			± 10% of standard	EPA 2023
pH (SU)	4.00			± 0.1	GWMP
pH (SU)	7.00			± 0.1	GWMP
pH (SU)	10.00			± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)			± 10% of standard	EPA 2023

Notes:

N/A

72 weeks

Site Name: Plant Hammond

Field Instrumentation Calibration Form

Date: 10-9-24

Calibrated By: Zain W.

Field Conditions: Clear, 70°F

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aqua Troll 400	1080302
Turbidity Meter	La Motte 2020e	1571-3019

Calibration Standard Information

Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24010943	05/2025	AIR
pH (SU)	4.00	24010943	05/2025	AIR
pH (SU)	7.00	24007517	12/2024	AIR
pH (SU)	10.00	24000085	12/2024	AIR
D.O. (%)	N/A	—	—	AIR
ORP (mV)	228.0	24006903	12/2024	AIR

Calibration

Time Start 0745 Time Finish 0817

Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4490	20.92	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	21.00	± 0.1	GWMP
pH (SU)	7.00	7.00	20.99	± 0.1	GWMP
pH (SU)	10.00	10.00	21.46	± 0.1	GWMP
D.O. (%)	N/A	100%	21.42	± 10%	NA
ORP (mV)	228.0	228.0	21.57	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0	± 10% of standard	EPA 2023
	1	1		
	10	10		
	—	—		

Calibration Check

Time Start Time Finish

Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	—	—	± 10% of standard	EPA 2023
pH (SU)	4.00	—	—	± 0.1	GWMP
pH (SU)	7.00	—	—	± 0.1	GWMP
pH (SU)	10.00	—	—	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	—	—	± 10% of standard	EPA 2023
	—	—		
	—	—		
	—	—		

Notes:

Site Name: Plant Hammond

Field Instrumentation Calibration Form

Date: 10/16/24

Calibrated By: J. Newsome

Field Conditions: Cloudy 40F

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll	843285
Turbidity Meter	LaMotte 2020e	4126-2629

Calibration Standard Information

Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24005593	12/2024	YK
pH (SU)	4.00	"	"	"
pH (SU)	7.00	24004517	12/2024	YK
pH (SU)	10.00	24010085	12/2024	AIR
D.O. (%)	N/A			
ORP (mV)	228.0	~~2330~~ 24006903	12/2024	YK

Calibration

Time Start: Time Finish:

Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4493.4	12.42	± 10% of standard	EPA 2023
pH (SU)	4.00	4.20	12.70	± 0.1	GWMP
pH (SU)	7.00	7.06	13.57	± 0.1	GWMP
pH (SU)	10.00	10.11	13.71	± 0.1	GWMP
D.O. (%)	N/A	96.4	14.51	± 10%	NA
ORP (mV)	228.0	236.3	13.61	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0.0	± 10% of standard	EPA 2023
	1	1.01		
	10	10.0		

Calibration Check

Time Start: Time Finish:

Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
~~Specific Conductance (µS/cm)~~	4,490			± 10% of standard	EPA 2023
pH (SU)	4.00			± 0.1	GWMP
pH (SU)	7.00			± 0.1	GWMP
pH (SU)	10.00			± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)			± 10% of standard	EPA 2023

JN 10/16/24

Notes:

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Site Name: Plant Hammond

Field Instrumentation Calibration Form

Date: 10/15/24

Calibrated By: J. Newsome

Field Conditions: 43F, Cloudy

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll	843285
Turbidity Meter	LaMotte 2020e	41'24-2023

Calibration Standard Information

Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24005593	12/2024	AIR
pH (SU)	4.00	"	"	"
pH (SU)	7.00	24004517	12/2024	"
pH (SU)	10.00	24005593	12/2024	"
D.O. (%)	N/A			
ORP (mV)	228.0	24004903	12/2024	

Calibration

Time Start: 810 Time Finish:

Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4490	18.91	± 10% of standard	EPA 2023
pH (SU)	4.00	3.94	19.04	± 0.1	GWMP
pH (SU)	7.00	7.09	18.47	± 0.1	GWMP
pH (SU)	10.00	10.07	18.55	± 0.1	GWMP
D.O. (%)	N/A	96.4	14.69	± 10%	NA
ORP (mV)	228.0	223.3	18.19	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0	± 10% of standard	EPA 2023
	1	1		
	10	10		

Calibration Check

Time Start: Time Finish:

Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490			± 10% of standard	EPA 2023
pH (SU)	4.00			± 0.1	GWMP
pH (SU)	7.00			± 0.1	GWMP
pH (SU)	10.00			± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)			± 10% of standard	EPA 2023

JN 10/15/24

Notes:

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Site Name: GP Plant Hammond | **Field Instrumentation Calibration Form** | Date: 10/15/2024

Calibrated By: A Tomlinson | Field Conditions: 73°F, cloudy

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aqua TROLL	843593
Turbidity Meter	LaMotte 2020we	1511 - 411

Calibration Standard Information

Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24005593	12/2024	AMTOCAL
pH (SU)	4.00	↓	↓	↓
pH (SU)	7.00	24003597	11/2024	ATP
pH (SU)	10.00	24000085	12/2024	
D.O. (%)	N/A	N/A	~~11/2024~~	
ORP (mV)	228.0	24006903	11/2024	

Calibration

Time Start | Time Finish

Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4490	18.81	± 10% of standard	EPA 2023
pH (SU)	4.00	4.10 ~~3.96~~ (11)	16.67	± 0.1	GWMP
pH (SU)	7.00	7.05	16.74	± 0.1	GWMP
pH (SU)	10.00	10.03	16.165	± 0.1	GWMP
D.O. (%)	N/A	99.0 %	16.098	± 10%	NA
ORP (mV)	228.0	237.7	16.56	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.0	0.0	± 10% of standard	EPA 2023
	10.00	10.01		
	1.00	1.05		

Calibration Check

~~Time Start~~ | Time Finish

Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490			± 10% of standard	EPA 2023
pH (SU)	4.00			± 0.1	GWMP
pH (SU)	7.00			± 0.1	GWMP
pH (SU)	10.00			± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)			± 10% of standard	EPA 2023

XPT 10/15/2024

Notes:

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Site Name: GP Plant Hammond

Field Instrumentation Calibration Form

Date: 10/16/2024

Calibrated By: A. Tomlinson

Field Conditions: 38°F, clear

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aqua TROLL	843593
Turbidity Meter	LaMotte 2020we	15II-411

Calibration Standard Information

Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24005593	12/2024	AMADCAL AIR
pH (SU)	4.00	↓	↓	↓
pH (SU)	7.00	24003597	11/2024	AIR
pH (SU)	10.00	24000085	12/2024	
D.O. (%)	N/A	N/A		
ORP (mV)	228.0	24006903	11/2024	

Calibration

Time Start: Time Finish:

Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C) AJ	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4,490	~~13.83~~ ~~13.83~~	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	AJ 13.99 12.96	± 0.1	GWMP
pH (SU)	7.00	7.04	14.04	± 0.1	GWMP
pH (SU)	10.00	10.11	14.43	± 0.1	GWMP
D.O. (%)	N/A	101.19	14.93	± 10%	NA
ORP (mV)	228.0	212.7	14.37	± 10	EPA 2023

Temp 12.

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0.0	0.00	± 10% of standard	EPA 2023
	1	0.96		
	10	9.15		

Calibration Check

Time Start: Time Finish:

Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490			± 10% of standard	EPA 2023
pH (SU)	4.00			± 0.1	GWMP
pH (SU)	7.00			± 0.1	GWMP
pH (SU)	10.00			± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)			± 10% of standard	EPA 2023

AJ 10/16/2024

Notes:

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Site Name: Hammond AP-1 **Field Instrumentation Calibration Form**

Date: 11/4/24

Calibrated By: TH

Field Conditions: Cloudy 60°F

Instrument	Manufacturer/ Model	Serial Number
Water Quality Meter	Aqua Troll 400	950112
Turbidity Meter	Lamotte 2020wi	SN F5916 - 3019

Calibration Standard Information

Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24010943	05/25	"
pH (SU)	4.00	"	"	"
pH (SU)	7.00	24008587	06/25	AMI
pH (SU)	10.00	24004996	06/25	"
D.O. (%)	N/A			↓
ORP (mV)	228.0	24011792	06/25	↓

Calibration

Time Start 0850 Time Finish 0913

Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	—	—	± 10% of standard	EPA 2023
pH (SU)	4.00	—	—	± 0.1	GWMP
pH (SU)	7.00	—	—	± 0.1	GWMP
pH (SU)	10.00	—	—	± 0.1	GWMP
D.O. (%)	N/A	100	17.7	± 10%	NA
ORP (mV)	228.0	+228	17.80	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0	± 10% of standard	EPA 2023
	1	1.10		
	10	9.96		
	—	—		

