



Prepared for

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2023 SEMIANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

PLANT HAMMOND ASH POND 2 (AP-2)

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CERTIFICATION STATEMENT

This 2023 Semiannual Groundwater Monitoring and Corrective Action Report, Plant Hammond – Ash Pond 2 (AP-2) has been prepared in compliance with the United States Environmental Protection Agency Coal Combustion Residual Rule (40 Code of Federal Regulations [CFR] 257 Subpart D), specifically § 257.90(e), and the Georgia Environmental Protection Division Rules for Solid Waste Management 391-3-4-.10 by a qualified groundwater scientist or engineer with Geosyntec Consultants, Inc. I hereby certify that I am a qualified groundwater scientist, in accordance with the Georgia Rules of Solid Waste Management 391-3-4-.01.



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August 31, 2023
Date

SUMMARY

This summary of the *2023 Semiannual Groundwater Monitoring and Corrective Action Report* provides the status of the groundwater monitoring and corrective action program for the reporting period from January to July 2023 (referred to herein as the “semiannual reporting period”) at Georgia Power Company’s (Georgia Power’s) Plant Hammond Ash Pond 2 (AP-2) (the Site). This summary was prepared by Geosyntec Consultants, Inc. (Geosyntec) on behalf of Georgia Power to meet the requirements listed in Part A, Section 6¹ of the United States Environmental Protection Agency (USEPA) Coal Combustion Residual Rule (federal CCR Rule) (40 Code of Federal Regulations [CFR] 257 Subpart D).

Plant Hammond is located at 5963 Alabama Highway SW, approximately 10 miles west of Rome in Floyd County, Georgia. Dewatered ash from AP-2 is excavated and transported to the nearby Huffaker Road facility, a permitted solid waste disposal location owned and operated by Georgia Power. The Site is located on the southwestern portion of the Plant Hammond property. The Georgia Environmental Protection Division (GA EPD) approved closure permit no. 057-024D(CCR) for AP-2 on June 22, 2020.



Plant Hammond and the Site

Groundwater at the Site is monitored using a comprehensive monitoring well network that meets federal and state monitoring requirements. Routine sampling and reporting began after the background groundwater conditions were established between May 2016 and May 2017. Based on groundwater conditions at the Site, an assessment monitoring program and assessment of corrective measures program were established in January 2018 and January 2019, respectively. During the semiannual reporting period, the Site remained in assessment monitoring as corrective measures are being evaluated.

During the semiannual reporting period, Geosyntec conducted one groundwater sampling event in January 2023 in support of the assessment monitoring program. Groundwater samples were submitted to Pace Analytical Services, LLC, for analysis. Per the federal CCR Rule, groundwater data from the semiannual assessment monitoring event

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

conducted during the semiannual reporting period were evaluated in accordance with the certified statistical methods. That evaluation showed statistically significant values of Appendix III² and Appendix IV³ constituents in excess of established groundwater protection standards (GWPS) in select monitoring wells, as summarized in the table below for the 2023 semiannual reporting period.

Appendix III Constituent	January 2023
Boron	HGWC-14, HGWC-15, HGWC-16, HGWC-17, HGWC-18
Calcium	HGWC-14, HGWC-15, HGWC-16, HGWC-17, HGWC-18
Chloride	HGWC-14, HGWC-15, HGWC-16, HGWC-17, HGWC-18
Sulfate	HGWC-14, HGWC-15, HGWC-16, HGWC-17, HGWC-18
Total Dissolved Solids	HGWC-14, HGWC-15, HGWC-16, HGWC-17, HGWC-18
Appendix IV Constituent⁴	January 2023
Cobalt	HGWC-18, MW-33, MW-35

Based on a review of the Appendix III and Appendix IV statistical results completed for the groundwater monitoring and corrective action program for the semiannual reporting period, the Site will continue in assessment monitoring. Georgia Power will continue routine groundwater monitoring and reporting at the Site. Reports will be posted to Georgia Power’s CCR Rule Compliance website and provided to GA EPD semiannually. A *Draft Remedy Selection Report*, which summarizes the evaluation and proposed selection of a corrective measure, or measures, was submitted to GA EPD on August 31, 2022.

² Boron, calcium, chloride, fluoride, pH, sulfate, and total dissolved solids (TDS)

³ Antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, fluoride, lead, lithium, mercury, molybdenum, selenium, thallium, and combined radium 226 + 228

⁴ A statistically significant level (SSL)-related constituent is determined by comparing the confidence intervals developed to either the constituent’s MCL, if available; where an MCL has not been established, then a CCR-rule specific GWPS; or background concentrations for constituents where the concentration is greater than the MCL or rule specified GWPS.

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LIST OF ACRONYMS AND ABBREVIATIONS

ACM	Assessment of Corrective Measures
AP-2	Ash Pond 2
CCR	coal combustion residuals
CFR	Code of Federal Regulations
cm/sec	centimeters per second
DO	dissolved oxygen
ft/day	feet per day
ft/ft	feet per foot
GA-20	Georgia Highway 20
GA EPD	Georgia Environmental Protection Division
Georgia Power	Georgia Power Company
Geosyntec	Geosyntec Consultants, Inc.
GSC	Groundwater Stats Consulting
GWPS	groundwater protection standard
HAR	Hydrogeologic Assessment Report
K_h	horizontal hydraulic conductivity
i	horizontal hydraulic gradient
MCL	Maximum Contaminant Level
mg/L	milligram per liter
n_e	effective porosity
NELAP	National Environmental Laboratory Accreditation Program
NTU	nephelometric turbidity units
ORP	oxidation-reduction potential
Pace Analytical	Pace Analytical Services, LLC.
PE	professional engineer
PL	prediction limit
QA/QC	Quality Assurance/Quality Control
SSI	statistically significant increase
SSL	statistically significant level
s.u.	standard unit
Unified Guidance	Statistical Analysis of Groundwater Data at RCRA Facilities Unified Guidance
USEPA	United States Environmental Protection Agency

1.0 INTRODUCTION

In accordance with the United States Environmental Protection Agency (USEPA) Coal Combustion Residual Rule (federal CCR Rule) (40 Code of Federal Regulations [CFR] Part 257, Subpart D) and the Georgia Environmental Protection Division (GA EPD) Rules for Solid Waste Management 391-3-4-.10, Geosyntec Consultants, Inc. (Geosyntec) has prepared this *2023 Semiannual Groundwater Monitoring and Corrective Action Report* to document groundwater monitoring activities conducted at Georgia Power Company (Georgia Power) Plant Hammond (Site) Ash Pond 2 (AP-2) for the reporting period of January through July 2023 (referred to herein as the “semiannual reporting period”).

Groundwater monitoring and reporting for the CCR unit is performed in accordance with the monitoring requirements of § 257.90 through 257.95 of the federal CCR Rule, and GA EPD Rules for Solid Waste Management 391-3-4-.10(6). To specify groundwater monitoring requirements, GA EPD rule 391-3-4-.10(6)(a) incorporates by reference the federal CCR Rule. For ease of reference, the federal CCR Rule is cited within this report in lieu of citing both sets of regulations. Also, the closure permit issued by GA EPD (i.e., no. 057-024D(CCR)) stipulates that groundwater monitoring is required while CCR waste remains in place at the CCR unit and for no less than 5-years after removal of the material.

Due to statistically significant levels (SSLs) of cobalt identified in the *2018 Annual Groundwater Monitoring and Corrective Action Report* (Geosyntec, 2019a), Georgia Power initiated an assessment of corrective measures (ACM) program for AP-2 in January 2019. Pursuant to § 257.96(b), Georgia Power continues to monitor groundwater associated with AP-2 in accordance with the assessment monitoring program established for the unit in 2018, including semiannual monitoring and reporting pursuant to § 257.90 through § 257.95 of the federal CCR Rule, and GA EPD Rules for Solid Waste Management 391-3-4-.10(6)(a). A *Draft Remedy Selection Report*, which summarizes the evaluation and proposed selection of a corrective measure, or measures, was submitted to GA EPD on August 31, 2022, (Geosyntec, 2022) and is currently under review.

The current reporting period groundwater data indicate that the SSLs for cobalt are horizontally and vertically delineated to below their corresponding groundwater protection standards (GWPS).

1.1 Site Description and Background

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

Plant Hammond was a four-unit, coal-fired electric generating facility. All four units at Plant Hammond were retired on July 29, 2019 and no longer produce electricity.

AP-2 is a 21-acre surface impoundment. Dewatered ash from AP-2 is excavated and transported to the nearby Huffaker Road facility, a permitted solid waste disposal location owned and operated by Georgia Power. Georgia Power will close AP-2 through removal of the CCR material from the CCR unit. The Closure Plan submitted to GA EPD as part of the closure permit application package describes the closure activities and requirements in accordance with § 257.102. The proposed closure by removal approach provides a source control measure that reduces the potential for migration of CCR constituents to groundwater. Details of the closure approach are provided in the Initial Written Closure Plan and published in 2016 to Georgia Power's CCR Rule Compliance website. Closure permit no. 057-024D(CCR) was approved by GA EPD on June 22, 2020.

1.2 Regional Geology and Hydrogeologic Setting

The following section summarizes the geologic and hydrogeologic conditions at AP-2 as described in the *Hydrogeologic Assessment Report Revision 01 – AP-2* (HAR Rev 01) submitted to GA EPD in December 2019 in support of the AP-2 solid waste handling permit (Geosyntec, 2019c).

1.2.1 Regional and Site Geology

The Site is located within the Great Valley District of the Valley and Ridge Physiographic Province (Valley and Ridge) in northwest Georgia. The Valley and Ridge is characterized by Paleozoic sedimentary rocks that have been folded and faulted into the ridges and valleys that gave this region its name. Geologic mapping performed at the Site by Petrologic Solutions, Inc., under the direction of Golder (Golder, 2018), indicates that AP-2 is underlain by the lower units of the Cambrian age Conasauga Formation, consisting of mostly calcareous shale. Based on review of subsurface investigations at

AP-2, the bedrock was identified as predominantly calcareous shale and fissile black shale. AP-2 is underlain primarily by five lithologic units: (i) terrace alluvium; (ii) colluvium; (iii) residuum; (iv) partially weathered shale bedrock; and (v) unweathered shale bedrock.

Based on subsurface investigations, the alluvial deposits generally grade from a silt and silty clay to a clayey sand and silty sand to a sand and gravelly sand at depth. The colluvium consists of silty sand, silty clay with angular and sub-rounded chert fragments, and dolomite, sandstone, and shale fragments. Residual or native soils have been derived from the in-place weathering of the shale bedrock. The residuum is generally described as brown to yellow brown firm clayey silt with weathered shale fragments. The partially weathered shale zone occurs as an intermediate weathering stage between the residuum and the unweathered shale bedrock. The weathered material is described as black to dark gray to dark red hard, fissile shale and claystone. The unweathered shale bedrock was not encountered or directly observed in the historical borings advanced at the Site. However, based on geologic conditions in the region, weathering, fracturing and jointing decreases with depth, and the weathered rock material grades into competent bedrock.

1.2.2 Hydrogeologic Setting

The uppermost aquifer at AP-2 is a regional groundwater aquifer that occurs primarily in the alluvial, colluvial, and residuum and within the weathered and fractured bedrock. The movement of groundwater in the soil can be characterized as low-to moderate permeability, porous media flow based on hydraulic field testing at the Site (slug testing). The groundwater flow in the shallow underlying bedrock is characterized as fracture flow and is expected to be very low permeability due to the preponderance of shale beneath AP-2. The regional groundwater flow direction is expected to be from north to south; however, the local flow direction beneath AP-2 is predominantly east to west with an additional southerly component. Under post-closure conditions, the groundwater flow direction is anticipated to more closely resemble the regional flow regime (north to south toward the Coosa River).

1.3 Groundwater Monitoring Well Network

In accordance with § 257.91, a groundwater monitoring system was installed at AP-2 that consists of a sufficient number of wells installed at appropriate locations and depths to yield groundwater samples from the uppermost aquifer to represent the groundwater quality both upgradient of the units (i.e., background conditions) and passing the waste

boundary of the units. The number, spacing, and depths of the groundwater monitoring wells were selected based on the characterization of site specific hydrogeologic conditions.

As part of the assessment monitoring program, assessment wells have been installed since 2018 to supplement the pre-existing detection monitoring wells and characterize the nature and extent of SSLs in groundwater downgradient of AP-2. Pursuant to § 257.95(g)(1)(iv), the wells classified as “assessment monitoring wells” will continue to be sampled concurrently with the detection monitoring well network as part of the ongoing assessment groundwater monitoring program. Former piezometers MW-33, MW-35, and MW-51 have been reclassified as assessment monitoring wells.

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

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

2.0 GROUNDWATER MONITORING ACTIVITIES

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

2.1 Monitoring Well Installation and Maintenance

Thirteen piezometers (MW-55 through MW-59, INW-01, INW-02, and PT-01 through PT-06) were installed in June 2023; the locations of these 13 piezometers are shown on **Figure 2**. MW-55 through MW-59 were installed to provide additional data to define groundwater flow direction, gradients, and characterize groundwater quality downgradient of AP-2. INW-01 and INW-02 were installed as injection points for the pilot study injections scheduled for August 2023 in support of the ACM program. PT-01 through PT-06 were installed to specifically monitor the performance of the pilot study injections.

The well and piezometer networks are inspected semiannually to evaluate if any repairs or corrective actions are necessary to meet the requirements of the Georgia Water Well Standards Act (O.C.G.A. § 12-5-134(5)(d)(vii)). In January 2023, the networks were inspected, necessary corrective actions were identified and subsequently completed, as documented in **Appendix A**. This documentation was prepared under the direction of a professional geologist or engineer registered in the State of Georgia.

2.2 Assessment Monitoring

Georgia Power initiated an assessment monitoring program for groundwater at AP-2 in January 2018 based on statically significant increases (SSIs) of Appendix III constituents documented in the *2017 Annual Groundwater Monitoring and Corrective Action Report* (ERM, 2018). A notice of assessment monitoring was placed in the operating record on May 15, 2018. Currently, cobalt is the only Appendix IV constituent identified at SSLs in exceedance of the GWPS; SSLs have been identified in HGWC-18, MW-33, and MW-35.

Pursuant to § 257.96, an ACM was initiated for AP-2 in January 2019. An *Assessment of Corrective Measures Report – Plant Hammond Ash Pond 2 (AP-2)* (ACM Report) was subsequently prepared for AP-2 (Geosyntec, 2019b) and submitted to GA EPD in June 2019 and posted to Georgia Power’s CCR Rule Compliance website in July 2019. A

Draft Remedy Selection Report, which summarizes the evaluation and proposed selection of a corrective measure, or measures, was submitted to GA EPD on August 31, 2022 (Geosyntec, 2022). In accordance with § 257.96(b), groundwater continues to be monitored at AP-2 under the assessment monitoring program while the ACM phase is implemented.

In support of the routine assessment monitoring program, the semiannual assessment monitoring event was conducted in January 2023. The wells sampled and the dates the samples were collected at AP-2 during the semiannual reporting period are summarized in **Table 2**. Details of these events and analytical results are discussed in Section 3.

2.3 Additional Evaluations

Due to the presence of surface water features immediately downgradient of select wells reporting SSLs, Georgia Power collected surface water samples in January 2023 from three locations in the unnamed creek west of AP-2 (AP2-Up, AP2-Mid, AP2-Down) and three locations in the Coosa River, as shown on **Figure 2** (i.e., H+0.25, H+0.35, H+0.75), to horizontally delineate identified SSLs of Appendix IV constituents in groundwater at AP-2. The laboratory reports associated with the sampling events are provided in **Appendix B**. Georgia Power will continue collecting the surface water samples semiannually to support ACM efforts.

Pre-design investigations (PDI) were completed in February 2023 to characterize and refine proposed in-situ injection treatment areas proximal to HGWC-18 and MW-33/MW-35. Seven direct push technology (DPT) borings were advanced near HGWC-18 and seven borings near MW-33/MW-35 for the collection of remedial design parameters and screening-level groundwater data. These analytical results were used to determine the locations and depths of pilot study injection and performance monitoring piezometers. The results were summarized in *HGWC-18 Pilot Study Workplan* (Geosyntec, 2023a) and *MW-33 and MW-35 Pilot Study Workplan* (Geosyntec, 2023b). Baseline sampling of the eight piezometers installed in support of the pilot study injections (INW-01, INW-02, and PT-01 through PT-06) was performed in July 2023. These analytical results will be summarized in the next semiannual groundwater monitoring report and a comprehensive technical memorandum that will be prepared at the conclusion of the pilot study for inclusion in a subsequent semiannual groundwater monitoring report. Field and laboratory reports will be included in next semiannual groundwater monitoring report.

3.0 SAMPLING METHODOLOGY AND ANALYSES

The following section presents a summary of the field sampling procedures that were implemented, and the groundwater sampling results that were obtained, in connection with the assessment monitoring program conducted at AP-2 during the semiannual reporting period.

3.1 Groundwater and Surface Water Level Measurement

A synoptic round of depth-to-groundwater-level measurements were recorded from the AP-2 wells and piezometers during the January 2023 assessment monitoring event and used to calculate the corresponding groundwater elevations, which are presented in **Table 3**. The January 2023 groundwater elevations are generally representative of the groundwater elevations reported for prior monitoring events.

Surface water elevations were recorded from a surveyed measuring point located midway across the service bridge, located midway along the unnamed creek west of AP-2 ('Unnamed Creek' location), and at the Coosa River staff gauge located downgradient of AP-1, as shown in **Figure 3**.

The groundwater and surface water elevation data were used to prepare a potentiometric surface map for the January 2023 gauging event, which is presented on **Figure 3**. Groundwater in the AP-2 area flows under the influence of topography from higher elevations on the northern and eastern side of the Site in a westerly direction beneath AP-2 with a southerly flow component. This groundwater flow pattern is consistent with previous observations.

3.2 Groundwater Gradient and Flow Velocity

The horizontal groundwater hydraulic gradient within the uppermost aquifer beneath AP-2 was calculated using the groundwater elevation data from the January 2023 gauging event. A horizontal hydraulic gradient is commonly calculated between two points along the groundwater flow path perpendicular to groundwater elevation contours. Ideally, this flow path originates and concludes with groundwater elevations reported for two wells, but this may not be feasible and still remain perpendicular to the contours. The horizontal hydraulic gradient in this report was calculated between upgradient and downgradient wells selected to provide the most accurate alignment possible relative to the interpreted groundwater flow path. The horizontal hydraulic gradient was calculated across the central portion of AP-2 between MW-18 and HGWC-17. The supporting

calculations are presented in **Table 4**. The general trajectory of the flow path used in the calculations and associated potentiometric contour lines are shown on **Figures 3**. The hydraulic gradient along the westerly flow path lines for the semiannual reporting period is 0.009 feet per foot (ft/ft).

The approximate horizontal flow velocity associated with AP-2 was calculated using the following derivative of Darcy's Law. The calculation is presented in **Table 4**.

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

where:

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

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

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

h_1 and h_2 = Groundwater elevation at location 1 and 2

L = distance between location 1 and 2

n_e = Effective porosity

The horizontal hydraulic conductivity (K_h) measurements were calculated from slug test data collected in AP-2 wells and piezometers. As presented in the HAR Rev 01, results were broadly grouped based on the lithology in which the wells or piezometers were screened. The geometric mean of the K_h values of the alluvium, colluvium, residuum, and partially weathered shale bedrock were used to represent the overall hydraulic conductivity at AP-2 of 5.17×10^{-4} centimeters per second (cm/sec) (1.47 feet per day [ft/day]) (Geosyntec, 2019c). An effective porosity value of 0.15 was used to represent average lithologic conditions at AP-2, derived based on review of literature (Kresic, 2007), observed site lithology, and professional judgement. Applying these values and the hydraulic gradient, the groundwater flow velocity underneath AP-2 for the semiannual reporting period was calculated to be 0.088 ft/day.

3.3 Groundwater Sampling Procedures

Groundwater samples were collected using low-flow sampling procedures in accordance with § 257.93(a). Purging and sampling was performed using dedicated bladder pumps with dedicated tubing, non-dedicated bladder pumps, and peristaltic pumps. For wells sampled with non-dedicated bladder pumps and peristaltic pumps, the pump intake was lowered to the midpoint of the well screen (or as appropriate based on the groundwater level). Non-dedicated bladder pump and peristaltic pump samples were collected using new disposable polyethylene tubing; all non-dedicated tubing was disposed of following the sampling event. All non-disposable equipment was decontaminated before use and between well locations.

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

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

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

3.4 Laboratory Analyses

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

3.5 Quality Assurance and Quality Control Summary

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

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

4.0 STATISTICAL ANALYSIS

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

4.1 Statistical Methods

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

Appendix III statistical analysis was performed to assess if Appendix III constituents have returned to background levels. Appendix IV constituents were evaluated to assess if concentrations statistically exceeded the established GWPS. Detailed statistical methods used for Appendix III and Appendix IV constituents are discussed in statistical analysis package provided in **Appendix C** and summarized in Sections 4.1.1 and 4.1.2. The GWPS were finalized pursuant to § 257.95(d)(2) and presented in **Table 7**.

4.1.1 Appendix III Statistical Methods

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

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

4.1.2 Appendix IV Statistical Methods

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

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

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

- (1) The maximum contaminant level (MCL) established under § 141.62 and § 141.66.
- (2) Where an MCL has not been established:
 - (i) Cobalt 0.006 mg/L;
 - (ii) Lead 0.015 mg/L;
 - (iii) Lithium 0.04 mg/L; and
 - (iv) Molybdenum 0.1 mg/L.
- (3) Background levels for constituents where the background level is higher than the MCL or rule-specified GWPS.

Following the above requirements, GWPS have been established for statistical comparison of Appendix IV constituents and are presented in **Table 7**.

4.2 Statistical Analyses Results

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

4.2.1 January 2023 Data

- Cobalt: HGWC-18, MW-33, and MW-35

Wells with SSLs were further evaluated using the Sen's Slope/Mann Kendall trend test (**Appendix C**). A statistically significant decreasing trend of cobalt was identified during this reporting period in HGWC-18. No statistically significant trends of cobalt were identified for MW-33 and MW-35.

4.2.2 Summary of Statistical Analyses

The SSLs identified for the semiannual reporting period are generally consistent with the 2022 annual reporting period.

5.0 NATURE AND EXTENT

Based on the groundwater data presented herein, the cobalt SSLs are horizontally and vertically delineated to below the site specific GWPS (0.038 mg/L) in HGWC-18, MW-33, and MW-35. The groundwater data from the January 2023 semiannual assessment monitoring event were used to generate the cobalt iso-concentration maps presented on **Figure 4**.

Delineation is determined by confidence intervals (statistical analysis) prepared for the assessment wells. On the northwest side of AP-2, HGWC-18 is vertically delineated by MW-21D. The conceptual site model on the south side of the pond consists of southerly groundwater flow through alluvium toward the Coosa River. MW-33 is vertically delineated by MW-34D upgradient of the river. However, as groundwater nears the Coosa River, it begins to flow upward and join the Coosa River. As such, to properly characterize the deeper groundwater south of MW-34D as it migrates downgradient, MW-51 was installed with a shallower screen interval to not only horizontally delineate cobalt at MW-35 but also to account for the upward movement of groundwater adjacent to the river. Statistical analysis of the MW-51 groundwater data delineates the horizontal extent of the SSLs of cobalt in MW-33 and MW-35 and the vertical extent of cobalt in MW-35 to below the GWPS.

Due to the presence of a surface water feature (unnamed creek) west of AP-2 in the downgradient direction of HGWC-18 (refer to **Figure 2**), installation of additional wells to horizontally characterize this area is infeasible. For this reason, Georgia Power proactively began collecting surface water samples in July 2020. Cobalt was not detected above the laboratory reporting limit (0.0050 mg/L) in surface water samples collected in January 2023 from the three locations in the unnamed creek (AP2-Up, AP2-Mid, and AP2-Down) shown on **Figure 2**. No cobalt impacts to surface water have been detected; and therefore, the cobalt SSL observed in HGWC-18 is horizontally delineated.

Surface water samples were also collected from the Coosa River in January 2023. Three sampling locations (i.e., H+0.25, H+0.35, H+0.75) are in the vicinity of MW-33 and MW-35 and relevant to conditions at AP-2. These three locations are shown on **Figure 2**. Cobalt was not detected above the laboratory reporting limit (0.0050 mg/L) in any of the Coosa River samples. The surface water data supplements the horizontal and vertical groundwater delineation status provided by MW-51. The January 2023 data associated with the unnamed creek and the Coosa River surface water sampling events are presented in **Table 6** and the laboratory reports are included in **Appendix B**.

6.0 MONITORING PROGRAM STATUS

6.1 Assessment Monitoring Status

Pursuant to § 257.96(b), Georgia Power will continue to monitor the groundwater at AP-2 in accordance with the assessment monitoring program regulations of § 257.95 while ACM efforts are implemented to address SSLs of cobalt in select AP-2 wells. Pursuant to § 257.95(g)(1)(iv), the assessment monitoring wells will continue to be sampled as part of the ongoing assessment groundwater monitoring program.

6.2 Assessment of Corrective Measures

A *Draft Remedy Selection Report* was submitted to GA EPD on August 31, 2022 (Geosyntec, 2022), in lieu of the *Semiannual Remedy Selection and Design Progress Reports* (semiannual progress reports) previously included in the appendix of the routine annual groundwater monitoring and corrective action reports. The *Draft Remedy Selection Report* was submitted under separate cover and is currently being reviewed by GA EPD. The report summarizes:

- The current groundwater conceptual site model applicable to evaluating groundwater corrective measures proposed in the ACM Report (Geosyntec, 2019b);
- An evaluation of each corrective measure retained for further consideration following the completed investigations; and
- An evaluation of corrective measure options using the comparative criteria such as long- and short-term effectiveness and protectiveness, source control effectiveness, and ease of implementation. The *Draft Remedy Selection Report* presents geochemical approaches (in-situ injections) coupled with monitored natural attenuation as the proposed groundwater remedy for AP-2.

In the interim of GA EPD's review of the *Draft Remedy Selection Report*, the state agency issued a letter on September 23, 2022, stating their support for Georgia Power to initiate a pilot study at AP-2 to facilitate further remedy design. Georgia Power submitted separate workplans for HGWC-18 and MW-33/MW-35 to GA EPD outlining the design and implementation of this pilot study prior (Geosyntec, 2023a, 2023b). Updates concerning the pilot study results will be reported to GA EPD as brief summaries included as part of semiannual groundwater monitoring and corrective action reporting. A

comprehensive technical memorandum will be prepared at the conclusion of the pilot study for inclusion in a semiannual groundwater monitoring report. This technical memorandum will summarize pilot study results and provide recommendations for the design and implementation of the full-scale groundwater remedy. If pilot study results support full-scale implementation, Georgia Power anticipates receiving written authorization from GA EPD to hold the public meeting with the selected remedy of geochemical approaches (in-situ injection) and monitored natural attenuation (MNA). After the public meeting, Georgia Power will revise the Draft Remedy Selection Report, incorporating results of the pilot study and public meeting comments.

7.0 CONCLUSIONS AND FUTURE ACTIONS

This 2023 *Semiannual Groundwater Monitoring and Corrective Action Report* for Plant Hammond AP-2 was prepared to fulfill the requirements of the federal CCR Rule and GA EPD Rules for Solid Waste Management 391-3-4-.10. Statistical analyses of the groundwater monitoring data for AP-2 for the semiannual reporting period identified the continued presence of SSLs of cobalt in HGWC-18, MW-33, and MW-35. Based on the most current groundwater quality, the SSLs are vertically and horizontally delineated to below the site specific GWPS.

Georgia Power will continue to monitor AP-2 groundwater under the assessment monitoring program as aspects of the ACM program are implemented to address the Appendix IV SSLs. A *Draft Remedy Selection Report*, which summarizes the evaluation and proposed selection of a corrective measure, or measures, was submitted to GA EPD on August 31, 2022 (Geosyntec, 2022). The next routine semiannual assessment monitoring event for AP- 2 is scheduled for August 2023. Progress made regarding the pilot studies and corrective action design will be documented in the next groundwater monitoring and corrective action report. A comprehensive technical memorandum will be prepared at the conclusion of the pilot study for inclusion in a semiannual groundwater monitoring report.

8.0 REFERENCES

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TABLES

Table 1A
Monitoring Well Network Summary
Plant Hammond AP-2, Floyd County, Georgia

Well ID	Hydraulic Location	Installation Date	Northing ⁽¹⁾	Easting ⁽¹⁾	Ground Surface Elevation (ft)	Top of Casing Elevation ⁽¹⁾ (ft)	Top of Screen Elevation ⁽¹⁾ (ft)	Bottom of Screen Elevation ⁽¹⁾ (ft)	Well Depth (ft BTOC) ⁽²⁾	Screen Interval Length (ft)
Detection Monitoring Well										
HGWA-1	Upgradient	12/3/2014	1550423.32	1940770.00	592.32	595.21	573.12	563.12	32.49	10
HGWA-2	Upgradient	12/2/2015	1549796.87	1939845.15	585.29	587.92	570.29	560.29	27.95	10
HGWA-3	Upgradient	12/2/2015	1549794.41	1939833.39	585.23	587.74	553.23	543.23	44.51	10
HGWA-4	Upgradient	12/3/2014	1549930.45	1939385.45	584.94	587.60	572.24	562.24	25.76	10
HGWA-5	Upgradient	12/10/2015	1548633.33	1937184.17	580.52	583.24	564.92	554.92	28.72	10
HGWA-6	Upgradient	12/11/2015	1548636.35	1937177.73	580.72	583.38	543.72	533.72	49.66	10
HGWA-42D	Upgradient	8/27/2020	1549363.72	1938443.86	583.39	586.17	528.39	518.39	68.03	10
HGWA-43D	Upgradient	8/26/2020	1550422.85	1940753.80	592.08	595.08	544.08	534.08	61.25	10
HGWA-44D	Upgradient	8/25/2020	1550409.13	1940756.18	592.01	594.79	491.76	481.76	113.28	10
HGWC-14	Downgradient	10/16/2014	1547998.96	1938406.27	594.67	597.25	564.67	554.67	42.98	10
HGWC-15	Downgradient	10/20/2014	1547875.33	1937854.92	578.73	581.49	553.93	543.93	37.96	10
HGWC-16	Downgradient	10/21/2014	1548209.83	1937540.33	577.36	580.02	557.36	547.36	33.06	10
HGWC-17	Downgradient	10/22/2014	1548449.71	1937538.98	581.51	584.30	566.91	556.91	27.79	10
HGWC-18	Downgradient	10/22/2014	1548821.27	1937558.32	581.36	584.18	566.86	556.86	27.71	10
Assessment Monitoring Well										
MW-21D	Downgradient	11/19/2018	1548814.86	1937555.78	581.16	583.84	542.36	532.36	51.88	10
MW-22	Downgradient	11/15/2018	1547854.68	1937832.04	576.05	578.51	551.45	541.45	37.47	10
MW-23D	Downgradient	11/15/2018	1547876.55	1937843.89	579.06	581.30	529.46	519.46	62.24	10
MW-33	Downgradient	11/21/2019	1547973.50	1938412.13	591.19	593.92	566.60	556.60	37.72	10
MW-34D	Downgradient	5/6/2020	1547996.82	1938392.20	593.83	596.51	530.48	520.48	73.68	10
MW-35	Downgradient	5/13/2020	1547905.33	1938417.82	571.88	574.40	558.70	548.70	23.52	10
MW-37D	Downgradient	5/8/2020	1548803.01	1937551.05	580.95	583.58	514.65	504.65	76.63	10
MW-51	Downgradient	7/22/2021	1547872.35	1938421.46	571.57	574.54	556.47	546.47	28.90	10

Notes:

ft = feet

BTOC = below top of casing

(1) Coordinates in North American Datum (NAD) 1983, State Plane, Georgia-West, feet. Elevations referenced to the North American Vertical Datum of 1988 (NAVD88). Survey completed by GEL Solutions dated May 19, 2020 and September 10, 2020 (for HGWA-42D, HGWA-43D, and HGWA-44D), September 8, 2021 (for MW-51), and April 11, 2022 (for MW-52).

(2) Total well depth accounts for sump if data provided on well construction logs.

Table 1B
Piezometer Network Summary
Plant Hammond AP-2, Floyd County, Georgia

Well ID	Hydraulic Location	Installation Date	Northing ⁽¹⁾	Easting ⁽¹⁾	Ground Surface Elevation (ft)	Top of Casing Elevation ⁽¹⁾ (ft)	Top of Screen Elevation ⁽¹⁾ (ft)	Bottom of Screen Elevation ⁽¹⁾ (ft)	Well Depth (ft BTOC) ⁽²⁾	Screen Interval Length (ft)
MW-8	Downgradient	10/29/2014	1548171.86	1940016.70	584.25	586.93	565.05	555.05	32.72	10
MW-9	Downgradient	10/29/2014	1548131.38	1938922.16	588.42	590.95	569.12	559.12	32.95	10
MW-12	Downgradient	10/21/2014	1547853.78	1937525.46	580.59	583.27	555.79	545.79	38.94	10
MW-16	Upgradient	10/27/2014	1549104.17	1937940.06	571.70	574.22	562.20	552.20	23.42	10
MW-17	Upgradient	10/28/2014	1549163.28	1938345.81	583.68	586.78	568.98	558.98	29.09	10
MW-18	Upgradient	10/29/2014	1548984.15	1938712.73	589.75	592.28	571.05	561.05	32.42	10
MW-36D	Downgradient	5/7/2020	1548435.43	1937538.19	581.44	584.10	534.12	524.12	57.65	10
MW-52	Upgradient	1/25/2022	1549277.59	1938398.82	583.25	586.11	573.29	563.29	20.29	10
MW-55	Downgradient	6/13/2023	1548823.40	1937575.72	582.78	582.49	566.78	556.78	26.40	10
MW-56	Downgradient	6/16/2023	1547906.81	1938260.81	570.60	573.47	559.60	549.60	24.27	10
MW-57	Downgradient	6/16/2023	1547895.53	1938349.49	571.30	574.28	560.50	550.50	24.18	10
MW-58	Downgradient	6/17/2023	1547931.46	1938592.55	572.96	575.87	559.46	549.46	26.81	10
MW-59	Downgradient	6/14/2023	1547971.14	1938344.65	589.52	592.20	560.02	550.02	42.58	10
INW-01	Downgradient	6/16/2023	1547921.52	1938350.62	571.04	573.90	561.04	551.04	23.26	10
INW-02	Downgradient	6/6/2023	1548915.00	1937643.89	580.78	580.56	555.78	545.78	35.40	10
PT-01	Downgradient	6/17/2023	1547916.85	1938348.81	571.14	574.13	561.24	551.24	23.29	10
PT-02	Downgradient	6/16/2023	1547917.68	1938353.52	571.10	574.06	561.10	551.10	23.36	10
PT-03	Downgradient	6/17/2023	1547910.57	1938352.13	571.10	574.09	561.10	551.10	23.39	10
PT-04	Downgradient	6/6/2023	1548918.26	1937641.91	580.50	580.26	556.70	546.70	34.21	10
PT-05	Downgradient	6/12/2023	1548913.06	1937638.48	580.83	580.54	555.73	545.73	35.50	10
PT-06	Downgradient	6/7/2023	1548916.95	1937634.25	580.68	580.36	555.68	545.68	35.39	10

Notes:

ft = feet

BTOC = below top of casing

(1) Coordinates in North American Datum (NAD) 1983, State Plane, Georgia-West, feet. Elevations referenced to the North American Vertical Datum of 1988 (NAVD88). Survey completed by GEL Solutions dated May 19, 2020 and April 11, 2022 (for MW-52), and July 17 and 26, 2023 (for MW-55 through MW-59, INW-01, INW-02, PT-01 through PT-06).

(2) Total well depth accounts for sump if data provided on well construction logs.

Table 2
Groundwater Sampling Event Summary
Plant Hammond AP-2, Floyd County, Georgia

Well ID	Hydraulic Location	January 23 - February 1, 2023	Status of Monitoring Well
Purpose of Sampling Event:		Assessment	
<i>Detection Monitoring Well</i>			
HGWA-1	Upgradient	X	Assessment
HGWA-2	Upgradient	X	Assessment
HGWA-3	Upgradient	X	Assessment
HGWA-4	Upgradient	X	Assessment
HGWA-5	Upgradient	X	Assessment
HGWA-6	Upgradient	X	Assessment
HGWA-42D	Upgradient	X	Assessment
HGWA-43D	Upgradient	X	Assessment
HGWA-44D	Upgradient	X	Assessment
HGWC-14	Downgradient	X	Assessment
HGWC-15	Downgradient	X	Assessment
HGWC-16	Downgradient	X	Assessment
HGWC-17	Downgradient	X	Assessment
HGWC-18	Downgradient	X	Assessment
<i>Assessment Monitoring Well</i>			
MW-21D	Downgradient	X	Assessment
MW-22	Downgradient	X	Assessment
MW-23D	Downgradient	X	Assessment
MW-33	Downgradient	X	Assessment
MW-34D	Downgradient	X	Assessment
MW-35	Downgradient	X	Assessment
MW-37D	Downgradient	X	Assessment
MW-51	Downgradient	X	Assessment

Table 3
 Summary of Groundwater and Surface Water Elevations
 Plant Hammond AP-2, Floyd County, Georgia

Well ID	Top of Casing Elevation ⁽¹⁾ (ft)	January 23, 2023	
		Depth to Water (ft BTOC)	Groundwater Elevation ⁽¹⁾ (ft)
<i>Detection Monitoring Well</i>			
HGWA-1	595.21	10.25	584.96
HGWA-2	587.92	8.05	579.87
HGWA-3	587.74	7.50	580.24
HGWA-4	587.60	4.83	582.77
HGWA-5	583.24	4.59	578.65
HGWA-6	583.38	3.95	579.43
HGWA-42D	586.17	9.41	576.76
HGWA-43D	595.08	10.23	584.85
HGWA-44D	594.79	10.96	583.83
HGWC-14	597.25	29.31	567.94
HGWC-15	581.49	16.00	565.49
HGWC-16	580.02	13.80	566.22
HGWC-17	584.30	18.88	565.42
HGWC-18	584.18	18.45	565.73
<i>Piezometer</i>			
MW-8	586.93	19.14	567.79
MW-9	590.95	18.24	572.71
MW-12	583.27	19.03	564.24
MW-16	574.22	5.60	568.62
MW-17	586.78	8.15	578.63
MW-18	592.28	14.90	577.38
MW-36D	584.10	17.93	566.17
MW-52	586.11	7.79	578.32
<i>Assessment Monitoring Well</i>			
MW-21D	583.84	17.64	566.20
MW-22	578.51	14.13	564.38
MW-23D	581.30	17.41	563.89
MW-33	593.92	26.18	567.74
MW-34D	596.51	31.42	565.09
MW-35	574.40	9.54	564.86
MW-37D	583.58	17.26	566.32
MW-51	574.54	9.88	564.66
<i>Surface Water Level Gauge Point</i>			
Coosa River ⁽²⁾	--	--	563.00
Unnamed Creek	580.14 ⁽³⁾	16.48	563.66

Notes:

-- = not measured or not applicable

ft = feet

BTOC = below top of casing

(1) Elevations referenced to the North American Vertical Datum of 1988 (NAVD88). Survey data dated May 19, 2020, September 10, 2020 (for HGWA-42D HGWA-43D, and HGWA-44D), September 8, 2021 (for MW-51), and April 11, 2022 (for MW-52).

(2) Coosa River staff gauge located approximately 3,250 feet upstream of the confluence of the Unnamed Creek with the Coosa River.

(3) Surveyed reference point located midway across the service bridge located immediately west of AP-2 (Figure 3). The value presented in the "Depth to Water" column represents the measured distance from the bridge to the top of water, in feet.

Table 4
 Horizontal Groundwater Gradient and Flow Velocity Calculations
 Plant Hammond AP-2, Floyd County, Georgia

January 23, 2023				
Flow Path Direction ⁽¹⁾	h ₁ (ft)	h ₂ (ft)	L (ft)	i (ft/ft)
Westerly Flow Path (MW-18 to HGWC-17)	577.38	565.42	1,350	0.009

Flow Path Direction ⁽¹⁾	K _h (ft/d)	n _e	i (ft/ft)	V (ft/d) ⁽²⁾
Westerly Flow Path (MW-18 to HGWC-17)	1.47	0.15	0.009	0.088

Notes:

ft = feet

ft/day = feet per day

ft/ft = feet per foot

h₁ and h₂ = groundwater elevation at location 1 and 2

i = h₁-h₂/L = horizontal hydraulic gradient

K_h = horizontal hydraulic conductivity

L = distance between location 1 and 2 along the flow path

n_e = effective porosity

V = groundwater flow velocity

(1) Flow path direction relative to the orientation of AP-2 and illustrated on Figure 3 of associated report.

(2) Groundwater flow velocity equation: $V = [K_h * i] / n_e$

Table 5
Summary of Groundwater Analytical Data
Plant Hammond AP-2, Floyd County, Georgia

Well ID:	HGWA-1	HGWA-2	HGWA-3	HGWA-4	HGWA-5	HGWA-6	HGWA-42D	HGWA-43D	HGWA-44D	HGWC-14	HGWC-15	HGWC-16	HGWC-17	HGWC-18	MW-21D	MW-22	MW-23D	MW-33	MW-34D	MW-35	MW-37D	MW-51	
Sample Date:	1/24/2023	1/24/2023	1/23/2023	1/23/2023	1/27/202	1/27/2023	1/23/2023	1/24/2023	1/24/2023	2/1/2023	2/1/2023	2/1/2023	1/30/2023	2/1/2023	1/27/2023	1/30/2023	2/1/2023	1/27/2023	1/30/2023	2/1/2023	1/30/2023	2/1/2023	
Parameter ^(1,2,3)																							
APPENDIX III	Boron	0.015 J	0.046	0.012 J	0.023 J	<0.0086	0.013 J	0.052	0.037 J	0.44	7.7	2.0	2.8	6.8	5.9	3.6	2.4	3.0	4.6	8.0	8.7	0.15	8.3
	Calcium	117	29.4	85.0	24.0	28.5	55.4	43.7	56.6	13.2	464	174	216	286	288	281	189	294	371	558	503	74.6	492
	Chloride	9.0	7.1	5.6	1.6	1.6	1.4	3.3	4.3	24.9	108	85.0	112	154	92.7	167	109	137	83.4	173	189	49.2	158
	Fluoride	0.089 J	0.053 J	0.061 J	0.12	0.088 J	0.067 J	0.11	0.23	1.3	0.094 J	0.086 J	0.053 J	0.097 J	0.21	0.050 J	0.064 J	0.074 J	0.087 J	0.089 J	0.10	0.092 J	0.18
	pH	6.76	5.23	7.32	5.62	6.52	7.66	7.55	7.56	8.22	4.93	6.22	7.15	6.44	4.66	7.31	5.47	6.69	5.61	6.99	4.89	7.56	6.37
	Sulfate	48.3	79.7	39.5	42.5	22.7	35.00	11.1	34.7	10.1	1,060	341	257	451	776	646	445	438	895	1,120	1,190	85.2	1,110
	TDS	369	164	293	128	182	229	168	271	363	1,950	892	1,030	1,320	1,430	1,420	961	1,320	1,570	2,230	2,410	226	2,090
APPENDIX IV	Antimony	<0.00078	<0.00078	<0.00078	<0.00078	<0.00078	<0.00078	0.0016 J	<0.00078	<0.00078	<0.00078	0.0021 J	<0.00078	<0.00078	<0.00078	<0.00078	<0.00078	<0.00078	<0.00078	0.0018 J	0.0018 J	<0.00078	<0.00078
	Arsenic	<0.0022	<0.0022	<0.0022	<0.0022	<0.0022	<0.0022	<0.0022	<0.0022	0.0027 J	0.0040 J	<0.0022	<0.0022	0.0028 J	0.0036 J	<0.0022	<0.0022	<0.0022	0.0031 J	0.0047 J	0.0060	<0.0022	0.0041 J
	Barium	0.033	0.088	0.13	0.057	0.044	0.20	0.21	0.28	0.18	0.017	0.021	0.11	0.030	0.019	0.031	0.014	0.047	0.018	0.040	0.022	0.13	0.033
	Beryllium	<0.000054	0.00016 J	<0.000054	<0.000054	<0.000054	<0.000054	<0.000054	<0.000054	<0.000054	0.00039 J	<0.000054	<0.000054	0.000057 J	0.0020	<0.000054	0.000081 J	<0.000054	0.00019 J	<0.000054	0.00049 J	<0.000054	0.00028 J
	Cadmium	<0.00011	0.00021 J	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	0.00088	<0.00011	<0.00011	0.0010	<0.00011	0.0017	0.00012 J	0.00017 J	0.00047 J	0.0017	<0.00011	0.0016
	Chromium	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0055	<0.0055	<0.0055	<0.0011	<0.0055	<0.0011	<0.0011	<0.0055	<0.0011	<0.0011	<0.0055	<0.0011	<0.0055
	Cobalt	<0.00039	0.024	<0.00039	0.00049 J	0.00063 J	<0.00039	<0.00039	<0.00039	<0.00039	0.035	0.0091	<0.00039	0.011	0.11	<0.00039	0.027	0.00081 J	0.034	0.0071	0.088	<0.00039	0.021 J
	Fluoride	0.089 J	0.053 J	0.061 J	0.12	0.088 J	0.067 J	0.11	0.23	1.3	0.094 J	0.086 J	0.053 J	0.097 J	0.21	0.050 J	0.064 J	0.074 J	0.087 J	0.089 J	0.10	0.092 J	0.18
	Lead	<0.00089	<0.00089	<0.00089	<0.00089	<0.00089	<0.00089	<0.00089	<0.00089	<0.00089	0.0011	<0.00089	<0.00089	<0.00089	<0.00089	<0.00089	<0.00089	<0.00089	<0.00089	<0.00089	<0.00089	<0.00089	<0.00089
	Lithium	0.00092 J	0.0014 J	0.003 J	<0.00073	0.0030 J	0.0096 J	0.0097 J	0.002 J	0.064	<0.00073	0.016 J	0.0036 J	0.0014 J	0.0093 J	0.018 J	0.0011 J	0.0019 J	<0.00073	0.0013 J	0.0034 J	0.021 J	0.0015 J
	Mercury	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013	<0.00013	0.00084	<0.00013	<0.00013
	Molybdenum	<0.00074	<0.00074	<0.00074	<0.00074	<0.00074	<0.00074	<0.00074	0.0027 J	0.0026 J	<0.00074	<0.00074	<0.00074	<0.00074	<0.00074	0.028	<0.00074	0.0041 J	<0.00074	<0.00074	<0.00074	0.0063 J	<0.00074
	Comb. Radium 226/228	0.549 U	0.829 U	0.311 U	0.961 U	1.47 U	0.801 U	1.12 U	1.25	0.421 U	1.13 U	0.626 U	0.757 U	0.500 U	0.871	0.256 U	0.621 U	0.406 U	1.44 U	0.689 U	1.24 U	0.309 U	0.820 U
	Selenium	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	0.0036 J	<0.0014	<0.0014	<0.0014	0.0054	<0.0014	<0.0014	<0.0014	0.015	<0.0014	0.0063	<0.0014	0.0021 J
Thallium	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	0.00047 J	0.00022 J	<0.00018	0.00025 J	<0.00018	<0.00018	<0.00018	<0.00018	0.00021 J	<0.00018	<0.00018	<0.00018	<0.00018	

Notes:

< = Indicates the parameter was not detected above the analytical MDL.

J = Indicates the parameter was estimated and detected between the MDL and the reporting limit (RL)

TDS = Total dissolved solids

U = Indicates the parameter was not detected above the analytical minimum detectable concentration (MDC) (Specific to combined radium 226/228)

(1) Appendix III/IV parameter per 40 CFR 257 Subpart D. Parameters are reported in units of milligrams per liter (mg/L), except for pH reported as s.u. (standard units) and combined radium reported as picocuries per liter (pCi/L)

(2) Metals were analyzed by EPA Method 6010D, 6020B, and 7470A, anions were analyzed by EPA Method 300.0, TDS was analyzed by SM2540C-2015, and combined radium 226/228 by EPA Methods 9315/9320

(3) The pH value presented was recorded at the time of sample collection in the field

Table 6
 Summary of Surface Water Sampling Analytical Data
 Plant Hammond AP-2, Floyd County, Georgia

Sample ID:		Unnamed Creek Sample Locations ⁽³⁾			Coosa River Sample Locations ⁽³⁾		
		HAM-AP2-Up	HAM-AP2-Mid	HAM-AP2-Down	HAM-H+0.25	HAM-H+0.35	HAM-H+0.75
Sample Date:		1/30/2023	1/30/2023	1/30/2023	1/30/2023	1/30/2023	1/30/2023
Parameter ^(1,2)							
APP. III	Boron	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
	Calcium	17.4	15.4	14.7	10.5	10.8	10.3
	Chloride	1.1	1.3	1.2	4.4	4.3	4.3
	Fluoride	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
	Sulfate	6.3	7.3	7.0	5.8	5.8	6.7
	TDS	75.0	76.0	96.0	135	57.0	166
APP. IV	Cobalt	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
	Fluoride	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
GEOCHEM	Bicarbonate Alkalinity	45.7	41.4	38.8	33.1	33.4	33.6
	Total Alkalinity	45.7	41.4	38.8	33.1	33.4	33.6
	Magnesium	2.6	2.0	2.1	2.8	2.7	2.6
	Potassium	2.2	1.4	1.5	2.8	1.9	1.9
	Sodium	1.6	1.5	1.5	<5.0	4.1	4.5

Notes:

-- = Parameter was not analyzed.

< = Indicates the parameter was not detected above the analytical reporting limit (RL).

TDS = Total dissolved solids

(1) Appendix III/IV parameter per 40 CFR 257 Subpart D. Parameters are reported in units of milligrams per liter (mg/L).

(2) Metals were analyzed by EPA Method 6010D/6020B, anions were analyzed by EPA Method 300.0, TDS was analyzed by SM2540C, and alkalinity by SM2320B-2011.

(3) Refer to included Figure 2 for locations. Sample locations are presented as positioned relative to the plant, beginning with upstream locations.

Table 7
Summary of Background Concentrations and Groundwater Protection Standards
Plant Hammond AP-2, Floyd County, Georgia

Analyte	Units	MCL	CCR-Rule Specified ⁽¹⁾	Background Limit ⁽²⁾	GWPS ⁽³⁾
Antimony	mg/L	0.006	N/A	0.003	0.006
Arsenic	mg/L	0.01	N/A	0.005	0.01
Barium	mg/L	2	N/A	0.46	2
Beryllium	mg/L	0.004	N/A	0.0005	0.004
Cadmium	mg/L	0.005	N/A	0.0005	0.005
Chromium	mg/L	0.1	N/A	0.0019	0.1
Cobalt	mg/L	N/A	0.006	0.038	0.038
Fluoride	mg/L	4	N/A	1.3	4
Lead	mg/L	N/A	0.015	0.001	0.015
Lithium	mg/L	N/A	0.04	0.064	0.064
Mercury	mg/L	0.002	N/A	0.0002	0.002
Molybdenum	mg/L	N/A	0.1	0.01	0.1
Selenium	mg/L	0.05	N/A	0.005	0.05
Thallium	mg/L	0.002	N/A	0.001	0.002
Combined Radium-226/228	pCi/L	5	N/A	4.36	5

Notes:

mg/L = milligrams per liter

pCi/L = picocuries per liter

MCL = Maximum Contaminant Level

CCR = Coal Combustion Residuals

GWPS = Groundwater Protection Standard

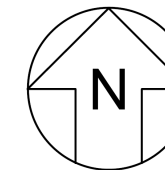
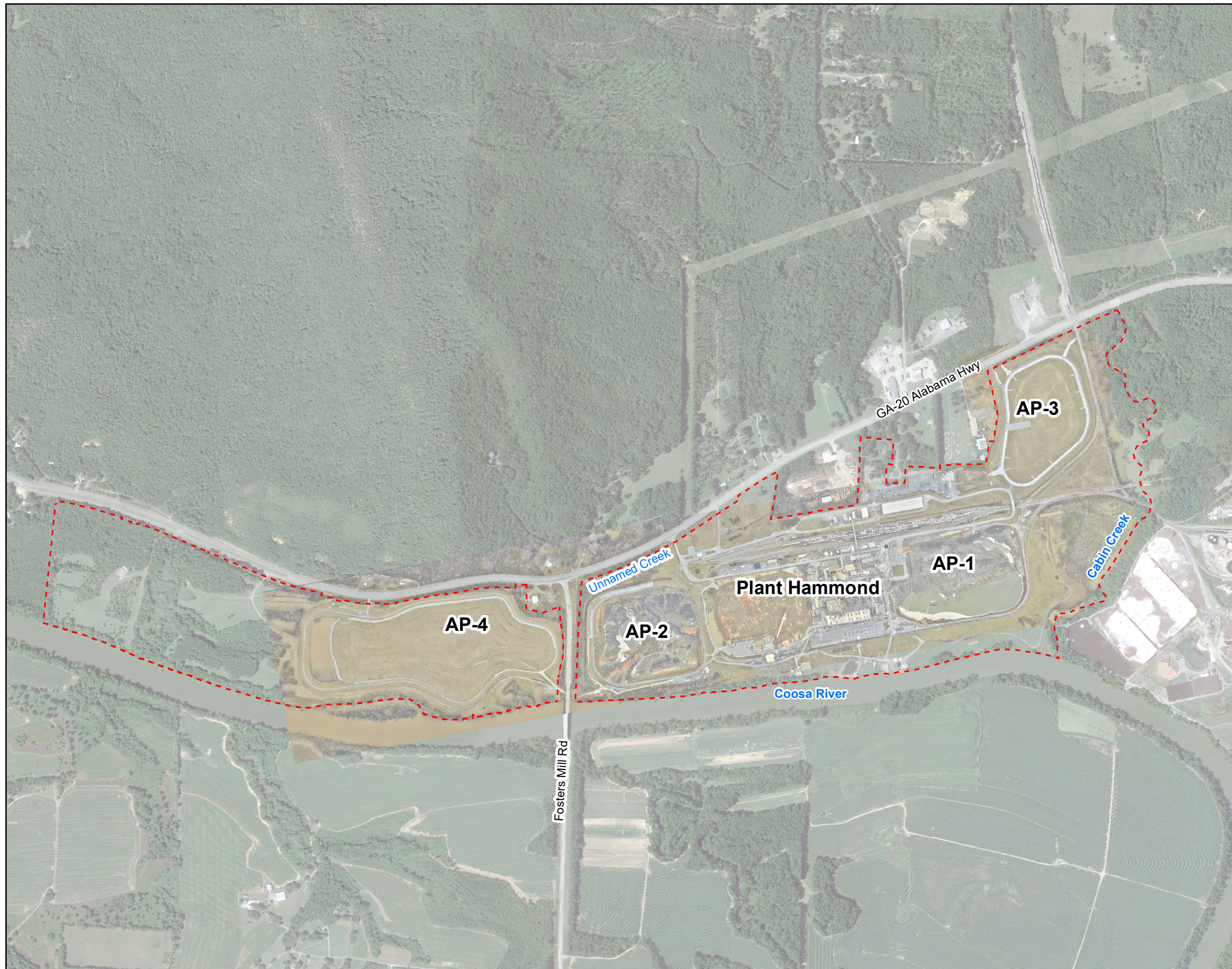
N/A = Not Applicable

(1) On February 22, 2022, the Georgia Environmental Protection Division (GA EPD) adopted the federally promulgated GWPS for cobalt, lithium, lead, and molybdenum.

(2) The background limits were used when determining the GWPS under 40 CFR 257.95(h) and GA EPD Rule 391-3-4-.10(6)(a).

(3) Under 40 CFR 257.95(h)(1-3) the GWPS is: (i) the maximum contaminant level (MCL) established under §§141.62 and 141.66 of this title; (ii) where an MCL has not been established a rule-specific GWPS; or (iii) background levels for constituents where the background level is higher than the MCL or rule-specified GWPS.

FIGURES

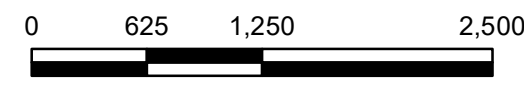


LEGEND

Plant Hammond Property Boundary



Note:
 1. Aerial photograph source: Google Earth Pro, August 2019 and Georgia Power Company, February 2023.



SCALE IN FEET

SITE LOCATION MAP

GEORGIA POWER COMPANY
 PLANT HAMMOND AP-2
 ROME, FLOYD COUNTY, GEORGIA

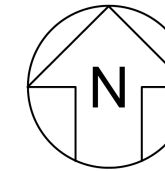
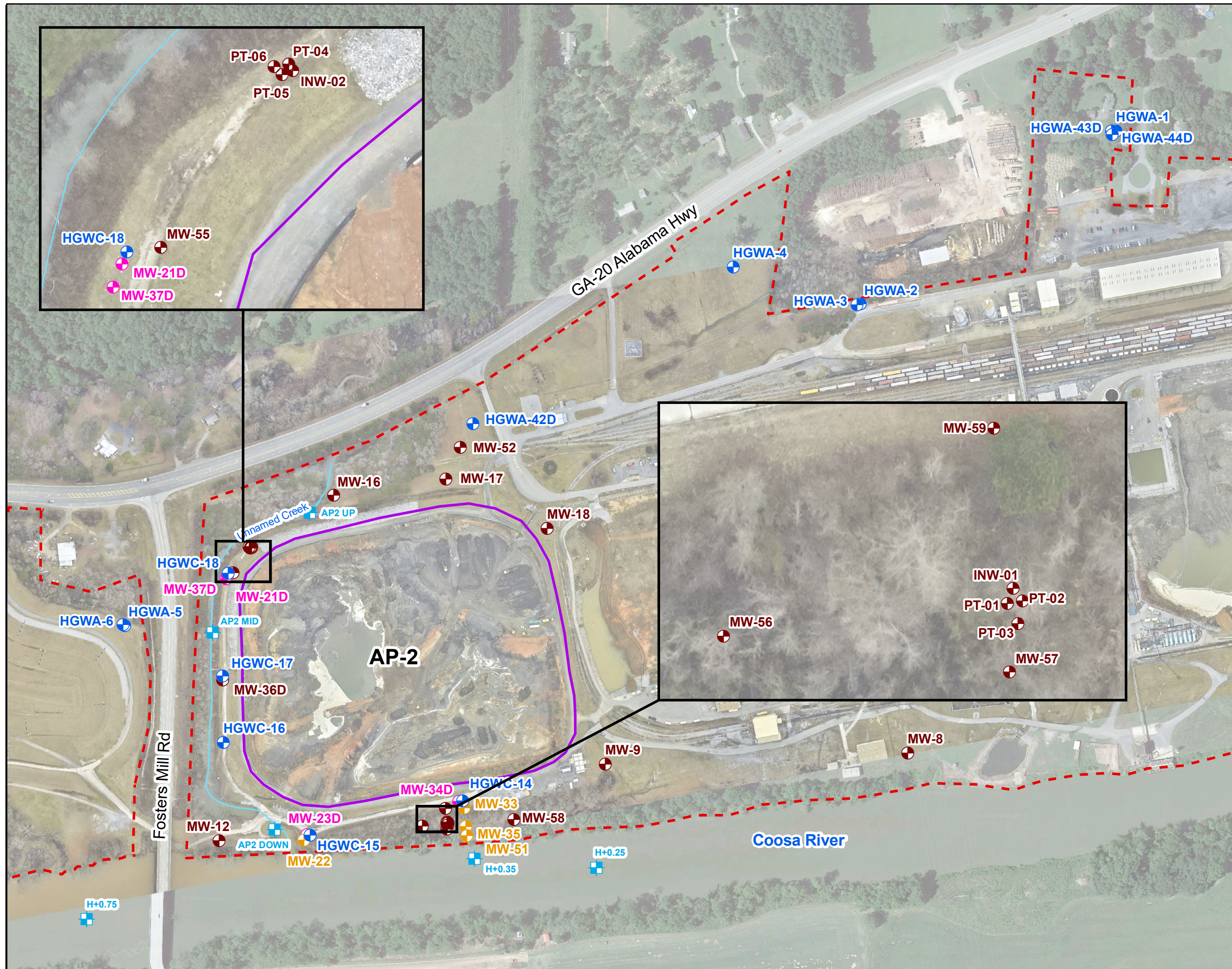
Prepared For: Georgia Power

Prepared By: Geosyntec
 consultants

KENNESAW, GA

AUGUST 2023

FIGURE
1



LEGEND

- Detection Monitoring Well
- Horizontal Assessment Monitoring Well
- Vertical Assessment Monitoring Well
- Piezometer
- Surface Water Sample Point
- Unnamed Creek
- Approximate AP-2 Boundary
- Plant Hammond Property Boundary

Notes:

1. Piezometers INW-01, INW-02, MW-55 through MW-59, and PT-01 through PT-06 were installed in support of an Assessment of Corrective Measures (ACM) geochemical injections pilot study and are not included in the routine semiannual sampling of the monitoring well network.
2. Aerial photograph source: Google Earth Pro, August 2019 and Georgia Power Company, February 2023.

0 150 300 600



SCALE IN FEET

MONITORING WELL NETWORK AND SAMPLING LOCATION MAP

GEORGIA POWER COMPANY
PLANT HAMMOND AP-2
ROME, FLOYD COUNTY, GEORGIA

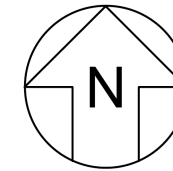
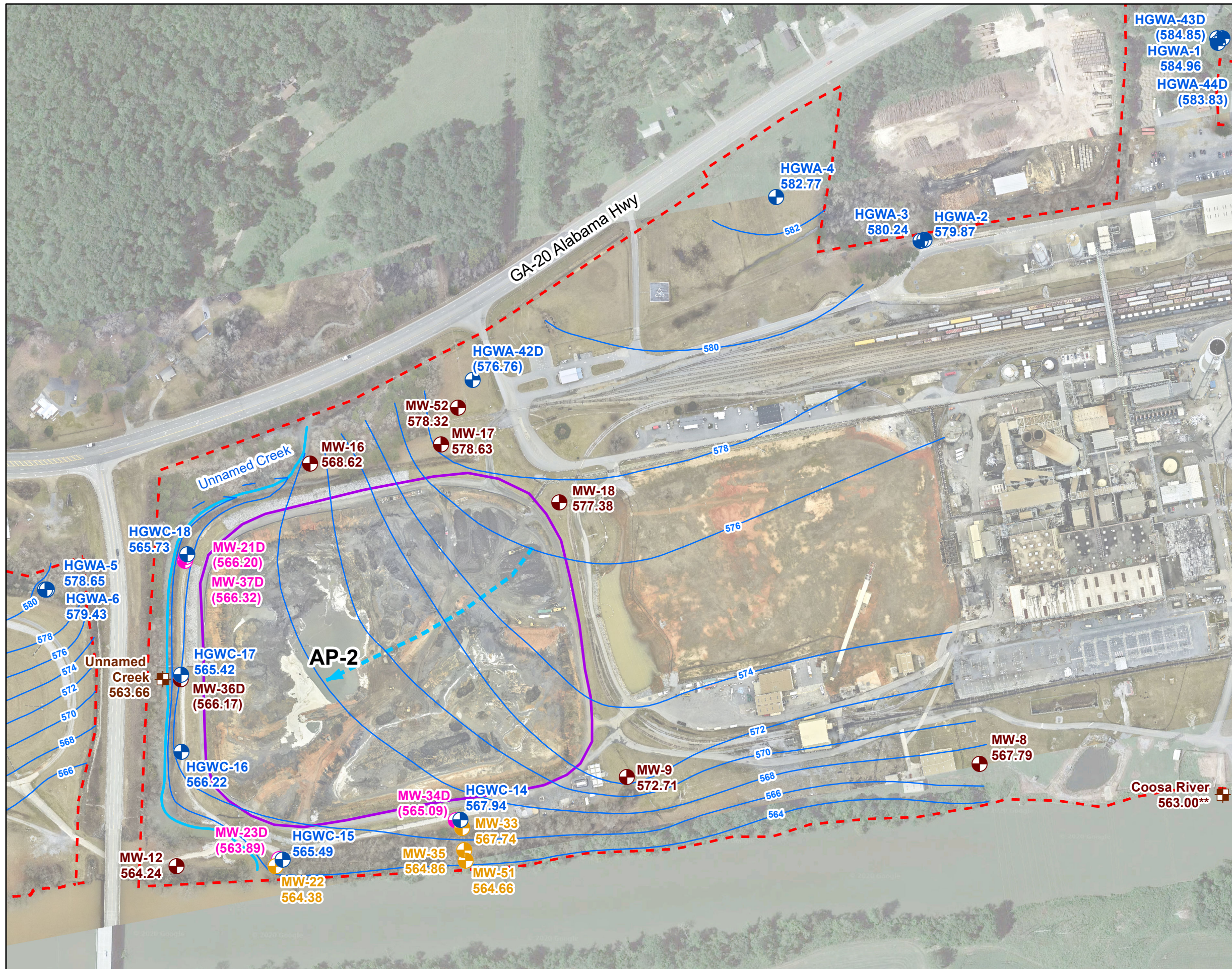
Prepared For: Georgia Power

Prepared By: Geosyntec
consultants

KENNESAW, GA

AUGUST 2023

FIGURE
2



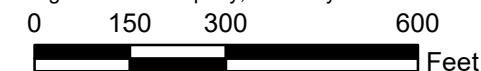
LEGEND

- Detection Monitoring Well
- Horizontal Assessment Monitoring
- Vertical Assessment Monitoring
- Piezometer
- Surface Water Level Gauge Point
- Groundwater Elevation Iso-Contour (dashed where inferred)
- Approximate Groundwater Flow Direction
- Approximate AP-2
- Plant Hammond Property Boundary



Notes:

1. Water level elevation recorded on January 23, 2023. Elevation provided in feet (ft) referenced to the North American Vertical Datum of 1988 (NAVD 88).
2. Groundwater elevations in parentheses were not used to make the groundwater contours because these wells are screened at a different elevation in the formation/aquifer.
3. A double asterisk (**) denotes the water level for the Coosa River was gauged approximately 950 feet upstream of MW-8 at the staff gauge near AP-1.
4. Map illustrated well network present at the time of water level gauging.
5. Aerial photograph source: Google Earth Pro, August 2019, and Georgia Power Company, February 2023.



SCALE IN FEET

POTENTIOMETRIC SURFACE CONTOUR MAP - JANUARY 2023

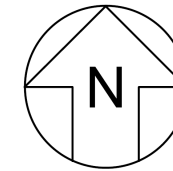
GEORGIA POWER COMPANY
PLANT HAMMOND AP-2
ROME, FLOYD COUNTY, GEORGIA

Prepared For: Georgia Power

Prepared By: Geosyntec consultants

KENNESAW, GA AUGUST 2023

FIGURE 3

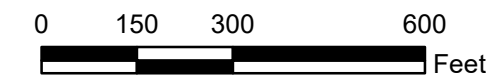


LEGEND

- Detection Monitoring Well
- Horizontal Assessment Monitoring
- Vertical Assessment Monitoring
- Piezometer
- Surface Water Sample Point
- GWPS Cobalt Iso-Concentration Contour (mg/L) (dashed where inferred)
- Groundwater Elevation Iso-Contour (dashed where inferred)
- ➔ Approximate Groundwater Flow Direction
- Approximate AP-2
- Plant Hammond Property Boundary

Notes:

1. Concentration data from groundwater samples collected during the January/February 2023 semiannual monitoring event. Data reported for wells screened deeper in the aquifer were not used to generate the iso-concentration contour (HGWA-42D, HGWA-43D, HGWA-44D, MW-21D, MW-34D, MW-37D). Concentrations are reported in mg/L.
2. Water level elevation recorded on January 23, 2023. Elevation provided in feet (ft) referenced to the North American Vertical Datum (NAVD) 88.
3. The Groundwater Protection Standard (GWPS) for cobalt is 0.038 mg/L.
4. Aerial photograph source: Google Earth Pro, August 2019, and Georgia Power Company, February 2023.



SCALE IN FEET

**ISO-CONCENTRATION MAP
COBALT - JANUARY 2023**

GEORGIA POWER COMPANY
PLANT HAMMOND AP-2
ROME, FLOYD COUNTY, GEORGIA

Prepared For: Georgia Power

Prepared By: Geosyntec
consultants

KENNESAW, GA AUGUST 2023

**FIGURE
4**

APPENDIX A

Well Maintenance and Repair Documentation Memorandum

MEMORANDUM

DATE: June 22, 2023

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

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

FROM: Geosyntec Consultants

SUBJECT: Plant Hammond Ash Pond 2 (AP-2) – Well Maintenance and Repair Documentation, Georgia Power Company

Geosyntec Consultants has prepared this memorandum to provide documentation of groundwater monitoring well maintenance and/or repair performed at Plant Hammond Ash Pond 2 (AP-2) during the January/February 2023 sampling event. All repairs and maintenance were completed in accordance with the Georgia Environmental Protection Division (GA EPD) guidance on routine visual inspections of groundwater monitoring wells. Documentation of the well inspections are provided as an attachment to this memorandum.

Georgia Power Site/Unit	Date Performed	Well ID	Maintenance/ Repair Performed
Hammond/AP-2	1/23/2023	All Wells	Checked and cleared weep holes of debris.