Calibration Check

Time Start — Time Finish —

Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4490	18.54	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	18.45	± 0.1	GWMP
pH (SU)	7.00	7.00	17.91	± 0.1	GWMP
pH (SU)	10.00	10.00	17.82	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	—	—	± 10% of standard	EPA 2023
	—	—		
	—	—		
	—	—		

Notes:

Site Name: Plant Hammond

Calibrated By: Zain Webb

Field Instrumentation Calibration Form

Date: 11-4-24

Field Conditions: Cloudy, 70°F

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	989630
Turbidity Meter	LaMotte 2020+	421-2623

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24010943	05/2025	AIR
pH (SU)	4.00	24010943	05/2025	AIR
pH (SU)	7.00	24008587	06/2025	AIR
pH (SU)	10.00	24004996	06/2025	AIR
D.O. (%)	N/A	—	—	—
ORP (mV)	228.0	24011792	06/2025	AIR

Calibration					
Time Start 0927		Time Finish 0951			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4490	18.92	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	18.98	± 0.1	GWMP
pH (SU)	7.00	7.00	19.01	± 0.1	GWMP
pH (SU)	10.00	10.00	18.96	± 0.1	GWMP
D.O. (%)	N/A	100%	19.50	± 10%	NA
ORP (mV)	228.0	228.0	18.94	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0	± 10% of standard	EPA 2023
	1	1.00		
	10	10.00		
	—	—		

Calibration Check					
Time Start —		Time Finish —			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	—	—	± 10% of standard	EPA 2023
pH (SU)	4.00	—	—	± 0.1	GWMP
pH (SU)	7.00	—	—	± 0.1	GWMP
pH (SU)	10.00	—	—	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	—	—	± 10% of standard	EPA 2023
	—	—		
	—	—		
	—	—		

Notes:

Site Name: Hammond

Calibrated By: TH

Field Instrumentation Calibration Form

Date: 11/5/24

Field Conditions: 63°F, cloudy

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	980712
Turbidity Meter	LaMotte 2020e	1596-3019

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24010943	05/2025	ATP
pH (SU)	4.00	24010943	05/2025	
pH (SU)	7.00	24008589	06/2025	
pH (SU)	10.00	24004996	06/2025	
D.O. (%)	N/A	—	—	
ORP (mV)	228.0	24011792	06/2025	

Calibration					
Time Start 0735		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4490	18.109	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	18.65	± 0.1	GWMP
pH (SU)	7.00	7.00	18.100	± 0.1	GWMP
pH (SU)	10.00	10.00	18.52	± 0.1	GWMP
D.O. (%)	N/A	101	18.120	± 10%	NA
ORP (mV)	228.0	228	18.52	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0	± 10% of standard	EPA 2023
	1	1.00		
	10	10		
	—	—		

Calibration Check					
Time Start —		Time Finish —			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	—	—	± 10% of standard	EPA 2023
pH (SU)	4.00	—	—	± 0.1	GWMP
pH (SU)	7.00	—	—	± 0.1	GWMP
pH (SU)	10.00	—	—	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	—	—	± 10% of standard	EPA 2023
	—	—		
	—	—		
	—	—		

Notes:

Site Name: Plant Hammond

Field Instrumentation Calibration Form

Date: 11-5-24

Calibrated By: Zain W.

Field Conditions: Cloudy, 80°F

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	989630
Turbidity Meter	LaMotte 2008	4121-2623

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	4,490	24010943	05/2025	AIR
pH (SU)	4.00	24010943	05/2025	AIR
pH (SU)	7.00	24008587	06/2025	AIR
pH (SU)	10.00	24004996	06/2025	AIR
D.O. (%)	N/A	—	—	—
ORP (mV)	228.0	24011792	06/2025	AIR

Calibration					
Time Start 0735		**Time Finish** 0759			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490	4490	19.63	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	19.75	± 0.1	GWMP
pH (SU)	7.00	7.00	20.12	± 0.1	GWMP
pH (SU)	10.00	10.00	20.43	± 0.1	GWMP
D.O. (%)	N/A	100%	20.65	± 10%	NA
ORP (mV)	228.0	228.0	20.62	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0	0	± 10% of standard	EPA 2023
	1	1		
	10	10		
	—	—		

Calibration Check					
Time Start —		**Time Finish** —			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490	—	—	± 10% of standard	EPA 2023
pH (SU)	4.00	—	—	± 0.1	GWMP
pH (SU)	7.00	—	—	± 0.1	GWMP
pH (SU)	10.00	—	—	± 0.1	GWMP

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	—	—	± 10% of standard	EPA 2023
	—	—		
	—	—		
	—	—		

Notes:

ZW

Site Name: Plant Hammond

Field Instrumentation Calibration Form

Date: 12-2-24

Calibrated By: Zain W.

Field Conditions: Clear, 30°F

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aqua Troll 400	1170065
Turbidity Meter	LaMotte 2020we	

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	4,490	24071026	05/2025	AIR
pH (SU)	4.00	24010943	05/2025	AIR
pH (SU)	7.00	24008587	06/2025	AIR
pH (SU)	10.00	24004996	06/2025	AIR
D.O. (%)	N/A	—	—	—
ORP (mV)	228.0	24011792	06/2025	AIR

Calibration					
Time Start 0725		**Time Finish** 0751			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490	4490	12.32	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	12.51	± 0.1	GWMP
pH (SU)	7.00	7.00	12.88	± 0.1	GWMP
pH (SU)	10.00	10.00	13.34	± 0.1	GWMP
D.O. (%)	N/A	100.2	15.00	± 10%	NA
ORP (mV)	228.0	228.0	13.43	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0	0	± 10% of standard	EPA 2023
	1	1		
	10	10		
	—	—		

Calibration Check					
Time Start		**Time Finish**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490			± 10% of standard	EPA 2023
pH (SU)	4.00			± 0.1	GWMP
pH (SU)	7.00			± 0.1	GWMP
pH (SU)	10.00			± 0.1	GWMP

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)			± 10% of standard	EPA 2023

Notes:

Site Name: Plant Hammond **Field Instrumentation Calibration Form** Date: 12/02/2024

Calibrated By: Jacob Tracy Field Conditions: Sunny, Clear

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	In-situ	1170046
Turbidity Meter	Lamotte	

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24010943	05/2025	AIR
pH (SU)	4.00	24010943	05/2025	
pH (SU)	7.00	24005587	06/2025	
pH (SU)	10.00	24004996	06/2025	
D.O. (%)	N/A			
ORP (mV)	228.0	24011742	06/2025	

Calibration					
Time Start 11:00		Time Finish 11:30			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4490	6.69	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	6.73	± 0.1	GWMP
pH (SU)	7.00	7.00	7.84	± 0.1	GWMP
pH (SU)	10.00	10.00	8.38	± 0.1	GWMP
D.O. (%)	N/A	100	8.76	± 10%	NA
ORP (mV)	228.0	228.0	8.37	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0	± 10% of standard	EPA 2023
	1	1.03		
	10	10.2		

Calibration Check					
Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490			± 10% of standard	EPA 2023
pH (SU)	4.00			± 0.1	GWMP
pH (SU)	7.00			± 0.1	GWMP
pH (SU)	10.00			± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)			± 10% of standard	EPA 2023

Notes:

Site Name: Plant Hammond

Field Instrumentation Calibration Form

Date: 12/03/24

Calibrated By: Jacob Irby

Field Conditions: Sunny, Clear

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	In-Situ	~~1170076~~ 1080307 AIR brought replacement sensor
Turbidity Meter	Lamotte	

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	4,490	24010943	05/2025	AIR
pH (SU)	4.00	24010943	05/2025	
pH (SU)	7.00	24010587	06/2025	
pH (SU)	10.00	24004496	06/2025	
D.O. (%)	N/A			
ORP (mV)	228.0	24011792	06/2025	

Calibration					
Time Start ~~10:00~~ 11:45		**Time Finish** 12:20			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490	4493	8.73	± 10% of standard	EPA 2023
pH (SU)	4.00	4.04	9.75	± 0.1	GWMP
pH (SU)	7.00	7.00	9.48	± 0.1	GWMP
pH (SU)	10.00	10.02	10.08	± 0.1	GWMP
D.O. (%)	N/A	100.0	12.22	± 10%	NA
ORP (mV)	228.0	228	10.42	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0	0.02	± 10% of standard	EPA 2023
	1	1.02		
	10	10.8		

Calibration Check					
Time Start		**Time Finish**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490			± 10% of standard	EPA 2023
pH (SU)	4.00			± 0.1	GWMP
pH (SU)	7.00			± 0.1	GWMP
pH (SU)	10.00			± 0.1	GWMP

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)			± 10% of standard	EPA 2023

Notes:

Site Name: Plant Hammond

Field Instrumentation Calibration Form

Date: 12/3/24

Calibrated By: Zain W.