ATTACHMENT

Well Inspection Forms

Well Inspection Form

Plant Name/Unit Name Plant Hammond AP-1, AP-2, AP-3
 Field Technician C. CAIN
 Well ID HGWA-1

Date (mm/dd/yyyy) 1/23/23
 Field Conditions sunny, 50F

	Yes	No	Comments
1 Location/Identification			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well in a high traffic area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
d Are appropriate measures in place to protect the well (e.g., bollards)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2 Protective Casing			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the well locked?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f If locked, is the well lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Is the well lid in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3 Surface Pad			
a Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the well pad in complete contact with the ground surface and stable (not undermined by erosion, animal burrows, and does not move when stepped on)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4 Internal Casing			
a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
5 Sampling and Data Collection Equipment			
a Indicate if the well is equipped with dedicated sampling equipment , a dedicated water quality sonde , and/or dedicated water level data logger .			<u>Sampling equipment</u>
b If equipped with dedicated sampling equipment, is it in good operational condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c If equipped with a dedicated water quality sonde, is it in good operational condition?	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
d Does the desiccant need to be replaced on the water quality sonde?	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
e If equipped with a water level data logger, is it in good operational condition?	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
f Does the well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Does the well require redevelopment (low flow, excess turbidity)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6 Corrective Actions			
a Are corrective actions needed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If yes, indicate here:			

Well Inspection Form

Plant Name/Unit Name Plant Hammond AP-1/2/3
 Field Technician C. CRAIN
 Well ID HQWA-2

Date (mm/dd/yyyy) 1/23/23
 Field Conditions Sunny

	Yes	No	Comments
1 Location/Identification			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well in a high traffic area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
d Are appropriate measures in place to protect the well (e.g., bollards)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2 Protective Casing			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the well locked?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f If locked, is the well lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Is the well lid in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3 Surface Pad			
a Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the well pad in complete contact with the ground surface and stable (not undermined by erosion, animal burrows, and does not move when stepped on)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4 Internal Casing			
a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
5 Sampling and Data Collection Equipment			
a Indicate if the well is equipped with dedicated sampling equipment , a dedicated water quality sonde , and/or dedicated water level data logger .			<u>Sampling equipment</u>
b If equipped with dedicated sampling equipment, is it in good operational condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c If equipped with a dedicated water quality sonde, is it in good operational condition?	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
d Does the desiccant need to be replaced on the water quality sonde?	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
e If equipped with a water level data logger, is it in good operational condition?	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
f Does the well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Does the well require redevelopment (low flow, excess turbidity)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6 Corrective Actions			
a Are corrective actions needed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If yes, indicate here:			

Well Inspection Form

Plant Name/Unit Name Plant Hammond Ap-1/2/3
 Field Technician C. COIN
 Well ID HGW/A-3

Date (mm/dd/yyyy) 1/23/23
 Field Conditions Sunny 50

	Yes	No	Comments
1 Location/Identification			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well in a high traffic area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
d Are appropriate measures in place to protect the well (e.g., bollards)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2 Protective Casing			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the well locked?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f If locked, is the well lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Is the well lid in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3 Surface Pad			
a Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the well pad in complete contact with the ground surface and stable (not undermined by erosion, animal burrows, and does not move when stepped on)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4 Internal Casing			
a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
5 Sampling and Data Collection Equipment			
a Indicate if the well is equipped with dedicated sampling equipment , a dedicated water quality sonde , and/or dedicated water level data logger .			<u>Sampling equipment</u>
b If equipped with dedicated sampling equipment, is it in good operational condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c If equipped with a dedicated water quality sonde, is it in good operational condition?	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
d Does the desiccant need to be replaced on the water quality sonde?	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
e If equipped with a water level data logger, is it in good operational condition?	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
f Does the well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Does the well require redevelopment (low flow, excess turbidity)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6 Corrective Actions			
a Are corrective actions needed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If yes, indicate here:			

Well Inspection Form

Plant Name/Unit Name Plant Hammond AP-2
 Field Technician C. CAIN
 Well ID HGWA-4

Date (mm/dd/yyyy) 1/23/23
 Field Conditions Sunny 50F

	Yes	No	Comments
1 Location/Identification			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well in a high traffic area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
d Are appropriate measures in place to protect the well (e.g., bollards)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2 Protective Casing			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the well locked?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f If locked, is the well lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Is the well lid in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3 Surface Pad			
a Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the well pad in complete contact with the ground surface and stable (not undermined by erosion, animal burrows, and does not move when stepped on)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4 Internal Casing			
a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
5 Sampling and Data Collection Equipment			
a Indicate if the well is equipped with dedicated sampling equipment , a dedicated water quality sonde , and/or dedicated water level data logger .			<u>Sampling equipment</u>
b If equipped with dedicated sampling equipment, is it in good operational condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c If equipped with a dedicated water quality sonde, is it in good operational condition?	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
d Does the desiccant need to be replaced on the water quality sonde?	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
e If equipped with a water level data logger, is it in good operational condition?	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
f Does the well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Does the well require redevelopment (low flow, excess turbidity)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6 Corrective Actions			
a Are corrective actions needed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If yes, indicate here:			

Well Inspection Form

Plant Name/Unit Name P (dist) Hammond AP-2
 Field Technician A. Szwest
 Well ID HGWA-5

Date (mm/dd/yyyy) 1/23/2023
 Field Conditions Sunny, 45°F

	Yes	No	Comments
1 Location/Identification			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well in a high traffic area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
d Are appropriate measures in place to protect the well (e.g., bollards)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2 Protective Casing			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the well locked?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f If locked, is the well lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Is the well lid in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3 Surface Pad			
a Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the well pad in complete contact with the ground surface and stable (not undermined by erosion, animal burrows, and does not move when stepped on)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4 Internal Casing			
a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
5 Sampling and Data Collection Equipment			
a Indicate if the well is equipped with dedicated sampling equipment , a dedicated water quality sonde , and/or dedicated water level data logger .			<u>dedicated sampling equipment</u>
b If equipped with dedicated sampling equipment, is it in good operational condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c If equipped with a dedicated water quality sonde, is it in good operational condition?	<input type="checkbox"/>	<input type="checkbox"/>	<u>N/A</u>
d Does the desiccant need to be replaced on the water quality sonde?	<input type="checkbox"/>	<input type="checkbox"/>	<u>N/A</u>
e If equipped with a water level data logger, is it in good operational condition?	<input type="checkbox"/>	<input type="checkbox"/>	<u>N/A</u>
f Does the well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Does the well require redevelopment (low flow, excess turbidity)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6 Corrective Actions			
a Are corrective actions needed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If yes, indicate here:			

Well Inspection Form

Plant Name/Unit Name Plant Hammond AP-2
 Field Technician C. CAIN
 Well ID HGWA-6

Date (mm/dd/yyyy) 1/23/23
 Field Conditions Sunny 50

	Yes	No	Comments
1 Location/Identification			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well in a high traffic area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
d Are appropriate measures in place to protect the well (e.g., bollards)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2 Protective Casing			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the well locked?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f If locked, is the well lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Is the well lid in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3 Surface Pad			
a Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the well pad in complete contact with the ground surface and stable (not undermined by erosion, animal burrows, and does not move when stepped on)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4 Internal Casing			
a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
5 Sampling and Data Collection Equipment			
a Indicate if the well is equipped with dedicated sampling equipment , a dedicated water quality sonde , and/or dedicated water level data logger .			<u>Sampling equipment</u>
b If equipped with dedicated sampling equipment, is it in good operational condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c If equipped with a dedicated water quality sonde, is it in good operational condition?	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
d Does the desiccant need to be replaced on the water quality sonde?	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
e If equipped with a water level data logger, is it in good operational condition?	<input type="checkbox"/>	<input type="checkbox"/>	<u>N/A</u>
f Does the well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Does the well require redevelopment (low flow, excess turbidity)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6 Corrective Actions			
a Are corrective actions needed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If yes, indicate here:			

Well Inspection Form

Plant Name/Unit Name Plant Hammond AP-2
 Field Technician C. CAIN
 Well ID HGWA-42D

Date (mm/dd/yyyy) 1/23/23
 Field Conditions Sunny SOF

	Yes	No	Comments
1 Location/Identification			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well in a high traffic area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
d Are appropriate measures in place to protect the well (e.g., bollards)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2 Protective Casing			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the well locked?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f If locked, is the well lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Is the well lid in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3 Surface Pad			
a Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the well pad in complete contact with the ground surface and stable (not undermined by erosion, animal burrows, and does not move when stepped on)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4 Internal Casing			
a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
5 Sampling and Data Collection Equipment			
a Indicate if the well is equipped with dedicated sampling equipment , a dedicated water quality sonde , and/or dedicated water level data logger .	<u>Sampling equipment</u>		
b If equipped with dedicated sampling equipment, is it in good operational condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c If equipped with a dedicated water quality sonde, is it in good operational condition?	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
d Does the desiccant need to be replaced on the water quality sonde?	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
e If equipped with a water level data logger, is it in good operational condition?	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
f Does the well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Does the well require redevelopment (low flow, excess turbidity)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6 Corrective Actions			
a Are corrective actions needed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If yes, indicate here:			

Well Inspection Form

Plant Name/Unit Name Plant Hammond Ap-1/2/3
 Field Technician C. CAIN
 Well ID HGWA-43D

Date (mm/dd/yyyy) 1/23/23
 Field Conditions Sunny & C

	Yes	No	Comments
1 Location/Identification			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well in a high traffic area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
d Are appropriate measures in place to protect the well (e.g., bollards)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2 Protective Casing			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the well locked?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f If locked, is the well lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Is the well lid in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3 Surface Pad			
a Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the well pad in complete contact with the ground surface and stable (not undermined by erosion, animal burrows, and does not move when stepped on)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4 Internal Casing			
a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
5 Sampling and Data Collection Equipment			
a Indicate if the well is equipped with dedicated sampling equipment , a dedicated water quality sonde , and/or dedicated water level data logger .	<u>Sampling Equipment</u>		
b If equipped with dedicated sampling equipment, is it in good operational condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c If equipped with a dedicated water quality sonde, is it in good operational condition?	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
d Does the desiccant need to be replaced on the water quality sonde?	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
e If equipped with a water level data logger, is it in good operational condition?	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
f Does the well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Does the well require redevelopment (low flow, excess turbidity)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6 Corrective Actions			
a Are corrective actions needed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If yes, indicate here:			

Well Inspection Form

Plant Name/Unit Name Plant Hammond AP-1, AP-2, AP-3
 Field Technician C. CAIN
 Well ID HGWA-440

Date (mm/dd/yyyy) 1/23/23
 Field Conditions SOF sunny

	Yes	No	Comments
1 Location/Identification			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well in a high traffic area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
d Are appropriate measures in place to protect the well (e.g., bollards)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2 Protective Casing			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the well locked?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f If locked, is the well lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Is the well lid in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3 Surface Pad			
a Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the well pad in complete contact with the ground surface and stable (not undermined by erosion, animal burrows, and does not move when stepped on)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4 Internal Casing			
a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
5 Sampling and Data Collection Equipment			
a Indicate if the well is equipped with dedicated sampling equipment , a dedicated water quality sonde , and/or dedicated water level data logger .	<u>NA</u>		
b If equipped with dedicated sampling equipment, is it in good operational condition?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<u>NA</u>
c If equipped with a dedicated water quality sonde, is it in good operational condition?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<u>NA</u>
d Does the desiccant need to be replaced on the water quality sonde?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<u>NA</u>
e If equipped with a water level data logger, is it in good operational condition?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
f Does the well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
g Does the well require redevelopment (low flow, excess turbidity)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6 Corrective Actions			
a Are corrective actions needed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If yes, indicate here:			

Well Inspection Form

Plant Name/Unit Name Plant Hammond AP-2
 Field Technician C. CAIN
 Well ID HGW6-14

Date (mm/dd/yyyy) 1/23/23
 Field Conditions Sunny 52F

	Yes	No	Comments
1 Location/Identification			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well in a high traffic area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
d Are appropriate measures in place to protect the well (e.g., bollards)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2 Protective Casing			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the well locked?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f If locked, is the well lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Is the well lid in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3 Surface Pad			
a Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the well pad in complete contact with the ground surface and stable (not undermined by erosion, animal burrows, and does not move when stepped on)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4 Internal Casing			
a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
5 Sampling and Data Collection Equipment			
a Indicate if the well is equipped with dedicated sampling equipment, a dedicated water quality sonde, and/or dedicated water level data logger.			<u>Sampling equipment</u>
b If equipped with dedicated sampling equipment, is it in good operational condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c If equipped with a dedicated water quality sonde, is it in good operational condition?	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
d Does the desiccant need to be replaced on the water quality sonde?	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
e If equipped with a water level data logger, is it in good operational condition?	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
f Does the well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Does the well require redevelopment (low flow, excess turbidity)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6 Corrective Actions			
a Are corrective actions needed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If yes, indicate here:			

Well Inspection Form

Plant Name/Unit Name Plant Hammond AP-2
 Field Technician C. CAIN
 Well ID HQW-15

Date (mm/dd/yyyy) 1/23/23
 Field Conditions Sunny 80

	Yes	No	Comments
1 Location/Identification			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well in a high traffic area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
d Are appropriate measures in place to protect the well (e.g., bollards)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2 Protective Casing			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the well locked?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f If locked, is the well lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Is the well lid in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3 Surface Pad			
a Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the well pad in complete contact with the ground surface and stable (not undermined by erosion, animal burrows, and does not move when stepped on)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4 Internal Casing			
a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
5 Sampling and Data Collection Equipment			
a Indicate if the well is equipped with dedicated sampling equipment, a dedicated water quality sonde, and/or dedicated water level data logger.	<u>NA</u>		
b If equipped with dedicated sampling equipment, is it in good operational condition?	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
c If equipped with a dedicated water quality sonde, is it in good operational condition?	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
d Does the desiccant need to be replaced on the water quality sonde?	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
e If equipped with a water level data logger, is it in good operational condition?	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
f Does the well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Does the well require redevelopment (low flow, excess turbidity)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6 Corrective Actions			
a Are corrective actions needed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If yes, indicate here:			

Well Inspection Form

Plant Name/Unit Name Plant Hammond AP-2
 Field Technician C. CAIN
 Well ID HGWG-16

Date (mm/dd/yyyy) 4/23/23
 Field Conditions Sunny SDF

	Yes	No	Comments
1 Location/Identification			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well in a high traffic area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
d Are appropriate measures in place to protect the well (e.g., bollards)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2 Protective Casing			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the well locked?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f If locked, is the well lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Is the well lid in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3 Surface Pad			
a Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the well pad in complete contact with the ground surface and stable (not undermined by erosion, animal burrows, and does not move when stepped on)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4 Internal Casing			
a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
5 Sampling and Data Collection Equipment			
a Indicate if the well is equipped with dedicated sampling equipment, a dedicated water quality sonde, and/or dedicated water level data logger.	<u>NA</u>		
b If equipped with dedicated sampling equipment, is it in good operational condition?	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
c If equipped with a dedicated water quality sonde, is it in good operational condition?	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
d Does the desiccant need to be replaced on the water quality sonde?	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
e If equipped with a water level data logger, is it in good operational condition?	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
f Does the well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Does the well require redevelopment (low flow, excess turbidity)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6 Corrective Actions			
a Are corrective actions needed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If yes, indicate here:			

Well Inspection Form

Plant Name/Unit Name Plant Hammond AP-2
 Field Technician C. RAIN
 Well ID HGW-17

Date (mm/dd/yyyy) 1/23/23
 Field Conditions Sunny 50

	Yes	No	Comments
1 Location/Identification			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well in a high traffic area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
d Are appropriate measures in place to protect the well (e.g., bollards)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2 Protective Casing			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the well locked?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f If locked, is the well lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Is the well lid in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3 Surface Pad			
a Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the well pad in complete contact with the ground surface and stable (not undermined by erosion, animal burrows, and does not move when stepped on)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4 Internal Casing			
a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
5 Sampling and Data Collection Equipment			
a Indicate if the well is equipped with dedicated sampling equipment , a dedicated water quality sonde , and/or dedicated water level data logger .			<u>Sampling equipment</u>
b If equipped with dedicated sampling equipment, is it in good operational condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c If equipped with a dedicated water quality sonde, is it in good operational condition?	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
d Does the desiccant need to be replaced on the water quality sonde?	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
e If equipped with a water level data logger, is it in good operational condition?	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
f Does the well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Does the well require redevelopment (low flow, excess turbidity)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6 Corrective Actions			
a Are corrective actions needed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If yes, indicate here:			

Well Inspection Form

Plant Name/Unit Name Plant Hammond AP-2
 Field Technician C. CALN
 Well ID HGW-18

Date (mm/dd/yyyy) 1/23/23
 Field Conditions Sunny 50F

	Yes	No	Comments
1 Location/Identification			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well in a high traffic area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
d Are appropriate measures in place to protect the well (e.g., bollards)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2 Protective Casing			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the well locked?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f If locked, is the well lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Is the well lid in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3 Surface Pad			
a Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the well pad in complete contact with the ground surface and stable (not undermined by erosion, animal burrows, and does not move when stepped on)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4 Internal Casing			
a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
5 Sampling and Data Collection Equipment			
a Indicate if the well is equipped with dedicated sampling equipment, a dedicated water quality sonde, and/or dedicated water level data logger.	<u>NA</u>		
b If equipped with dedicated sampling equipment, is it in good operational condition?	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
c If equipped with a dedicated water quality sonde, is it in good operational condition?	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
d Does the desiccant need to be replaced on the water quality sonde?	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
e If equipped with a water level data logger, is it in good operational condition?	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
f Does the well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Does the well require redevelopment (low flow, excess turbidity)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6 Corrective Actions			
a Are corrective actions needed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If yes, indicate here:			

Well Inspection Form

Plant Name/Unit Name Plant Hammond AP-1/AP-2
 Field Technician C. CAIN
 Well ID MW-8

Date (mm/dd/yyyy) 1/23/23
 Field Conditions 50°F Sunny

	Yes	No	Comments
1 Location/Identification			
a	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
d	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2 Protective Casing			
a	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3 Surface Pad			
a	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4 Internal Casing			
a	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
5 Sampling and Data Collection Equipment			
a	<input type="checkbox"/>		<u>NA</u>
b	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
c	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
d	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
e	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
f	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6 Corrective Actions			
a	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If yes, indicate here:			

Well Inspection Form

Plant Name/Unit Name Plant Hammond AP-2
 Field Technician C. CAIN
 Well ID MW-9

Date (mm/dd/yyyy) 1/23/23
 Field Conditions Sunny SDF

	Yes	No	Comments
1 Location/Identification			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well in a high traffic area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
d Are appropriate measures in place to protect the well (e.g., bollards)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2 Protective Casing			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the well locked?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f If locked, is the well lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Is the well lid in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3 Surface Pad			
a Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the well pad in complete contact with the ground surface and stable (not undermined by erosion, animal burrows, and does not move when stepped on)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4 Internal Casing			
a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
5 Sampling and Data Collection Equipment			
a Indicate if the well is equipped with dedicated sampling equipment, a dedicated water quality sonde, and/or dedicated water level data logger.	<u>NA</u>		
b If equipped with dedicated sampling equipment, is it in good operational condition?	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
c If equipped with a dedicated water quality sonde, is it in good operational condition?	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
d Does the desiccant need to be replaced on the water quality sonde?	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
e If equipped with a water level data logger, is it in good operational condition?	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
f Does the well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
g Does the well require redevelopment (low flow, excess turbidity)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6 Corrective Actions			
a Are corrective actions needed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If yes, indicate here:			

Well Inspection Form

Plant Name/Unit Name Plant Hammond AP-2, AP-4
 Field Technician C. CAIN
 Well ID MW-12

Date (mm/dd/yyyy) 1/23/23
 Field Conditions Sunny 50F

	Yes	No	Comments
1 Location/Identification			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well in a high traffic area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
d Are appropriate measures in place to protect the well (e.g., bollards)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2 Protective Casing			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the well locked?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f If locked, is the well lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Is the well lid in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3 Surface Pad			
a Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the well pad in complete contact with the ground surface and stable (not undermined by erosion, animal burrows, and does not move when stepped on)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4 Internal Casing			
a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
5 Sampling and Data Collection Equipment			
a Indicate if the well is equipped with dedicated sampling equipment , a dedicated water quality sonde , and/or dedicated water level data logger .	<u>NA</u>		
b If equipped with dedicated sampling equipment, is it in good operational condition?	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
c If equipped with a dedicated water quality sonde, is it in good operational condition?	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
d Does the desiccant need to be replaced on the water quality sonde?	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
e If equipped with a water level data logger, is it in good operational condition?	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
f Does the well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Does the well require redevelopment (low flow, excess turbidity)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6 Corrective Actions			
a Are corrective actions needed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If yes, indicate here:			

Well Inspection Form

Plant Name/Unit Name Plant Hammond AP-2
 Field Technician C. CAIN
 Well ID MW-16

Date (mm/dd/yyyy) 1/23/23
 Field Conditions Sunny 50F

	Yes	No	Comments
1 Location/Identification			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well in a high traffic area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
d Are appropriate measures in place to protect the well (e.g., bollards)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2 Protective Casing			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the well locked?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f If locked, is the well lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Is the well lid in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3 Surface Pad			
a Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the well pad in complete contact with the ground surface and stable (not undermined by erosion, animal burrows, and does not move when stepped on)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4 Internal Casing			
a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
5 Sampling and Data Collection Equipment			
a Indicate if the well is equipped with dedicated sampling equipment, a dedicated water quality sonde, and/or dedicated water level data logger.	<u>NA</u>		
b If equipped with dedicated sampling equipment, is it in good operational condition?	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
c If equipped with a dedicated water quality sonde, is it in good operational condition?	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
d Does the desiccant need to be replaced on the water quality sonde?	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
e If equipped with a water level data logger, is it in good operational condition?	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
f Does the well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
g Does the well require redevelopment (low flow, excess turbidity)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6 Corrective Actions			
a Are corrective actions needed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If yes, indicate here:			

Well Inspection Form

Plant Name/Unit Name Plant Hammond AP-2
 Field Technician C. CRIN
 Well ID MW-17

Date (mm/dd/yyyy) 1/23/23
 Field Conditions Sunny 52F

	Yes	No	Comments
1 Location/Identification			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well in a high traffic area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
d Are appropriate measures in place to protect the well (e.g., bollards)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2 Protective Casing			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the well locked?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f If locked, is the well lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Is the well lid in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3 Surface Pad			
a Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the well pad in complete contact with the ground surface and stable (not undermined by erosion, animal burrows, and does not move when stepped on)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4 Internal Casing			
a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
5 Sampling and Data Collection Equipment			
a Indicate if the well is equipped with dedicated sampling equipment, a dedicated water quality sonde, and/or dedicated water level data logger.	<input type="checkbox"/>		<u>NA</u>
b If equipped with dedicated sampling equipment, is it in good operational condition?	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
c If equipped with a dedicated water quality sonde, is it in good operational condition?	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
d Does the desiccant need to be replaced on the water quality sonde?	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
e If equipped with a water level data logger, is it in good operational condition?	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
f Does the well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
g Does the well require redevelopment (low flow, excess turbidity)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6 Corrective Actions			
a Are corrective actions needed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If yes, indicate here:			

Well Inspection Form

Plant Name/Unit Name Plant Hammond AP-2
 Field Technician S. CABIN
 Well ID MW-18

Date (mm/dd/yyyy) 1/23/23
 Field Conditions Sunny S/F

	Yes	No	Comments
1 Location/Identification			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well in a high traffic area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
d Are appropriate measures in place to protect the well (e.g., bollards)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2 Protective Casing			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the well locked?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f If locked, is the well lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Is the well lid in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3 Surface Pad			
a Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the well pad in complete contact with the ground surface and stable (not undermined by erosion, animal burrows, and does not move when stepped on)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4 Internal Casing			
a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
5 Sampling and Data Collection Equipment			
a Indicate if the well is equipped with dedicated sampling equipment, a dedicated water quality sonde, and/or dedicated water level data logger.	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
b If equipped with dedicated sampling equipment, is it in good operational condition?	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
c If equipped with a dedicated water quality sonde, is it in good operational condition?	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
d Does the desiccant need to be replaced on the water quality sonde?	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
e If equipped with a water level data logger, is it in good operational condition?	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
f Does the well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
g Does the well require redevelopment (low flow, excess turbidity)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6 Corrective Actions			
a Are corrective actions needed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If yes, indicate here:			

Well Inspection Form

Plant Name/Unit Name Plant Hammond AP-2
 Field Technician C. GAIN
 Well ID MW-21D

Date (mm/dd/yyyy) 1/23/23
 Field Conditions Sunny 50F

	Yes	No	Comments
1 Location/Identification			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well in a high traffic area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
d Are appropriate measures in place to protect the well (e.g., bollards)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2 Protective Casing			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the well locked?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f If locked, is the well lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Is the well lid in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3 Surface Pad			
a Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the well pad in complete contact with the ground surface and stable (not undermined by erosion, animal burrows, and does not move when stepped on)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4 Internal Casing			
a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
5 Sampling and Data Collection Equipment			
a Indicate if the well is equipped with dedicated sampling equipment, a dedicated water quality sonde, and/or dedicated water level data logger.			<u>Sampling equipment</u>
b If equipped with dedicated sampling equipment, is it in good operational condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c If equipped with a dedicated water quality sonde, is it in good operational condition?	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
d Does the desiccant need to be replaced on the water quality sonde?	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
e If equipped with a water level data logger, is it in good operational condition?	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
f Does the well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Does the well require redevelopment (low flow, excess turbidity)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6 Corrective Actions			
a Are corrective actions needed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If yes, indicate here:			

Well Inspection Form

Plant Name/Unit Name Plant Hammond/AP-2
 Field Technician A. Swarust
 Well ID MW-22

Date (mm/dd/yyyy) 01/23/2023
 Field Conditions Sunny, 45°F

	Yes	No	Comments
1 Location/Identification			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well in a high traffic area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
d Are appropriate measures in place to protect the well (e.g., bollards)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2 Protective Casing			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the well locked?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f If locked, is the well lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Is the well lid in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3 Surface Pad			
a Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the well pad in complete contact with the ground surface and stable (not undermined by erosion, animal burrows, and does not move when stepped on)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4 Internal Casing			
a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
5 Sampling and Data Collection Equipment			
a Indicate if the well is equipped with dedicated sampling equipment , a dedicated water quality sonde , and/or dedicated water level data logger .			<u>dedicated sampling equipment</u>
b If equipped with dedicated sampling equipment, is it in good operational condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c If equipped with a dedicated water quality sonde, is it in good operational condition?	<input type="checkbox"/>	<input type="checkbox"/>	<u>N/A</u>
d Does the desiccant need to be replaced on the water quality sonde?	<input type="checkbox"/>	<input type="checkbox"/>	<u>N/A</u>
e If equipped with a water level data logger, is it in good operational condition?	<input type="checkbox"/>	<input type="checkbox"/>	<u>N/A</u>
f Does the well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Does the well require redevelopment (low flow, excess turbidity)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6 Corrective Actions			
a Are corrective actions needed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If yes, indicate here:			

Well Inspection Form

Plant Name/Unit Name Plant Hammond AP-2
 Field Technician C. CAIN
 Well ID MW-23D

Date (mm/dd/yyyy) 1/23/23
 Field Conditions Sunny S/F

	Yes	No	Comments
1 Location/Identification			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well in a high traffic area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
d Are appropriate measures in place to protect the well (e.g., bollards)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2 Protective Casing			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the well locked?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f If locked, is the well lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Is the well lid in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3 Surface Pad			
a Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the well pad in complete contact with the ground surface and stable (not undermined by erosion, animal burrows, and does not move when stepped on)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4 Internal Casing			
a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
5 Sampling and Data Collection Equipment			
a Indicate if the well is equipped with dedicated sampling equipment, a dedicated water quality sonde, and/or dedicated water level data logger.	<u>NA</u>		
b If equipped with dedicated sampling equipment, is it in good operational condition?	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
c If equipped with a dedicated water quality sonde, is it in good operational condition?	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
d Does the desiccant need to be replaced on the water quality sonde?	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
e If equipped with a water level data logger, is it in good operational condition?	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
f Does the well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Does the well require redevelopment (low flow, excess turbidity)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6 Corrective Actions			
a Are corrective actions needed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If yes, indicate here:			

Well Inspection Form

Plant Name/Unit Name Plant Hammond AP-2
 Field Technician C. CAIN
 Well ID MW-33

Date (mm/dd/yyyy) 4/23/23
 Field Conditions Sunny 54F

	Yes	No	Comments
1 Location/Identification			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well in a high traffic area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
d Are appropriate measures in place to protect the well (e.g., bollards)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2 Protective Casing			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the well locked?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f If locked, is the well lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Is the well lid in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3 Surface Pad			
a Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the well pad in complete contact with the ground surface and stable (not undermined by erosion, animal burrows, and does not move when stepped on)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4 Internal Casing			
a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
5 Sampling and Data Collection Equipment			
a Indicate if the well is equipped with dedicated sampling equipment , a dedicated water quality sonde , and/or dedicated water level data logger .	<u>Sampling equipment</u>		
b If equipped with dedicated sampling equipment, is it in good operational condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c If equipped with a dedicated water quality sonde, is it in good operational condition?	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
d Does the desiccant need to be replaced on the water quality sonde?	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
e If equipped with a water level data logger, is it in good operational condition?	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
f Does the well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Does the well require redevelopment (low flow, excess turbidity)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6 Corrective Actions			
a Are corrective actions needed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If yes, indicate here:			

Well Inspection Form

Plant Name/Unit Name Plant Hammond AP-2
 Field Technician C. CAIN
 Well ID MW-34B

Date (mm/dd/yyyy) 1/23/23
 Field Conditions sunny 50

	Yes	No	Comments
1 Location/Identification			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well in a high traffic area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
d Are appropriate measures in place to protect the well (e.g., bollards)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2 Protective Casing			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the well locked?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f If locked, is the well lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Is the well lid in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3 Surface Pad			
a Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the well pad in complete contact with the ground surface and stable (not undermined by erosion, animal burrows, and does not move when stepped on)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4 Internal Casing			
a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
5 Sampling and Data Collection Equipment			
a Indicate if the well is equipped with dedicated sampling equipment, a dedicated water quality sonde, and/or dedicated water level data logger.			<u>NA</u>
b If equipped with dedicated sampling equipment, is it in good operational condition?			<u>NA</u>
c If equipped with a dedicated water quality sonde, is it in good operational condition?			<u>NA</u>
d Does the desiccant need to be replaced on the water quality sonde?			<u>NA</u>
e If equipped with a water level data logger, is it in good operational condition?			<u>NA</u>
f Does the well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Does the well require redevelopment (low flow, excess turbidity)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6 Corrective Actions			
a Are corrective actions needed?		<input checked="" type="checkbox"/>	
If yes, indicate here:			

Well Inspection Form

Plant Name/Unit Name Plant Hammond AP-2
 Field Technician C. CHAN
 Well ID MW-35

Date (mm/dd/yyyy) 1/23/23
 Field Conditions Sunny SOF

	Yes	No	Comments
1 Location/Identification			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well in a high traffic area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
d Are appropriate measures in place to protect the well (e.g., bollards)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2 Protective Casing			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the well locked?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f If locked, is the well lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Is the well lid in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3 Surface Pad			
a Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the well pad in complete contact with the ground surface and stable (not undermined by erosion, animal burrows, and does not move when stepped on)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4 Internal Casing			
a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
5 Sampling and Data Collection Equipment			
a Indicate if the well is equipped with dedicated sampling equipment , a dedicated water quality sonde , and/or dedicated water level data logger .	<u>NA</u>		
b If equipped with dedicated sampling equipment, is it in good operational condition?	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
c If equipped with a dedicated water quality sonde, is it in good operational condition?	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
d Does the desiccant need to be replaced on the water quality sonde?	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
e If equipped with a water level data logger, is it in good operational condition?	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
f Does the well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Does the well require redevelopment (low flow, excess turbidity)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6 Corrective Actions			
a Are corrective actions needed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If yes, indicate here:			

Well Inspection Form

Plant Name/Unit Name Plant Hammond AP-2
 Field Technician C. CRAIN
 Well ID MW-36D

Date (mm/dd/yyyy) 1/23/23
 Field Conditions Sunny 50F

	Yes	No	Comments
1 Location/Identification			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well in a high traffic area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
d Are appropriate measures in place to protect the well (e.g., bollards)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2 Protective Casing			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the well locked?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f If locked, is the well lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Is the well lid in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3 Surface Pad			
a Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the well pad in complete contact with the ground surface and stable (not undermined by erosion, animal burrows, and does not move when stepped on)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4 Internal Casing			
a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
5 Sampling and Data Collection Equipment			
a Indicate if the well is equipped with dedicated sampling equipment, a dedicated water quality sonde, and/or dedicated water level data logger.			<u>NA</u>
b If equipped with dedicated sampling equipment, is it in good operational condition?			<u>NA</u>
c If equipped with a dedicated water quality sonde, is it in good operational condition?			<u>NA</u>
d Does the desiccant need to be replaced on the water quality sonde?			<u>NA</u>
e If equipped with a water level data logger, is it in good operational condition?			<u>NA</u>
f Does the well recharge adequately when purged?			<u>NA</u>
g Does the well require redevelopment (low flow, excess turbidity)?		<input checked="" type="checkbox"/>	
6 Corrective Actions			
a Are corrective actions needed?		<input checked="" type="checkbox"/>	
If yes, indicate here:			

Well Inspection Form

Plant Name/Unit Name Plant Hammond / AP-2
 Field Technician A. Sewart
 Well ID MW-37D

Date (mm/dd/yyyy) 01/23/2023
 Field Conditions Sunny, 45°F

	Yes	No	Comments
1 Location/Identification			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well in a high traffic area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
d Are appropriate measures in place to protect the well (e.g., bollards)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the drainage around the well acceptable? (no standing water; nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2 Protective Casing			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the well locked?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f If locked, is the well lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Is the well lid in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3 Surface Pad			
a Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the well pad in complete contact with the ground surface and stable (not undermined by erosion, animal burrows, and does not move when stepped on)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4 Internal Casing			
a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
5 Sampling and Data Collection Equipment			
a Indicate if the well is equipped with dedicated sampling equipment , a dedicated water quality sonde , and/or dedicated water level data logger .	<u>dedicated sampling equipment</u>		
b If equipped with dedicated sampling equipment, is it in good operational condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c If equipped with a dedicated water quality sonde, is it in good operational condition?	<input type="checkbox"/>	<input type="checkbox"/>	N/A
d Does the desiccant need to be replaced on the water quality sonde?	<input type="checkbox"/>	<input type="checkbox"/>	N/A
e If equipped with a water level data logger, is it in good operational condition?	<input type="checkbox"/>	<input type="checkbox"/>	N/A
f Does the well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Does the well require redevelopment (low flow, excess turbidity)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6 Corrective Actions			
a Are corrective actions needed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If yes, indicate here:			

Well Inspection Form

Plant Name/Unit Name Plant Hammond AP-2
 Field Technician C. CRAIN
 Well ID MW-51

Date (mm/dd/yyyy) 1/23/23
 Field Conditions Sunny 50F

	Yes	No	Comments
1 Location/Identification			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well in a high traffic area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
d Are appropriate measures in place to protect the well (e.g., bollards)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2 Protective Casing			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the well locked?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f If locked, is the well lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Is the well lid in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3 Surface Pad			
a Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the well pad in complete contact with the ground surface and stable (not undermined by erosion, animal burrows, and does not move when stepped on)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4 Internal Casing			
a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
5 Sampling and Data Collection Equipment			
a Indicate if the well is equipped with dedicated sampling equipment, a dedicated water quality sonde, and/or dedicated water level data logger.	<u>NA</u>		
b If equipped with dedicated sampling equipment, is it in good operational condition?	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
c If equipped with a dedicated water quality sonde, is it in good operational condition?	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
d Does the desiccant need to be replaced on the water quality sonde?	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
e If equipped with a water level data logger, is it in good operational condition?	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
f Does the well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Does the well require redevelopment (low flow, excess turbidity)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6 Corrective Actions			
a Are corrective actions needed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If yes, indicate here:			

Well Inspection Form

Plant Name/Unit Name Plant Hammond AP-2
 Field Technician C. CABIN
 Well ID MW-52

Date (mm/dd/yyyy) 1/23/23
 Field Conditions Sunny SWF

	Yes	No	Comments
1 Location/Identification			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well in a high traffic area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
d Are appropriate measures in place to protect the well (e.g., bollards)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2 Protective Casing			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the well locked?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f If locked, is the well lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Is the well lid in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3 Surface Pad			
a Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the well pad in complete contact with the ground surface and stable (not undermined by erosion, animal burrows, and does not move when stepped on)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4 Internal Casing			
a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
5 Sampling and Data Collection Equipment			
a Indicate if the well is equipped with dedicated sampling equipment, a dedicated water quality sonde, and/or dedicated water level data logger.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NA
b If equipped with dedicated sampling equipment, is it in good operational condition?	<input type="checkbox"/>	<input type="checkbox"/>	NA
c If equipped with a dedicated water quality sonde, is it in good operational condition?	<input type="checkbox"/>	<input type="checkbox"/>	NA
d Does the desiccant need to be replaced on the water quality sonde?	<input type="checkbox"/>	<input type="checkbox"/>	NA
e If equipped with a water level data logger, is it in good operational condition?	<input type="checkbox"/>	<input type="checkbox"/>	NA
f Does the well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Does the well require redevelopment (low flow, excess turbidity)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6 Corrective Actions			
a Are corrective actions needed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If yes, indicate here:			

APPENDIX B

Laboratory Analytical and Field Sampling Reports

LABORATORY ANALYTICAL REPORTS

April 27, 2023

Joju Abraham
Georgia Power-CCR
2480 Maner Road
Atlanta, GA 30339

RE: Project: Hammond AP-2
Pace Project No.: 92648451

Dear Joju Abraham:

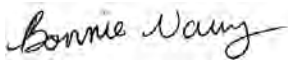
Enclosed are the analytical results for sample(s) received by the laboratory between January 24, 2023 and February 03, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte
- Pace Analytical Services - Peachtree Corners, GA

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

Sincerely,



Bonnie Vang
bonnie.vang@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Noelia Gangi, Georgia Power
Ben Hodges, Georgia Power-CCR
Christine Hug, Geosyntec Consultants, Inc.
Kristen Jurinko
Thomas Kessler, Geosyntec
Whitney Law, Geosyntec Consultants
Laura Midkiff, Georgia Power
Michael Smilley, Georgia Power
Tina Sullivan, ERM
Anthony Szwast, Geosyntec



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Hammond AP-2

Pace Project No.: 92648451

Pace Analytical Services Charlotte

South Carolina Laboratory ID: 99006

9800 Kinsey Ave. Ste 100, Huntersville, NC 28078

North Carolina Drinking Water Certification #: 37706

North Carolina Field Services Certification #: 5342

North Carolina Wastewater Certification #: 12

South Carolina Laboratory ID: 99006

South Carolina Certification #: 99006001

South Carolina Drinking Water Cert. #: 99006003

Florida/NELAP Certification #: E87627

Kentucky UST Certification #: 84

Louisiana DoH Drinking Water #: LA029

Virginia/VELAP Certification #: 460221

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804

Florida/NELAP Certification #: E87648

North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40

South Carolina Laboratory ID: 99030

South Carolina Certification #: 99030001

Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners

110 Technology Pkwy, Peachtree Corners, GA 30092

Florida DOH Certification #: E87315

Georgia DW Inorganics Certification #: 812

North Carolina Certification #: 381

South Carolina Certification #: 98011001

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Hammond AP-2

Pace Project No.: 92648451

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92648451001	HAM-HGWA-4	Water	01/23/23 17:04	01/24/23 12:38
92648451002	HAM-HGWA-42D	Water	01/23/23 18:06	01/24/23 12:38
92648451003	HAM-HGWC-17	Water	01/30/23 15:50	02/01/23 12:45
92648451004	HAM-MW-22	Water	01/30/23 18:15	02/01/23 12:45
92648451005	HAM-MW-34D	Water	01/30/23 13:05	02/01/23 12:45
92648451006	HAM-MW-37D	Water	01/30/23 16:11	02/01/23 12:45
92648451007	HAM-HGWC-14	Water	02/01/23 14:55	02/03/23 12:05
92648451008	HAM-HGWC-15	Water	02/01/23 14:44	02/03/23 12:05
92648451009	HAM-HGWC-16	Water	02/01/23 12:30	02/03/23 12:05
92648451010	HAM-HGWC-18	Water	02/01/23 10:55	02/03/23 12:05
92648451011	HAM-MW-23D	Water	02/01/23 13:20	02/03/23 12:05
92648451012	HAM-MW-35	Water	02/01/23 10:02	02/03/23 12:05
92648451013	HAM-MW-51	Water	02/01/23 11:32	02/03/23 12:05
92648451014	HAM-AP2-EB-02	Water	02/01/23 14:20	02/03/23 12:05
92648451015	HAM-AP2-FB-02	Water	02/01/23 14:15	02/03/23 12:05
92648451016	HAM-AP2-FD-02	Water	02/01/23 00:00	02/03/23 12:05
92648451017	HAM-MW-52	Water	02/01/23 13:41	02/03/23 12:05
92649378001	HAM-HGWA-5	Water	01/27/23 10:59	01/30/23 11:58
92649378002	HAM-HGWA-6	Water	01/27/23 10:10	01/30/23 11:58
92649378003	HAM-MW-21D	Water	01/27/23 17:08	01/30/23 11:58
92649378004	HAM-MW-33	Water	01/27/23 14:34	01/30/23 11:58

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Hammond AP-2
Pace Project No.: 92648451