Field Conditions: Clear, 30°F

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 600	1170065
Turbidity Meter	La Motte 2020we	

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24010943	05/2025	AIR
pH (SU)	4.00	24010943	05/2025	AIR
pH (SU)	7.00	24008587	06/2025	AIR
pH (SU)	10.00	24004796	06/2025	AIR
D.O. (%)	N/A	—	—	—
ORP (mV)	228.0	24011792	06/2025	AIR

Calibration					
Time Start 0702		Time Finish 0723			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4490	6.69	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	6.73	± 0.1	GWMP
pH (SU)	7.00	7.00	7.84	± 0.1	GWMP
pH (SU)	10.00	10.00	8.38	± 0.1	GWMP
D.O. (%)	N/A	100%	8.76	± 10%	NA
ORP (mV)	228.0	228.0	8.57	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0	± 10% of standard	EPA 2023
	1	1		
	10	10		
	—	—		

Calibration Check					
Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490			± 10% of standard	EPA 2023
pH (SU)	4.00			± 0.1	GWMP
pH (SU)	7.00			± 0.1	GWMP
pH (SU)	10.00			± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)			± 10% of standard	EPA 2023

Notes:

Site Name: Plant Hammond

Calibrated By: A. Tomlinson

Field Instrumentation Calibration Form

Date: 1/6/2025

Field Conditions: 47°F, cloudy

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aqua Trau	1082822
Turbidity Meter	Hach 2100Q	24090D000222

Calibration Standard Information

Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24010943	5/2025	AUTO CAL
pH (SU)	4.00	24010943	5/2025	AUTO CAL
pH (SU)	7.00	24008587	6/2025	AIR
pH (SU)	10.00	24004996	6/2025	AIR
D.O. (%)	N/A	—	—	—
ORP (mV)	228.0	24011792	6/2025	AIR

Calibration

Time Start 0900 Time Finish 0920

Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4,490	9.98	± 10% of standard	EPA 2023
pH (SU)	4.00	4.04	9.08	± 0.1	GWMP
pH (SU)	7.00	7.08	8.88	± 0.1	GWMP
pH (SU)	10.00	10.06	8.76	± 0.1	GWMP
D.O. (%)	N/A	100.7	8.57	± 10%	NA
ORP (mV)	228.0	228	8.76	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	21.5	± 10% of standard	EPA 2023
	100	103		
	800	803		
	10	9.05		

Calibration Check

Time Start Time Finish

Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490			± 10% of standard	EPA 2023
pH (SU)	4.00			± 0.1	GWMP
pH (SU)	7.00			± 0.1	GWMP
pH (SU)	10.00			± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)			± 10% of standard	EPA 2023

Notes:

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Site Name: Hammond

Field Instrumentation Calibration Form

Date: 1/6/24

Calibrated By: T Hessler

Field Conditions: Cloudy, 40°F

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	In Situ	10525317
Turbidity Meter	hach	211C010200

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24G1643	05/25	In Situ
pH (SU)	4.00	↓	↓	
pH (SU)	7.00	24C0387	6/25	
pH (SU)	10.00	24C0998	6/25	
D.O. (%)	N/A			
ORP (mV)	228.0	24C0197	6/25	

Calibration					
Time Start 0845		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4496	11.14	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	9.55	± 0.1	GWMP
pH (SU)	7.00	7.00	9.35	± 0.1	GWMP
pH (SU)	10.00	10.00	8.55	± 0.1	GWMP
D.O. (%)	N/A	100	8.66	± 10%	NA
ORP (mV)	228.0	228	6.50	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	19.6	± 10% of standard	EPA 2023
	100	98.6		
	800	790		

Calibration Check					
Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490			± 10% of standard	EPA 2023
pH (SU)	4.00			± 0.1	GWMP
pH (SU)	7.00			± 0.1	GWMP
pH (SU)	10.00			± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)			± 10% of standard	EPA 2023

Notes:

Scanned with CamScanner

Site Name: Plant Hammond

Field Instrumentation Calibration Form

Date: 11/7/2024

Calibrated By: T. Hessler

Field Conditions: Cloudy, 28°

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Insitu	1032617
Turbidity Meter	Insitu	24J9012200173

Calibration Standard Information

Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	Z 1010943	5/25	Insitu
pH (SU)	4.00	↓	↓	↓
pH (SU)	7.00	24K0557	6/25	
pH (SU)	10.00	24004996	6/25	
D O (%)	N/A	—	—	
ORP (mV)	228.0	24011792	6/25	

Calibration

Time Start: 0605 Time Finish: 0635

Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4490	15.93	± 10% of standard	EPA 2023
pH (SU)	4.00	4.0	15.90	± 0.1	GWMP
pH (SU)	7.00	7.00	15.48	± 0.1	GWMP
pH (SU)	10.00	10.00	15.20	± 0.1	GWMP
D O (%)	N/A	100	15.05	± 10%	NA
ORP (mV)	228.0	228	15.02	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	20.6	± 10% of standard	EPA 2023
	100	102		
	500	810		
	10	9.78		

Calibration Check

Time Start: Time Finish:

Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	20.6		± 10% of standard	EPA 2023
pH (SU)	4.00	102		± 0.1	GWMP
pH (SU)	7.00			± 0.1	GWMP
pH (SU)	10.00			± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)			± 10% of standard	EPA 2023

Notes:

Scanned with CamScanner

Site Name: Plant Hammond

Field Instrumentation Calibration Form

Date: 2/4/25

Calibrated By: TH

Field Conditions: 46-74 F= partly cloudy

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	aquaread 400	965584
Turbidity Meter	Lamotte 2020t	4126-2623

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24010943	05/25	AIR
pH (SU)	4.00	"	"	"
pH (SU)	7.00	24008587	06/25	↓
pH (SU)	10.00	24004910	06/25	↓
D.O. (%)	N/A	—	—	—
ORP (mV)	228.0	24011792	06/25	AIR

Calibration					
Time Start 0720		Time Finish 0745			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4490	17.79	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	17.77	± 0.1	GWMP
pH (SU)	7.00	7.00	17.67	± 0.1	GWMP
pH (SU)	10.00	10.00	17.58	± 0.1	GWMP
D.O. (%)	N/A	100	18.10	± 10%	NA
ORP (mV)	228.0	228	17.39	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0	± 10% of standard	EPA 2023
	1	0.9		
	10	10.5		
		—		

Calibration Check					
Time Start 1412		Time Finish 1425			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4490	21.55	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	21.43	± 0.1	GWMP
pH (SU)	7.00	7.00	21.55	± 0.1	GWMP
pH (SU)	10.00	10.00	22.21	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0	± 10% of standard	EPA 2023
	1	TH ~~0.0~~ 0.9		
	10	10.5		
		—		

Notes:

Site Name: Plant Hammond

Field Instrumentation Calibration Form

Date: 2-4-25

Calibrated By: Zain Webb

Field Conditions: Cloudy, 55°F

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	952637
Turbidity Meter	LaMotte 2020we	1511-4111

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24010943	05/2025	AIR
pH (SU)	4.00	24010943	05/2025	AIR
pH (SU)	7.00	24008587	06/2025	AIR
pH (SU)	10.00	24004996	06/2025	AIR
D.O. (%)	N/A	—	—	AIR
ORP (mV)	228.0	24011772	06/2025	AIR

Calibration					
Time Start 0742		Time Finish 0806			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4490	13.30	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	13.32	± 0.1	GWMP
pH (SU)	7.00	7.00	13.92	± 0.1	GWMP
pH (SU)	10.00	10.00	13.81	± 0.1	GWMP
D.O. (%)	N/A	100.7	13.60	± 10%	NA
ORP (mV)	228.0	228.0	13.68	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0	± 10% of standard	EPA 2023
	1	1		
	10	10		
	—	—		

Calibration Check					
Time Start 1245		Time Finish 1259			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4490	23.53	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	23.20	± 0.1	GWMP
pH (SU)	7.00	7.00	21.14	± 0.1	GWMP
pH (SU)	10.00	10.00	20.12	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0	± 10% of standard	EPA 2023
	1	1		
	16	10		
	—	—		

Notes:

Site Name: Hammond

Calibrated By: TH

Field Instrumentation Calibration Form

Date: 2/5/25

Field Conditions: 40°, cloudy

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	9C558C
Turbidity Meter	La Motte 2020e	4126-2623

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24010943	05/25	AIR
pH (SU)	4.00	24010943	05/25	↓
pH (SU)	7.00	24008587	06/25	↓
pH (SU)	10.00	24004996	06/25	↓
D.O. (%)	N/A	—	—	—
ORP (mV)	228.0	24011792	06/25	↓

Calibration					
Time Start: 0745		Time Finish: 0805			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4490	16.65	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	16.65	± 0.1	GWMP
pH (SU)	7.00	7.00	16.78	± 0.1	GWMP
pH (SU)	10.00	10.00	16.29	± 0.1	GWMP
D.O. (%)	N/A	100.1	16.42	± 10%	NA
ORP (mV)	228.0	228	15.48	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0	± 10% of standard	EPA 2023
	1	1.10		
	10	10.5		
	—	—		

Calibration Check					
Time Start: —		Time Finish: —			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490			± 10% of standard	EPA 2023
pH (SU)	4.00			± 0.1	GWMP
pH (SU)	7.00			± 0.1	GWMP
pH (SU)	10.00			± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)			± 10% of standard	EPA 2023

Notes:

No Midday Cal

Site Name: Plant Hammond

Field Instrumentation Calibration Form

Date: 2-5-25

Calibrated By: Zain W.