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92648451001	HAM-HGWA-4	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92648451002	HAM-HGWA-42D	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92648451003	HAM-HGWC-17	EPA 6010D	MS	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92648451004	HAM-MW-22	EPA 6010D	MS	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92648451005	HAM-MW-34D	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92648451006	HAM-MW-37D	EPA 6010D	MS	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92648451007	HAM-HGWC-14	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92648451008	HAM-HGWC-15	EPA 6010D	MS	1
		EPA 6020B	CW1	13

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Hammond AP-2
Pace Project No.: 92648451

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92648451009	HAM-HGWC-16	EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	MS	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
92648451010	HAM-HGWC-18	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	MS	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	MS	1
92648451011	HAM-MW-23D	EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	MS	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
92648451012	HAM-MW-35	SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92648451013	HAM-MW-51	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	MS	1
		EPA 6020B	CW1	13
92648451014	HAM-AP2-EB-02	EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	MS	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
92648451015	HAM-AP2-FB-02	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	MS	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 6010D	MS	1
		EPA 6020B	CW1	13

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Hammond AP-2
Pace Project No.: 92648451

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92648451016	HAM-AP2-FD-02	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	MS	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
92648451017	HAM-MW-52	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6020B	CW1	5
		SM 2320B-2011	SMS	2
92649378001	HAM-HGWA-5	SM 4500-S2D-2011	JP1	1
		EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
92649378002	HAM-HGWA-6	SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
92649378003	HAM-MW-21D	SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6020B	CW1	14
		EPA 7470A	VB	1
92649378004	HAM-MW-33	SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	CDC	3

PASI-A = Pace Analytical Services - Asheville
PASI-C = Pace Analytical Services - Charlotte
PASI-GA = Pace Analytical Services - Peachtree Corners, GA

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Hammond AP-2

Pace Project No.: 92648451

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92648451001	HAM-HGWA-4					
	Performed by	Customer			02/09/23 20:33	
	pH	5.62	Std. Units		02/09/23 20:33	
EPA 6010D	Calcium	24.0	mg/L	1.0	01/27/23 19:55	
EPA 6020B	Barium	0.057	mg/L	0.0050	01/31/23 13:06	
EPA 6020B	Beryllium	0.00010J	mg/L	0.00050	01/31/23 13:06	
EPA 6020B	Boron	0.023J	mg/L	0.040	01/31/23 13:06	
EPA 6020B	Cobalt	0.00049J	mg/L	0.0050	01/31/23 13:06	
SM 2540C-2015	Total Dissolved Solids	128	mg/L	25.0	01/27/23 14:04	
EPA 300.0 Rev 2.1 1993	Chloride	1.6	mg/L	1.0	01/26/23 10:29	
EPA 300.0 Rev 2.1 1993	Fluoride	0.12	mg/L	0.10	01/26/23 10:29	
EPA 300.0 Rev 2.1 1993	Sulfate	42.5	mg/L	1.0	01/26/23 10:29	
92648451002	HAM-HGWA-42D					
	Performed by	Customer			02/10/23 19:01	
	pH	7.55	Std. Units		02/10/23 19:01	
EPA 6010D	Calcium	43.7	mg/L	1.0	01/27/23 20:00	
EPA 6020B	Antimony	0.0016J	mg/L	0.0030	01/31/23 13:30	
EPA 6020B	Barium	0.21	mg/L	0.0050	01/31/23 13:30	
EPA 6020B	Boron	0.052	mg/L	0.040	01/31/23 13:30	
EPA 6020B	Lithium	0.0097J	mg/L	0.030	01/31/23 13:30	
SM 2540C-2015	Total Dissolved Solids	168	mg/L	25.0	01/27/23 14:06	
EPA 300.0 Rev 2.1 1993	Chloride	3.3	mg/L	1.0	01/25/23 23:50	
EPA 300.0 Rev 2.1 1993	Fluoride	0.11	mg/L	0.10	01/25/23 23:50	
EPA 300.0 Rev 2.1 1993	Sulfate	11.1	mg/L	1.0	01/25/23 23:50	
92648451003	HAM-HGWC-17					
	Performed by	Customer			02/09/23 20:34	
	pH	6.44	Std. Units		02/09/23 20:34	
EPA 6010D	Calcium	286	mg/L	1.0	02/14/23 18:56	M1
EPA 6020B	Arsenic	0.0028J	mg/L	0.0050	02/17/23 13:03	
EPA 6020B	Barium	0.030	mg/L	0.0050	02/17/23 13:03	
EPA 6020B	Beryllium	0.000057J	mg/L	0.00050	02/17/23 13:03	
EPA 6020B	Boron	6.8	mg/L	0.040	02/17/23 13:03	
EPA 6020B	Cobalt	0.011	mg/L	0.0050	02/17/23 13:03	
EPA 6020B	Lithium	0.0014J	mg/L	0.030	02/17/23 13:03	
EPA 6020B	Thallium	0.00025J	mg/L	0.0010	02/17/23 13:03	
SM 2540C-2015	Total Dissolved Solids	1320	mg/L	25.0	02/02/23 20:28	
EPA 300.0 Rev 2.1 1993	Chloride	154	mg/L	10.0	02/04/23 12:53	
EPA 300.0 Rev 2.1 1993	Fluoride	0.097J	mg/L	0.10	02/03/23 22:34	
EPA 300.0 Rev 2.1 1993	Sulfate	451	mg/L	10.0	02/04/23 12:53	
92648451004	HAM-MW-22					
	Performed by	Customer			02/09/23 20:41	
	pH	5.47	Std. Units		02/09/23 20:41	
EPA 6010D	Calcium	189	mg/L	1.0	02/14/23 19:25	
EPA 6020B	Barium	0.014	mg/L	0.0050	02/17/23 13:09	
EPA 6020B	Beryllium	0.000081J	mg/L	0.00050	02/17/23 13:09	
EPA 6020B	Boron	2.4	mg/L	0.040	02/17/23 13:09	
EPA 6020B	Cadmium	0.0017	mg/L	0.00050	02/17/23 13:09	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Hammond AP-2

Pace Project No.: 92648451

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92648451004	HAM-MW-22					
EPA 6020B	Cobalt	0.027	mg/L	0.0050	02/17/23 13:09	
EPA 6020B	Lithium	0.0011J	mg/L	0.030	02/17/23 13:09	
SM 2540C-2015	Total Dissolved Solids	961	mg/L	25.0	02/02/23 20:28	
EPA 300.0 Rev 2.1 1993	Chloride	109	mg/L	9.0	02/04/23 13:09	
EPA 300.0 Rev 2.1 1993	Fluoride	0.064J	mg/L	0.10	02/03/23 23:22	
EPA 300.0 Rev 2.1 1993	Sulfate	445	mg/L	9.0	02/04/23 13:09	
92648451005	HAM-MW-34D					
	Performed by	Customer			02/09/23 20:42	
	pH	6.99	Std. Units		02/09/23 20:42	
EPA 6010D	Calcium	558	mg/L	5.0	02/15/23 16:48	
EPA 6020B	Antimony	0.0018J	mg/L	0.0030	02/17/23 13:32	
EPA 6020B	Arsenic	0.0047J	mg/L	0.0050	02/17/23 13:32	
EPA 6020B	Barium	0.040	mg/L	0.0050	02/17/23 13:32	
EPA 6020B	Boron	8.0	mg/L	0.040	02/17/23 13:32	
EPA 6020B	Cadmium	0.00047J	mg/L	0.00050	02/17/23 13:32	
EPA 6020B	Cobalt	0.0071	mg/L	0.0050	02/17/23 13:32	
EPA 6020B	Lithium	0.0013J	mg/L	0.030	02/17/23 13:32	
EPA 6020B	Selenium	0.0016J	mg/L	0.0050	02/17/23 13:32	
SM 2540C-2015	Total Dissolved Solids	2230	mg/L	50.0	02/02/23 20:28	
EPA 300.0 Rev 2.1 1993	Chloride	173	mg/L	25.0	02/04/23 13:24	
EPA 300.0 Rev 2.1 1993	Fluoride	0.089J	mg/L	0.10	02/03/23 23:38	
EPA 300.0 Rev 2.1 1993	Sulfate	1120	mg/L	25.0	02/04/23 13:24	
92648451006	HAM-MW-37D					
	Performed by	Customer			02/09/23 20:44	
	pH	7.56	Std. Units		02/09/23 20:44	
EPA 6010D	Calcium	74.6	mg/L	1.0	02/14/23 19:35	
EPA 6020B	Barium	0.13	mg/L	0.0050	02/17/23 13:38	
EPA 6020B	Boron	0.15	mg/L	0.040	02/17/23 13:38	
EPA 6020B	Lithium	0.021J	mg/L	0.030	02/17/23 13:38	
EPA 6020B	Molybdenum	0.0063J	mg/L	0.010	02/17/23 13:38	
SM 2540C-2015	Total Dissolved Solids	226	mg/L	25.0	02/02/23 20:28	
EPA 300.0 Rev 2.1 1993	Chloride	49.2	mg/L	1.0	02/03/23 23:54	
EPA 300.0 Rev 2.1 1993	Fluoride	0.092J	mg/L	0.10	02/03/23 23:54	
EPA 300.0 Rev 2.1 1993	Sulfate	85.2	mg/L	1.0	02/03/23 23:54	
92648451007	HAM-HGWC-14					
	Performed by	Customer			02/09/23 20:46	
	pH	4.93	Std. Units		02/09/23 20:46	
EPA 6010D	Calcium	464	mg/L	5.0	02/15/23 16:53	
EPA 6020B	Arsenic	0.0040J	mg/L	0.0050	02/16/23 19:44	
EPA 6020B	Barium	0.017	mg/L	0.0050	02/16/23 19:44	
EPA 6020B	Beryllium	0.00039J	mg/L	0.00050	02/16/23 19:44	
EPA 6020B	Boron	7.7	mg/L	0.20	02/17/23 17:25	M1
EPA 6020B	Cobalt	0.035	mg/L	0.0050	02/16/23 19:44	
EPA 6020B	Lead	0.0011	mg/L	0.0010	02/16/23 19:44	
EPA 6020B	Selenium	0.0036J	mg/L	0.0050	02/16/23 19:44	
EPA 6020B	Thallium	0.00047J	mg/L	0.0010	02/16/23 19:44	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Hammond AP-2

Pace Project No.: 92648451

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92648451007	HAM-HGWC-14					
SM 2540C-2015	Total Dissolved Solids	1950	mg/L	25.0	02/07/23 18:38	
EPA 300.0 Rev 2.1 1993	Chloride	108	mg/L	24.0	02/08/23 08:23	
EPA 300.0 Rev 2.1 1993	Fluoride	0.094J	mg/L	0.10	02/07/23 17:33	
EPA 300.0 Rev 2.1 1993	Sulfate	1060	mg/L	24.0	02/08/23 08:23	
92648451008	HAM-HGWC-15					
	Performed by	Customer			02/09/23 20:47	
	pH	6.22	Std. Units		02/09/23 20:47	
EPA 6010D	Calcium	174	mg/L	1.0	02/14/23 19:45	
EPA 6020B	Antimony	0.0021J	mg/L	0.0030	02/16/23 20:08	
EPA 6020B	Barium	0.021	mg/L	0.0050	02/16/23 20:08	
EPA 6020B	Boron	2.0	mg/L	0.20	02/17/23 17:43	
EPA 6020B	Cadmium	0.00088	mg/L	0.00050	02/16/23 20:08	
EPA 6020B	Cobalt	0.0091	mg/L	0.0050	02/16/23 20:08	
EPA 6020B	Lithium	0.016J	mg/L	0.030	02/16/23 20:08	
EPA 6020B	Thallium	0.00022J	mg/L	0.0010	02/16/23 20:08	
SM 2540C-2015	Total Dissolved Solids	892	mg/L	25.0	02/07/23 18:39	
EPA 300.0 Rev 2.1 1993	Chloride	85.0	mg/L	1.0	02/07/23 18:23	
EPA 300.0 Rev 2.1 1993	Fluoride	0.086J	mg/L	0.10	02/07/23 18:23	
EPA 300.0 Rev 2.1 1993	Sulfate	341	mg/L	7.0	02/08/23 08:38	
92648451009	HAM-HGWC-16					
	Performed by	Customer			02/09/23 20:48	
	pH	7.15	Std. Units		02/09/23 20:48	
EPA 6010D	Calcium	216	mg/L	1.0	02/14/23 19:49	
EPA 6020B	Barium	0.11	mg/L	0.0050	02/16/23 20:14	
EPA 6020B	Boron	2.8	mg/L	0.20	02/17/23 17:49	
EPA 6020B	Lithium	0.0036J	mg/L	0.030	02/16/23 20:14	
SM 2540C-2015	Total Dissolved Solids	1030	mg/L	25.0	02/07/23 18:39	
EPA 300.0 Rev 2.1 1993	Chloride	112	mg/L	5.0	02/08/23 08:54	
EPA 300.0 Rev 2.1 1993	Fluoride	0.053J	mg/L	0.10	02/07/23 18:39	
EPA 300.0 Rev 2.1 1993	Sulfate	257	mg/L	5.0	02/08/23 08:54	
92648451010	HAM-HGWC-18					
	Performed by	Customer			02/09/23 20:51	
	pH	4.66	Std. Units		02/09/23 20:51	
EPA 6010D	Calcium	288	mg/L	1.0	02/14/23 19:54	
EPA 6020B	Arsenic	0.0036J	mg/L	0.0050	02/16/23 20:20	
EPA 6020B	Barium	0.019	mg/L	0.0050	02/16/23 20:20	
EPA 6020B	Beryllium	0.0020	mg/L	0.00050	02/16/23 20:20	
EPA 6020B	Boron	5.9	mg/L	0.20	02/17/23 17:55	
EPA 6020B	Cadmium	0.0010	mg/L	0.00050	02/16/23 20:20	
EPA 6020B	Cobalt	0.11	mg/L	0.0050	02/16/23 20:20	
EPA 6020B	Lithium	0.0093J	mg/L	0.030	02/16/23 20:20	
EPA 6020B	Selenium	0.0054	mg/L	0.0050	02/16/23 20:20	
SM 2540C-2015	Total Dissolved Solids	1430	mg/L	25.0	02/07/23 18:39	
EPA 300.0 Rev 2.1 1993	Chloride	92.7	mg/L	1.0	02/07/23 18:55	
EPA 300.0 Rev 2.1 1993	Fluoride	0.21	mg/L	0.10	02/07/23 18:55	
EPA 300.0 Rev 2.1 1993	Sulfate	776	mg/L	17.0	02/08/23 09:10	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Hammond AP-2

Pace Project No.: 92648451

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92648451011	HAM-MW-23D					
	Performed by	Customer			02/09/23 20:53	
	pH	6.69	Std. Units		02/09/23 20:53	
EPA 6010D	Calcium	294	mg/L	1.0	02/14/23 19:59	
EPA 6020B	Barium	0.047	mg/L	0.0050	02/16/23 20:26	
EPA 6020B	Boron	3.0	mg/L	0.20	02/17/23 18:01	
EPA 6020B	Cadmium	0.00012J	mg/L	0.00050	02/16/23 20:26	
EPA 6020B	Cobalt	0.00081J	mg/L	0.0050	02/16/23 20:26	
EPA 6020B	Lithium	0.0019J	mg/L	0.030	02/16/23 20:26	
EPA 6020B	Molybdenum	0.0041J	mg/L	0.010	02/16/23 20:26	
SM 2540C-2015	Total Dissolved Solids	1320	mg/L	25.0	02/07/23 18:39	
EPA 300.0 Rev 2.1 1993	Chloride	137	mg/L	9.0	02/08/23 09:25	
EPA 300.0 Rev 2.1 1993	Fluoride	0.074J	mg/L	0.10	02/07/23 19:11	
EPA 300.0 Rev 2.1 1993	Sulfate	438	mg/L	9.0	02/08/23 09:25	
92648451012	HAM-MW-35					
	Performed by	Customer			02/09/23 20:54	
	pH	4.89	Std. Units		02/09/23 20:54	
EPA 6010D	Calcium	503	mg/L	5.0	02/15/23 16:57	
EPA 6020B	Arsenic	0.0060	mg/L	0.0050	02/16/23 20:44	
EPA 6020B	Barium	0.022	mg/L	0.0050	02/16/23 20:44	
EPA 6020B	Beryllium	0.00049J	mg/L	0.00050	02/16/23 20:44	
EPA 6020B	Boron	8.7	mg/L	0.040	02/16/23 20:44	
EPA 6020B	Cadmium	0.0017	mg/L	0.00050	02/16/23 20:44	
EPA 6020B	Cobalt	0.088	mg/L	0.025	02/17/23 18:06	
EPA 6020B	Lithium	0.0034J	mg/L	0.030	02/16/23 20:44	
EPA 6020B	Selenium	0.0063	mg/L	0.0050	02/16/23 20:44	
EPA 7470A	Mercury	0.00084	mg/L	0.00020	02/09/23 14:03	
SM 2540C-2015	Total Dissolved Solids	2410	mg/L	25.0	02/07/23 18:39	1g
EPA 300.0 Rev 2.1 1993	Chloride	189	mg/L	20.0	02/08/23 09:41	M1
EPA 300.0 Rev 2.1 1993	Fluoride	0.10	mg/L	0.10	02/07/23 19:27	M1
EPA 300.0 Rev 2.1 1993	Sulfate	1190	mg/L	20.0	02/08/23 09:41	M1
92648451013	HAM-MW-51					
	Performed by	Customer			02/09/23 20:55	
	pH	6.37	Std. Units		02/09/23 20:55	
EPA 6010D	Calcium	492	mg/L	5.0	02/15/23 17:02	
EPA 6020B	Arsenic	0.0041J	mg/L	0.0050	02/16/23 20:50	
EPA 6020B	Barium	0.033	mg/L	0.0050	02/16/23 20:50	
EPA 6020B	Beryllium	0.00028J	mg/L	0.00050	02/16/23 20:50	
EPA 6020B	Boron	8.3	mg/L	0.040	02/16/23 20:50	
EPA 6020B	Cadmium	0.0016	mg/L	0.00050	02/16/23 20:50	
EPA 6020B	Cobalt	0.021J	mg/L	0.025	02/17/23 18:12	D3
EPA 6020B	Lithium	0.0015J	mg/L	0.030	02/16/23 20:50	
EPA 6020B	Selenium	0.0021J	mg/L	0.0050	02/16/23 20:50	
SM 2540C-2015	Total Dissolved Solids	2090	mg/L	25.0	02/07/23 18:40	
EPA 300.0 Rev 2.1 1993	Chloride	158	mg/L	15.0	02/08/23 11:16	
EPA 300.0 Rev 2.1 1993	Fluoride	0.18	mg/L	0.10	02/07/23 20:15	
EPA 300.0 Rev 2.1 1993	Sulfate	1110	mg/L	15.0	02/08/23 11:16	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Hammond AP-2

Pace Project No.: 92648451

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92648451014	HAM-AP2-EB-02					
SM 2540C-2015	Total Dissolved Solids	28.0	mg/L	25.0	02/07/23 18:40	
92648451015	HAM-AP2-FB-02					
SM 2540C-2015	Total Dissolved Solids	58.0	mg/L	25.0	02/07/23 18:40	
92648451016	HAM-AP2-FD-02					
EPA 6010D	Calcium	283	mg/L	1.0	02/14/23 20:33	
EPA 6020B	Barium	0.048	mg/L	0.0050	02/16/23 21:08	
EPA 6020B	Boron	2.8	mg/L	0.040	02/16/23 21:08	
EPA 6020B	Cadmium	0.00012J	mg/L	0.00050	02/16/23 21:08	
EPA 6020B	Lithium	0.0020J	mg/L	0.030	02/16/23 21:08	
EPA 6020B	Molybdenum	0.0040J	mg/L	0.010	02/16/23 21:08	
SM 2540C-2015	Total Dissolved Solids	1400	mg/L	25.0	02/07/23 18:40	
EPA 300.0 Rev 2.1 1993	Chloride	137	mg/L	9.0	02/08/23 11:32	
EPA 300.0 Rev 2.1 1993	Fluoride	0.063J	mg/L	0.10	02/07/23 22:16	
EPA 300.0 Rev 2.1 1993	Sulfate	441	mg/L	9.0	02/08/23 11:32	
92648451017	HAM-MW-52					
	Performed by	Customer			02/09/23 20:58	
	pH	4.25	Std. Units		02/09/23 20:58	
EPA 6020B	Magnesium	5.7	mg/L	0.50	02/16/23 21:14	
EPA 6020B	Manganese	0.54	mg/L	0.10	02/16/23 21:14	
EPA 6020B	Potassium	1.2	mg/L	1.0	02/16/23 21:14	
EPA 6020B	Sodium	2.6	mg/L	1.0	02/16/23 21:14	
92649378001	HAM-HGWA-5					
	Performed by	Customer			01/30/23 16:41	
	pH	6.52	Std. Units		01/30/23 16:41	
EPA 6010D	Calcium	28.5	mg/L	1.0	03/21/23 18:47	
EPA 6020B	Barium	0.044	mg/L	0.0050	02/07/23 18:08	
EPA 6020B	Cobalt	0.00063J	mg/L	0.0050	02/07/23 18:08	
EPA 6020B	Lithium	0.0030J	mg/L	0.030	02/07/23 18:08	
SM 2540C-2015	Total Dissolved Solids	182	mg/L	25.0	02/02/23 19:17	
EPA 300.0 Rev 2.1 1993	Chloride	1.6	mg/L	1.0	02/03/23 16:07	
EPA 300.0 Rev 2.1 1993	Fluoride	0.088J	mg/L	0.10	02/03/23 16:07	
EPA 300.0 Rev 2.1 1993	Sulfate	22.7	mg/L	1.0	02/03/23 16:07	
92649378002	HAM-HGWA-6					
	Performed by	Customer			01/30/23 16:41	
	pH	7.66	Std. Units		01/30/23 16:41	
EPA 6010D	Calcium	55.4	mg/L	1.0	03/21/23 18:52	
EPA 6020B	Barium	0.20	mg/L	0.0050	02/07/23 18:14	
EPA 6020B	Boron	0.013J	mg/L	0.040	02/07/23 18:14	
EPA 6020B	Lithium	0.0096J	mg/L	0.030	02/07/23 18:14	
SM 2540C-2015	Total Dissolved Solids	229	mg/L	25.0	02/02/23 19:17	
EPA 300.0 Rev 2.1 1993	Chloride	1.4	mg/L	1.0	02/03/23 16:33	
EPA 300.0 Rev 2.1 1993	Fluoride	0.067J	mg/L	0.10	02/03/23 16:33	
EPA 300.0 Rev 2.1 1993	Sulfate	35.0	mg/L	1.0	02/03/23 16:33	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Hammond AP-2
Pace Project No.: 92648451

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92649378003	HAM-MW-21D					
	Performed by	Customer			01/30/23 16:41	
	pH	7.31	Std. Units		01/30/23 16:41	
EPA 6020B	Barium	0.031	mg/L	0.0050	02/07/23 18:20	
EPA 6020B	Boron	3.6	mg/L	0.040	02/07/23 18:20	
EPA 6020B	Calcium	281	mg/L	0.10	02/07/23 18:20	E
EPA 6020B	Lithium	0.018J	mg/L	0.030	02/07/23 18:20	
EPA 6020B	Molybdenum	0.028	mg/L	0.010	02/07/23 18:20	
SM 2540C-2015	Total Dissolved Solids	1420	mg/L	25.0	02/02/23 19:17	
EPA 300.0 Rev 2.1 1993	Chloride	167	mg/L	14.0	02/04/23 00:43	
EPA 300.0 Rev 2.1 1993	Fluoride	0.050J	mg/L	0.10	02/03/23 16:58	
EPA 300.0 Rev 2.1 1993	Sulfate	646	mg/L	14.0	02/04/23 00:43	
92649378004	HAM-MW-33					
	Performed by	Customer			02/18/23 12:54	
	pH	5.61	Std. Units		02/18/23 12:54	
EPA 6010D	Calcium	371	mg/L	5.0	04/17/23 13:32	M1
EPA 6020B	Arsenic	0.0031J	mg/L	0.0050	02/07/23 18:44	
EPA 6020B	Barium	0.018	mg/L	0.0050	02/07/23 18:44	
EPA 6020B	Beryllium	0.00019J	mg/L	0.00050	02/07/23 18:44	
EPA 6020B	Boron	4.6	mg/L	0.040	02/07/23 18:44	
EPA 6020B	Cadmium	0.00017J	mg/L	0.00050	02/07/23 18:44	
EPA 6020B	Cobalt	0.034	mg/L	0.0050	02/07/23 18:44	
EPA 6020B	Selenium	0.015	mg/L	0.0050	02/07/23 18:44	
EPA 6020B	Thallium	0.00021J	mg/L	0.0010	02/07/23 18:44	
SM 2540C-2015	Total Dissolved Solids	1570	mg/L	25.0	02/02/23 19:18	
EPA 300.0 Rev 2.1 1993	Chloride	83.4	mg/L	1.0	02/03/23 18:16	M1
EPA 300.0 Rev 2.1 1993	Fluoride	0.087J	mg/L	0.10	02/03/23 18:16	
EPA 300.0 Rev 2.1 1993	Sulfate	895	mg/L	20.0	02/04/23 01:08	M1

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Hammond AP-2
Pace Project No.: 92648451

Sample: HAM-HGWA-4		Lab ID: 92648451001		Collected: 01/23/23 17:04		Received: 01/24/23 12:38		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	Customer				1		02/09/23 20:33		
pH	5.62	Std. Units			1		02/09/23 20:33		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	24.0	mg/L	1.0	0.12	1	01/27/23 11:32	01/27/23 19:55	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	01/27/23 12:00	01/31/23 13:06	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	01/27/23 12:00	01/31/23 13:06	7440-38-2	
Barium	0.057	mg/L	0.0050	0.00067	1	01/27/23 12:00	01/31/23 13:06	7440-39-3	
Beryllium	0.00010J	mg/L	0.00050	0.000054	1	01/27/23 12:00	01/31/23 13:06	7440-41-7	
Boron	0.023J	mg/L	0.040	0.0086	1	01/27/23 12:00	01/31/23 13:06	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	01/27/23 12:00	01/31/23 13:06	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	01/27/23 12:00	01/31/23 13:06	7440-47-3	
Cobalt	0.00049J	mg/L	0.0050	0.00039	1	01/27/23 12:00	01/31/23 13:06	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	01/27/23 12:00	01/31/23 13:06	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	01/27/23 12:00	01/31/23 13:06	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	01/27/23 12:00	01/31/23 13:06	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	01/27/23 12:00	01/31/23 13:06	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	01/27/23 12:00	01/31/23 13:06	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/01/23 08:00	02/01/23 13:05	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	128	mg/L	25.0	25.0	1		01/27/23 14:04		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	1.6	mg/L	1.0	0.60	1		01/26/23 10:29	16887-00-6	
Fluoride	0.12	mg/L	0.10	0.050	1		01/26/23 10:29	16984-48-8	
Sulfate	42.5	mg/L	1.0	0.50	1		01/26/23 10:29	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-2

Pace Project No.: 92648451

Sample: HAM-HGWA-42D **Lab ID: 92648451002** Collected: 01/23/23 18:06 Received: 01/24/23 12:38 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	Customer				1		02/10/23 19:01		
pH	7.55	Std. Units			1		02/10/23 19:01		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	43.7	mg/L	1.0	0.12	1	01/27/23 11:32	01/27/23 20:00	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.0016J	mg/L	0.0030	0.00078	1	01/27/23 12:00	01/31/23 13:30	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	01/27/23 12:00	01/31/23 13:30	7440-38-2	
Barium	0.21	mg/L	0.0050	0.00067	1	01/27/23 12:00	01/31/23 13:30	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	01/27/23 12:00	01/31/23 13:30	7440-41-7	
Boron	0.052	mg/L	0.040	0.0086	1	01/27/23 12:00	01/31/23 13:30	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	01/27/23 12:00	01/31/23 13:30	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	01/27/23 12:00	01/31/23 13:30	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	01/27/23 12:00	01/31/23 13:30	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	01/27/23 12:00	01/31/23 13:30	7439-92-1	
Lithium	0.0097J	mg/L	0.030	0.00073	1	01/27/23 12:00	01/31/23 13:30	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	01/27/23 12:00	01/31/23 13:30	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	01/27/23 12:00	01/31/23 13:30	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	01/27/23 12:00	01/31/23 13:30	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/01/23 08:00	02/01/23 13:08	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	168	mg/L	25.0	25.0	1		01/27/23 14:06		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	3.3	mg/L	1.0	0.60	1		01/25/23 23:50	16887-00-6	
Fluoride	0.11	mg/L	0.10	0.050	1		01/25/23 23:50	16984-48-8	
Sulfate	11.1	mg/L	1.0	0.50	1		01/25/23 23:50	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-2

Pace Project No.: 92648451

Sample: HAM-HGWC-17 **Lab ID: 92648451003** Collected: 01/30/23 15:50 Received: 02/01/23 12:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
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Field Data

Analytical Method:
Pace Analytical Services - Charlotte

Performed by **Customer** 1 02/09/23 20:34
pH **6.44** Std. Units 1 02/09/23 20:34

6010D ATL ICP

Analytical Method: EPA 6010D Preparation Method: EPA 3010A
Pace Analytical Services - Peachtree Corners, GA

Calcium **286** mg/L 1.0 0.12 1 02/13/23 17:06 02/14/23 18:56 7440-70-2 M1

6020 MET ICPMS

Analytical Method: EPA 6020B Preparation Method: EPA 3005A
Pace Analytical Services - Peachtree Corners, GA

Antimony	ND	mg/L	0.0030	0.00078	1	02/16/23 13:08	02/17/23 13:03	7440-36-0	
Arsenic	0.0028J	mg/L	0.0050	0.0022	1	02/16/23 13:08	02/17/23 13:03	7440-38-2	
Barium	0.030	mg/L	0.0050	0.00067	1	02/16/23 13:08	02/17/23 13:03	7440-39-3	
Beryllium	0.000057J	mg/L	0.00050	0.000054	1	02/16/23 13:08	02/17/23 13:03	7440-41-7	
Boron	6.8	mg/L	0.040	0.0086	1	02/16/23 13:08	02/17/23 13:03	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/16/23 13:08	02/17/23 13:03	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/16/23 13:08	02/17/23 13:03	7440-47-3	
Cobalt	0.011	mg/L	0.0050	0.00039	1	02/16/23 13:08	02/17/23 13:03	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/16/23 13:08	02/17/23 13:03	7439-92-1	
Lithium	0.0014J	mg/L	0.030	0.00073	1	02/16/23 13:08	02/17/23 13:03	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/16/23 13:08	02/17/23 13:03	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/16/23 13:08	02/17/23 13:03	7782-49-2	
Thallium	0.00025J	mg/L	0.0010	0.00018	1	02/16/23 13:08	02/17/23 13:03	7440-28-0	

7470 Mercury

Analytical Method: EPA 7470A Preparation Method: EPA 7470A
Pace Analytical Services - Peachtree Corners, GA

Mercury ND mg/L 0.00020 0.00013 1 02/08/23 15:40 02/09/23 13:03 7439-97-6

2540C Total Dissolved Solids

Analytical Method: SM 2540C-2015
Pace Analytical Services - Peachtree Corners, GA

Total Dissolved Solids **1320** mg/L 25.0 25.0 1 02/02/23 20:28

300.0 IC Anions 28 Days

Analytical Method: EPA 300.0 Rev 2.1 1993
Pace Analytical Services - Asheville

Chloride	154	mg/L	10.0	6.0	10	02/04/23 12:53	16887-00-6	
Fluoride	0.097J	mg/L	0.10	0.050	1	02/03/23 22:34	16984-48-8	
Sulfate	451	mg/L	10.0	5.0	10	02/04/23 12:53	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-2
Pace Project No.: 92648451

Sample: HAM-MW-22		Lab ID: 92648451004		Collected: 01/30/23 18:15		Received: 02/01/23 12:45		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	Customer				1		02/09/23 20:41		
pH	5.47	Std. Units			1		02/09/23 20:41		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	189	mg/L	1.0	0.12	1	02/13/23 17:06	02/14/23 19:25	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/16/23 13:08	02/17/23 13:09	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/16/23 13:08	02/17/23 13:09	7440-38-2	
Barium	0.014	mg/L	0.0050	0.00067	1	02/16/23 13:08	02/17/23 13:09	7440-39-3	
Beryllium	0.000081J	mg/L	0.00050	0.000054	1	02/16/23 13:08	02/17/23 13:09	7440-41-7	
Boron	2.4	mg/L	0.040	0.0086	1	02/16/23 13:08	02/17/23 13:09	7440-42-8	
Cadmium	0.0017	mg/L	0.00050	0.00011	1	02/16/23 13:08	02/17/23 13:09	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/16/23 13:08	02/17/23 13:09	7440-47-3	
Cobalt	0.027	mg/L	0.0050	0.00039	1	02/16/23 13:08	02/17/23 13:09	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/16/23 13:08	02/17/23 13:09	7439-92-1	
Lithium	0.0011J	mg/L	0.030	0.00073	1	02/16/23 13:08	02/17/23 13:09	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/16/23 13:08	02/17/23 13:09	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/16/23 13:08	02/17/23 13:09	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/16/23 13:08	02/17/23 13:09	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/08/23 15:40	02/09/23 13:42	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	961	mg/L	25.0	25.0	1		02/02/23 20:28		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	109	mg/L	9.0	5.4	9		02/04/23 13:09	16887-00-6	
Fluoride	0.064J	mg/L	0.10	0.050	1		02/03/23 23:22	16984-48-8	
Sulfate	445	mg/L	9.0	4.5	9		02/04/23 13:09	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-2

Pace Project No.: 92648451

Sample: HAM-MW-34D		Lab ID: 92648451005		Collected: 01/30/23 13:05		Received: 02/01/23 12:45		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	Customer				1		02/09/23 20:42		
pH	6.99	Std. Units			1		02/09/23 20:42		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	558	mg/L	5.0	0.61	5	02/13/23 17:06	02/15/23 16:48	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.0018J	mg/L	0.0030	0.00078	1	02/16/23 13:08	02/17/23 13:32	7440-36-0	
Arsenic	0.0047J	mg/L	0.0050	0.0022	1	02/16/23 13:08	02/17/23 13:32	7440-38-2	
Barium	0.040	mg/L	0.0050	0.00067	1	02/16/23 13:08	02/17/23 13:32	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/16/23 13:08	02/17/23 13:32	7440-41-7	
Boron	8.0	mg/L	0.040	0.0086	1	02/16/23 13:08	02/17/23 13:32	7440-42-8	
Cadmium	0.00047J	mg/L	0.00050	0.00011	1	02/16/23 13:08	02/17/23 13:32	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/16/23 13:08	02/17/23 13:32	7440-47-3	
Cobalt	0.0071	mg/L	0.0050	0.00039	1	02/16/23 13:08	02/17/23 13:32	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/16/23 13:08	02/17/23 13:32	7439-92-1	
Lithium	0.0013J	mg/L	0.030	0.00073	1	02/16/23 13:08	02/17/23 13:32	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/16/23 13:08	02/17/23 13:32	7439-98-7	
Selenium	0.0016J	mg/L	0.0050	0.0014	1	02/16/23 13:08	02/17/23 13:32	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/16/23 13:08	02/17/23 13:32	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/08/23 15:40	02/09/23 13:45	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	2230	mg/L	50.0	50.0	1		02/02/23 20:28		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	173	mg/L	25.0	15.0	25		02/04/23 13:24	16887-00-6	
Fluoride	0.089J	mg/L	0.10	0.050	1		02/03/23 23:38	16984-48-8	
Sulfate	1120	mg/L	25.0	12.5	25		02/04/23 13:24	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-2
Pace Project No.: 92648451

Sample: HAM-MW-37D		Lab ID: 92648451006		Collected: 01/30/23 16:11		Received: 02/01/23 12:45		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	Customer				1		02/09/23 20:44		
pH	7.56	Std. Units			1		02/09/23 20:44		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	74.6	mg/L	1.0	0.12	1	02/13/23 17:06	02/14/23 19:35	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/16/23 13:08	02/17/23 13:38	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/16/23 13:08	02/17/23 13:38	7440-38-2	
Barium	0.13	mg/L	0.0050	0.00067	1	02/16/23 13:08	02/17/23 13:38	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/16/23 13:08	02/17/23 13:38	7440-41-7	
Boron	0.15	mg/L	0.040	0.0086	1	02/16/23 13:08	02/17/23 13:38	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/16/23 13:08	02/17/23 13:38	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/16/23 13:08	02/17/23 13:38	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/16/23 13:08	02/17/23 13:38	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/16/23 13:08	02/17/23 13:38	7439-92-1	
Lithium	0.021J	mg/L	0.030	0.00073	1	02/16/23 13:08	02/17/23 13:38	7439-93-2	
Molybdenum	0.0063J	mg/L	0.010	0.00074	1	02/16/23 13:08	02/17/23 13:38	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/16/23 13:08	02/17/23 13:38	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/16/23 13:08	02/17/23 13:38	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/08/23 15:40	02/09/23 13:47	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	226	mg/L	25.0	25.0	1		02/02/23 20:28		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	49.2	mg/L	1.0	0.60	1		02/03/23 23:54	16887-00-6	
Fluoride	0.092J	mg/L	0.10	0.050	1		02/03/23 23:54	16984-48-8	
Sulfate	85.2	mg/L	1.0	0.50	1		02/03/23 23:54	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-2
Pace Project No.: 92648451

Sample: HAM-HGWC-14		Lab ID: 92648451007		Collected: 02/01/23 14:55		Received: 02/03/23 12:05		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	Customer				1		02/09/23 20:46		
pH	4.93	Std. Units			1		02/09/23 20:46		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	464	mg/L	5.0	0.61	5	02/13/23 17:06	02/15/23 16:53	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/14/23 17:00	02/16/23 19:44	7440-36-0	
Arsenic	0.0040J	mg/L	0.0050	0.0022	1	02/14/23 17:00	02/16/23 19:44	7440-38-2	
Barium	0.017	mg/L	0.0050	0.00067	1	02/14/23 17:00	02/16/23 19:44	7440-39-3	
Beryllium	0.00039J	mg/L	0.00050	0.000054	1	02/14/23 17:00	02/16/23 19:44	7440-41-7	
Boron	7.7	mg/L	0.20	0.043	5	02/14/23 17:00	02/17/23 17:25	7440-42-8	M1
Cadmium	ND	mg/L	0.00050	0.00011	1	02/14/23 17:00	02/16/23 19:44	7440-43-9	
Chromium	ND	mg/L	0.025	0.0055	5	02/14/23 17:00	02/17/23 17:25	7440-47-3	D3
Cobalt	0.035	mg/L	0.0050	0.00039	1	02/14/23 17:00	02/16/23 19:44	7440-48-4	
Lead	0.0011	mg/L	0.0010	0.00089	1	02/14/23 17:00	02/16/23 19:44	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/14/23 17:00	02/16/23 19:44	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/14/23 17:00	02/16/23 19:44	7439-98-7	
Selenium	0.0036J	mg/L	0.0050	0.0014	1	02/14/23 17:00	02/16/23 19:44	7782-49-2	
Thallium	0.00047J	mg/L	0.0010	0.00018	1	02/14/23 17:00	02/16/23 19:44	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/08/23 15:40	02/09/23 13:50	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	1950	mg/L	25.0	25.0	1		02/07/23 18:38		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	108	mg/L	24.0	14.4	24		02/08/23 08:23	16887-00-6	
Fluoride	0.094J	mg/L	0.10	0.050	1		02/07/23 17:33	16984-48-8	
Sulfate	1060	mg/L	24.0	12.0	24		02/08/23 08:23	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-2
Pace Project No.: 92648451

Sample: HAM-HGWC-15		Lab ID: 92648451008		Collected: 02/01/23 14:44		Received: 02/03/23 12:05		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	Customer				1		02/09/23 20:47		
pH	6.22	Std. Units			1		02/09/23 20:47		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	174	mg/L	1.0	0.12	1	02/13/23 17:06	02/14/23 19:45	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.0021J	mg/L	0.0030	0.00078	1	02/14/23 17:00	02/16/23 20:08	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/14/23 17:00	02/16/23 20:08	7440-38-2	
Barium	0.021	mg/L	0.0050	0.00067	1	02/14/23 17:00	02/16/23 20:08	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/14/23 17:00	02/16/23 20:08	7440-41-7	
Boron	2.0	mg/L	0.20	0.043	5	02/14/23 17:00	02/17/23 17:43	7440-42-8	
Cadmium	0.00088	mg/L	0.00050	0.00011	1	02/14/23 17:00	02/16/23 20:08	7440-43-9	
Chromium	ND	mg/L	0.025	0.0055	5	02/14/23 17:00	02/17/23 17:43	7440-47-3	D3
Cobalt	0.0091	mg/L	0.0050	0.00039	1	02/14/23 17:00	02/16/23 20:08	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/14/23 17:00	02/16/23 20:08	7439-92-1	
Lithium	0.016J	mg/L	0.030	0.00073	1	02/14/23 17:00	02/16/23 20:08	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/14/23 17:00	02/16/23 20:08	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/14/23 17:00	02/16/23 20:08	7782-49-2	
Thallium	0.00022J	mg/L	0.0010	0.00018	1	02/14/23 17:00	02/16/23 20:08	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/08/23 15:40	02/09/23 13:53	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	892	mg/L	25.0	25.0	1		02/07/23 18:39		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	85.0	mg/L	1.0	0.60	1		02/07/23 18:23	16887-00-6	
Fluoride	0.086J	mg/L	0.10	0.050	1		02/07/23 18:23	16984-48-8	
Sulfate	341	mg/L	7.0	3.5	7		02/08/23 08:38	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-2
Pace Project No.: 92648451

Sample: HAM-HGWC-16		Lab ID: 92648451009		Collected: 02/01/23 12:30		Received: 02/03/23 12:05		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	Customer				1		02/09/23 20:48		
pH	7.15	Std. Units			1		02/09/23 20:48		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	216	mg/L	1.0	0.12	1	02/13/23 17:06	02/14/23 19:49	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/14/23 17:00	02/16/23 20:14	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/14/23 17:00	02/16/23 20:14	7440-38-2	
Barium	0.11	mg/L	0.0050	0.00067	1	02/14/23 17:00	02/16/23 20:14	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/14/23 17:00	02/16/23 20:14	7440-41-7	
Boron	2.8	mg/L	0.20	0.043	5	02/14/23 17:00	02/17/23 17:49	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/14/23 17:00	02/16/23 20:14	7440-43-9	
Chromium	ND	mg/L	0.025	0.0055	5	02/14/23 17:00	02/17/23 17:49	7440-47-3	D3
Cobalt	ND	mg/L	0.0050	0.00039	1	02/14/23 17:00	02/16/23 20:14	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/14/23 17:00	02/16/23 20:14	7439-92-1	
Lithium	0.0036J	mg/L	0.030	0.00073	1	02/14/23 17:00	02/16/23 20:14	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/14/23 17:00	02/16/23 20:14	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/14/23 17:00	02/16/23 20:14	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/14/23 17:00	02/16/23 20:14	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/08/23 15:40	02/09/23 13:55	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	1030	mg/L	25.0	25.0	1		02/07/23 18:39		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	112	mg/L	5.0	3.0	5		02/08/23 08:54	16887-00-6	
Fluoride	0.053J	mg/L	0.10	0.050	1		02/07/23 18:39	16984-48-8	
Sulfate	257	mg/L	5.0	2.5	5		02/08/23 08:54	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Hammond AP-2
Pace Project No.: 92648451

Sample: HAM-HGWC-18		Lab ID: 92648451010		Collected: 02/01/23 10:55		Received: 02/03/23 12:05		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	Customer				1		02/09/23 20:51		
pH	4.66	Std. Units			1		02/09/23 20:51		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	288	mg/L	1.0	0.12	1	02/13/23 17:06	02/14/23 19:54	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/14/23 17:00	02/16/23 20:20	7440-36-0	
Arsenic	0.0036J	mg/L	0.0050	0.0022	1	02/14/23 17:00	02/16/23 20:20	7440-38-2	
Barium	0.019	mg/L	0.0050	0.00067	1	02/14/23 17:00	02/16/23 20:20	7440-39-3	
Beryllium	0.0020	mg/L	0.00050	0.000054	1	02/14/23 17:00	02/16/23 20:20	7440-41-7	
Boron	5.9	mg/L	0.20	0.043	5	02/14/23 17:00	02/17/23 17:55	7440-42-8	
Cadmium	0.0010	mg/L	0.00050	0.00011	1	02/14/23 17:00	02/16/23 20:20	7440-43-9	
Chromium	ND	mg/L	0.025	0.0055	5	02/14/23 17:00	02/17/23 17:55	7440-47-3	D3
Cobalt	0.11	mg/L	0.0050	0.00039	1	02/14/23 17:00	02/16/23 20:20	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/14/23 17:00	02/16/23 20:20	7439-92-1	
Lithium	0.0093J	mg/L	0.030	0.00073	1	02/14/23 17:00	02/16/23 20:20	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/14/23 17:00	02/16/23 20:20	7439-98-7	
Selenium	0.0054	mg/L	0.0050	0.0014	1	02/14/23 17:00	02/16/23 20:20	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/14/23 17:00	02/16/23 20:20	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/08/23 15:40	02/09/23 13:58	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	1430	mg/L	25.0	25.0	1		02/07/23 18:39		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	92.7	mg/L	1.0	0.60	1		02/07/23 18:55	16887-00-6	
Fluoride	0.21	mg/L	0.10	0.050	1		02/07/23 18:55	16984-48-8	
Sulfate	776	mg/L	17.0	8.5	17		02/08/23 09:10	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-2
Pace Project No.: 92648451

Sample: HAM-MW-23D		Lab ID: 92648451011		Collected: 02/01/23 13:20		Received: 02/03/23 12:05		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	Customer				1		02/09/23 20:53		
pH	6.69	Std. Units			1		02/09/23 20:53		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	294	mg/L	1.0	0.12	1	02/13/23 17:06	02/14/23 19:59	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/14/23 17:00	02/16/23 20:26	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/14/23 17:00	02/16/23 20:26	7440-38-2	
Barium	0.047	mg/L	0.0050	0.00067	1	02/14/23 17:00	02/16/23 20:26	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/14/23 17:00	02/16/23 20:26	7440-41-7	
Boron	3.0	mg/L	0.20	0.043	5	02/14/23 17:00	02/17/23 18:01	7440-42-8	
Cadmium	0.00012J	mg/L	0.00050	0.00011	1	02/14/23 17:00	02/16/23 20:26	7440-43-9	
Chromium	ND	mg/L	0.025	0.0055	5	02/14/23 17:00	02/17/23 18:01	7440-47-3	D3
Cobalt	0.00081J	mg/L	0.0050	0.00039	1	02/14/23 17:00	02/16/23 20:26	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/14/23 17:00	02/16/23 20:26	7439-92-1	
Lithium	0.0019J	mg/L	0.030	0.00073	1	02/14/23 17:00	02/16/23 20:26	7439-93-2	
Molybdenum	0.0041J	mg/L	0.010	0.00074	1	02/14/23 17:00	02/16/23 20:26	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/14/23 17:00	02/16/23 20:26	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/14/23 17:00	02/16/23 20:26	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/08/23 15:40	02/09/23 14:00	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	1320	mg/L	25.0	25.0	1		02/07/23 18:39		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	137	mg/L	9.0	5.4	9		02/08/23 09:25	16887-00-6	
Fluoride	0.074J	mg/L	0.10	0.050	1		02/07/23 19:11	16984-48-8	
Sulfate	438	mg/L	9.0	4.5	9		02/08/23 09:25	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-2
Pace Project No.: 92648451

Sample: HAM-MW-35		Lab ID: 92648451012		Collected: 02/01/23 10:02		Received: 02/03/23 12:05		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	Customer				1		02/09/23 20:54		
pH	4.89	Std. Units			1		02/09/23 20:54		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	503	mg/L	5.0	0.61	5	02/13/23 17:06	02/15/23 16:57	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/14/23 17:00	02/16/23 20:44	7440-36-0	
Arsenic	0.0060	mg/L	0.0050	0.0022	1	02/14/23 17:00	02/16/23 20:44	7440-38-2	
Barium	0.022	mg/L	0.0050	0.00067	1	02/14/23 17:00	02/16/23 20:44	7440-39-3	
Beryllium	0.00049J	mg/L	0.00050	0.000054	1	02/14/23 17:00	02/16/23 20:44	7440-41-7	
Boron	8.7	mg/L	0.040	0.0086	1	02/14/23 17:00	02/16/23 20:44	7440-42-8	
Cadmium	0.0017	mg/L	0.00050	0.00011	1	02/14/23 17:00	02/16/23 20:44	7440-43-9	
Chromium	ND	mg/L	0.025	0.0055	5	02/14/23 17:00	02/17/23 18:06	7440-47-3	D3
Cobalt	0.088	mg/L	0.025	0.0020	5	02/14/23 17:00	02/17/23 18:06	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/14/23 17:00	02/16/23 20:44	7439-92-1	
Lithium	0.0034J	mg/L	0.030	0.00073	1	02/14/23 17:00	02/16/23 20:44	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/14/23 17:00	02/16/23 20:44	7439-98-7	
Selenium	0.0063	mg/L	0.0050	0.0014	1	02/14/23 17:00	02/16/23 20:44	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/14/23 17:00	02/16/23 20:44	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	0.00084	mg/L	0.00020	0.00013	1	02/08/23 15:40	02/09/23 14:03	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	2410	mg/L	25.0	25.0	1		02/07/23 18:39		1g
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	189	mg/L	20.0	12.0	20		02/08/23 09:41	16887-00-6	M1
Fluoride	0.10	mg/L	0.10	0.050	1		02/07/23 19:27	16984-48-8	M1
Sulfate	1190	mg/L	20.0	10.0	20		02/08/23 09:41	14808-79-8	M1

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ANALYTICAL RESULTS

Project: Hammond AP-2
Pace Project No.: 92648451

Sample: HAM-MW-51		Lab ID: 92648451013		Collected: 02/01/23 11:32		Received: 02/03/23 12:05		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	Customer				1		02/09/23 20:55		
pH	6.37	Std. Units			1		02/09/23 20:55		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	492	mg/L	5.0	0.61	5	02/13/23 17:06	02/15/23 17:02	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/14/23 17:00	02/16/23 20:50	7440-36-0	
Arsenic	0.0041J	mg/L	0.0050	0.0022	1	02/14/23 17:00	02/16/23 20:50	7440-38-2	
Barium	0.033	mg/L	0.0050	0.00067	1	02/14/23 17:00	02/16/23 20:50	7440-39-3	
Beryllium	0.00028J	mg/L	0.00050	0.000054	1	02/14/23 17:00	02/16/23 20:50	7440-41-7	
Boron	8.3	mg/L	0.040	0.0086	1	02/14/23 17:00	02/16/23 20:50	7440-42-8	
Cadmium	0.0016	mg/L	0.00050	0.00011	1	02/14/23 17:00	02/16/23 20:50	7440-43-9	
Chromium	ND	mg/L	0.025	0.0055	5	02/14/23 17:00	02/17/23 18:12	7440-47-3	D3
Cobalt	0.021J	mg/L	0.025	0.0020	5	02/14/23 17:00	02/17/23 18:12	7440-48-4	D3
Lead	ND	mg/L	0.0010	0.00089	1	02/14/23 17:00	02/16/23 20:50	7439-92-1	
Lithium	0.0015J	mg/L	0.030	0.00073	1	02/14/23 17:00	02/16/23 20:50	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/14/23 17:00	02/16/23 20:50	7439-98-7	
Selenium	0.0021J	mg/L	0.0050	0.0014	1	02/14/23 17:00	02/16/23 20:50	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/14/23 17:00	02/16/23 20:50	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/08/23 15:40	02/09/23 14:11	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	2090	mg/L	25.0	25.0	1		02/07/23 18:40		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	158	mg/L	15.0	9.0	15		02/08/23 11:16	16887-00-6	
Fluoride	0.18	mg/L	0.10	0.050	1		02/07/23 20:15	16984-48-8	
Sulfate	1110	mg/L	15.0	7.5	15		02/08/23 11:16	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-2
Pace Project No.: 92648451

Sample: HAM-AP2-EB-02		Lab ID: 92648451014		Collected: 02/01/23 14:20		Received: 02/03/23 12:05		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	ND	mg/L	1.0	0.12	1	02/13/23 17:06	02/14/23 20:24	7440-70-2		
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	02/14/23 17:00	02/16/23 20:56	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.0022	1	02/14/23 17:00	02/16/23 20:56	7440-38-2		
Barium	ND	mg/L	0.0050	0.00067	1	02/14/23 17:00	02/16/23 20:56	7440-39-3		
Beryllium	ND	mg/L	0.00050	0.000054	1	02/14/23 17:00	02/16/23 20:56	7440-41-7		
Boron	ND	mg/L	0.040	0.0086	1	02/14/23 17:00	02/17/23 16:49	7440-42-8		
Cadmium	ND	mg/L	0.00050	0.00011	1	02/14/23 17:00	02/16/23 20:56	7440-43-9		
Chromium	ND	mg/L	0.0050	0.0011	1	02/14/23 17:00	02/17/23 16:49	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00039	1	02/14/23 17:00	02/17/23 16:49	7440-48-4		
Lead	ND	mg/L	0.0010	0.00089	1	02/14/23 17:00	02/16/23 20:56	7439-92-1		
Lithium	ND	mg/L	0.030	0.00073	1	02/14/23 17:00	02/16/23 20:56	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00074	1	02/14/23 17:00	02/16/23 20:56	7439-98-7		
Selenium	ND	mg/L	0.0050	0.0014	1	02/14/23 17:00	02/16/23 20:56	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00018	1	02/14/23 17:00	02/16/23 20:56	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/08/23 15:40	02/09/23 14:14	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	28.0	mg/L	25.0	25.0	1		02/07/23 18:40			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		02/07/23 21:44	16887-00-6		
Fluoride	ND	mg/L	0.10	0.050	1		02/07/23 21:44	16984-48-8		
Sulfate	ND	mg/L	1.0	0.50	1		02/07/23 21:44	14808-79-8		

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ANALYTICAL RESULTS

Project: Hammond AP-2

Pace Project No.: 92648451

Sample: HAM-AP2-FB-02 **Lab ID: 92648451015** Collected: 02/01/23 14:15 Received: 02/03/23 12:05 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				

6010D ATL ICP

Analytical Method: EPA 6010D Preparation Method: EPA 3010A
Pace Analytical Services - Peachtree Corners, GA

Calcium	ND	mg/L	1.0	0.12	1	02/13/23 17:06	02/14/23 20:28	7440-70-2	
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6020 MET ICPMS

Analytical Method: EPA 6020B Preparation Method: EPA 3005A
Pace Analytical Services - Peachtree Corners, GA

Antimony	ND	mg/L	0.0030	0.00078	1	02/14/23 17:00	02/16/23 21:02	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/14/23 17:00	02/16/23 21:02	7440-38-2	
Barium	ND	mg/L	0.0050	0.00067	1	02/14/23 17:00	02/16/23 21:02	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/14/23 17:00	02/16/23 21:02	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/14/23 17:00	02/17/23 16:55	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/14/23 17:00	02/16/23 21:02	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/14/23 17:00	02/17/23 16:55	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/14/23 17:00	02/17/23 16:55	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/14/23 17:00	02/16/23 21:02	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/14/23 17:00	02/16/23 21:02	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/14/23 17:00	02/16/23 21:02	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/14/23 17:00	02/16/23 21:02	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/14/23 17:00	02/16/23 21:02	7440-28-0	

7470 Mercury

Analytical Method: EPA 7470A Preparation Method: EPA 7470A
Pace Analytical Services - Peachtree Corners, GA

Mercury	ND	mg/L	0.00020	0.00013	1	02/08/23 15:40	02/09/23 14:16	7439-97-6	
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2540C Total Dissolved Solids

Analytical Method: SM 2540C-2015
Pace Analytical Services - Peachtree Corners, GA

Total Dissolved Solids	58.0	mg/L	25.0	25.0	1	02/07/23 18:40			
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300.0 IC Anions 28 Days

Analytical Method: EPA 300.0 Rev 2.1 1993
Pace Analytical Services - Asheville

Chloride	ND	mg/L	1.0	0.60	1	02/07/23 22:00		16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1	02/07/23 22:00		16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1	02/07/23 22:00		14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Hammond AP-2
Pace Project No.: 92648451

Sample: HAM-AP2-FD-02		Lab ID: 92648451016		Collected: 02/01/23 00:00		Received: 02/03/23 12:05		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	283	mg/L	1.0	0.12	1	02/13/23 17:06	02/14/23 20:33	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/14/23 17:00	02/16/23 21:08	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/14/23 17:00	02/16/23 21:08	7440-38-2	
Barium	0.048	mg/L	0.0050	0.00067	1	02/14/23 17:00	02/16/23 21:08	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/14/23 17:00	02/16/23 21:08	7440-41-7	
Boron	2.8	mg/L	0.040	0.0086	1	02/14/23 17:00	02/16/23 21:08	7440-42-8	
Cadmium	0.00012J	mg/L	0.00050	0.00011	1	02/14/23 17:00	02/16/23 21:08	7440-43-9	
Chromium	ND	mg/L	0.025	0.0055	5	02/14/23 17:00	02/17/23 18:18	7440-47-3	D3
Cobalt	ND	mg/L	0.025	0.0020	5	02/14/23 17:00	02/17/23 18:18	7440-48-4	D3
Lead	ND	mg/L	0.0010	0.00089	1	02/14/23 17:00	02/16/23 21:08	7439-92-1	
Lithium	0.0020J	mg/L	0.030	0.00073	1	02/14/23 17:00	02/16/23 21:08	7439-93-2	
Molybdenum	0.0040J	mg/L	0.010	0.00074	1	02/14/23 17:00	02/16/23 21:08	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/14/23 17:00	02/16/23 21:08	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/14/23 17:00	02/16/23 21:08	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/08/23 15:40	02/09/23 14:19	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	1400	mg/L	25.0	25.0	1		02/07/23 18:40		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	137	mg/L	9.0	5.4	9		02/08/23 11:32	16887-00-6	
Fluoride	0.063J	mg/L	0.10	0.050	1		02/07/23 22:16	16984-48-8	
Sulfate	441	mg/L	9.0	4.5	9		02/08/23 11:32	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-2

Pace Project No.: 92648451

Sample: HAM-MW-52		Lab ID: 92648451017		Collected: 02/01/23 13:41		Received: 02/03/23 12:05		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	Customer				1		02/09/23 20:58		
pH	4.25	Std. Units			1		02/09/23 20:58		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	ND	mg/L	0.40	0.30	10	02/14/23 17:00	02/16/23 21:14	7439-89-6	D3
Magnesium	5.7	mg/L	0.50	0.10	10	02/14/23 17:00	02/16/23 21:14	7439-95-4	
Manganese	0.54	mg/L	0.10	0.011	10	02/14/23 17:00	02/16/23 21:14	7439-96-5	
Potassium	1.2	mg/L	1.0	0.47	10	02/14/23 17:00	02/16/23 21:14	7440-09-7	
Sodium	2.6	mg/L	1.0	0.23	10	02/14/23 17:00	02/16/23 21:14	7440-23-5	
2320B Alkalinity									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO ₃)	ND	mg/L	5.0	5.0	1		02/07/23 18:37		
Alkalinity, Total as CaCO ₃	ND	mg/L	5.0	5.0	1		02/07/23 18:37		
4500S2D Sulfide Water									
Analytical Method: SM 4500-S2D-2011									
Pace Analytical Services - Asheville									
Sulfide	ND	mg/L	0.10	0.022	1		02/08/23 03:50	18496-25-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Hammond AP-2
Pace Project No.: 92648451

Sample: HAM-HGWA-5		Lab ID: 92649378001		Collected: 01/27/23 10:59		Received: 01/30/23 11:58		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	Customer				1		01/30/23 16:41		
pH	6.52	Std. Units			1		01/30/23 16:41		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	28.5	mg/L	1.0	0.12	1	03/20/23 12:41	03/21/23 18:47	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/03/23 11:33	02/07/23 18:08	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/03/23 11:33	02/07/23 18:08	7440-38-2	
Barium	0.044	mg/L	0.0050	0.00067	1	02/03/23 11:33	02/07/23 18:08	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/03/23 11:33	02/07/23 18:08	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/03/23 11:33	02/07/23 18:08	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/03/23 11:33	02/07/23 18:08	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/03/23 11:33	02/07/23 18:08	7440-47-3	
Cobalt	0.00063J	mg/L	0.0050	0.00039	1	02/03/23 11:33	02/07/23 18:08	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/03/23 11:33	02/07/23 18:08	7439-92-1	
Lithium	0.0030J	mg/L	0.030	0.00073	1	02/03/23 11:33	02/07/23 18:08	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/03/23 11:33	02/07/23 18:08	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/03/23 11:33	02/07/23 18:08	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/03/23 11:33	02/07/23 18:08	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/08/23 07:30	02/08/23 13:01	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	182	mg/L	25.0	25.0	1		02/02/23 19:17		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	1.6	mg/L	1.0	0.60	1		02/03/23 16:07	16887-00-6	
Fluoride	0.088J	mg/L	0.10	0.050	1		02/03/23 16:07	16984-48-8	
Sulfate	22.7	mg/L	1.0	0.50	1		02/03/23 16:07	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-2
Pace Project No.: 92648451

Sample: HAM-HGWA-6		Lab ID: 92649378002		Collected: 01/27/23 10:10		Received: 01/30/23 11:58		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	Customer				1		01/30/23 16:41		
pH	7.66	Std. Units			1		01/30/23 16:41		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	55.4	mg/L	1.0	0.12	1	03/20/23 12:41	03/21/23 18:52	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/03/23 11:33	02/07/23 18:14	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/03/23 11:33	02/07/23 18:14	7440-38-2	
Barium	0.20	mg/L	0.0050	0.00067	1	02/03/23 11:33	02/07/23 18:14	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/03/23 11:33	02/07/23 18:14	7440-41-7	
Boron	0.013J	mg/L	0.040	0.0086	1	02/03/23 11:33	02/07/23 18:14	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/03/23 11:33	02/07/23 18:14	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/03/23 11:33	02/07/23 18:14	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/03/23 11:33	02/07/23 18:14	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/03/23 11:33	02/07/23 18:14	7439-92-1	
Lithium	0.0096J	mg/L	0.030	0.00073	1	02/03/23 11:33	02/07/23 18:14	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/03/23 11:33	02/07/23 18:14	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/03/23 11:33	02/07/23 18:14	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/03/23 11:33	02/07/23 18:14	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/08/23 07:30	02/08/23 13:09	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	229	mg/L	25.0	25.0	1		02/02/23 19:17		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	1.4	mg/L	1.0	0.60	1		02/03/23 16:33	16887-00-6	
Fluoride	0.067J	mg/L	0.10	0.050	1		02/03/23 16:33	16984-48-8	
Sulfate	35.0	mg/L	1.0	0.50	1		02/03/23 16:33	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Hammond AP-2
Pace Project No.: 92648451

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Sample: HAM-MW-21D									
Lab ID: 92649378003									
Collected: 01/27/23 17:08									
Received: 01/30/23 11:58									
Matrix: Water									
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	Customer				1		01/30/23 16:41		
pH	7.31	Std. Units			1		01/30/23 16:41		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/03/23 11:33	02/07/23 18:20	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/03/23 11:33	02/07/23 18:20	7440-38-2	
Barium	0.031	mg/L	0.0050	0.00067	1	02/03/23 11:33	02/07/23 18:20	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/03/23 11:33	02/07/23 18:20	7440-41-7	
Boron	3.6	mg/L	0.040	0.0086	1	02/03/23 11:33	02/07/23 18:20	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/03/23 11:33	02/07/23 18:20	7440-43-9	
Calcium	281	mg/L	0.10	0.038	1	02/03/23 11:33	02/07/23 18:20	7440-70-2	E
Chromium	ND	mg/L	0.0050	0.0011	1	02/03/23 11:33	02/07/23 18:20	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/03/23 11:33	02/07/23 18:20	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/03/23 11:33	02/07/23 18:20	7439-92-1	
Lithium	0.018J	mg/L	0.030	0.00073	1	02/03/23 11:33	02/07/23 18:20	7439-93-2	
Molybdenum	0.028	mg/L	0.010	0.00074	1	02/03/23 11:33	02/07/23 18:20	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/03/23 11:33	02/07/23 18:20	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/03/23 11:33	02/07/23 18:20	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/08/23 07:30	02/08/23 13:12	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	1420	mg/L	25.0	25.0	1		02/02/23 19:17		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	167	mg/L	14.0	8.4	14		02/04/23 00:43	16887-00-6	
Fluoride	0.050J	mg/L	0.10	0.050	1		02/03/23 16:58	16984-48-8	
Sulfate	646	mg/L	14.0	7.0	14		02/04/23 00:43	14808-79-8	

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ANALYTICAL RESULTS

Project: Hammond AP-2
Pace Project No.: 92648451

Sample: HAM-MW-33		Lab ID: 92649378004		Collected: 01/27/23 14:34		Received: 01/30/23 11:58		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	Customer				1		02/18/23 12:54		
pH	5.61	Std. Units			1		02/18/23 12:54		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	371	mg/L	5.0	0.61	5	04/14/23 13:41	04/17/23 13:32	7440-70-2	M1
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/03/23 11:33	02/07/23 18:44	7440-36-0	
Arsenic	0.0031J	mg/L	0.0050	0.0022	1	02/03/23 11:33	02/07/23 18:44	7440-38-2	
Barium	0.018	mg/L	0.0050	0.00067	1	02/03/23 11:33	02/07/23 18:44	7440-39-3	
Beryllium	0.00019J	mg/L	0.00050	0.000054	1	02/03/23 11:33	02/07/23 18:44	7440-41-7	
Boron	4.6	mg/L	0.040	0.0086	1	02/03/23 11:33	02/07/23 18:44	7440-42-8	
Cadmium	0.00017J	mg/L	0.00050	0.00011	1	02/03/23 11:33	02/07/23 18:44	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/03/23 11:33	02/07/23 18:44	7440-47-3	
Cobalt	0.034	mg/L	0.0050	0.00039	1	02/03/23 11:33	02/07/23 18:44	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/03/23 11:33	02/07/23 18:44	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/03/23 11:33	02/07/23 18:44	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/03/23 11:33	02/07/23 18:44	7439-98-7	
Selenium	0.015	mg/L	0.0050	0.0014	1	02/03/23 11:33	02/07/23 18:44	7782-49-2	
Thallium	0.00021J	mg/L	0.0010	0.00018	1	02/03/23 11:33	02/07/23 18:44	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/08/23 07:30	02/08/23 13:14	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	1570	mg/L	25.0	25.0	1		02/02/23 19:18		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	83.4	mg/L	1.0	0.60	1		02/03/23 18:16	16887-00-6	M1
Fluoride	0.087J	mg/L	0.10	0.050	1		02/03/23 18:16	16984-48-8	
Sulfate	895	mg/L	20.0	10.0	20		02/04/23 01:08	14808-79-8	M1

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QUALITY CONTROL DATA

Project: Hammond AP-2

Pace Project No.: 92648451

QC Batch: 752232

Analysis Method: EPA 6010D

QC Batch Method: EPA 3010A

Analysis Description: 6010D ATL

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92648451001, 92648451002

METHOD BLANK: 3908779

Matrix: Water

Associated Lab Samples: 92648451001, 92648451002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	01/27/23 18:47	

LABORATORY CONTROL SAMPLE: 3908780

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3908781 3908782

Parameter	Units	92648552001		3908781		3908782		% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec				
Calcium	mg/L	22400 ug/L	1	1	22.9	23.1	55	72	75-125	1	20 M1

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

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QUALITY CONTROL DATA

Project: Hammond AP-2

Pace Project No.: 92648451

QC Batch:	755531	Analysis Method:	EPA 6010D
QC Batch Method:	EPA 3010A	Analysis Description:	6010D ATL
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92648451003, 92648451004, 92648451005, 92648451006, 92648451007, 92648451008, 92648451009, 92648451010, 92648451011, 92648451012, 92648451013, 92648451014, 92648451015, 92648451016

METHOD BLANK: 3925569 Matrix: Water

Associated Lab Samples: 92648451003, 92648451004, 92648451005, 92648451006, 92648451007, 92648451008, 92648451009, 92648451010, 92648451011, 92648451012, 92648451013, 92648451014, 92648451015, 92648451016

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	02/14/23 18:47	

LABORATORY CONTROL SAMPLE: 3925570

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	0.97J	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3925571 3925572

Parameter	Units	92648451003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	286	1	1	295	304	925	1800	75-125	3	20	M1

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QUALITY CONTROL DATA

Project: Hammond AP-2
Pace Project No.: 92648451

QC Batch: 762460 Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92649378001, 92649378002

METHOD BLANK: 3959969 Matrix: Water
Associated Lab Samples: 92649378001, 92649378002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	03/21/23 16:12	

LABORATORY CONTROL SAMPLE: 3959970

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3959971 3959972

Parameter	Units	92649377008		3959971		3959972		% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec				
Calcium	mg/L	118	1	1	122	124	345	602	75-125	2	20 M1

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QUALITY CONTROL DATA

Project: Hammond AP-2
Pace Project No.: 92648451

QC Batch: 768193	Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A	Analysis Description: 6010D ATL
Associated Lab Samples: 92649378004	Laboratory: Pace Analytical Services - Peachtree Corners, GA

METHOD BLANK: 3988443 Matrix: Water
Associated Lab Samples: 92649378004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	04/14/23 19:30	

LABORATORY CONTROL SAMPLE: 3988444

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3988445 3988446

Parameter	Units	3988445		3988446		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92649378004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Calcium	mg/L	371	1	1	381	376	979	455	75-125	1	20 M1

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QUALITY CONTROL DATA

Project: Hammond AP-2
Pace Project No.: 92648451

QC Batch: 752226 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92648451001, 92648451002

METHOD BLANK: 3908751 Matrix: Water
Associated Lab Samples: 92648451001, 92648451002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	01/31/23 12:54	
Arsenic	mg/L	ND	0.0050	0.0022	01/31/23 12:54	
Barium	mg/L	ND	0.0050	0.00067	01/31/23 12:54	
Beryllium	mg/L	ND	0.00050	0.000054	01/31/23 12:54	
Boron	mg/L	ND	0.040	0.0086	01/31/23 12:54	
Cadmium	mg/L	ND	0.00050	0.00011	01/31/23 12:54	
Chromium	mg/L	ND	0.0050	0.0011	01/31/23 12:54	
Cobalt	mg/L	ND	0.0050	0.00039	01/31/23 12:54	
Lead	mg/L	ND	0.0010	0.00089	01/31/23 12:54	
Lithium	mg/L	ND	0.030	0.00073	01/31/23 12:54	
Molybdenum	mg/L	ND	0.010	0.00074	01/31/23 12:54	
Selenium	mg/L	ND	0.0050	0.0014	01/31/23 12:54	
Thallium	mg/L	ND	0.0010	0.00018	01/31/23 12:54	

LABORATORY CONTROL SAMPLE: 3908752

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	107	80-120	
Arsenic	mg/L	0.1	0.099	99	80-120	
Barium	mg/L	0.1	0.10	101	80-120	
Beryllium	mg/L	0.1	0.10	103	80-120	
Boron	mg/L	1	1.0	103	80-120	
Cadmium	mg/L	0.1	0.10	101	80-120	
Chromium	mg/L	0.1	0.10	104	80-120	
Cobalt	mg/L	0.1	0.10	101	80-120	
Lead	mg/L	0.1	0.10	103	80-120	
Lithium	mg/L	0.1	0.10	101	80-120	
Molybdenum	mg/L	0.1	0.10	100	80-120	
Selenium	mg/L	0.1	0.10	100	80-120	
Thallium	mg/L	0.1	0.10	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3908753 3908754

Parameter	Units	92648451001 Result	MS		MSD		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
			Conc.	Spike Conc.	Conc.	Spike Conc.							
Antimony	mg/L	ND	0.1	0.1	0.12	0.11	115	107	75-125	8	20		
Arsenic	mg/L	ND	0.1	0.1	0.11	0.10	108	101	75-125	6	20		

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QUALITY CONTROL DATA

Project: Hammond AP-2

Pace Project No.: 92648451

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3908753												3908754	
Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92648451001 Result	Spike Conc.	Spike Conc.	Conc.								
Barium	mg/L	0.057	0.1	0.1	0.16	0.16	107	105	75-125	1	20		
Beryllium	mg/L	0.00010J	0.1	0.1	0.10	0.097	102	97	75-125	5	20		
Boron	mg/L	0.023J	1	1	1.0	1.0	101	100	75-125	2	20		
Cadmium	mg/L	ND	0.1	0.1	0.10	0.10	104	102	75-125	2	20		
Chromium	mg/L	ND	0.1	0.1	0.10	0.10	104	102	75-125	2	20		
Cobalt	mg/L	0.00049J	0.1	0.1	0.10	0.10	102	100	75-125	1	20		
Lead	mg/L	ND	0.1	0.1	0.11	0.10	105	100	75-125	5	20		
Lithium	mg/L	ND	0.1	0.1	0.10	0.097	99	97	75-125	2	20		
Molybdenum	mg/L	ND	0.1	0.1	0.11	0.10	106	101	75-125	5	20		
Selenium	mg/L	ND	0.1	0.1	0.11	0.10	104	100	75-125	4	20		
Thallium	mg/L	ND	0.1	0.1	0.10	0.10	104	101	75-125	3	20		

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QUALITY CONTROL DATA

Project: Hammond AP-2
Pace Project No.: 92648451

QC Batch: 753737 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92649378001, 92649378002, 92649378003, 92649378004