Field Conditions: Cloudy, 55°F

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	952637
Turbidity Meter	LaMotte, 2020we	1511-4111

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24010943	05/2025	AIR
pH (SU)	4.00	24010943	05/2025	AIR
pH (SU)	7.00	24008587	06/2025	AIR
pH (SU)	10.00	24004996	06/2025	AIR
D.O. (%)	N/A	—	—	AIR
ORP (mV)	228.0	24011792	06/2025	AIR

Calibration					
Time Start 0736		Time Finish 0800			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4490	12.12	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	12.46	± 0.1	GWMP
pH (SU)	7.00	7.00	13.18	± 0.1	GWMP
pH (SU)	10.00	10.00	13.42	± 0.1	GWMP
D.O. (%)	N/A	100.2	12.90	± 10%	NA
ORP (mV)	228.0	228.0	13.31	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0	± 10% of standard	EPA 2023
	1	1		
	10	10		
	—	—		

Calibration Check					
Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490			± 10% of standard	EPA 2023
pH (SU)	4.00			± 0.1	GWMP
pH (SU)	7.00			± 0.1	GWMP
pH (SU)	10.00			± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)			± 10% of standard	EPA 2023

Notes:

No mid-day calibration

Site Name: Plant Hammond

Field Instrumentation Calibration Form

Date: 3-5-25

Calibrated By: Zain W.

Field Conditions: Clear, 50°F

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	1146036
Turbidity Meter		

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24014218	01/2026	AIR
pH (SU)	4.00	24014218	01/2026	AIR
pH (SU)	7.00	24014266	01/2026	AIR
pH (SU)	10.00	24011537	01/2026	AIR
D.O. (%)	N/A	—	—	—
ORP (mV)	228.0	22490162	01/2026	AIR

Calibration					
Time Start 0800		Time Finish 0815			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4490	16.34	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	16.67	± 0.1	GWMP
pH (SU)	7.00	7.00	17.33	± 0.1	GWMP
pH (SU)	10.00	10.00	17.62	± 0.1	GWMP
D.O. (%)	N/A	100.7	15.95	± 10%	NA
ORP (mV)	228.0	228.0	17.53	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0	± 10% of standard	EPA 2023
	1	1		
	10	10		
	-	-		

Calibration Check					
Time Start 1246		Time Finish 1250			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4345.7	16.81	± 10% of standard	EPA 2023
pH (SU)	4.00	4.09	16.81	± 0.1	GWMP
pH (SU)	7.00	7.00	16.67	± 0.1	GWMP
pH (SU)	10.00	10.09	16.84	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0	± 10% of standard	EPA 2023
	1	0.99		
	10	9.87		
	-			

Notes:

Site Name: Plant Hammond

Field Instrumentation Calibration Form

Date: 3-5-25

Calibrated By: Zain W.

Field Conditions: Clear, 50°F

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	1167968
Turbidity Meter	LaMotte 2020e	4121-2623

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	4,490	24014218	01/2026	AIR
pH (SU)	4.00	24014218	01/2026	AIR
pH (SU)	7.00	24014266	01/2026	AIR
pH (SU)	10.00	24011557	01/2026	AIR
D.O. (%)	N/A	—	—	—
ORP (mV)	228.0	22490162	01/2026	AIR

Calibration					
Time Start 0720		**Time Finish** 0800			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490	4490	16.78	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	16.84	± 0.1	GWMP
pH (SU)	7.00	7.00	17.03	± 0.1	GWMP
pH (SU)	10.00	10.00	17.13	± 0.1	GWMP
D.O. (%)	N/A	100%	13.54	± 10%	NA
ORP (mV)	228.0	228.0	17.00	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0	0	± 10% of standard	EPA 2023
	1	1		
	10	10		
	—	—		

Calibration Check					
Time Start		**Time Finish**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490			± 10% of standard	EPA 2023
pH (SU)	4.00			± 0.1	GWMP
pH (SU)	7.00			± 0.1	GWMP
pH (SU)	10.00			± 0.1	GWMP

ZW 3-5

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)			± 10% of standard	EPA 2023

Notes:

ZW 3-5-25

Field Instrumentation Calibration Form

Site Name: Plant Hammond

Date: 3/6/2025

Calibrated By: J. Kessler

Field Conditions: Clear, 38°

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	[illegible]	1142036
Turbidity Meter		

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24014218	1/2026	In-Situ
pH (SU)	4.00	〃	〃	〃
pH (SU)	7.00	24014266	1/26	〃
pH (SU)	10.00	24011537	1/26	〃
D.O. (%)	N/A	—	—	〃
ORP (mV)	228.0	22140162	1/26	〃

Calibration					
Time Start 0700			Time Finish 0750		
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4460	9.38	± 10% of standard	EPA 2023
pH (SU)	4.00	4	9.43	± 0.1	GWMP
pH (SU)	7.00	7	10.28	± 0.1	GWMP
pH (SU)	10.00	10	11.21	± 0.1	GWMP
D.O. (%)	N/A	100	11.38	± 10%	NA
ORP (mV)	228.0	228	11.18	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0	± 10% of standard	EPA 2023
	1	0.97		
	10	10.03		
	—	—		

Calibration Check					
Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490			± 10% of standard	EPA 2023
pH (SU)	4.00			± 0.1	GWMP
pH (SU)	7.00			± 0.1	GWMP
pH (SU)	10.00			± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)			± 10% of standard	EPA 2023

Notes: Issues w/ orp probe, cal Broken into 3 electronic reports.
No muddy, end sampling prior to noon

Site Name: Plant Hammond

Field Instrumentation Calibration Form

Date: 3-6-25

Calibrated By: Zain W.

Field Conditions: Cloudy, 50°F

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	1167968
Turbidity Meter	LaMotte 2020e	4121-2023

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	4,490	24014218	01/2026	AIR
pH (SU)	4.00	24014218	01/2026	AIR
pH (SU)	7.00	24014266	01/2026	AIR
pH (SU)	10.00	24011537	01/2026	AIR
D.O. (%)	N/A	—	—	—
ORP (mV)	228.0	22490162	01/2026	AIR

Calibration					
Time Start 0716		**Time Finish** 0751			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490	4490	6.54	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	6.72	± 0.1	GWMP
pH (SU)	7.00	7.00	7.27	± 0.1	GWMP
pH (SU)	10.00	10.00	7.65	± 0.1	GWMP
D.O. (%)	N/A	100%	8.60	± 10%	NA
ORP (mV)	228.0	228.0	7.80	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0	0	± 10% of standard	EPA 2023
	1	1		
	10	10		
	—	—		

Calibration Check					
Time Start 1151		**Time Finish** 1207			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	4,490	4490	12.93	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	13.17	± 0.1	GWMP
pH (SU)	7.00	7.00	12.62	± 0.1	GWMP
pH (SU)	10.00	10.00	12.39	± 0.1	GWMP

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	0	0	± 10% of standard	EPA 2023
	1	1		
	10	10		
	—	—		

Notes:

ZW 3-6-25

Site Name: plane Hammond

Calibrated By: Yong Li Wang

Field Instrumentation Calibration Form

Date: 4/2/25

Field Conditions: Sunny 1pm cloudy

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquaroll, 1149110	1149110
Turbidity Meter	Lamotte 2020e	4126-2603

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	240142178	01/2026	ATP
pH (SU)	4.00	240142178	01/2026	ATP
pH (SU)	7.00	240142266	01/2026	ATP
pH (SU)	10.00	240105?1	01/2026	ATP
D.O. (%)	N/A	—		
ORP (mV)	228.0	2344010	01/2026	ATP

Calibration					
Time Start 1025		Time Finish 1045			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4490	21.90	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	21.91	± 0.1	GWMP
pH (SU)	7.00	7.00	21.99	± 0.1	GWMP
pH (SU)	10.00	10.00	22.00	± 0.1	GWMP
D.O. (%)	N/A	100%	22.26	± 10%	NA
ORP (mV)	228.0	228.0	21.93	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0	± 10% of standard	EPA 2023
	1	1		
	10	10		
	—	—		