METHOD BLANK: 3916048 Matrix: Water
Associated Lab Samples: 92649378001, 92649378002, 92649378003, 92649378004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	02/07/23 17:27	
Arsenic	mg/L	ND	0.0050	0.0022	02/07/23 17:27	
Barium	mg/L	ND	0.0050	0.00067	02/07/23 17:27	
Beryllium	mg/L	ND	0.00050	0.000054	02/07/23 17:27	
Boron	mg/L	ND	0.040	0.0086	02/07/23 17:27	
Cadmium	mg/L	ND	0.00050	0.00011	02/07/23 17:27	
Chromium	mg/L	ND	0.0050	0.0011	02/07/23 17:27	
Cobalt	mg/L	ND	0.0050	0.00039	02/07/23 17:27	
Lead	mg/L	ND	0.0010	0.00089	02/07/23 17:27	
Lithium	mg/L	ND	0.030	0.00073	02/07/23 17:27	
Molybdenum	mg/L	ND	0.010	0.00074	02/07/23 17:27	
Selenium	mg/L	ND	0.0050	0.0014	02/07/23 17:27	
Thallium	mg/L	ND	0.0010	0.00018	02/07/23 17:27	

LABORATORY CONTROL SAMPLE: 3916049

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.12	118	80-120	
Arsenic	mg/L	0.1	0.10	102	80-120	
Barium	mg/L	0.1	0.10	103	80-120	
Beryllium	mg/L	0.1	0.11	106	80-120	
Boron	mg/L	1	1.0	104	80-120	
Cadmium	mg/L	0.1	0.10	100	80-120	
Chromium	mg/L	0.1	0.10	103	80-120	
Cobalt	mg/L	0.1	0.10	102	80-120	
Lead	mg/L	0.1	0.11	107	80-120	
Lithium	mg/L	0.1	0.11	108	80-120	
Molybdenum	mg/L	0.1	0.11	105	80-120	
Selenium	mg/L	0.1	0.10	100	80-120	
Thallium	mg/L	0.1	0.11	107	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3916050 3916051

Parameter	Units	92649664001 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	Spike Conc.	MSD Result						
Antimony	mg/L	ND	0.1	0.11	0.1	0.12	113	116	75-125	3	20	
Arsenic	mg/L	ND	0.1	0.10	0.1	0.10	101	103	75-125	2	20	

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QUALITY CONTROL DATA

Project: Hammond AP-2

Pace Project No.: 92648451

Parameter	Units	3916050		3916051		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		92649664001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Barium	mg/L	24.7J ug/L	0.1	0.1	0.12	0.13	97	102	75-125	4	20		
Beryllium	mg/L	ND	0.1	0.1	0.085	0.092	85	92	75-125	9	20		
Boron	mg/L	29.5J ug/L	1	1	0.88	0.92	85	89	75-125	4	20		
Cadmium	mg/L	ND	0.1	0.1	0.096	0.098	96	98	75-125	2	20		
Chromium	mg/L	1.7J ug/L	0.1	0.1	0.094	0.097	92	95	75-125	4	20		
Cobalt	mg/L	2.7J ug/L	0.1	0.1	0.095	0.097	92	94	75-125	2	20		
Lead	mg/L	ND	0.1	0.1	0.098	0.10	98	101	75-125	3	20		
Lithium	mg/L	11.7J ug/L	0.1	0.1	0.098	0.10	86	93	75-125	7	20		
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.10	99	103	75-125	4	20		
Selenium	mg/L	ND	0.1	0.1	0.099	0.10	98	99	75-125	1	20		
Thallium	mg/L	ND	0.1	0.1	0.099	0.10	99	101	75-125	2	20		

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QUALITY CONTROL DATA

Project: Hammond AP-2
Pace Project No.: 92648451

QC Batch: 755827 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92648451007, 92648451008, 92648451009, 92648451010, 92648451011, 92648451012, 92648451013, 92648451014, 92648451015, 92648451016, 92648451017

METHOD BLANK: 3926998 Matrix: Water
Associated Lab Samples: 92648451007, 92648451008, 92648451009, 92648451010, 92648451011, 92648451012, 92648451013, 92648451014, 92648451015, 92648451016, 92648451017

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	02/16/23 19:33	
Arsenic	mg/L	ND	0.0050	0.0022	02/16/23 19:33	
Barium	mg/L	ND	0.0050	0.00067	02/16/23 19:33	
Beryllium	mg/L	ND	0.00050	0.000054	02/16/23 19:33	
Boron	mg/L	ND	0.040	0.0086	02/16/23 19:33	
Cadmium	mg/L	ND	0.00050	0.00011	02/16/23 19:33	
Chromium	mg/L	ND	0.0050	0.0011	02/17/23 16:37	
Cobalt	mg/L	ND	0.0050	0.00039	02/16/23 19:33	
Iron	mg/L	ND	0.040	0.030	02/16/23 19:33	
Lead	mg/L	ND	0.0010	0.00089	02/16/23 19:33	
Lithium	mg/L	ND	0.030	0.00073	02/16/23 19:33	
Magnesium	mg/L	ND	0.050	0.010	02/16/23 19:33	
Manganese	mg/L	ND	0.010	0.0011	02/16/23 19:33	
Molybdenum	mg/L	ND	0.010	0.00074	02/16/23 19:33	
Potassium	mg/L	ND	0.10	0.047	02/16/23 19:33	
Selenium	mg/L	ND	0.0050	0.0014	02/16/23 19:33	
Sodium	mg/L	ND	0.10	0.023	02/16/23 19:33	
Thallium	mg/L	ND	0.0010	0.00018	02/16/23 19:33	

LABORATORY CONTROL SAMPLE: 3926999

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	111	80-120	
Arsenic	mg/L	0.1	0.10	103	80-120	
Barium	mg/L	0.1	0.10	104	80-120	
Beryllium	mg/L	0.1	0.11	112	80-120	
Boron	mg/L	1	1.1	111	80-120	
Cadmium	mg/L	0.1	0.099	99	80-120	
Chromium	mg/L	0.1	0.099	99	80-120	
Cobalt	mg/L	0.1	0.10	101	80-120	
Iron	mg/L	1	1.0	104	80-120	
Lead	mg/L	0.1	0.10	104	80-120	
Lithium	mg/L	0.1	0.12	117	80-120	
Magnesium	mg/L	1	1.1	109	80-120	
Manganese	mg/L	0.1	0.11	109	80-120	
Molybdenum	mg/L	0.1	0.11	109	80-120	
Potassium	mg/L	1	1.1	107	80-120	

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QUALITY CONTROL DATA

Project: Hammond AP-2

Pace Project No.: 92648451

LABORATORY CONTROL SAMPLE: 3926999

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Selenium	mg/L	0.1	0.10	104	80-120	
Sodium	mg/L	1	1.1	110	80-120	
Thallium	mg/L	0.1	0.11	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3927000 3927001

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		92648451007 Result	Spike Conc.	Spike Conc.	Result							Result
Antimony	mg/L	ND	0.1	0.1	0.11	0.11	108	106	75-125	1	20	
Arsenic	mg/L	0.0040J	0.1	0.1	0.11	0.11	109	109	75-125	0	20	
Barium	mg/L	0.017	0.1	0.1	0.12	0.12	104	102	75-125	2	20	
Beryllium	mg/L	0.00039J	0.1	0.1	0.086	0.084	85	83	75-125	2	20	
Boron	mg/L	7.7	1	1	8.4	8.4	75	74	75-125	0	20	
Cadmium	mg/L	ND	0.1	0.1	0.094	0.093	94	93	75-125	1	20	
Chromium	mg/L	ND	0.1	0.1	0.10	0.10	101	102	75-125	1	20	
Cobalt	mg/L	0.035	0.1	0.1	0.13	0.13	92	90	75-125	1	20	
Iron	mg/L	1.2	1	1	2.2	2.1	94	90	75-125	2	20	
Lead	mg/L	0.0011	0.1	0.1	0.093	0.091	92	90	75-125	3	20	
Lithium	mg/L	ND	0.1	0.1	0.093	0.091	93	91	75-125	2	20	
Magnesium	mg/L	37.3	1	1	37.5	37.9	23	63	75-125	1	20	M1
Manganese	mg/L	3.6	0.1	0.1	3.6	3.6	-51	-46	75-125	0	20	M1
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.10	103	101	75-125	3	20	
Potassium	mg/L	10.9	1	1	11.7	11.9	73	92	75-125	2	20	M1
Selenium	mg/L	0.0036J	0.1	0.1	0.11	0.11	110	108	75-125	2	20	
Sodium	mg/L	8.7	1	1	9.7	9.6	96	88	75-125	1	20	
Thallium	mg/L	0.00047J	0.1	0.1	0.096	0.093	95	93	75-125	3	20	

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QUALITY CONTROL DATA

Project: Hammond AP-2

Pace Project No.: 92648451

QC Batch: 756320 Analysis Method: EPA 6020B
 QC Batch Method: EPA 3005A Analysis Description: 6020 MET
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92648451003, 92648451004, 92648451005, 92648451006

METHOD BLANK: 3929306 Matrix: Water
 Associated Lab Samples: 92648451003, 92648451004, 92648451005, 92648451006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	02/17/23 12:51	
Arsenic	mg/L	ND	0.0050	0.0022	02/17/23 12:51	
Barium	mg/L	ND	0.0050	0.00067	02/17/23 12:51	
Beryllium	mg/L	ND	0.00050	0.000054	02/17/23 12:51	
Boron	mg/L	ND	0.040	0.0086	02/17/23 12:51	
Cadmium	mg/L	ND	0.00050	0.00011	02/17/23 12:51	
Chromium	mg/L	ND	0.0050	0.0011	02/17/23 12:51	
Cobalt	mg/L	ND	0.0050	0.00039	02/17/23 12:51	
Lead	mg/L	ND	0.0010	0.00089	02/17/23 12:51	
Lithium	mg/L	ND	0.030	0.00073	02/17/23 12:51	
Molybdenum	mg/L	ND	0.010	0.00074	02/17/23 12:51	
Selenium	mg/L	ND	0.0050	0.0014	02/17/23 12:51	
Thallium	mg/L	ND	0.0010	0.00018	02/17/23 12:51	

LABORATORY CONTROL SAMPLE: 3929307

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.12	118	80-120	
Arsenic	mg/L	0.1	0.10	104	80-120	
Barium	mg/L	0.1	0.11	105	80-120	
Beryllium	mg/L	0.1	0.10	104	80-120	
Boron	mg/L	1	0.99	99	80-120	
Cadmium	mg/L	0.1	0.10	103	80-120	
Chromium	mg/L	0.1	0.10	103	80-120	
Cobalt	mg/L	0.1	0.10	101	80-120	
Lead	mg/L	0.1	0.11	107	80-120	
Lithium	mg/L	0.1	0.098	98	80-120	
Molybdenum	mg/L	0.1	0.10	105	80-120	
Selenium	mg/L	0.1	0.10	101	80-120	
Thallium	mg/L	0.1	0.11	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3929639 3929640

Parameter	Units	MS Result	MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			MS Spike Conc.	MSD Spike Conc.								
Antimony	mg/L	ND	0.1	0.1	0.11	0.12	110	115	75-125	4	20	
Arsenic	mg/L	ND	0.1	0.1	0.11	0.11	106	109	75-125	2	20	

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QUALITY CONTROL DATA

Project: Hammond AP-2

Pace Project No.: 92648451

Parameter	Units	3929639		3929640		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92648451004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Barium	mg/L	0.014	0.1	0.1	0.12	0.13	110	111	75-125	1	20		
Beryllium	mg/L	0.000081J	0.1	0.1	0.094	0.095	94	95	75-125	1	20		
Boron	mg/L	2.4	1	1	3.4	3.3	98	89	75-125	3	20		
Cadmium	mg/L	0.0017	0.1	0.1	0.11	0.11	103	105	75-125	1	20		
Chromium	mg/L	ND	0.1	0.1	0.10	0.10	102	102	75-125	0	20		
Cobalt	mg/L	0.027	0.1	0.1	0.12	0.13	97	99	75-125	2	20		
Lead	mg/L	ND	0.1	0.1	0.10	0.11	105	105	75-125	0	20		
Lithium	mg/L	0.0011J	0.1	0.1	0.097	0.097	96	96	75-125	0	20		
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.11	104	108	75-125	3	20		
Selenium	mg/L	ND	0.1	0.1	0.11	0.11	105	108	75-125	2	20		
Thallium	mg/L	ND	0.1	0.1	0.11	0.11	106	107	75-125	1	20		

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QUALITY CONTROL DATA

Project: Hammond AP-2

Pace Project No.: 92648451

QC Batch: 752854

Analysis Method: EPA 7470A

QC Batch Method: EPA 7470A

Analysis Description: 7470 Mercury

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92648451001, 92648451002

METHOD BLANK: 3911513

Matrix: Water

Associated Lab Samples: 92648451001, 92648451002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	02/01/23 12:44	

LABORATORY CONTROL SAMPLE: 3911514

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0024	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3911518 3911519

Parameter	Units	3911518		3911519		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Mercury	mg/L	ND	0.0025	0.0022	0.0022	88	88	75-125	0	20	

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QUALITY CONTROL DATA

Project: Hammond AP-2
Pace Project No.: 92648451

QC Batch: 754353 Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92649378001, 92649378002, 92649378003, 92649378004

METHOD BLANK: 3918887 Matrix: Water
Associated Lab Samples: 92649378001, 92649378002, 92649378003, 92649378004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	02/08/23 12:17	

LABORATORY CONTROL SAMPLE: 3918888

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0026	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3918889 3918890

Parameter	Units	92649042001		3918890		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Mercury	mg/L	ND	0.0025	0.0025	0.0024	0.0025	98	101	75-125	3	20

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QUALITY CONTROL DATA

Project: Hammond AP-2

Pace Project No.: 92648451

QC Batch:	754637	Analysis Method:	EPA 7470A
QC Batch Method:	EPA 7470A	Analysis Description:	7470 Mercury
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92648451003, 92648451004, 92648451005, 92648451006, 92648451007, 92648451008, 92648451009, 92648451010, 92648451011, 92648451012, 92648451013, 92648451014, 92648451015, 92648451016

METHOD BLANK: 3920563 Matrix: Water

Associated Lab Samples: 92648451003, 92648451004, 92648451005, 92648451006, 92648451007, 92648451008, 92648451009, 92648451010, 92648451011, 92648451012, 92648451013, 92648451014, 92648451015, 92648451016

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	02/09/23 12:58	

LABORATORY CONTROL SAMPLE: 3920564

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0025	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3920565 3920566

Parameter	Units	92648451003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0023	0.0025	93	100	75-125	7	20	

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QUALITY CONTROL DATA

Project: Hammond AP-2

Pace Project No.: 92648451

QC Batch: 752254

Analysis Method: SM 2540C-2015

QC Batch Method: SM 2540C-2015

Analysis Description: 2540C Total Dissolved Solids

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92648451001, 92648451002

METHOD BLANK: 3908925

Matrix: Water

Associated Lab Samples: 92648451001, 92648451002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	01/27/23 14:00	

LABORATORY CONTROL SAMPLE: 3908926

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	371	93	80-120	

SAMPLE DUPLICATE: 3908927

Parameter	Units	92648636001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	ND	71.0		10	

SAMPLE DUPLICATE: 3908928

Parameter	Units	92649038017 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	146	147	1	10	

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QUALITY CONTROL DATA

Project: Hammond AP-2
Pace Project No.: 92648451

QC Batch: 753439 Analysis Method: SM 2540C-2015
QC Batch Method: SM 2540C-2015 Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92649378001, 92649378002, 92649378003, 92649378004

METHOD BLANK: 3914561 Matrix: Water
Associated Lab Samples: 92649378001, 92649378002, 92649378003, 92649378004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	02/02/23 19:13	

LABORATORY CONTROL SAMPLE: 3914562

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	427	107	80-120	

SAMPLE DUPLICATE: 3914563

Parameter	Units	92649377017 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	188	204	8	10	

SAMPLE DUPLICATE: 3914564

Parameter	Units	92649235025 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	433	458	6	10	

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QUALITY CONTROL DATA

Project: Hammond AP-2
Pace Project No.: 92648451

QC Batch: 753440 Analysis Method: SM 2540C-2015
QC Batch Method: SM 2540C-2015 Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92648451003, 92648451004, 92648451005, 92648451006

METHOD BLANK: 3914565 Matrix: Water
Associated Lab Samples: 92648451003, 92648451004, 92648451005, 92648451006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	02/02/23 20:25	

LABORATORY CONTROL SAMPLE: 3914566

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	391	98	80-120	

SAMPLE DUPLICATE: 3914567

Parameter	Units	92649235027 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1280	1300	1	10	

SAMPLE DUPLICATE: 3914568

Parameter	Units	92649923004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	459	505	10	10	

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QUALITY CONTROL DATA

Project: Hammond AP-2
Pace Project No.: 92648451

QC Batch: 754118 Analysis Method: SM 2540C-2015
QC Batch Method: SM 2540C-2015 Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92648451007, 92648451008, 92648451009, 92648451010, 92648451011, 92648451012, 92648451013, 92648451014, 92648451015, 92648451016

METHOD BLANK: 3917651 Matrix: Water
Associated Lab Samples: 92648451007, 92648451008, 92648451009, 92648451010, 92648451011, 92648451012, 92648451013, 92648451014, 92648451015, 92648451016

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	02/07/23 18:37	

LABORATORY CONTROL SAMPLE: 3917652

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	408	102	80-120	

SAMPLE DUPLICATE: 3917653

Parameter	Units	92648451007 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1950	2030	4	10	1g

SAMPLE DUPLICATE: 3917654

Parameter	Units	92649377019 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	528	540	2	10	

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QUALITY CONTROL DATA

Project: Hammond AP-2
Pace Project No.: 92648451

QC Batch: 754305 Analysis Method: SM 2320B-2011
QC Batch Method: SM 2320B-2011 Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92648451017

METHOD BLANK: 3918541 Matrix: Water
Associated Lab Samples: 92648451017

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	02/07/23 16:56	
Alkalinity, Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	02/07/23 16:56	

LABORATORY CONTROL SAMPLE: 3918542

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	53.3	107	80-120	

LABORATORY CONTROL SAMPLE: 3918543

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.3	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3918544 3918545

Parameter	Units	92650219009		3918545		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Alkalinity, Total as CaCO3	mg/L	69.9	50	50	128	133	116	127	80-120	4	25 M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3918546 3918547

Parameter	Units	92650219010		3918547		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Alkalinity, Total as CaCO3	mg/L	118	50	50	163	166	91	98	80-120	2	25

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QUALITY CONTROL DATA

Project: Hammond AP-2

Pace Project No.: 92648451

QC Batch: 754464

Analysis Method: SM 4500-S2D-2011

QC Batch Method: SM 4500-S2D-2011

Analysis Description: 4500S2D Sulfide Water

Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92648451017

METHOD BLANK: 3919731

Matrix: Water

Associated Lab Samples: 92648451017

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	0.022	02/08/23 03:49	

LABORATORY CONTROL SAMPLE: 3919732

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	0.5	0.50	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3919733 3919734

Parameter	Units	92650515001		3919733		3919734		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MS Spike Conc.	MS Result	MS Spike Conc.	MS Result	MS Spike Conc.					
Sulfide	mg/L	ND	0.5	0.5	0.50	0.51	101	102	80-120	2	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3919735 3919736

Parameter	Units	92650887001		3919735		3919736		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MS Spike Conc.	MS Result	MS Spike Conc.	MS Result	MS Spike Conc.					
Sulfide	mg/L	ND	0.5	0.5	0.48	0.50	95	98	80-120	3	10	

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QUALITY CONTROL DATA

Project: Hammond AP-2

Pace Project No.: 92648451

QC Batch:	751618	Analysis Method:	EPA 300.0 Rev 2.1 1993
QC Batch Method:	EPA 300.0 Rev 2.1 1993	Analysis Description:	300.0 IC Anions
		Laboratory:	Pace Analytical Services - Asheville

Associated Lab Samples: 92648451001, 92648451002

METHOD BLANK: 3905644 Matrix: Water

Associated Lab Samples: 92648451001, 92648451002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	01/25/23 18:08	
Fluoride	mg/L	ND	0.10	0.050	01/25/23 18:08	
Sulfate	mg/L	ND	1.0	0.50	01/25/23 18:08	

LABORATORY CONTROL SAMPLE: 3905645

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	53.2	106	90-110	
Fluoride	mg/L	2.5	2.7	110	90-110	
Sulfate	mg/L	50	53.3	107	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3905646 3905647

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92648208001	Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	8.7	50	50	57.0	59.0	97	100	90-110	3	10		
Fluoride	mg/L	0.47	2.5	2.5	2.9	3.0	98	102	90-110	3	10		
Sulfate	mg/L	3.9	50	50	52.2	54.1	97	100	90-110	4	10		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3905648 3905649

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92648324002	Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	16.9	50	50	66.5	67.2	99	101	90-110	1	10		
Fluoride	mg/L	0.066J	2.5	2.5	2.6	2.6	101	101	90-110	0	10		
Sulfate	mg/L	19.0	50	50	69.4	69.8	101	102	90-110	1	10		

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QUALITY CONTROL DATA

Project: Hammond AP-2

Pace Project No.: 92648451

QC Batch: 753396 Analysis Method: EPA 300.0 Rev 2.1 1993
 QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
 Laboratory: Pace Analytical Services - Asheville
 Associated Lab Samples: 92649378001, 92649378002, 92649378003, 92649378004

METHOD BLANK: 3914289 Matrix: Water
 Associated Lab Samples: 92649378001, 92649378002, 92649378003, 92649378004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/03/23 10:31	
Fluoride	mg/L	ND	0.10	0.050	02/03/23 10:31	
Sulfate	mg/L	ND	1.0	0.50	02/03/23 10:31	

LABORATORY CONTROL SAMPLE: 3914290

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	52.2	104	90-110	
Fluoride	mg/L	2.5	2.7	106	90-110	
Sulfate	mg/L	50	52.3	105	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3914291 3914292

Parameter	Units	92649872013		MS		MSD		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Conc.	Result	Result						
Chloride	mg/L	4.1	50	50	54.2	54.6	100	101	90-110	1	10		
Fluoride	mg/L	ND	2.5	2.5	2.6	2.6	100	101	90-110	1	10		
Sulfate	mg/L	2.8	50	50	52.9	53.3	100	101	90-110	1	10		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3914293 3914294

Parameter	Units	92649378004		MS		MSD		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Conc.	Result	Result						
Chloride	mg/L	83.4	50	50	124	123	80	80	90-110	0	10	M1	
Fluoride	mg/L	0.087J	2.5	2.5	2.6	2.6	101	101	90-110	0	10		
Sulfate	mg/L	895	50	50	936	932	82	75	90-110	0	10	M1	

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QUALITY CONTROL DATA

Project: Hammond AP-2

Pace Project No.: 92648451

QC Batch: 753665 Analysis Method: EPA 300.0 Rev 2.1 1993
 QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
 Laboratory: Pace Analytical Services - Asheville
 Associated Lab Samples: 92648451003, 92648451004, 92648451005, 92648451006

METHOD BLANK: 3915765 Matrix: Water
 Associated Lab Samples: 92648451003, 92648451004, 92648451005, 92648451006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/03/23 16:59	
Fluoride	mg/L	ND	0.10	0.050	02/03/23 16:59	
Sulfate	mg/L	ND	1.0	0.50	02/03/23 16:59	

LABORATORY CONTROL SAMPLE: 3915766

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.2	98	90-110	
Fluoride	mg/L	2.5	2.5	100	90-110	
Sulfate	mg/L	50	49.4	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3915767 3915768

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92649923008 Result	Spike Conc.	Spike Conc.	Conc.								
Chloride	mg/L	1.7	50	50	52.1	53.0	101	103	90-110	2	10		
Fluoride	mg/L	0.098J	2.5	2.5	2.7	2.7	103	105	90-110	2	10		
Sulfate	mg/L	95.7	50	50	142	144	92	97	90-110	2	10		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3915769 3915770

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92649923018 Result	Spike Conc.	Spike Conc.	Conc.								
Chloride	mg/L	ND	50	50	50.3	51.2	101	102	90-110	2	10		
Fluoride	mg/L	ND	2.5	2.5	2.6	2.6	104	103	90-110	1	10		
Sulfate	mg/L	ND	50	50	50.5	51.3	101	103	90-110	2	10		

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QUALITY CONTROL DATA

Project: Hammond AP-2
Pace Project No.: 92648451

QC Batch: 754257 Analysis Method: EPA 300.0 Rev 2.1 1993
QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92648451007, 92648451008, 92648451009, 92648451010, 92648451011, 92648451012, 92648451013, 92648451014, 92648451015, 92648451016

METHOD BLANK: 3918313 Matrix: Water
Associated Lab Samples: 92648451007, 92648451008, 92648451009, 92648451010, 92648451011, 92648451012, 92648451013, 92648451014, 92648451015, 92648451016

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/07/23 15:10	
Fluoride	mg/L	ND	0.10	0.050	02/07/23 15:10	
Sulfate	mg/L	ND	1.0	0.50	02/07/23 15:10	

LABORATORY CONTROL SAMPLE: 3918314

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.7	101	90-110	
Fluoride	mg/L	2.5	2.5	102	90-110	
Sulfate	mg/L	50	50.4	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3918315 3918316

Parameter	Units	92650071001		3918316		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Chloride	mg/L	ND	50	50	49.4	50.9	99	102	90-110	3	10
Fluoride	mg/L	ND	2.5	2.5	2.4	2.5	94	96	90-110	3	10
Sulfate	mg/L	ND	50	50	48.4	50.1	97	100	90-110	3	10

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3918317 3918318

Parameter	Units	92648451012		3918318		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Chloride	mg/L	189	50	50	233	235	88	91	90-110	1	10 M1
Fluoride	mg/L	0.10	2.5	2.5	2.7	2.9	106	112	90-110	5	10 M1
Sulfate	mg/L	1190	50	50	1220	1230	62	80	90-110	1	10 M1

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

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Hammond AP-2

Pace Project No.: 92648451

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

1g Sample residue exceeded method SM 2540C recommended 200 mg.

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

E Analyte concentration exceeded the calibration range. The reported result is estimated.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Hammond AP-2

Pace Project No.: 92648451

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92648451001	HAM-HGWA-4				
92648451002	HAM-HGWA-42D				
92649378001	HAM-HGWA-5				
92649378002	HAM-HGWA-6				
92649378003	HAM-MW-21D				
92649378004	HAM-MW-33				
92648451003	HAM-HGWC-17				
92648451004	HAM-MW-22				
92648451005	HAM-MW-34D				
92648451006	HAM-MW-37D				
92648451007	HAM-HGWC-14				
92648451008	HAM-HGWC-15				
92648451009	HAM-HGWC-16				
92648451010	HAM-HGWC-18				
92648451011	HAM-MW-23D				
92648451012	HAM-MW-35				
92648451013	HAM-MW-51				
92648451017	HAM-MW-52				
92648451001	HAM-HGWA-4	EPA 3010A	752232	EPA 6010D	752301
92648451002	HAM-HGWA-42D	EPA 3010A	752232	EPA 6010D	752301
92649378001	HAM-HGWA-5	EPA 3010A	762460	EPA 6010D	762514
92649378002	HAM-HGWA-6	EPA 3010A	762460	EPA 6010D	762514
92649378004	HAM-MW-33	EPA 3010A	768193	EPA 6010D	768247
92648451003	HAM-HGWC-17	EPA 3010A	755531	EPA 6010D	755685
92648451004	HAM-MW-22	EPA 3010A	755531	EPA 6010D	755685
92648451005	HAM-MW-34D	EPA 3010A	755531	EPA 6010D	755685
92648451006	HAM-MW-37D	EPA 3010A	755531	EPA 6010D	755685
92648451007	HAM-HGWC-14	EPA 3010A	755531	EPA 6010D	755685
92648451008	HAM-HGWC-15	EPA 3010A	755531	EPA 6010D	755685
92648451009	HAM-HGWC-16	EPA 3010A	755531	EPA 6010D	755685
92648451010	HAM-HGWC-18	EPA 3010A	755531	EPA 6010D	755685
92648451011	HAM-MW-23D	EPA 3010A	755531	EPA 6010D	755685
92648451012	HAM-MW-35	EPA 3010A	755531	EPA 6010D	755685
92648451013	HAM-MW-51	EPA 3010A	755531	EPA 6010D	755685
92648451014	HAM-AP2-EB-02	EPA 3010A	755531	EPA 6010D	755685
92648451015	HAM-AP2-FB-02	EPA 3010A	755531	EPA 6010D	755685
92648451016	HAM-AP2-FD-02	EPA 3010A	755531	EPA 6010D	755685
92648451001	HAM-HGWA-4	EPA 3005A	752226	EPA 6020B	752331
92648451002	HAM-HGWA-42D	EPA 3005A	752226	EPA 6020B	752331
92649378001	HAM-HGWA-5	EPA 3005A	753737	EPA 6020B	753845
92649378002	HAM-HGWA-6	EPA 3005A	753737	EPA 6020B	753845
92649378003	HAM-MW-21D	EPA 3005A	753737	EPA 6020B	753845
92649378004	HAM-MW-33	EPA 3005A	753737	EPA 6020B	753845
92648451003	HAM-HGWC-17	EPA 3005A	756320	EPA 6020B	756469
92648451004	HAM-MW-22	EPA 3005A	756320	EPA 6020B	756469

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Hammond AP-2

Pace Project No.: 92648451

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92648451005	HAM-MW-34D	EPA 3005A	756320	EPA 6020B	756469
92648451006	HAM-MW-37D	EPA 3005A	756320	EPA 6020B	756469
92648451007	HAM-HGWC-14	EPA 3005A	755827	EPA 6020B	755853
92648451008	HAM-HGWC-15	EPA 3005A	755827	EPA 6020B	755853
92648451009	HAM-HGWC-16	EPA 3005A	755827	EPA 6020B	755853
92648451010	HAM-HGWC-18	EPA 3005A	755827	EPA 6020B	755853
92648451011	HAM-MW-23D	EPA 3005A	755827	EPA 6020B	755853
92648451012	HAM-MW-35	EPA 3005A	755827	EPA 6020B	755853
92648451013	HAM-MW-51	EPA 3005A	755827	EPA 6020B	755853
92648451014	HAM-AP2-EB-02	EPA 3005A	755827	EPA 6020B	755853
92648451015	HAM-AP2-FB-02	EPA 3005A	755827	EPA 6020B	755853
92648451016	HAM-AP2-FD-02	EPA 3005A	755827	EPA 6020B	755853
92648451017	HAM-MW-52	EPA 3005A	755827	EPA 6020B	755853
92648451001	HAM-HGWA-4	EPA 7470A	752854	EPA 7470A	753068
92648451002	HAM-HGWA-42D	EPA 7470A	752854	EPA 7470A	753068
92649378001	HAM-HGWA-5	EPA 7470A	754353	EPA 7470A	754496
92649378002	HAM-HGWA-6	EPA 7470A	754353	EPA 7470A	754496
92649378003	HAM-MW-21D	EPA 7470A	754353	EPA 7470A	754496
92649378004	HAM-MW-33	EPA 7470A	754353	EPA 7470A	754496
92648451003	HAM-HGWC-17	EPA 7470A	754637	EPA 7470A	754886
92648451004	HAM-MW-22	EPA 7470A	754637	EPA 7470A	754886
92648451005	HAM-MW-34D	EPA 7470A	754637	EPA 7470A	754886
92648451006	HAM-MW-37D	EPA 7470A	754637	EPA 7470A	754886
92648451007	HAM-HGWC-14	EPA 7470A	754637	EPA 7470A	754886
92648451008	HAM-HGWC-15	EPA 7470A	754637	EPA 7470A	754886
92648451009	HAM-HGWC-16	EPA 7470A	754637	EPA 7470A	754886
92648451010	HAM-HGWC-18	EPA 7470A	754637	EPA 7470A	754886
92648451011	HAM-MW-23D	EPA 7470A	754637	EPA 7470A	754886
92648451012	HAM-MW-35	EPA 7470A	754637	EPA 7470A	754886
92648451013	HAM-MW-51	EPA 7470A	754637	EPA 7470A	754886
92648451014	HAM-AP2-EB-02	EPA 7470A	754637	EPA 7470A	754886
92648451015	HAM-AP2-FB-02	EPA 7470A	754637	EPA 7470A	754886
92648451016	HAM-AP2-FD-02	EPA 7470A	754637	EPA 7470A	754886
92648451001	HAM-HGWA-4	SM 2540C-2015	752254		
92648451002	HAM-HGWA-42D	SM 2540C-2015	752254		
92649378001	HAM-HGWA-5	SM 2540C-2015	753439		
92649378002	HAM-HGWA-6	SM 2540C-2015	753439		
92649378003	HAM-MW-21D	SM 2540C-2015	753439		
92649378004	HAM-MW-33	SM 2540C-2015	753439		
92648451003	HAM-HGWC-17	SM 2540C-2015	753440		
92648451004	HAM-MW-22	SM 2540C-2015	753440		
92648451005	HAM-MW-34D	SM 2540C-2015	753440		
92648451006	HAM-MW-37D	SM 2540C-2015	753440		
92648451007	HAM-HGWC-14	SM 2540C-2015	754118		
92648451008	HAM-HGWC-15	SM 2540C-2015	754118		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Hammond AP-2
Pace Project No.: 92648451

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92648451009	HAM-HGWC-16	SM 2540C-2015	754118		
92648451010	HAM-HGWC-18	SM 2540C-2015	754118		
92648451011	HAM-MW-23D	SM 2540C-2015	754118		
92648451012	HAM-MW-35	SM 2540C-2015	754118		
92648451013	HAM-MW-51	SM 2540C-2015	754118		
92648451014	HAM-AP2-EB-02	SM 2540C-2015	754118		
92648451015	HAM-AP2-FB-02	SM 2540C-2015	754118		
92648451016	HAM-AP2-FD-02	SM 2540C-2015	754118		
92648451017	HAM-MW-52	SM 2320B-2011	754305		
92648451017	HAM-MW-52	SM 4500-S2D-2011	754464		
92648451001	HAM-HGWA-4	EPA 300.0 Rev 2.1 1993	751618		
92648451002	HAM-HGWA-42D	EPA 300.0 Rev 2.1 1993	751618		
92649378001	HAM-HGWA-5	EPA 300.0 Rev 2.1 1993	753396		
92649378002	HAM-HGWA-6	EPA 300.0 Rev 2.1 1993	753396		
92649378003	HAM-MW-21D	EPA 300.0 Rev 2.1 1993	753396		
92649378004	HAM-MW-33	EPA 300.0 Rev 2.1 1993	753396		
92648451003	HAM-HGWC-17	EPA 300.0 Rev 2.1 1993	753665		
92648451004	HAM-MW-22	EPA 300.0 Rev 2.1 1993	753665		
92648451005	HAM-MW-34D	EPA 300.0 Rev 2.1 1993	753665		
92648451006	HAM-MW-37D	EPA 300.0 Rev 2.1 1993	753665		
92648451007	HAM-HGWC-14	EPA 300.0 Rev 2.1 1993	754257		
92648451008	HAM-HGWC-15	EPA 300.0 Rev 2.1 1993	754257		
92648451009	HAM-HGWC-16	EPA 300.0 Rev 2.1 1993	754257		
92648451010	HAM-HGWC-18	EPA 300.0 Rev 2.1 1993	754257		
92648451011	HAM-MW-23D	EPA 300.0 Rev 2.1 1993	754257		
92648451012	HAM-MW-35	EPA 300.0 Rev 2.1 1993	754257		
92648451013	HAM-MW-51	EPA 300.0 Rev 2.1 1993	754257		
92648451014	HAM-AP2-EB-02	EPA 300.0 Rev 2.1 1993	754257		
92648451015	HAM-AP2-FB-02	EPA 300.0 Rev 2.1 1993	754257		
92648451016	HAM-AP2-FD-02	EPA 300.0 Rev 2.1 1993	754257		

REPORT OF LABORATORY ANALYSIS

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DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mer

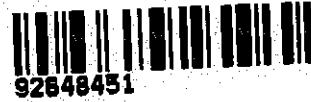
Sample Condition Upon Receipt

Client Name:

G A Power

Project #

WO#: 92648451



Courier: Commercial Fed Ex Pace UPS USPS Other: Client

Custody Seal Present? Yes No Seals intact? Yes No

Date/Initials Person Examining Contents: 1/24/23

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen?