Calibration Check					
Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490			± 10% of standard	EPA 2023
pH (SU)	4.00			± 0.1	GWMP
pH (SU)	7.00			± 0.1	GWMP
pH (SU)	10.00			± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)			± 10% of standard	EPA 2023

Notes: no midday cal, start around noon

Site Name: Pine Hammond

Field Instrumentation Calibration Form

Date: 4/4/25

Calibrated By: Zahn

Field Conditions: Sunny

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	1179236
Turbidity Meter	Lamotte 2020t	—

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24014218	01/2026	AIR
pH (SU)	4.00	24014218	01/2026	AIR
pH (SU)	7.00	24014266	01/2026	AIR
pH (SU)	10.00	24011537	01/2026	AIR
D.O. (%)	N/A	—	—	AIR
ORP (mV)	228.0	22490162	01/2026	AIR

Calibration					
Time Start 1115	Time Finish 1142				
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4490	22.42	± 10% of standard	EPA 2023
pH (SU)	4.00	4.0	22.47	± 0.1	GWMP
pH (SU)	7.00	7.0	23.08	± 0.1	GWMP
pH (SU)	10.00	1200	23.19	± 0.1	GWMP
D.O. (%)	N/A	100%	23.41	± 10%	NA
ORP (mV)	228.0	228	23.32	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0	± 10% of standard	EPA 2023
	1	1		
	10	10		
	—	—		

Calibration Check					
Time Start	Time Finish				
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490			± 10% of standard	EPA 2023
pH (SU)	4.00			± 0.1	GWMP
pH (SU)	7.00			± 0.1	GWMP
pH (SU)	10.00	ZW		± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)			± 10% of standard	EPA 2023

Notes:

No midday cal; started around noon

ZW

Site Name: Plant Hammond

Field Instrumentation Calibration Form

Date: 4-3-25

Calibrated By: Zain W.

Field Conditions: Clear, 65°F

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll 400	117923G
Turbidity Meter	LaMotte 2020e	—

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	24014218	01/2026	AIR
pH (SU)	4.00	24014218	01/2026	AIR
pH (SU)	7.00	24014266	01/2026	AIR
pH (SU)	10.00	24011537	01/2026	AIR
D.O. (%)	N/A	—	—	—
ORP (mV)	228.0	22490162	01/2026	AIR

Calibration					
Time Start 0727		Time Finish 0751			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4490	21.62	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	22.61	± 0.1	GWMP
pH (SU)	7.00	7.00	23.16	± 0.1	GWMP
pH (SU)	10.00	10.00	23.30	± 0.1	GWMP
D.O. (%)	N/A	— 100%	22.60	± 10%	NA
ORP (mV)	228.0	228.0	23.49	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0	± 10% of standard	EPA 2023
	1	1		
	10	10		
	—	—		

Calibration Check					
Time Start 1134		Time Finish 1149			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4490	25.31	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	25.21	± 0.1	GWMP
pH (SU)	7.00	7.00	24.50	± 0.1	GWMP
pH (SU)	10.00	10.00	24.31	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0	± 10% of standard	EPA 2023
	1	1		
	10	10		
	—	—		

Notes:

ZW

Site Name: Plane Hammond

Calibrated By: YongLi W

Field Instrumentation Calibration Form

Date: 4/3/25

Field Conditions: Sunny

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	AquaTroll	114976
Turbidity Meter	Lamotte/2008	4126-2623

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490	2401421A	01/2026	ATP
pH (SU)	4.00	2401421A	01/2026	ATP
pH (SU)	7.00	2401426A	01/2026	ATP
pH (SU)	10.00	2401537	01/2026	ATP
D.O. (%)	N/A			
ORP (mV)	228.0	2264016	01/2026	ATP

Calibration					
Time Start 0724		Time Finish 0744			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4440	22.16	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	22.13	± 0.1	GWMP
pH (SU)	7.00	7.00	22.14	± 0.1	GWMP
pH (SU)	10.00	10.00	22.27	± 0.1	GWMP
D.O. (%)	N/A	100%	21.30	± 10%	NA
ORP (mV)	228.0	228	22.11	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0	± 10% of standard	EPA 2023
	1	1		
	10	10		

YL

Calibration Check					
Time Start 1134		Time Finish 1454			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	4460	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	24.95	± 0.1	GWMP
pH (SU)	7.00	7.00	24.16	± 0.1	GWMP
pH (SU)	10.00	10.00	24.17	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	0	0	± 10% of standard	EPA 2023
	1	1		
	10	10		

YL

Notes:

YL

APPENDIX E

EDR Report

Plant Hammond
5963 Alabama Hwy
Rome, GA 30165

Inquiry Number: 08155483.1r
October 29, 2025

The EDR GeoCheck® Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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Physical Setting Source Map Findings ---- **A-9**

Physical Setting Source Records Searched ---- **PSGR-1**

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GEOCHECK® - PHYSICAL SETTING SOURCE REPORT

TARGET PROPERTY ADDRESS

PLANT HAMMOND
5963 ALABAMA HWY
ROME, GA 30165

TARGET PROPERTY COORDINATES

Latitude (North):	34.252186 - 34° 15' 7.87''
Longitude (West):	85.346935 - 85° 20' 48.97''
Universal Tranverse Mercator:	Zone 16
UTM X (Meters):	652215.6
UTM Y (Meters):	3791159.2
Elevation:	588 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	34085-C3 ROCK MOUNTAIN, GA
Version Date:	1985
South Map:	34085-B3 LIVINGSTON, GA
Version Date:	1982

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

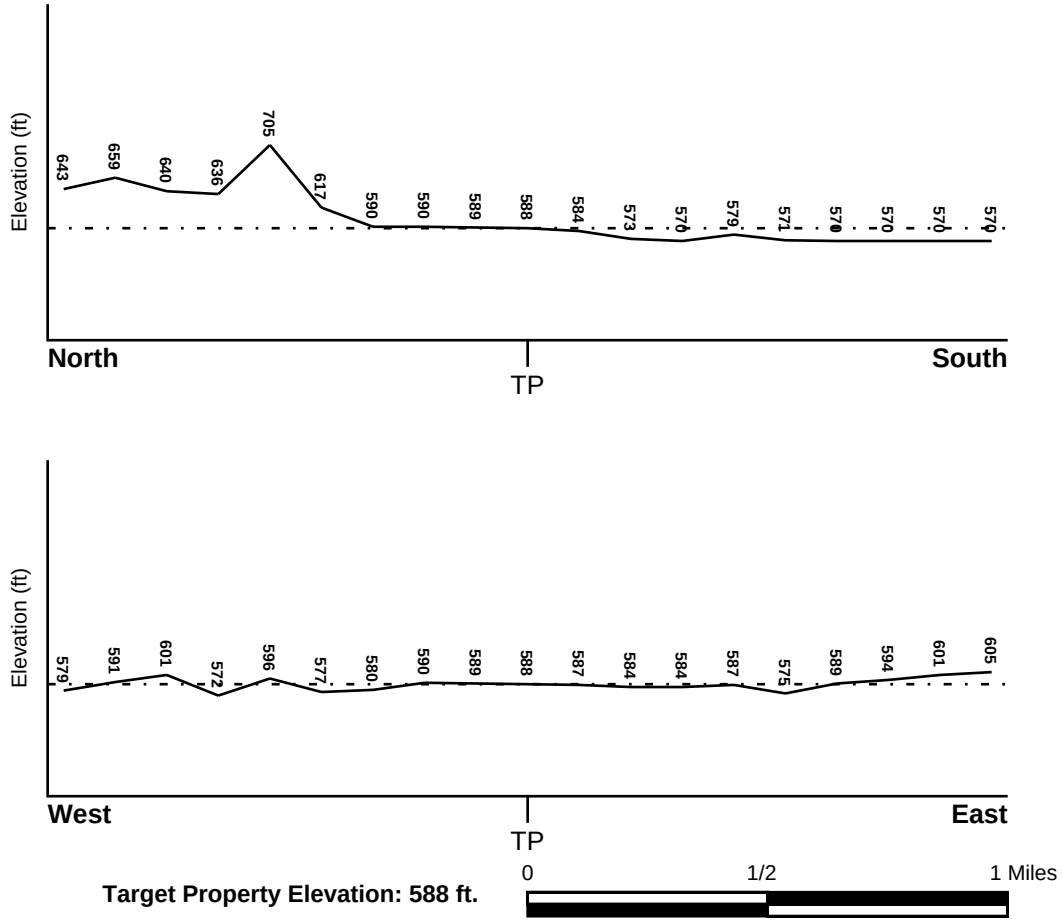
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General South

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Flood Plain Panel at Target Property	FEMA Source Type
13115C0163E	FEMA FIRM Flood data

Additional Panels in search area:	FEMA Source Type
13115C0164E	FEMA FIRM Flood data
13115C0252E	FEMA FIRM Flood data
13115C0251E	FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
ROCK MOUNTAIN	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

Era:	Paleozoic
System:	Cambrian
Series:	Cambrian
Code:	C *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Stratified Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

Soil Component Name:	ETOWAH
Soil Surface Texture:	loam
Hydrologic Group:	Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.
Soil Drainage Class:	Well drained. Soils have intermediate water holding capacity. Depth to water table is more than 6 feet.