Yes No N/A

Thermometer:

IR Gun ID:

230

Type of Ice:

Wet Blue None

Cooler Temp:

4.4

Correction Factor:

Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C

Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C):

4.4

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? Yes No

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

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted:

Date/Time:

Project Manager SCURF Review:

Date:

Project Manager SRF Review:

Date:



DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Project #

WO#: 92648451

PM: BV

Due Date: 02/07/23

CLIENT: GA-GA Power

Item#	BP40U-125 mL Plastic Unpreserved (N/A) (C-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (C-)	BP3W-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (C-)	WGFLU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (C-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (C-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(C-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KG7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 Vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG6U-100 mL Amber Unpreserved (N/A) (C-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)			
1																														
2																														
3																														
4																														
5																														
6																														
7																														
8																														
9																														
10																														
11																														
12																														

pH Adjustment Log for Preserved Samples

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

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



DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville

Sample Condition Upon Receipt

Client Name:

GA Power

WO#: 92648451

Due Date: 02/07/23

PM: BV

CLIENT: GA-GA Power

Courier: Commercial Fed Ex Pace UPS USPS Other: Cli

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: 2/11/23 CPH

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen? Yes No N/A

Thermometer:

HI Gun ID:

230

Type of Ice:

Wet Blue None

Cooler Temp:

2.8

Correction Factor: Add/Subtract (°C)

0.0

Temp should be above freezing to 6°C

Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C):

2.8

USDA Regulated Soil? N/A, water sample

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? Yes No

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

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted:

Date/Time:

Project Manager SCURF Review:

Date:

Project Manager SRF Review:

Date:



DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

WO#: 92648451

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Pr

PM: BV

Due Date: 02/07/23

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

CLIENT: GA-GA Power

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

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

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

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



CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information:		Section B Regulated Project Information:		Section C Invoice Information:	
Company: GA Power		Report To: SCS Contacts		Attention: Southern Co.	
Address: Atlanta, GA		Copy To: Geosyntec Contacts		Company Name:	
Email To: SCS Contacts		Purchase Order No.:		Address:	
Phone: / Fax:		Project Name: Hammond AP-2		Pace Quote Reference:	
Requested Due Date (AT): 10 Day		Project Number:		Pace Project Manager: Bonnie Vang	
				Pace Profile #: 10839	
				REGULATORY AGENCY	
				<input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input type="checkbox"/> UST <input type="checkbox"/> RCRA <input checked="" type="checkbox"/> OTHER CCR	
				Site Location: <u>GA</u>	
				STATE: <u>GA</u>	

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	MATRIX CODE (see unit codes to left)	SAMPLE TYPE (S-B, B, AB, C-COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	Preservatives						Analysis Test	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.													
					DATE	TIME	DATE	TIME		# OF CONTAINERS	Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH					Na ₂ S ₂ O ₅	Methanol	Other	Y/N	N	N	N	N					
																												DATE	TIME	DATE	TIME	DATE
1	HAM-HGWC-17	WG	G	1/30/2023	1850				19	3	3	3				X	X	X	X	N	pH = 6.44 <i>003</i>											
2	HAM-MW-22	WG	G	1/30/2023	1815				17	3	3	3				X	X	X	X	N	pH = 5.47 <i>003</i>											
3	HAM-MW-34D	WG	G	1/30/2023	1305				18	2	2	2				X	X	X	X	N	pH = 6.99 <i>003</i>											
4	HAM-MW-37D	WG	G	1/30/2023	1811				17	2	2	2				X	X	X	X	N	pH = 7.55 <i>006</i>											
5					TJ 1/30/2023																											
6					TJ 1/30/2023																											
7																																
8																																
9					TJ 1/30/2023																											
10																																
11																																
12																																
ADDITIONAL COMMENTS					RELINQUISHED BY / AFFILIATION				DATE				TIME				ACCEPTED BY / AFFILIATION				DATE				TIME				SAMPLE CONDITIONS			
Task Code: HAM-CCR-ASSM1-202351					<i>Erin...</i>				2/1/23				1435				<i>Ryan Williams / Pace</i>				2/1/23				1245							
					<i>Ryan Williams / Pace</i>				2/1/23				1435				<i>Bonnie Vang / Pace</i>				2/1/23				1435							

92648451

WO#: 92648451

PM: BV Due Date: 02/07/23
CLIENT: GA-GA Power

SAMPLER NAME AND SIGNATURE		Temp in °C	Incubated at (Y/N)	Custody Transfer Complete (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	<i>Bonnie Vang, Geosyntec Consultants, Inc.</i>				
SIGNATURE OF SAMPLER:	<i>[Signature]</i>				
DATE SIGNED (MM/DD/YYYY):	2/1/23				

Price and shipping to site charges of 1.5% per month for any samples not picked up within 30 days.



DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt
 Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition
Upon Receipt

Client Name: GA Power
 Project #: _____

WO#: **92648451**
 PM: BV Due Date: 02/07/23
 CLIENT: GA-GA Power

Courier: Commercial Fed Ex UPS USPS Client Other: _____

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: 2/3/23
GM

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen? Yes No N/A

Thermometer: TR Gun ID: 214 Type of Ice: Wet Blue None

Cooler Temp: 23 Correction Factor: Add/Subtract (°C) +0.1

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

Cooler Temp Corrected (°C): 2.4

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

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

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

COMMENTS/SAMPLE DISCREPANCY: Sample HAM-AP-2-FD-02 present but not listed on COC

Field Data Required? Yes No

Lot ID of split containers: _____

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____



CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company: GA Power		Report To: SCS Contacts		Attention: Southern Co.	
Address: Atlanta, GA		Copy To: Geosyntec Contacts		Company Name:	
Email To: SCS Contacts		Purchase Order No.:		Address:	
Phone: Fax:		Project Name: Hammond AP-2		Pace Quote Reference:	
Requested Due Date/TAT: 16 Day		Project Number:		Pace Project Manager: Bonnie Vang	
				Pace Profile #: 10839	
				REGULATORY AGENCY:	
				<input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input type="checkbox"/> UST <input type="checkbox"/> RCRA <input checked="" type="checkbox"/> OTHER CCR	
				Site Location: _____	
				STATE: GA	

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	MATRIX TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives						ANALYSIS TEST	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.		
				DATE	TIME	DATE	TIME			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₅					Methanol	Other
1	HAM-HGWC-14	WG	G	2/1/2023	1455			19	5	2	3					X	X	X	X	N	pH = 4.93 <i>659</i>
2	HAM-HGWC-15	WG	G	2/1/2023	1444			19	5	2	3					X	X	X	X	N	pH = 8.22 <i>659</i>
3	HAM-HGWC-16	WG	G	2/1/2023	1230			18	5	2	3					X	X	X	X	N	pH = 7.15 <i>659</i>
4	HAM-HGWC-18	WG	G	2/1/2023	1055			18	5	2	3					X	X	X	X	N	pH = 4.88 <i>610</i>
5	HAM-MW-23D	WG	G	2/1/2023	1320			18	5	2	3					X	X	X	X	N	pH = 6.89 <i>611</i>
6	HAM-MW-35	WG	G	2/1/2023	1002			15	5	2	3					X	X	X	X	N	pH = 4.89 <i>612</i>
7	HAM-MW-51	WG	G	2/1/2023	1132			14	5	2	3					X	X	X	X	N	pH = 8.37 <i>613</i>
8	HAM-AP-2-EB-02	WD	G	2/1/2023	1420			17	5	2	3					X	X	X	X	N	N/A <i>614</i>
9	HAM-AP-2-FB-02	WD	G	2/1/2023	1415		TJ 2/1/2023	17	5	2	3					X	X	X	X	N	N/A <i>615</i>
10																					Last sample
11																					<i>oke</i>
12							TJ 2/1/2023														<i>HAM-AP-2-FD-02</i>

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Task Code: HAM-CCR-ASSMT-202301	<i>Thomas/Bother</i> / Geosyntec	<i>2/1/2023</i>	<i>1230</i>	<i>Christine Hey</i>	<i>2/3/23</i>	<i>1230</i>	
	<i>Christine Hey</i> / Geosyntec	<i>2/3/2023</i>	<i>1250</i>	<i>Ryan Williams</i> / Pace	<i>2/3/23</i>	<i>1250</i>	
	<i>Ryan Williams</i> / Pace	<i>2/3/23</i>	<i>1400</i>	<i>Debra Plante</i>	<i>2/3/23</i>	<i>1400</i>	

SAMPLER NAME AND SIGNATURE			
PRINT Name of SAMPLER: <i>Thomas/Bother Anthony/Severin Carrie/Geosyntec Consultants, Inc</i>			
SIGNATURE of SAMPLER: <i>[Signature]</i>		DATE signed (MM/DD/YY): <i>02/01/2023</i>	
Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples intact (Y/N)

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



DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name:

Project #:

WO#: 92648451

Courier: Commercial Fed Ex UPS USPS Client Pace Other: _____

PM: BV Due Date: 02/07/23
CLIENT: GA-GA Power

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: 2/3/23
LGH

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen? Yes No N/A

Thermometer:

IR Gun ID: 214 Type of Ice: Wet Blue None

Cooler Temp: 23 Correction Factor: Add/Subtract (°C) +0.1

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

Cooler Temp Corrected (°C): 2.4

USDA Regulated Soil (N/A, water sample)

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

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? Yes No

Comments/Discrepancy:

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____

Date: _____

Project Manager SRF Review: _____

Date: _____



DC#_ Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Project **WO# : 92648451**

PM: BV

Due Date: 02/07/23

CLIENT: GA-GA Power

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

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

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



DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

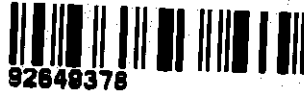
Sample Condition Upon Receipt

Client Name:

GA power

Project #:

WO#: 92649378



Courier: Fed Ex UPS USPS Client Commercial Pace Other:

Custody Seal Present? Yes No Seals Intact? Yes No

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer: IR Gun ID: 230 Type of Ice: Wet Blue None

Cooler Temp: 4.1 Correction Factor: Add/Subtract (°C) ±0

Cooler Temp Corrected (°C): 4.1

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? Yes No

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

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____



DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

WO#: 92649378

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Project #

PM: BV

Due Date: 02/13/23

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

CLIENT: GA-GA Power

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic Zn Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1M-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)	
1	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
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11	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
12	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

pH Adjustment Log for Preserved Samples

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

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



CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		REGULATORY AGENCY	
Company: GA Power		Report To: SCS Contacts		Attention: Southern Co.		<input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input type="checkbox"/> UST <input type="checkbox"/> RCRA <input checked="" type="checkbox"/> OTHER CCR—	
Address: Atlanta, GA		Copy To: Geosyntec Contacts		Company Name:		Site Location: GA	
Email To: SCS Contacts		Purchase Order No.:		Address:		STATE: GA	
Phone: Fax:		Project Name: Hammond AP-2		Pace Quote Reference:			
Requested Due Date/TAT: 10 Day		Project Number:		Pace Project Manager: Bonnie Yang			
				Pace Profile #: 10839			

ITEM #	SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	Matrix Codes MATRIX CODE	COLLECTED				SAMPLE TEMP AT COLLECTION	Requested Analysis Filtered (Y/N)										Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.									
			COMPOSITE		COMPOSITE			# OF CONTAINERS	Preservatives																			
			DATE	TIME	DATE	TIME			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₈	Methanol	Other	Aspirin/Ascorbic Acid			Chloride	Fluoride	Sulfate	Full App. III and IV metals	RAO 228228	TDS			
1	HAM-HGWA-5	WG G	1/27/2023	1059			18	5	2	3															N	pH = 6.52		
2	HAM-HGWA-6	WG G	1/27/2023	1010			15	5	2	3																N	pH = 7.66	
3	HAM-MW-21D	WG G	1/27/2023	1708			17	5	2	3																N	pH = 7.31	
4	HAM-MW-33	WG G	1/27/2023	1434			16	5	2	3																N	pH = 6.81	
5			TJ 1/27/2023																									
6																												
7																												
8																												
9			TJ 1/27/2023																									
10																												
11																												
12																												

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Task Code: HAM-COR-ASSMT-2023S1	Anthony Sargent / Geosyntec	1/30/2023	11:50	Ryan Williams / Pace	1/10/2023	11:50	
	Ryan Williams / Pace	1/10/2023	1438	TJ / Pace	1/30/2023	1438	

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: Anthony Sargent, Geosyntec Consultants, Inc	DATE Signed (MM/DD/YYYY): 01/27/2023				
SIGNATURE of SAMPLER: <i>Anthony Sargent</i>					

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



DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name: GA Power

Project #:

Courier: Fed Ex UPS USPS Client Commercial Pace Other: _____

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: 2/11/23
CJH

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen? Yes No N/A

Thermometer: IR Gun ID: 230 Type of Ice: Wet Blue None

Cooler Temp: 2.8 Correction Factor: Add/Subtract (°C) 0.0

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

Cooler Temp Corrected (°C): 2.8

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? Yes No

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

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____



DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Project #

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, U.Hg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG6U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)	
1	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
2	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
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12	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	

pH Adjustment Log for Preserved Samples

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

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



CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

Section A Required Client Information: Company: GA Power Address: Atlanta, GA Email To: SCS Contacts Phone: Fax: Requested Due Date/TAT: 15 Day	Section B Required Project Information: Report To: SCS Contacts Copy To: Geosyntec Contacts Purchase Order No.: Project Name: Harmond AP-2 Project Number: 	Section C Invoice Information: Attention: Southern Co. Company Name: Address: Face Quote Reference: Face Project Manager: Bonnie Vang Face Profile #: 10839	REGULATORY AGENCY <input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input type="checkbox"/> UST <input type="checkbox"/> RCRA <input checked="" type="checkbox"/> OTHER <u>CEB</u> Site Location: <u>GA</u> STATE: <u>GA</u>
--	--	---	---

ITEM #	Section D Required Client Information SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX DRINKING WATER DW WATER WWS WASTE WATER WW PRODUCT P SOLID/LIQUID SL OIL OL WASTE WPT AIR AR OTHER OT TERRA TR	EDGE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G-GRAB C-COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives						ANALYSIS TEST	Residual Chlorine (Y/N)	Face Project No./ Lab I.D.							
						COMPOSITE		COMPOSITE				Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₅				Methanol	Other	Chlorine, Fluoride, Sulfate	Full App. II and IV metals	RAO 208228	TDS	
1	HAM-HGWC-17	WG	G	1/30/2023	1550				18	5	2	3					X	X	X	X	X	X		pH = 6.44			
2	HAM-MW-22	WG	G	1/30/2023	1815				17	5	2	3					X	X	X	X	X	X		pH = 5.47			
3	HAM-MW-34D	WG	G	1/30/2023	1305				18	5	2	3					X	X	X	X	X	X		pH = 6.99			
4	HAM-MW-37D	WG	G	1/30/2023	1611				17	6	2	3					X	X	X	X	X	X		pH = 7.56			
5	TJ 1/30/2023																										
6	TJ 1/30/2023																										
7	TJ 1/30/2023																										
8	TJ 1/30/2023																										
9	TJ 1/30/2023																										
10	TJ 1/30/2023																										
11	TJ 1/30/2023																										
12	TJ 1/30/2023																										

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Task Code: HAM-CCR-ASSMT-202351	Lyman Williams / PACE	2/1/2023	1245	Lyman Williams / PACE	2/1/2023	1245	
	Charles Park	2/1/2023	1435	Charles Park	2/1/23	1435	

SAMPLER NAME AND SIGNATURE PRINT Name of SAMPLER: <u>Lyman Williams, Anthony Givens</u> / Geosyntec Consultants, Inc SIGNATURE of SAMPLER: <u>[Signature]</u>	DATE Signed (MM/DD/YYYY): <u>01/30/2023</u>
--	--

March 28, 2023

Joju Abraham
Georgia Power-CCR
2480 Maner Road
Atlanta, GA 30339

RE: Project: Hammond AP-2 - RADS
Pace Project No.: 92648450

Dear Joju Abraham:

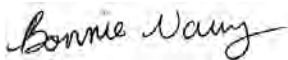
Enclosed are the analytical results for sample(s) received by the laboratory between January 24, 2023 and February 03, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Greensburg

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

Sincerely,



Bonnie Vang
bonnie.vang@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Noelia Gangi, Georgia Power
Ben Hodges, Georgia Power-CCR
Christine Hug, Geosyntec Consultants, Inc.
Kristen Jurinko
Thomas Kessler, Geosyntec
Whitney Law, Geosyntec Consultants
Laura Midkiff, Georgia Power
Michael Smilley, Georgia Power
Tina Sullivan, ERM
Anthony Szwast, Geosyntec



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Hammond AP-2 - RADS
Pace Project No.: 92648450

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
Delaware Certification
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Florida: Cert E871149 SEKS WET
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA180012
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: 2017020
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991

Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572018-1
New Hampshire/TNI Certification #: 297617
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-010
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: 02867
Texas/TNI Certification #: T104704188-17-3
Utah/TNI Certification #: PA014572017-9
USDA Soil Permit #: P330-17-00091
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Hammond AP-2 - RADS
Pace Project No.: 92648450

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92648450001	HAM-HGWA-4	Water	01/23/23 17:04	01/24/23 12:38
92648450002	HAM-HGWA-42D	Water	01/23/23 18:06	01/24/23 12:38
92648450003	HAM-HGWA-5	Water	01/27/23 10:59	01/30/23 11:50
92648450004	HAM-HGWA-6	Water	01/27/23 10:10	01/30/23 11:50
92648450005	HAM-MW-21D	Water	01/27/23 17:06	01/30/23 11:50
92648450006	HAM-MW-33	Water	01/27/23 14:34	01/30/23 11:50
92648450007	HAM-HGWC-17	Water	01/30/23 15:50	02/01/23 12:45
92648450008	HAM-MW-22	Water	01/30/23 15:15	02/01/23 12:45
92648450009	HAM-MW-34D	Water	01/30/23 13:06	02/01/23 12:45
92648450010	HAM-MW-37D	Water	01/30/23 15:11	02/01/23 12:45
92648450011	HAM-HGWC-14	Water	02/01/23 14:55	02/03/23 12:50
92648450012	HAM-HGWC-15	Water	02/01/23 14:44	02/03/23 12:50
92648450013	HAM-HGWC-16	Water	02/01/23 12:30	02/03/23 12:50
92648450014	HAM-HGWC-18	Water	02/01/23 10:55	02/03/23 12:50
92648450015	HAM-MW-23D	Water	02/01/23 13:20	02/03/23 12:50
92648450016	HAM-MW-35	Water	02/01/23 10:02	02/03/23 12:50
92648450017	HAM-MW-51	Water	02/01/23 11:32	02/03/23 12:50
92648450018	HAM-AP-2-EB-02	Water	02/01/23 14:20	02/03/23 12:50
92648450019	HAM-AP-2-FB-02	Water	02/01/23 14:15	02/03/23 12:50
92648450020	HAM-AP-2-FD-02	Water	02/01/23 00:00	02/03/23 12:50

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Hammond AP-2 - RADS
Pace Project No.: 92648450

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92648450001	HAM-HGWA-4	EPA 9315	RMS	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92648450002	HAM-HGWA-42D	EPA 9315	RMS	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92648450003	HAM-HGWA-5	EPA 9315	RMS	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92648450004	HAM-HGWA-6	EPA 9315	RMS	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92648450005	HAM-MW-21D	EPA 9315	RMS	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92648450006	HAM-MW-33	EPA 9315	RMS	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92648450007	HAM-HGWC-17	EPA 9315	RMS	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92648450008	HAM-MW-22	EPA 9315	RMS	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92648450009	HAM-MW-34D	EPA 9315	RMS	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92648450010	HAM-MW-37D	EPA 9315	RMS	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92648450011	HAM-HGWC-14	EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92648450012	HAM-HGWC-15	EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92648450013	HAM-HGWC-16	EPA 9315	RMS	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Hammond AP-2 - RADS

Pace Project No.: 92648450

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92648450014	HAM-HGWC-18	EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	RMS	1	PASI-PA
92648450015	HAM-MW-23D	EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	RMS	1	PASI-PA
92648450016	HAM-MW-35	EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	RMS	1	PASI-PA
92648450017	HAM-MW-51	EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	RMS	1	PASI-PA
92648450018	HAM-AP-2-EB-02	EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	RMS	1	PASI-PA
92648450019	HAM-AP-2-FB-02	EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	RMS	1	PASI-PA
92648450020	HAM-AP-2-FD-02	EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	RMS	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Hammond AP-2 - RADS

Pace Project No.: 92648450

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92648450001	HAM-HGWA-4					
EPA 9315	Radium-226	0.164 ± 0.117 (0.187)	pCi/L		02/14/23 19:09	
EPA 9320	Radium-228	C:96% T:NA 0.797 ± 0.389 (0.656)	pCi/L		02/13/23 11:52	
Total Radium Calculation	Total Radium	C:83% T:79% 0.961 ± 0.506 (0.843)	pCi/L		03/21/23 16:16	
92648450002	HAM-HGWA-42D					
EPA 9315	Radium-226	0.353 ± 0.156 (0.178)	pCi/L		02/14/23 19:09	
EPA 9320	Radium-228	C:100% T:NA 0.771 ± 0.414 (0.738)	pCi/L		02/13/23 11:52	
Total Radium Calculation	Total Radium	C:87% T:77% 1.12 ± 0.570 (0.916)	pCi/L		03/21/23 16:16	
92648450003	HAM-HGWA-5					
EPA 9315	Radium-226	-0.0582 ± 0.311 (0.893)	pCi/L		02/17/23 19:46	
EPA 9320	Radium-228	C:96% T:NA 1.47 ± 0.549 (0.788)	pCi/L		02/14/23 13:14	
Total Radium Calculation	Total Radium	C:80% T:92% 1.47 ± 0.860 (1.68)	pCi/L		02/21/23 11:35	
92648450004	HAM-HGWA-6					
EPA 9315	Radium-226	0.479 ± 0.412 (0.753)	pCi/L		02/17/23 19:40	
EPA 9320	Radium-228	C:98% T:NA 0.322 ± 0.416 (0.885)	pCi/L		02/14/23 13:14	
Total Radium Calculation	Total Radium	C:82% T:89% 0.801 ± 0.828 (1.64)	pCi/L		02/21/23 11:35	

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SUMMARY OF DETECTION

Project: Hammond AP-2 - RADS
Pace Project No.: 92648450

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92648450005	HAM-MW-21D					
EPA 9315	Radium-226	0.0914 ± 0.293 (0.730) C:100% T:NA	pCi/L		02/17/23 19:41	
EPA 9320	Radium-228	0.165 ± 0.408 (0.909) C:79% T:81%	pCi/L		02/14/23 13:14	
Total Radium Calculation	Total Radium	0.256 ± 0.701 (1.64)	pCi/L		02/21/23 11:36	
92648450006	HAM-MW-33					
EPA 9315	Radium-226	0.407 ± 0.412 (0.808) C:99% T:NA	pCi/L		02/17/23 19:42	
EPA 9320	Radium-228	1.03 ± 0.507 (0.859) C:87% T:85%	pCi/L		02/14/23 13:14	
Total Radium Calculation	Total Radium	1.44 ± 0.919 (1.67)	pCi/L		02/21/23 11:36	
92648450007	HAM-HGWC-17					
EPA 9315	Radium-226	0.0472 ± 0.128 (0.310) C:75% T:NA	pCi/L		02/28/23 08:38	
EPA 9320	Radium-228	0.453 ± 0.622 (1.33) C:39% T:80%	pCi/L		02/28/23 12:38	
Total Radium Calculation	Total Radium	0.500 ± 0.750 (1.64)	pCi/L		02/28/23 16:08	
92648450008	HAM-MW-22					
EPA 9315	Radium-226	0.0748 ± 0.136 (0.310) C:67% T:NA	pCi/L		02/28/23 08:39	
EPA 9320	Radium-228	0.546 ± 0.360 (0.674) C:79% T:81%	pCi/L		02/28/23 12:38	
Total Radium Calculation	Total Radium	0.621 ± 0.496 (0.984)	pCi/L		02/28/23 16:08	

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SUMMARY OF DETECTION

Project: Hammond AP-2 - RADS
Pace Project No.: 92648450

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92648450009	HAM-MW-34D					
EPA 9315	Radium-226	0.207 ± 0.148 (0.238) C:94% T:NA	pCi/L		02/28/23 08:39	
EPA 9320	Radium-228	0.482 ± 0.358 (0.699) C:73% T:90%	pCi/L		02/28/23 12:38	
Total Radium Calculation	Total Radium	0.689 ± 0.506 (0.937)	pCi/L		02/28/23 16:08	
92648450010	HAM-MW-37D					
EPA 9315	Radium-226	0.231 ± 0.170 (0.287) C:83% T:NA	pCi/L		02/28/23 08:39	
EPA 9320	Radium-228	0.0776 ± 0.262 (0.594) C:84% T:85%	pCi/L		02/28/23 12:38	
Total Radium Calculation	Total Radium	0.309 ± 0.432 (0.881)	pCi/L		02/28/23 16:08	
92648450011	HAM-HGWC-14					
EPA 9315	Radium-226	0.302 ± 0.149 (0.182) C:90% T:NA	pCi/L		02/27/23 19:32	
EPA 9320	Radium-228	0.831 ± 0.445 (0.821) C:84% T:90%	pCi/L		02/21/23 11:57	
Total Radium Calculation	Total Radium	1.13 ± 0.594 (1.00)	pCi/L		02/28/23 15:11	
92648450012	HAM-HGWC-15					
EPA 9315	Radium-226	0.0323 ± 0.0924 (0.224) C:97% T:NA	pCi/L		02/27/23 19:32	
EPA 9320	Radium-228	0.594 ± 0.417 (0.816) C:85% T:82%	pCi/L		02/21/23 11:57	
Total Radium Calculation	Total Radium	0.626 ± 0.509 (1.04)	pCi/L		02/28/23 15:11	

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SUMMARY OF DETECTION

Project: Hammond AP-2 - RADS
Pace Project No.: 92648450

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92648450013	HAM-HGWC-16					
EPA 9315	Radium-226	0.217 ± 0.129 (0.174) C:91% T:NA	pCi/L		02/27/23 19:32	
EPA 9320	Radium-228	0.540 ± 0.449 (0.908) C:83% T:77%	pCi/L		02/21/23 11:58	
Total Radium Calculation	Total Radium	0.757 ± 0.578 (1.08)	pCi/L		02/28/23 15:11	
92648450014	HAM-HGWC-18					
EPA 9315	Radium-226	0.370 ± 0.156 (0.157) C:101% T:NA	pCi/L		02/27/23 19:32	
EPA 9320	Radium-228	0.501 ± 0.344 (0.668) C:88% T:97%	pCi/L		02/21/23 15:12	
Total Radium Calculation	Total Radium	0.871 ± 0.500 (0.825)	pCi/L		02/28/23 15:11	
92648450015	HAM-MW-23D					
EPA 9315	Radium-226	0.115 ± 0.0994 (0.168) C:88% T:NA	pCi/L		02/27/23 19:32	
EPA 9320	Radium-228	0.291 ± 0.323 (0.675) C:90% T:87%	pCi/L		02/21/23 15:12	
Total Radium Calculation	Total Radium	0.406 ± 0.422 (0.843)	pCi/L		02/28/23 15:11	
92648450016	HAM-MW-35					
EPA 9315	Radium-226	0.136 ± 0.138 (0.279) C:89% T:NA	pCi/L		02/27/23 19:16	
EPA 9320	Radium-228	1.10 ± 0.446 (0.703) C:89% T:83%	pCi/L		02/21/23 15:12	
Total Radium Calculation	Total Radium	1.24 ± 0.584 (0.982)	pCi/L		02/28/23 15:11	

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SUMMARY OF DETECTION

Project: Hammond AP-2 - RADS

Pace Project No.: 92648450

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92648450017	HAM-MW-51					
EPA 9315	Radium-226	0.122 ± 0.124 (0.246) C:95% T:NA	pCi/L		02/27/23 19:17	
EPA 9320	Radium-228	0.698 ± 0.434 (0.824) C:85% T:83%	pCi/L		02/21/23 15:12	
Total Radium Calculation	Total Radium	0.820 ± 0.558 (1.07)	pCi/L		02/28/23 15:11	
92648450018	HAM-AP-2-EB-02					
EPA 9315	Radium-226	-0.0133 ± 0.0872 (0.252) C:78% T:NA	pCi/L		02/27/23 19:18	
EPA 9320	Radium-228	0.262 ± 0.303 (0.639) C:89% T:100%	pCi/L		02/21/23 15:12	
Total Radium Calculation	Total Radium	0.262 ± 0.390 (0.891)	pCi/L		02/28/23 15:11	
92648450019	HAM-AP-2-FB-02					
EPA 9315	Radium-226	-0.0106 ± 0.0729 (0.218) C:75% T:NA	pCi/L		02/27/23 19:19	
EPA 9320	Radium-228	0.434 ± 0.373 (0.753) C:85% T:84%	pCi/L		02/21/23 15:12	
Total Radium Calculation	Total Radium	0.434 ± 0.446 (0.971)	pCi/L		02/28/23 15:11	
92648450020	HAM-AP-2-FD-02					
EPA 9315	Radium-226	0.0564 ± 0.0930 (0.207) C:92% T:NA	pCi/L		02/27/23 19:20	
EPA 9320	Radium-228	0.747 ± 0.393 (0.699) C:85% T:87%	pCi/L		02/21/23 15:12	
Total Radium Calculation	Total Radium	0.803 ± 0.486 (0.906)	pCi/L		02/28/23 15:11	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Hammond AP-2 - RADS

Pace Project No.: 92648450

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: HAM-HGWA-4 Lab ID: 92648450001 Collected: 01/23/23 17:04 Received: 01/24/23 12:38 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.164 ± 0.117 (0.187) C:96% T:NA	pCi/L	02/14/23 19:09	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.797 ± 0.389 (0.656) C:83% T:79%	pCi/L	02/13/23 11:52	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.961 ± 0.506 (0.843)	pCi/L	03/21/23 16:16	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Hammond AP-2 - RADS

Pace Project No.: 92648450

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: HAM-HGWA-42D Lab ID: 92648450002 Collected: 01/23/23 18:06 Received: 01/24/23 12:38 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.353 ± 0.156 (0.178) C:100% T:NA	pCi/L	02/14/23 19:09	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.771 ± 0.414 (0.738) C:87% T:77%	pCi/L	02/13/23 11:52	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.12 ± 0.570 (0.916)	pCi/L	03/21/23 16:16	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Hammond AP-2 - RADS

Pace Project No.: 92648450

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: HAM-HGWA-5 Lab ID: 92648450003 Collected: 01/27/23 10:59 Received: 01/30/23 11:50 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	-0.0582 ± 0.311 (0.893) C:96% T:NA	pCi/L	02/17/23 19:46	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.47 ± 0.549 (0.788) C:80% T:92%	pCi/L	02/14/23 13:14	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.47 ± 0.860 (1.68)	pCi/L	02/21/23 11:35	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Hammond AP-2 - RADS

Pace Project No.: 92648450

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: HAM-HGWA-6 Lab ID: 92648450004 Collected: 01/27/23 10:10 Received: 01/30/23 11:50 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.479 ± 0.412 (0.753) C:98% T:NA	pCi/L	02/17/23 19:40	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.322 ± 0.416 (0.885) C:82% T:89%	pCi/L	02/14/23 13:14	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.801 ± 0.828 (1.64)	pCi/L	02/21/23 11:35	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Hammond AP-2 - RADS

Pace Project No.: 92648450

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: HAM-MW-21D Lab ID: 92648450005 Collected: 01/27/23 17:06 Received: 01/30/23 11:50 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.0914 ± 0.293 (0.730) C:100% T:NA	pCi/L	02/17/23 19:41	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.165 ± 0.408 (0.909) C:79% T:81%	pCi/L	02/14/23 13:14	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.256 ± 0.701 (1.64)	pCi/L	02/21/23 11:36	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Hammond AP-2 - RADS

Pace Project No.: 92648450

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: HAM-MW-33 Lab ID: 92648450006 Collected: 01/27/23 14:34 Received: 01/30/23 11:50 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.407 ± 0.412 (0.808) C:99% T:NA	pCi/L	02/17/23 19:42	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.03 ± 0.507 (0.859) C:87% T:85%	pCi/L	02/14/23 13:14	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.44 ± 0.919 (1.67)	pCi/L	02/21/23 11:36	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Hammond AP-2 - RADS

Pace Project No.: 92648450

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: HAM-HGWC-17 Lab ID: 92648450007 Collected: 01/30/23 15:50 Received: 02/01/23 12:45 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.0472 ± 0.128 (0.310) C:75% T:NA	pCi/L	02/28/23 08:38	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.453 ± 0.622 (1.33) C:39% T:80%	pCi/L	02/28/23 12:38	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.500 ± 0.750 (1.64)	pCi/L	02/28/23 16:08	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Hammond AP-2 - RADS

Pace Project No.: 92648450

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: HAM-MW-22 Lab ID: 92648450008 Collected: 01/30/23 15:15 Received: 02/01/23 12:45 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.0748 ± 0.136 (0.310) C:67% T:NA	pCi/L	02/28/23 08:39	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.546 ± 0.360 (0.674) C:79% T:81%	pCi/L	02/28/23 12:38	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.621 ± 0.496 (0.984)	pCi/L	02/28/23 16:08	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Hammond AP-2 - RADS

Pace Project No.: 92648450

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: HAM-MW-34D Lab ID: 92648450009 Collected: 01/30/23 13:06 Received: 02/01/23 12:45 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.207 ± 0.148 (0.238) C:94% T:NA	pCi/L	02/28/23 08:39	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.482 ± 0.358 (0.699) C:73% T:90%	pCi/L	02/28/23 12:38	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.689 ± 0.506 (0.937)	pCi/L	02/28/23 16:08	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Hammond AP-2 - RADS

Pace Project No.: 92648450

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: HAM-MW-37D Lab ID: 92648450010 Collected: 01/30/23 15:11 Received: 02/01/23 12:45 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.231 ± 0.170 (0.287) C:83% T:NA	pCi/L	02/28/23 08:39	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.0776 ± 0.262 (0.594) C:84% T:85%	pCi/L	02/28/23 12:38	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.309 ± 0.432 (0.881)	pCi/L	02/28/23 16:08	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Hammond AP-2 - RADS

Pace Project No.: 92648450

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: HAM-HGWC-14 Lab ID: 92648450011 Collected: 02/01/23 14:55 Received: 02/03/23 12:50 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.302 ± 0.149 (0.182) C:90% T:NA	pCi/L	02/27/23 19:32	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.831 ± 0.445 (0.821) C:84% T:90%	pCi/L	02/21/23 11:57	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.13 ± 0.594 (1.00)	pCi/L	02/28/23 15:11	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Hammond AP-2 - RADS

Pace Project No.: 92648450

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: HAM-HGWC-15 Lab ID: 92648450012 Collected: 02/01/23 14:44 Received: 02/03/23 12:50 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.0323 ± 0.0924 (0.224) C:97% T:NA	pCi/L	02/27/23 19:32	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.594 ± 0.417 (0.816) C:85% T:82%	pCi/L	02/21/23 11:57	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.626 ± 0.509 (1.04)	pCi/L	02/28/23 15:11	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Hammond AP-2 - RADS

Pace Project No.: 92648450

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: HAM-HGWC-16 Lab ID: 92648450013 Collected: 02/01/23 12:30 Received: 02/03/23 12:50 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.217 ± 0.129 (0.174) C:91% T:NA	pCi/L	02/27/23 19:32	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.540 ± 0.449 (0.908) C:83% T:77%	pCi/L	02/21/23 11:58	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.757 ± 0.578 (1.08)	pCi/L	02/28/23 15:11	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Hammond AP-2 - RADS

Pace Project No.: 92648450

Sample: HAM-HGWC-18 **Lab ID: 92648450014** Collected: 02/01/23 10:55 Received: 02/03/23 12:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.370 ± 0.156 (0.157) C:101% T:NA	pCi/L	02/27/23 19:32	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.501 ± 0.344 (0.668) C:88% T:97%	pCi/L	02/21/23 15:12	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.871 ± 0.500 (0.825)	pCi/L	02/28/23 15:11	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Hammond AP-2 - RADS

Pace Project No.: 92648450

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: HAM-MW-23D Lab ID: 92648450015 Collected: 02/01/23 13:20 Received: 02/03/23 12:50 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.115 ± 0.0994 (0.168) C:88% T:NA	pCi/L	02/27/23 19:32	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.291 ± 0.323 (0.675) C:90% T:87%	pCi/L	02/21/23 15:12	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.406 ± 0.422 (0.843)	pCi/L	02/28/23 15:11	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Hammond AP-2 - RADS

Pace Project No.: 92648450

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: HAM-MW-35 Lab ID: 92648450016 Collected: 02/01/23 10:02 Received: 02/03/23 12:50 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.136 ± 0.138 (0.279) C:89% T:NA	pCi/L	02/27/23 19:16	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.10 ± 0.446 (0.703) C:89% T:83%	pCi/L	02/21/23 15:12	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.24 ± 0.584 (0.982)	pCi/L	02/28/23 15:11	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Hammond AP-2 - RADS

Pace Project No.: 92648450

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: HAM-MW-51 Lab ID: 92648450017 Collected: 02/01/23 11:32 Received: 02/03/23 12:50 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.122 ± 0.124 (0.246) C:95% T:NA	pCi/L	02/27/23 19:17	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.698 ± 0.434 (0.824) C:85% T:83%	pCi/L	02/21/23 15:12	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.820 ± 0.558 (1.07)	pCi/L	02/28/23 15:11	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Hammond AP-2 - RADS

Pace Project No.: 92648450

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: HAM-AP-2-EB-02 Lab ID: 92648450018 Collected: 02/01/23 14:20 Received: 02/03/23 12:50 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	-0.0133 ± 0.0872 (0.252) C:78% T:NA	pCi/L	02/27/23 19:18	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.262 ± 0.303 (0.639) C:89% T:100%	pCi/L	02/21/23 15:12	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.262 ± 0.390 (0.891)	pCi/L	02/28/23 15:11	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Hammond AP-2 - RADS