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: LOW

Depth to Bedrock Min: > 60 inches

Depth to Bedrock Max: > 60 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification			
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	Permeability Rate (in/hr)	Soil Reaction (pH)
1	0 inches	7 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 2.00 Min: 0.60	Max: 5.50 Min: 4.50
2	7 inches	38 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 2.00 Min: 0.60	Max: 5.50 Min: 4.50
3	38 inches	70 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 2.00 Min: 0.60	Max: 5.50 Min: 4.50

OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures: silt loam
clay loam

Surficial Soil Types: silt loam
clay loam

Shallow Soil Types: sandy clay loam
clay loam
silty clay loam
silty clay

Deeper Soil Types: clay loam
stratified
clay
cherty - clay loam
weathered bedrock
loam

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	2.000
Federal FRDS PWS	2.000
State Database	2.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A1	USGS40000266955	1/8 - 1/4 Mile NW
B3	USGS40000266956	1/8 - 1/4 Mile NNE
D7	USGS40000266962	1/4 - 1/2 Mile North
B9	USGS40000266957	1/4 - 1/2 Mile NE
D12	USGS40000266965	1/4 - 1/2 Mile NNW
E13	USGS40000266972	1/4 - 1/2 Mile North
E16	USGS40000266968	1/2 - 1 Mile NNE
F18	USGS40000266981	1/2 - 1 Mile North
G21	USGS40000266978	1 - 2 Miles NE
H22	USGS40000266969	1 - 2 Miles ENE
H25	USGS40000266975	1 - 2 Miles ENE
I27	USGS40000266890	1 - 2 Miles South
J29	USGS40000266908	1 - 2 Miles SE
K31	USGS40000266958	1 - 2 Miles East

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

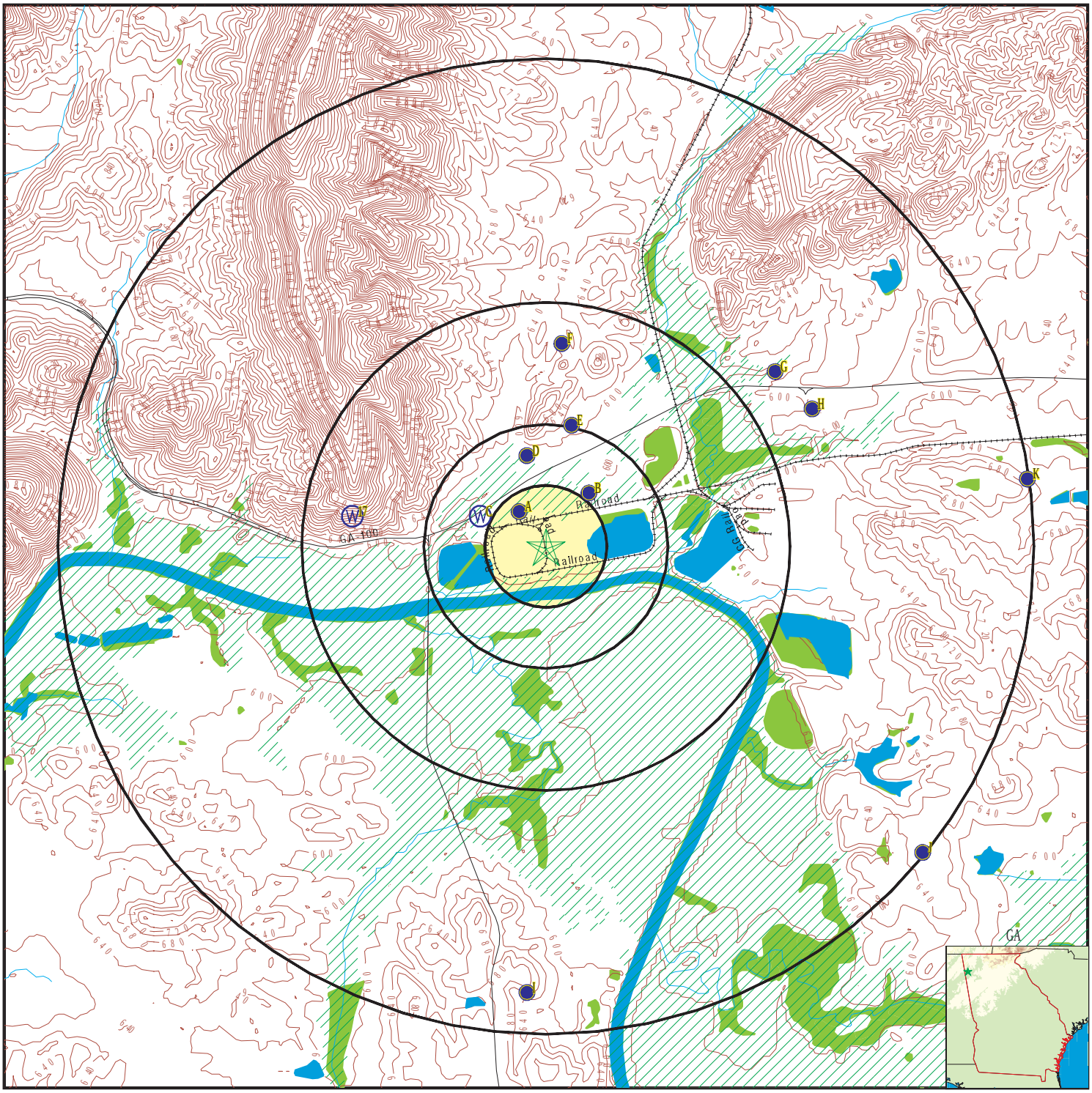
MAP ID	WELL ID	LOCATION FROM TP
A2	0000004171	1/8 - 1/4 Mile NW
B4	0000004172	1/8 - 1/4 Mile NNE
C5	0000004168	1/4 - 1/2 Mile WNW
C6	0000004169	1/4 - 1/2 Mile WNW
D8	0000004175	1/4 - 1/2 Mile North
B10	0000004173	1/4 - 1/2 Mile NE
D11	0000004177	1/4 - 1/2 Mile NNW
E14	0000004181	1/4 - 1/2 Mile North
E15	0000004179	1/2 - 1 Mile NNE
17	0000004170	1/2 - 1 Mile West
F19	0000004188	1/2 - 1 Mile North
G20	0000004185	1 - 2 Miles NE

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
H23	0000004180	1 - 2 Miles ENE
H24	0000004183	1 - 2 Miles ENE
I26	0000004144	1 - 2 Miles South
J28	0000004151	1 - 2 Miles SE
K30	0000004174	1 - 2 Miles East

PHYSICAL SETTING SOURCE MAP - 08155483.1r



- County Boundary
- Major Roads
- Contour Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons
- Groundwater Flow Direction
- GI Indeterminate Groundwater Flow at Location
- GV Groundwater Flow Varies at Location
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- Wildlife Areas

SITE NAME:	Plant Hammond	CLIENT:	Geosyntec Consultants
ADDRESS:	5963 Alabama Hwy Rome GA 30165	CONTACT:	Tristan Halterman
		INQUIRY #:	08155483.1r
LAT/LONG:	34.252186 / 85.346935	DATE:	October 29, 2025 10:16 am

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

A1
NW
1/8 - 1/4 Mile
Higher

FED USGS **USGS40000266955**

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	03JJ41	Type:	Well
Description:	GA POWER, PLANT HAMMOND	HUC:	03150105
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Valley and Ridge aquifers	Formation Type:	Conasauga Formation
Aquifer Type:	Not Reported	Construction Date:	19511101
Well Depth:	411	Well Depth Units:	ft
Well Hole Depth:	411	Well Hole Depth Units:	ft

A2
NW
1/8 - 1/4 Mile
Higher

GA WELLS **0000004171**

County code:	115	Well num:	03JJ41
Remarks:	GA POWER, PLANT HAMMOND	Lat:	341515
Lon:	0852056	Latlon datum:	NAD27
Alt:	586.00	Alt datum:	NGVD29
Depth:	411	Depth to casing:	44.5
Casing dia:	12.	Casing matl:	Not Reported
Depth to top:	44.5	Depth to bot:	411.
Opening type:	X	Constr date:	19551101
Discharge:	69.60	Prim use:	N
Aquifer code:	371CNSG	Edr id:	0000004171

B3
NNE
1/8 - 1/4 Mile
Higher

FED USGS **USGS40000266956**

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	03JJ35	Type:	Well
Description:	GA. POWER CO. WELL NO.3	HUC:	03150105
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Valley and Ridge aquifers	Formation Type:	Conasauga Formation
Aquifer Type:	Not Reported	Construction Date:	195111
Well Depth:	405	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

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B4
NNE
1/8 - 1/4 Mile
Higher

GA WELLS **0000004172**

County code:	115	Well num:	03JJ35
Remarks:	GA. POWER CO. WELL NO.3	Lat:	341518
Lon:	0852041	Latlon datum:	NAD27
Alt:	590.0	Alt datum:	NGVD29

Depth:	405.0	Depth to casing:	22.0
Casing dia:	12.0	Casing matl:	Not Reported
Depth to top:	22.0	Depth to bot:	405.0
Opening type:	X	Constr date:	195111
Discharge:	Not Reported	Prim use:	Not Reported
Aquifer code:	371CNSG	Edr id:	0000004172

C5
WNW
1/4 - 1/2 Mile
Higher

GA WELLS **0000004168**

County code:	115	Well num:	03JJS2
Remarks:	JOE EARLY	Lat:	341514
Lon:	0852106	Latlon datum:	NAD27
Alt:	590	Alt datum:	NGVD29
Depth:	Not Reported	Depth to casing:	Not Reported
Casing dia:	Not Reported	Casing matl:	Not Reported
Depth to top:	Not Reported	Depth to bot:	Not Reported
Opening type:	Not Reported	Constr date:	Not Reported
Discharge:	208.3	Prim use:	Not Reported
Aquifer code:	Not Reported	Edr id:	0000004168

C6
WNW
1/4 - 1/2 Mile
Higher

GA WELLS **0000004169**

County code:	115	Well num:	03JJS2
Remarks:	JOE EARLY	Lat:	341514
Lon:	0852106	Latlon datum:	NAD27
Alt:	590	Alt datum:	NGVD29
Depth:	Not Reported	Depth to casing:	Not Reported
Casing dia:	Not Reported	Casing matl:	Not Reported
Depth to top:	Not Reported	Depth to bot:	Not Reported
Opening type:	Not Reported	Constr date:	Not Reported
Discharge:	208.3	Prim use:	Not Reported
Aquifer code:	Not Reported	Edr id:	0000004169

D7
North
1/4 - 1/2 Mile
Higher

FED USGS **USGS40000266962**

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	03JJ31	Type:	Well
Description:	RUTH BRIDGES	HUC:	03150105
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Valley and Ridge aquifers	Formation Type:	Floyd Shale
Aquifer Type:	Not Reported	Construction Date:	1949
Well Depth:	96	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

Ground water levels,Number of Measurements:	1	Level reading date:	1961-11-07
Feet below surface:	20	Feet to sea level:	Not Reported
Note:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

D8
North
1/4 - 1/2 Mile
Higher

GA WELLS **0000004175**

County code:	115	Well num:	03JJ31
Remarks:	RUTH BRIDGES	Lat:	341524
Lon:	0852052	Latlon datum:	NAD27
Alt:	590	Alt datum:	NGVD29
Depth:	96	Depth to casing:	20
Casing dia:	6	Casing matl:	Not Reported
Depth to top:	20	Depth to bot:	96
Opening type:	X	Constr date:	1949
Discharge:	10	Prim use:	H
Aquifer code:	331FLYD	Edr id:	0000004175

B9
NE
1/4 - 1/2 Mile
Higher

FED USGS **USGS40000266957**

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	03JJ40	Type:	Well
Description:	GA POWER CO, HAMMOND PLNT	HUC:	03150105
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Valley and Ridge aquifers	Formation Type:	Conasauga Formation
Aquifer Type:	Not Reported	Construction Date:	195111
Well Depth:	405	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

Ground water levels,Number of Measurements:	1	Level reading date:	1951-11
Feet below surface:	15	Feet to sea level:	Not Reported
Note:	Not Reported		

B10
NE
1/4 - 1/2 Mile
Higher

GA WELLS **0000004173**

County code:	115	Well num:	03JJ40
Remarks:	GA POWER CO, HAMMOND PLNT	Lat:	341520
Lon:	0852035	Latlon datum:	NAD27
Alt:	590	Alt datum:	NGVD29
Depth:	405	Depth to casing:	Not Reported
Casing dia:	Not Reported	Casing matl:	Not Reported
Depth to top:	Not Reported	Depth to bot:	Not Reported
Opening type:	Not Reported	Constr date:	195111
Discharge:	40.	Prim use:	N
Aquifer code:	371CNSG	Edr id:	0000004173

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

D11
NNW
1/4 - 1/2 Mile
Higher

GA WELLS **0000004177**

County code:	115	Well num:	03JJ14
Remarks:	MRS. ARTHUR L. LLOYD	Lat:	341530
Lon:	0852056	Latlon datum:	NAD27
Alt:	595	Alt datum:	NGVD29
Depth:	87	Depth to casing:	21
Casing dia:	6	Casing matl:	Not Reported
Depth to top:	21	Depth to bot:	87
Opening type:	X	Constr date:	1948
Discharge:	16.7	Prim use:	H
Aquifer code:	371CNSG	Edr id:	0000004177

D12
NNW
1/4 - 1/2 Mile
Higher

FED USGS **USGS40000266965**

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	03JJ14	Type:	Well
Description:	MRS. ARTHUR L. LLOYD	HUC:	03150105
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Valley and Ridge aquifers	Formation Type:	Conasauga Formation
Aquifer Type:	Not Reported	Construction Date:	1948
Well Depth:	87	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

Ground water levels,Number of Measurements:	1	Level reading date:	1948
Feet below surface:	4	Feet to sea level:	Not Reported
Note:	Not Reported		

E13
North
1/4 - 1/2 Mile
Higher

FED USGS **USGS40000266972**

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	03JJ13	Type:	Well
Description:	ARTHUR W. LLOYD	HUC:	03150105
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Valley and Ridge aquifers	Formation Type:	Floyd Shale
Aquifer Type:	Not Reported	Construction Date:	1955
Well Depth:	72	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

Ground water levels,Number of Measurements:	1	Level reading date:	1955
Feet below surface:	15.0	Feet to sea level:	Not Reported
Note:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

E14
North
1/4 - 1/2 Mile
Higher

GA WELLS **0000004181**

County code:	115	Well num:	03JJ13
Remarks:	ARTHUR W. LLOYD	Lat:	341533
Lon:	0852047	Latlon datum:	NAD27
Alt:	625	Alt datum:	NGVD29
Depth:	72	Depth to casing:	28
Casing dia:	6	Casing matl:	Not Reported
Depth to top:	28	Depth to bot:	72
Opening type:	X	Constr date:	1955
Discharge:	15	Prim use:	H
Aquifer code:	331FLYD	Edr id:	0000004181

E15
NNE
1/2 - 1 Mile
Higher

GA WELLS **0000004179**

County code:	115	Well num:	03JJ12
Remarks:	DEWEY H. WORTHY JR.	Lat:	341534
Lon:	0852038	Latlon datum:	NAD27
Alt:	600	Alt datum:	NGVD29
Depth:	60	Depth to casing:	55
Casing dia:	6	Casing matl:	Not Reported
Depth to top:	55	Depth to bot:	60
Opening type:	X	Constr date:	196106
Discharge:	10	Prim use:	H
Aquifer code:	331FLYD	Edr id:	0000004179

E16
NNE
1/2 - 1 Mile
Higher

FED USGS **USGS40000266968**

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	03JJ12	Type:	Well
Description:	DEWEY H. WORTHY JR.	HUC:	03150105
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Valley and Ridge aquifers	Formation Type:	Floyd Shale
Aquifer Type:	Not Reported	Construction Date:	196106
Well Depth:	60	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

Ground water levels,Number of Measurements:	1	Level reading date:	1961-11-07
Feet below surface:	15.35	Feet to sea level:	Not Reported
Note:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

17
West
1/2 - 1 Mile
Higher

GA WELLS **0000004170**

County code:	115	Well num:	03JJ47
Remarks:	A.A. LOONEY	Lat:	341514
Lon:	0852139	Latlon datum:	NAD27
Alt:	800	Alt datum:	NGVD29
Depth:	Not Reported	Depth to casing:	Not Reported
Casing dia:	Not Reported	Casing matl:	Not Reported
Depth to top:	Not Reported	Depth to bot:	Not Reported
Opening type:	Not Reported	Constr date:	Not Reported
Discharge:	Not Reported	Prim use:	Not Reported
Aquifer code:	Not Reported	Edr id:	0000004170

F18
North
1/2 - 1 Mile
Higher

FED USGS **USGS40000266981**

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	03JJ15	Type:	Well
Description:	ROME CRAFT	HUC:	03150105
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Valley and Ridge aquifers	Formation Type:	Floyd Shale
Aquifer Type:	Not Reported	Construction Date:	1958
Well Depth:	205	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

Ground water levels,Number of Measurements:	1	Level reading date:	1958
Feet below surface:	40.0	Feet to sea level:	Not Reported
Note:	Not Reported		

F19
North
1/2 - 1 Mile
Higher

GA WELLS **0000004188**

County code:	115	Well num:	03JJ15
Remarks:	ROME CRAFT	Lat:	341551
Lon:	0852045	Latlon datum:	NAD27
Alt:	640	Alt datum:	NGVD29
Depth:	205	Depth to casing:	179
Casing dia:	6	Casing matl:	Not Reported
Depth to top:	179	Depth to bot:	205
Opening type:	X	Constr date:	1958
Discharge:	6.5	Prim use:	C
Aquifer code:	331FLYD	Edr id:	0000004188

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

G20
NE
1 - 2 Miles
Lower

GA WELLS **0000004185**

County code:	115	Well num:	03JJ16
Remarks:	C.W. AKRIDGE	Lat:	341545
Lon:	0851950	Latlon datum:	NAD27
Alt:	590	Alt datum:	NGVD29
Depth:	89	Depth to casing:	7
Casing dia:	6	Casing matl:	Not Reported
Depth to top:	7	Depth to bot:	89
Opening type:	X	Constr date:	1941
Discharge:	5	Prim use:	H
Aquifer code:	331FLYD	Edr id:	0000004185

G21
NE
1 - 2 Miles
Lower

FED USGS **USGS40000266978**

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	03JJ16	Type:	Well
Description:	C.W. AKRIDGE	HUC:	03150105
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Valley and Ridge aquifers	Formation Type:	Floyd Shale
Aquifer Type:	Not Reported	Construction Date:	1941
Well Depth:	89	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

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H22
ENE
1 - 2 Miles
Higher

FED USGS **USGS40000266969**

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	03JJ17	Type:	Well
Description:	C.W. AKRIDGE	HUC:	03150105
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Valley and Ridge aquifers	Formation Type:	Floyd Shale
Aquifer Type:	Not Reported	Construction Date:	1945
Well Depth:	157	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

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H23
ENE
1 - 2 Miles
Higher

GA WELLS **0000004180**

County code:	115	Well num:	03JJ17
Remarks:	C.W. AKRIDGE	Lat:	341535
Lon:	0851942	Latlon datum:	NAD27
Alt:	605	Alt datum:	NGVD29

Depth:	157	Depth to casing:	Not Reported
Casing dia:	6.0	Casing matl:	Not Reported
Depth to top:	Not Reported	Depth to bot:	Not Reported
Opening type:	Not Reported	Constr date:	1945
Discharge:	5	Prim use:	H
Aquifer code:	331FLYD	Edr id:	0000004180

H24
ENE
1 - 2 Miles
Higher

GA WELLS **0000004183**

County code:	115	Well num:	03JJ18
Remarks:	C.H. JOHNSON	Lat:	341539
Lon:	0851939	Latlon datum:	NAD27
Alt:	600	Alt datum:	NGVD29
Depth:	96	Depth to casing:	35
Casing dia:	6	Casing matl:	Not Reported
Depth to top:	35	Depth to bot:	96
Opening type:	X	Constr date:	1959
Discharge:	Not Reported	Prim use:	H
Aquifer code:	331FLYD	Edr id:	0000004183

H25
ENE
1 - 2 Miles
Higher

FED USGS **USGS40000266975**

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	03JJ18	Type:	Well
Description:	C.H. JOHNSON	HUC:	03150105
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Valley and Ridge aquifers	Formation Type:	Floyd Shale
Aquifer Type:	Not Reported	Construction Date:	1959
Well Depth:	96	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

Ground water levels,Number of Measurements:	1	Level reading date:	1961-11-07
Feet below surface:	33.28	Feet to sea level:	Not Reported
Note:	Not Reported		

I26
South
1 - 2 Miles
Higher

GA WELLS **0000004144**

County code:	115	Well num:	03HH27
Remarks:	SIDNEY EVANS	Lat:	341332
Lon:	0852054	Latlon datum:	NAD27
Alt:	660.0	Alt datum:	NGVD29
Depth:	129.0	Depth to casing:	50.0
Casing dia:	6.0	Casing matl:	Not Reported
Depth to top:	50.0	Depth to bot:	129.0
Opening type:	X	Constr date:	1956
Discharge:	9.0	Prim use:	H
Aquifer code:	371CNSG	Edr id:	0000004144

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

I27
South
1 - 2 Miles
Higher

FED USGS **USGS40000266890**

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	03HH27	Type:	Well
Description:	SIDNEY EVANS	HUC:	03150105
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Valley and Ridge aquifers	Formation Type:	Conasauga Formation
Aquifer Type:	Not Reported	Construction Date:	1956
Well Depth:	129	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

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J28
SE
1 - 2 Miles
Higher

GA WELLS **0000004151**

County code:	115	Well num:	03HH03
Remarks:	L.L. PUCKETT	Lat:	341402
Lon:	0851912	Latlon datum:	NAD27
Alt:	650.0	Alt datum:	NGVD29
Depth:	125.0	Depth to casing:	31.0
Casing dia:	6.0	Casing matl:	Not Reported
Depth to top:	31.0	Depth to bot:	125.0
Opening type:	X	Constr date:	1960
Discharge:	4.5	Prim use:	H
Aquifer code:	371CNSG	Edr id:	0000004151

J29
SE
1 - 2 Miles
Higher

FED USGS **USGS40000266908**

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	03HH03	Type:	Well
Description:	L.L. PUCKETT	HUC:	03150105
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Valley and Ridge aquifers	Formation Type:	Conasauga Formation
Aquifer Type:	Not Reported	Construction Date:	1960
Well Depth:	125	Well Depth Units:	ft
Well Hole Depth:	125	Well Hole Depth Units:	ft

Ground water levels,Number of Measurements:	1	Level reading date:	1960
Feet below surface:	27.0	Feet to sea level:	Not Reported
Note:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

	Database	EDR ID Number
K30 **East** **1 - 2 Miles** **Higher**	**GA WELLS**	**0000004174**

County code:	115	Well num:	03JJ20
Remarks:	JACK AKRIDGE	Lat:	341522
Lon:	0851845	Latlon datum:	NAD27
Alt:	670	Alt datum:	NGVD29
Depth:	65	Depth to casing:	Not Reported
Casing dia:	Not Reported	Casing matl:	Not Reported
Depth to top:	Not Reported	Depth to bot:	Not Reported
Opening type:	Not Reported	Constr date:	1955
Discharge:	11.7	Prim use:	H
Aquifer code:	371CNSG	Edr id:	0000004174

K31 **East** **1 - 2 Miles** **Higher**	**FED USGS**	**USGS40000266958**

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	03JJ20	Type:	Well
Description:	JACK AKRIDGE	HUC:	03150105
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Valley and Ridge aquifers	Formation Type:	Conasauga Formation
Aquifer Type:	Not Reported	Construction Date:	1955
Well Depth:	65	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

Federal EPA Radon Zone for FLOYD County: 2

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for FLOYD COUNTY, GA

Number of sites tested: 14

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	1.586 pCi/L	93%	7%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	1.767 pCi/L	100%	0%	0%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005, 2010 and 2015 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetlands Inventory
Source: Georgia GIS Clearinghouse
Telephone: 706-542-1581

HYDROGEOLOGIC INFORMATION

AQUIFLOW^{R} Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

OTHER STATE DATABASE INFORMATION

A listing of Private Water Well locations
Georgia Department of Public Health
Telephone: (404) 657-2700
A listing of Private Water Well locations

Georgia Public Supply Wells
Source: Georgia Department of Community Affairs
Telephone: 404-894-0127

USGS Georgia Water Wells
Source: USGS, Georgia District Office
Telephone: 770-903-9100

DNR Managed Lands
Source: Department of Natural Resources
Telephone: 706-557-3032
This dataset provides 1:24,000-scale data depicting boundaries of land parcels making up the public lands managed by the Georgia Department of Natural Resources (GDNR). It includes polygon representations of State Parks, State Historic Parks, State Conservation Parks, State Historic Sites, Wildlife Management Areas, Public Fishing Areas, Fish Hatcheries, Natural Areas and other specially-designated areas. The data were collected and located by the Georgia Department of Natural Resources. Boundaries were digitized from survey plats or other information.

RADON

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary faultlines, prepared in 1975 by the United State Geological Survey

STREET AND ADDRESS INFORMATION

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