Pace Project No.: 92648450

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: HAM-AP-2-FB-02 Lab ID: 92648450019 Collected: 02/01/23 14:15 Received: 02/03/23 12:50 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	-0.0106 ± 0.0729 (0.218) C:75% T:NA	pCi/L	02/27/23 19:19	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.434 ± 0.373 (0.753) C:85% T:84%	pCi/L	02/21/23 15:12	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.434 ± 0.446 (0.971)	pCi/L	02/28/23 15:11	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Hammond AP-2 - RADS

Pace Project No.: 92648450

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: HAM-AP-2-FD-02 Lab ID: 92648450020 Collected: 02/01/23 00:00 Received: 02/03/23 12:50 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.0564 ± 0.0930 (0.207) C:92% T:NA	pCi/L	02/27/23 19:20	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.747 ± 0.393 (0.699) C:85% T:87%	pCi/L	02/21/23 15:12	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.803 ± 0.486 (0.906)	pCi/L	02/28/23 15:11	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Hammond AP-2 - RADS

Pace Project No.: 92648450

QC Batch:	565966	Analysis Method:	EPA 9315
QC Batch Method:	EPA 9315	Analysis Description:	9315 Total Radium
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92648450007, 92648450008, 92648450009, 92648450010

METHOD BLANK: 2748589 Matrix: Water

Associated Lab Samples: 92648450007, 92648450008, 92648450009, 92648450010

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.221 ± 0.151 (0.221) C:84% T:NA	pCi/L	02/28/23 09:30	

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

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Hammond AP-2 - RADS

Pace Project No.: 92648450

QC Batch: 565967

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92648450007, 92648450008, 92648450009, 92648450010

METHOD BLANK: 2748590

Matrix: Water

Associated Lab Samples: 92648450007, 92648450008, 92648450009, 92648450010

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.409 ± 0.324 (0.634) C:77% T:88%	pCi/L	02/28/23 12:36	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Hammond AP-2 - RADS

Pace Project No.: 92648450

QC Batch: 565151

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92648450003, 92648450004, 92648450005, 92648450006

METHOD BLANK: 2743953

Matrix: Water

Associated Lab Samples: 92648450003, 92648450004, 92648450005, 92648450006

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0640 ± 0.166 (0.397) C:100% T:NA	pCi/L	02/17/23 19:36	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Hammond AP-2 - RADS

Pace Project No.: 92648450

QC Batch:	565150	Analysis Method:	EPA 9320
QC Batch Method:	EPA 9320	Analysis Description:	9320 Radium 228
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92648450003, 92648450004, 92648450005, 92648450006

METHOD BLANK: 2743952 Matrix: Water

Associated Lab Samples: 92648450003, 92648450004, 92648450005, 92648450006

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.323 ± 0.277 (0.553) C:86% T:88%	pCi/L	02/14/23 13:14	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Hammond AP-2 - RADS

Pace Project No.: 92648450

QC Batch: 564276

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92648450001, 92648450002

METHOD BLANK: 2740044

Matrix: Water

Associated Lab Samples: 92648450001, 92648450002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.422 ± 0.346 (0.687) C:78% T:87%	pCi/L	02/09/23 13:53	

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

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Hammond AP-2 - RADS

Pace Project No.: 92648450

QC Batch: 564275

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92648450001, 92648450002

METHOD BLANK: 2740043

Matrix: Water

Associated Lab Samples: 92648450001, 92648450002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0752 ± 0.0913 (0.184) C:91% T:NA	pCi/L	02/14/23 19:09	

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QUALIFIERS

Project: Hammond AP-2 - RADS

Pace Project No.: 92648450

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

Act - Activity

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

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Hammond AP-2 - RADS
Pace Project No.: 92648450

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92648450001	HAM-HGWA-4	EPA 9315	564275		
92648450002	HAM-HGWA-42D	EPA 9315	564275		
92648450003	HAM-HGWA-5	EPA 9315	565151		
92648450004	HAM-HGWA-6	EPA 9315	565151		
92648450005	HAM-MW-21D	EPA 9315	565151		
92648450006	HAM-MW-33	EPA 9315	565151		
92648450007	HAM-HGWC-17	EPA 9315	565966		
92648450008	HAM-MW-22	EPA 9315	565966		
92648450009	HAM-MW-34D	EPA 9315	565966		
92648450010	HAM-MW-37D	EPA 9315	565966		
92648450011	HAM-HGWC-14	EPA 9315	565964		
92648450012	HAM-HGWC-15	EPA 9315	565964		
92648450013	HAM-HGWC-16	EPA 9315	565964		
92648450014	HAM-HGWC-18	EPA 9315	565964		
92648450015	HAM-MW-23D	EPA 9315	565964		
92648450016	HAM-MW-35	EPA 9315	565964		
92648450017	HAM-MW-51	EPA 9315	565964		
92648450018	HAM-AP-2-EB-02	EPA 9315	565964		
92648450019	HAM-AP-2-FB-02	EPA 9315	565964		
92648450020	HAM-AP-2-FD-02	EPA 9315	565964		
92648450001	HAM-HGWA-4	EPA 9320	564276		
92648450002	HAM-HGWA-42D	EPA 9320	564276		
92648450003	HAM-HGWA-5	EPA 9320	565150		
92648450004	HAM-HGWA-6	EPA 9320	565150		
92648450005	HAM-MW-21D	EPA 9320	565150		
92648450006	HAM-MW-33	EPA 9320	565150		
92648450007	HAM-HGWC-17	EPA 9320	565967		
92648450008	HAM-MW-22	EPA 9320	565967		
92648450009	HAM-MW-34D	EPA 9320	565967		
92648450010	HAM-MW-37D	EPA 9320	565967		
92648450011	HAM-HGWC-14	EPA 9320	565965		
92648450012	HAM-HGWC-15	EPA 9320	565965		
92648450013	HAM-HGWC-16	EPA 9320	565965		
92648450014	HAM-HGWC-18	EPA 9320	565965		
92648450015	HAM-MW-23D	EPA 9320	565965		
92648450016	HAM-MW-35	EPA 9320	565965		
92648450017	HAM-MW-51	EPA 9320	565965		
92648450018	HAM-AP-2-EB-02	EPA 9320	565965		
92648450019	HAM-AP-2-FB-02	EPA 9320	565965		
92648450020	HAM-AP-2-FD-02	EPA 9320	565965		
92648450001	HAM-HGWA-4	Total Radium Calculation	575358		
92648450002	HAM-HGWA-42D	Total Radium Calculation	575358		
92648450003	HAM-HGWA-5	Total Radium Calculation	568699		
92648450004	HAM-HGWA-6	Total Radium Calculation	568699		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Hammond AP-2 - RADS

Pace Project No.: 92648450

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92648450005	HAM-MW-21D	Total Radium Calculation	568700		
92648450006	HAM-MW-33	Total Radium Calculation	568700		
92648450007	HAM-HGWC-17	Total Radium Calculation	570512		
92648450008	HAM-MW-22	Total Radium Calculation	570512		
92648450009	HAM-MW-34D	Total Radium Calculation	570512		
92648450010	HAM-MW-37D	Total Radium Calculation	570512		
92648450011	HAM-HGWC-14	Total Radium Calculation	570492		
92648450012	HAM-HGWC-15	Total Radium Calculation	570492		
92648450013	HAM-HGWC-16	Total Radium Calculation	570492		
92648450014	HAM-HGWC-18	Total Radium Calculation	570492		
92648450015	HAM-MW-23D	Total Radium Calculation	570492		
92648450016	HAM-MW-35	Total Radium Calculation	570492		
92648450017	HAM-MW-51	Total Radium Calculation	570492		
92648450018	HAM-AP-2-EB-02	Total Radium Calculation	570492		
92648450019	HAM-AP-2-FB-02	Total Radium Calculation	570492		
92648450020	HAM-AP-2-FD-02	Total Radium Calculation	570492		

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DC#_ Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name:

G A Power

Project #:

WO#: 92648450

Courier: Fed Ex UPS USPS Client Commercial Pace Other: _____



Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: *12/23/22*

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen?

Yes No N/A

Thermometer:

IR Gun ID: *230*

Type of Ice:

Wet Blue None

Cooler Temp: *4.4*

Correction Factor:

Add/Subtract (°C) *0.0*

Temp should be above freezing to 6°C

Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): *4.4*

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? Yes No

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

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____

Date: _____

Project Manager SRF Review: _____

Date: _____



DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Project #

WO#: 92648450

PM: BV

Due Date: 02/14/23

CLIENT: GA-GA Power

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

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

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



DC#_ Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name: GA power

Project #:

WO#: 92648450

PM: BV Due Date: 02/14/23
CLIENT: GA-GA Power

Courier: Fed Ex, UPS, USPS, Client, Commercial, Pace, Other

Custody Seal Present? Yes, No, Seals Intact? Yes, No

Packing Material: Bubble Wrap, Bubble Bags, None, Other

Thermometer: IR Gun ID: 230, Type of Ice: Wet, Blue, None

Cooler Temp: 4.1, Correction Factor: +0

Cooler Temp Corrected (°C): 4.1

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? Yes, No

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

Table with 11 rows and 2 columns: Chain of Custody Present?, Samples Arrived within Hold Time?, Short Hold Time Analysis (<72 hr.?), Rush Turn Around Time Requested?, Sufficient Volume?, Correct Containers Used?, Containers Intact?, Dissolved analysis: Samples Field Filtered?, Sample Labels Match COC?, Headspace in VOA Vials (>5.6mm)?, Trip Blank Present?, Trip Blank Custody Seals Present?.

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:



DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

WO#: 92648450

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Project #

PM: BV

Due Date: 02/14/23

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

CLIENT: GA-GA Power

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2SO3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)	
1	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
2	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
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12	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

pH Adjustment Log for Preserved Samples

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

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



CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company: GA Power		Report To: SCS Contacts		Attention: Southern Co.	
Address: Atlanta, GA		Copy To: Geosyntec Contacts		Company Name:	
Email To: SCS Contacts		Purchase Order No.:		Address:	
Phone:	Fax:	Project Name: Hammond AP-2		Pace Quote Reference:	
Requested Due Date/TAT: 10 Day		Project Number:		Pace Project Manager: Bonnie Vang	
				Pace Profile #: 10839	
				Site Location:	
				STATE: GA	

REGULATORY AGENCY		
<input type="checkbox"/> NPDES	<input type="checkbox"/> GROUND WATER	<input type="checkbox"/> DRINKING WATER
<input type="checkbox"/> UST	<input type="checkbox"/> RCRA	<input checked="" type="checkbox"/> OTHER CCR

ITEM #	SAMPLE ID (A-Z, 0-9 / .)	Matrix Code	Sample Type (G-GRAB, C-COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	
				COMPOSITE		COMPOSITE				Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O8	Methanol				Other
				DATE	TIME	DATE	TIME													
1	HAM-HGWA-5	WG	G	1/27/2023	1650			18	5	2	3									
2	HAM-HGWA-6	WG	G	1/27/2023	1010			18	5	2	3									
3	HAM-MW-21D	WG	G	1/27/2023	1708			17	5	2	3									
4	HAM-MW-33	WG	G	1/27/2023	1434			18	5	2	3									
5				TJ 1/27/2023																
6				TJ 1/27/2023																
7																				
8																				
9																				
10																				
11																				
12																				

92648450
Pace Project No./ Lab I.D.
pH = 6.52 003
pH = 7.66 009
pH = 7.31 005
pH = 5.61 006

Task Code: HAM-CCR ASSMT-2023S1	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
		<i>Anthony Sganet / Geosyntec</i>	1/30/2023	11:50	<i>Ryan Williams / Pace</i>	1/30/2023	11:50
	<i>Ryan Williams / Pace</i>	1/30/2023	1438	<i>Ryan Williams / Pace</i>	1/30/2023	1738	

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Sample Intact (Y/N)
PRINT Name of SAMPLER: Anthony Sganet, Corina Lewis, TK Hsieh / Geosyntec Consultants, Inc					
SIGNATURE of SAMPLER: <i>Anthony Sganet, Corina Lewis, TK Hsieh</i>					
DATE Signed (MM/DD/YYYY): 01/27/2023					

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



DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name:

GA Power

Project #:

WO#: 92648450

Courier: Commercial Fed Ex Pace UPS USPS Other: Client

PM: BV Due Date: 02/14/23 CLIENT: GA-GA Power

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: 2/11/23 C 2/11

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen?

Yes No N/A

Thermometer:

IR Gun ID: 230

Type of Ice: Wet Blue None

Cooler Temp: 2.8 Correction Factor: Add/Subtract (°C) 0.0

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

Cooler Temp Corrected (°C): 2.8

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? Yes No

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

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____



DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Project #

WO# : 92648450

PM: BV

Due Date: 02/14/23

CLIENT: GA-GA Power

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (-9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP9R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)	
1	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
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12	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

pH Adjustment Log for Preserved Samples

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

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



CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company: GA Power	Report To: SCS Contacts	Attention: Southern Co.	Company Name:		
Address: Atlanta, GA	Copy To: Geosyntec Contacts	Address:			REGULATORY AGENCY
Email To: SCS Contacts	Purchase Order No.:	Pace Quote Reference:	<input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER		
Phone: Fax:	Project Name: Hammond AP-2	Pace Project Manager: Bonnie Vang	<input type="checkbox"/> UST <input type="checkbox"/> RCRA <input checked="" type="checkbox"/> OTHER		
Requested Due Date/TAT: 10 Day	Project Number:	Pace Profile #: 10839	Site Location:	STATE: GA	

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (E=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	Preservatives								Y/N	Analyte Test	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.				
					COMPOSITE		COMPOSITE			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₈	Methanol	Other					Chloride, Fluoride, Sulfate	Full App. III and IV metals	RAD 238/232	TOC
					DATE	TIME	DATE	TIME																	
1	HAM-HGWC-17	WG	G	1/30/2023	1550				17	5	2	3			X	X	X	X	N	pH = 6.44 007					
2	HAM-MW-22	WG	G	1/30/2023	1616				17	5	2	3			X	X	X	X	N	pH = 5.47 008					
3	HAM-MW-34D	WG	G	1/30/2023	1305				18	5	2	3			X	X	X	X	N	pH = 6.99 009					
4	HAM-MW-37D	WG	G	1/30/2023	1611				17	5	2	3			X	X	X	X	N	pH = 7.58 010					
5																									
6																									
7																									
8																									
9																									
10																									
11																									
12																									

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Task Code: HAM-CCR-ASGMT-2023B1	<i>Therese Marshall / Geosyntec</i>	2/1/2023	1245	<i>Ryan Williams / Pace</i>	2/1/2023	1245	
	<i>Ryan Williams / Pace</i>	2/1/2023	1435	<i>Bonnie Vang / Pace</i>	2/1/2023	1435	

SAMPLER NAME AND SIGNATURE	
PRINT Name of SAMPLER: <i>Therese Marshall</i>	Geosyntec Consultants, Inc
SIGNATURE of SAMPLER: <i>Therese Marshall</i>	DATE Signed (MM/DD/YYYY): 01/30/2023

Temp in °C	Refrigerated on Ice (Y/N)	Cooling System Sealed Cooler (Y/N)	Sample Intact (Y/N)

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



DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name:

Project #:

WO#: 92648450

GA Power

PM: BV Due Date: 02/14/23
CLIENT: GA-GA Power

Courier Commercial Fed Ex UPS USPS Client Other: _____

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: 2/3/23
LGH

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen? Yes No N/A

Thermometer: IR Gun ID: 214 Type of Ice: Wet Blue None

Cooler Temp: 23 Correction Factor: Add/Subtract (°C) +0.1

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

Cooler Temp Corrected (°C): 2.4

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? Yes No

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

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Sample HAA1-AP-2-FD-02 present but not listed on COC

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____



DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, L.Hg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Project :

WO#: 92648450

PM: BV

Due Date: 02/14/23

CLIENT: GA-GA Power

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic Zn Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	D694-40 mL Amber NH4Cl (N/A)(Cl-)	D69H-40 mL VOA HCl (N/A)	V69T-40 mL VOA Na2SO3 (N/A)	V69U-40 mL VOA Unpreserved (N/A)	D69V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3R-250 mL Plastic (NH2)SO4 (9.3-9.7)	AG6U-100 mL Amber Unpreserved (N/A) (Cl-)	V5GU-20 mL Scintillation vials (N/A)	D69U-40 mL Amber Unpreserved vials (N/A)		
1																													
2																													
3																													
4																													
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples

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

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

March 23, 2023

Joju Abraham
Georgia Power-CCR
2480 Maner Road
Atlanta, GA 30339

RE: Project: Plant Hammond Pooled - RADS
Pace Project No.: 92648448

Dear Joju Abraham:

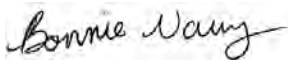
Enclosed are the analytical results for sample(s) received by the laboratory between January 24, 2023 and January 26, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Greensburg

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

Sincerely,



Bonnie Vang
bonnie.vang@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Noelia Gangi, Georgia Power
Ben Hodges, Georgia Power-CCR
Christine Hug, Geosyntec Consultants, Inc.
Kristen Jurinko
Thomas Kessler, Geosyntec
Whitney Law, Geosyntec Consultants
Laura Midkiff, Georgia Power
Michael Smilley, Georgia Power
Tina Sullivan, ERM
Anthony Szwast, Geosyntec



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Plant Hammond Pooled - RADS
Pace Project No.: 92648448

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
Delaware Certification
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Florida: Cert E871149 SEKS WET
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA180012
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: 2017020
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991

Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572018-1
New Hampshire/TNI Certification #: 297617
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-010
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: 02867
Texas/TNI Certification #: T104704188-17-3
Utah/TNI Certification #: PA014572017-9
USDA Soil Permit #: P330-17-00091
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Plant Hammond Pooled - RADS

Pace Project No.: 92648448

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92648448001	HAM-HGWA-3	Water	01/23/23 16:49	01/24/23 12:38
92648448002	HAM-HGWA-2	Water	01/24/23 09:35	01/26/23 11:15
92648448003	HAM-HGWA-43D	Water	01/24/23 10:55	01/26/23 11:15
92648448004	HAM-HGWA-44D	Water	01/24/23 10:57	01/26/23 11:15
92648448005	HAM-HGWA-1	Water	01/24/23 09:35	01/26/23 11:15

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Plant Hammond Pooled - RADS

Pace Project No.: 92648448

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92648448001	HAM-HGWA-3	EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92648448002	HAM-HGWA-2	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92648448003	HAM-HGWA-43D	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92648448004	HAM-HGWA-44D	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92648448005	HAM-HGWA-1	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Plant Hammond Pooled - RADS

Pace Project No.: 92648448

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92648448001	HAM-HGWA-3					
EPA 9315	Radium-226	0.0154 ± 0.0951 (0.254) C:94% T:NA	pCi/L		02/20/23 10:18	
EPA 9320	Radium-228	0.296 ± 0.260 (0.535) C:94% T:91%	pCi/L		02/06/23 14:48	
Total Radium Calculation	Total Radium	0.311 ± 0.355 (0.789)	pCi/L		03/21/23 16:16	
92648448002	HAM-HGWA-2					
EPA 9315	Radium-226	0.230 ± 0.165 (0.266) C:92% T:NA	pCi/L		02/20/23 10:18	
EPA 9320	Radium-228	0.599 ± 0.364 (0.677) C:84% T:89%	pCi/L		02/08/23 14:36	
Total Radium Calculation	Total Radium	0.829 ± 0.529 (0.943)	pCi/L		03/21/23 16:16	
92648448003	HAM-HGWA-43D					
EPA 9315	Radium-226	0.304 ± 0.186 (0.279) C:95% T:NA	pCi/L		02/20/23 10:18	
EPA 9320	Radium-228	0.950 ± 0.437 (0.730) C:81% T:84%	pCi/L		02/08/23 14:36	
Total Radium Calculation	Total Radium	1.25 ± 0.623 (1.01)	pCi/L		03/21/23 16:16	
92648448004	HAM-HGWA-44D					
EPA 9315	Radium-226	0.112 ± 0.122 (0.232) C:96% T:NA	pCi/L		02/20/23 10:18	
EPA 9320	Radium-228	0.309 ± 0.319 (0.657) C:83% T:82%	pCi/L		02/08/23 14:39	
Total Radium Calculation	Total Radium	0.421 ± 0.441 (0.889)	pCi/L		03/21/23 16:16	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Plant Hammond Pooled - RADS

Pace Project No.: 92648448

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92648448005	HAM-HGWA-1					
EPA 9315	Radium-226	0.0747 ± 0.114 (0.248) C:96% T:NA	pCi/L		02/20/23 10:18	
EPA 9320	Radium-228	0.474 ± 0.314 (0.587) C:84% T:86%	pCi/L		02/08/23 14:39	
Total Radium Calculation	Total Radium	0.549 ± 0.428 (0.835)	pCi/L		03/21/23 16:16	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Hammond Pooled - RADS
Pace Project No.: 92648448

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: HAM-HGWA-3 Lab ID: 92648448001 Collected: 01/23/23 16:49 Received: 01/24/23 12:38 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.0154 ± 0.0951 (0.254) C:94% T:NA	pCi/L	02/20/23 10:18	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.296 ± 0.260 (0.535) C:94% T:91%	pCi/L	02/06/23 14:48	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.311 ± 0.355 (0.789)	pCi/L	03/21/23 16:16	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Hammond Pooled - RADS

Pace Project No.: 92648448

Sample: HAM-HGWA-2 **Lab ID: 92648448002** Collected: 01/24/23 09:35 Received: 01/26/23 11:15 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.230 ± 0.165 (0.266) C:92% T:NA	pCi/L	02/20/23 10:18	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.599 ± 0.364 (0.677) C:84% T:89%	pCi/L	02/08/23 14:36	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.829 ± 0.529 (0.943)	pCi/L	03/21/23 16:16	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Hammond Pooled - RADS

Pace Project No.: 92648448

Sample: HAM-HGWA-43D **Lab ID: 92648448003** Collected: 01/24/23 10:55 Received: 01/26/23 11:15 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.304 ± 0.186 (0.279) C:95% T:NA	pCi/L	02/20/23 10:18	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.950 ± 0.437 (0.730) C:81% T:84%	pCi/L	02/08/23 14:36	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.25 ± 0.623 (1.01)	pCi/L	03/21/23 16:16	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Hammond Pooled - RADS

Pace Project No.: 92648448

Sample: HAM-HGWA-44D **Lab ID: 92648448004** Collected: 01/24/23 10:57 Received: 01/26/23 11:15 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.112 ± 0.122 (0.232) C:96% T:NA	pCi/L	02/20/23 10:18	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.309 ± 0.319 (0.657) C:83% T:82%	pCi/L	02/08/23 14:39	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.421 ± 0.441 (0.889)	pCi/L	03/21/23 16:16	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Hammond Pooled - RADS

Pace Project No.: 92648448

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: HAM-HGWA-1 Lab ID: 92648448005 Collected: 01/24/23 09:35 Received: 01/26/23 11:15 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.0747 ± 0.114 (0.248) C:96% T:NA	pCi/L	02/20/23 10:18	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.474 ± 0.314 (0.587) C:84% T:86%	pCi/L	02/08/23 14:39	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.549 ± 0.428 (0.835)	pCi/L	03/21/23 16:16	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Hammond Pooled - RADS

Pace Project No.: 92648448

QC Batch:	567003	Analysis Method:	EPA 9315
QC Batch Method:	EPA 9315	Analysis Description:	9315 Total Radium
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92648448001, 92648448002, 92648448003, 92648448004, 92648448005

METHOD BLANK: 2753256 Matrix: Water

Associated Lab Samples: 92648448001, 92648448002, 92648448003, 92648448004, 92648448005

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0414 ± 0.0994 (0.240) C:92% T:NA	pCi/L	02/20/23 10:18	

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Hammond Pooled - RADS

Pace Project No.: 92648448

QC Batch: 567029

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92648448001, 92648448002, 92648448003, 92648448004, 92648448005

METHOD BLANK: 2753383

Matrix: Water

Associated Lab Samples: 92648448001, 92648448002, 92648448003, 92648448004, 92648448005

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.482 ± 0.308 (0.572) C:92% T:84%	pCi/L	02/06/23 14:47	

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

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Plant Hammond Pooled - RADS

Pace Project No.: 92648448

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

Act - Activity

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

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Hammond Pooled - RADS
Pace Project No.: 92648448

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92648448001	HAM-HGWA-3	EPA 9315	567003		
92648448002	HAM-HGWA-2	EPA 9315	567003		
92648448003	HAM-HGWA-43D	EPA 9315	567003		
92648448004	HAM-HGWA-44D	EPA 9315	567003		
92648448005	HAM-HGWA-1	EPA 9315	567003		
92648448001	HAM-HGWA-3	EPA 9320	567029		
92648448002	HAM-HGWA-2	EPA 9320	567029		
92648448003	HAM-HGWA-43D	EPA 9320	567029		
92648448004	HAM-HGWA-44D	EPA 9320	567029		
92648448005	HAM-HGWA-1	EPA 9320	567029		
92648448001	HAM-HGWA-3	Total Radium Calculation	575358		
92648448002	HAM-HGWA-2	Total Radium Calculation	575358		
92648448003	HAM-HGWA-43D	Total Radium Calculation	575358		
92648448004	HAM-HGWA-44D	Total Radium Calculation	575358		
92648448005	HAM-HGWA-1	Total Radium Calculation	575358		

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DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name:

E A Power

Project #:

WO#: 92648448



Courier: Fed Ex UPS USPS Client Pace Other: _____

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: *1/24/23*

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen?

Yes No N/A

Thermometer:

IR Gun ID:

230

Type of Ice:

Wet Blue None

Cooler Temp:

4.4

Correction Factor:

Add/Subtract (°C)

0.0

Temp should be above freezing to 6°C

Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C):

4.4

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? Yes No

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

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted:

Date/Time:

Project Manager SCURF Review:

Date:

Project Manager SRF Review:

Date:



DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHG

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Project #

WO#: 92648448

PM: BV

Due Date: 02/14/23

CLIENT: GA-GA Power

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

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

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



DC#_ Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name: Georgia Power Project #:

WO#: 92648448

PM: BV Due Date: 02/09/23 CLIENT: GA-GA Power

Courier: Commercial Fed Ex UPS USPS Other: Client Pace

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: 1/26/23 Jm

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen? Yes No N/A

Thermometer: IR Gun ID: 230 Type of Ice: Wet Blue None

Cooler Temp: 1.3 Correction Factor: Add/Subtract (°C) 0 0

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

Cooler Temp Corrected (°C): 1.3

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? Yes No

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

			Comments/Discrepancy:
Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		1.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		2.
Short Hold Time Analysis (<72 hr.)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		3.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		4.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		5.
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		6.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		7.
Dissolved analysis: Samples Field Filtered?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		8.
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		9.
-Includes Date/Time/ID/Analysis Matrix: <u>W6/WQ</u>			
Headspace in VOA Vials (>5-6mm)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		10.
Trip Blank Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		11.
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____



DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

WO# : 92648448

PM: BV

Due Date: 02/09/23

CLIENT: GA-GA Power

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Project #

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9W-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2SO3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)	
1	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
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11	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
12	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

pH Adjustment Log for Preserved Samples

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

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

April 27, 2023

Joju Abraham
Georgia Power-CCR
2480 Maner Road
Atlanta, GA 30339

RE: Project: Plant Hammond Pooled Upgradient
Pace Project No.: 92648446

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory between January 24, 2023 and January 26, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte
- Pace Analytical Services - Peachtree Corners, GA

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

Sincerely,



Stephanie Knott for
Bonnie Vang
bonnie.vang@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Noelia Gangi, Georgia Power
Ben Hodges, Georgia Power-CCR
Christine Hug, Geosyntec Consultants, Inc.
Kristen Jurinko
Thomas Kessler, Geosyntec
Whitney Law, Geosyntec Consultants
Laura Midkiff, Georgia Power
Michael Smilley, Georgia Power
Tina Sullivan, ERM

Anthony Szwast, Geosyntec



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Plant Hammond Pooled Upgradien

Pace Project No.: 92648446

Pace Analytical Services Charlotte

South Carolina Laboratory ID: 99006

9800 Kinsey Ave. Ste 100, Huntersville, NC 28078

North Carolina Drinking Water Certification #: 37706

North Carolina Field Services Certification #: 5342

North Carolina Wastewater Certification #: 12

South Carolina Laboratory ID: 99006

South Carolina Certification #: 99006001

South Carolina Drinking Water Cert. #: 99006003

Florida/NELAP Certification #: E87627

Kentucky UST Certification #: 84

Louisiana DoH Drinking Water #: LA029

Virginia/VELAP Certification #: 460221

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804

Florida/NELAP Certification #: E87648

North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40

South Carolina Laboratory ID: 99030

South Carolina Certification #: 99030001

Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners

110 Technology Pkwy, Peachtree Corners, GA 30092

Florida DOH Certification #: E87315

Georgia DW Inorganics Certification #: 812

North Carolina Certification #: 381

South Carolina Certification #: 98011001

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Plant Hammond Pooled Upgradien

Pace Project No.: 92648446

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92648446001	HAM-HGWA-3	Water	01/23/23 16:49	01/24/23 12:38
92648446002	HAM-HGWA-2	Water	01/24/23 09:35	01/26/23 11:15
92648446003	HAM-HGWA-43D	Water	01/24/23 10:55	01/26/23 11:15
92648446004	HAM-HGWA-44D	Water	01/24/23 10:57	01/26/23 11:15
92648446005	HAM-HGWA-1	Water	01/24/23 09:35	01/26/23 11:15

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Plant Hammond Pooled Upgradien
Pace Project No.: 92648446

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92648446001	HAM-HGWA-3	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92648446002	HAM-HGWA-2	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92648446003	HAM-HGWA-43D	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92648446004	HAM-HGWA-44D	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92648446005	HAM-HGWA-1	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	CDC	3

PASI-A = Pace Analytical Services - Asheville
PASI-C = Pace Analytical Services - Charlotte
PASI-GA = Pace Analytical Services - Peachtree Corners, GA

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Plant Hammond Pooled Upgradien

Pace Project No.: 92648446

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92648446001	HAM-HGWA-3					
	Performed by	Customer			02/15/23 10:56	
	pH	7.32	Std. Units		02/15/23 10:56	
EPA 6010D	Calcium	85.0	mg/L	1.0	01/30/23 23:50	M1
EPA 6020B	Barium	0.13	mg/L	0.0050	02/02/23 18:47	
EPA 6020B	Boron	0.012J	mg/L	0.040	02/02/23 18:47	
EPA 6020B	Lithium	0.0030J	mg/L	0.030	02/02/23 18:47	
SM 2540C-2015	Total Dissolved Solids	293	mg/L	25.0	01/27/23 14:04	
EPA 300.0 Rev 2.1 1993	Chloride	5.6	mg/L	1.0	01/25/23 23:05	
EPA 300.0 Rev 2.1 1993	Fluoride	0.061J	mg/L	0.10	01/25/23 23:05	
EPA 300.0 Rev 2.1 1993	Sulfate	39.5	mg/L	1.0	01/25/23 23:05	
92648446002	HAM-HGWA-2					
	Performed by	Customer			02/15/23 10:56	
	pH	5.22	Std. Units		02/15/23 10:56	
EPA 6010D	Calcium	29.4	mg/L	1.0	02/02/23 21:19	
EPA 6020B	Barium	0.088	mg/L	0.0050	02/01/23 18:48	
EPA 6020B	Beryllium	0.00016J	mg/L	0.00050	02/01/23 18:48	
EPA 6020B	Boron	0.046	mg/L	0.040	02/01/23 18:48	
EPA 6020B	Cadmium	0.00021J	mg/L	0.00050	02/01/23 18:48	
EPA 6020B	Cobalt	0.024	mg/L	0.0050	02/01/23 18:48	
EPA 6020B	Lithium	0.0014J	mg/L	0.030	02/01/23 18:48	
SM 2540C-2015	Total Dissolved Solids	164	mg/L	25.0	01/27/23 14:08	
EPA 300.0 Rev 2.1 1993	Chloride	7.1	mg/L	1.0	01/29/23 17:10	
EPA 300.0 Rev 2.1 1993	Fluoride	0.053J	mg/L	0.10	01/29/23 17:10	
EPA 300.0 Rev 2.1 1993	Sulfate	79.7	mg/L	1.0	01/29/23 17:10	
92648446003	HAM-HGWA-43D					
	Performed by	Customer			02/15/23 10:57	
	pH	7.56	Std. Units		02/15/23 10:57	
EPA 6010D	Calcium	56.6	mg/L	1.0	02/02/23 21:33	
EPA 6020B	Barium	0.28	mg/L	0.0050	02/01/23 18:54	
EPA 6020B	Boron	0.037J	mg/L	0.040	02/01/23 18:54	
EPA 6020B	Lithium	0.0020J	mg/L	0.030	02/01/23 18:54	
EPA 6020B	Molybdenum	0.0027J	mg/L	0.010	02/01/23 18:54	
SM 2540C-2015	Total Dissolved Solids	271	mg/L	25.0	01/27/23 14:08	
EPA 300.0 Rev 2.1 1993	Chloride	4.3	mg/L	1.0	01/29/23 17:34	
EPA 300.0 Rev 2.1 1993	Fluoride	0.23	mg/L	0.10	01/29/23 17:34	
EPA 300.0 Rev 2.1 1993	Sulfate	34.7	mg/L	1.0	01/29/23 17:34	
92648446004	HAM-HGWA-44D					
	Performed by	Customer			02/15/23 10:57	
	pH	8.22	Std. Units		02/15/23 10:57	
EPA 6010D	Calcium	13.2	mg/L	1.0	02/02/23 21:38	
EPA 6020B	Arsenic	0.0027J	mg/L	0.0050	02/01/23 19:00	
EPA 6020B	Barium	0.18	mg/L	0.0050	02/01/23 19:00	
EPA 6020B	Boron	0.44	mg/L	0.040	02/01/23 19:00	
EPA 6020B	Lithium	0.064	mg/L	0.030	02/01/23 19:00	
EPA 6020B	Molybdenum	0.0026J	mg/L	0.010	02/01/23 19:00	
SM 2540C-2015	Total Dissolved Solids	363	mg/L	25.0	01/27/23 14:08	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Plant Hammond Pooled Upgradien

Pace Project No.: 92648446

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92648446004	HAM-HGWA-44D					
EPA 300.0 Rev 2.1 1993	Chloride	24.9	mg/L	1.0	01/31/23 01:07	
EPA 300.0 Rev 2.1 1993	Fluoride	1.3	mg/L	0.10	01/31/23 01:07	
EPA 300.0 Rev 2.1 1993	Sulfate	10.1	mg/L	1.0	01/31/23 01:07	
92648446005	HAM-HGWA-1					
	Performed by	Customer			02/15/23 10:58	
	pH	6.76	Std. Units		02/15/23 10:58	
EPA 6010D	Calcium	117	mg/L	1.0	02/02/23 21:43	
EPA 6020B	Barium	0.033	mg/L	0.0050	02/01/23 19:06	
EPA 6020B	Boron	0.015J	mg/L	0.040	02/01/23 19:06	
EPA 6020B	Lithium	0.00092J	mg/L	0.030	02/01/23 19:06	
SM 2540C-2015	Total Dissolved Solids	369	mg/L	25.0	01/27/23 14:08	
EPA 300.0 Rev 2.1 1993	Chloride	9.0	mg/L	1.0	01/31/23 01:33	
EPA 300.0 Rev 2.1 1993	Fluoride	0.089J	mg/L	0.10	01/31/23 01:33	
EPA 300.0 Rev 2.1 1993	Sulfate	48.3	mg/L	1.0	01/31/23 01:33	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Hammond Pooled Upgradien
Pace Project No.: 92648446

Sample: HAM-HGWA-3		Lab ID: 92648446001		Collected: 01/23/23 16:49		Received: 01/24/23 12:38		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	Customer				1		02/15/23 10:56		
pH	7.32	Std. Units			1		02/15/23 10:56		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	85.0	mg/L	1.0	0.12	1	01/30/23 15:10	01/30/23 23:50	7440-70-2	M1
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	01/30/23 12:30	02/02/23 18:47	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	01/30/23 12:30	02/02/23 18:47	7440-38-2	
Barium	0.13	mg/L	0.0050	0.00067	1	01/30/23 12:30	02/02/23 18:47	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	01/30/23 12:30	02/02/23 18:47	7440-41-7	
Boron	0.012J	mg/L	0.040	0.0086	1	01/30/23 12:30	02/02/23 18:47	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	01/30/23 12:30	02/02/23 18:47	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	01/30/23 12:30	02/02/23 18:47	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	01/30/23 12:30	02/02/23 18:47	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	01/30/23 12:30	02/02/23 18:47	7439-92-1	
Lithium	0.0030J	mg/L	0.030	0.00073	1	01/30/23 12:30	02/02/23 18:47	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	01/30/23 12:30	02/02/23 18:47	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	01/30/23 12:30	02/02/23 18:47	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	01/30/23 12:30	02/02/23 18:47	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/01/23 08:00	02/01/23 13:37	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	293	mg/L	25.0	25.0	1		01/27/23 14:04		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	5.6	mg/L	1.0	0.60	1		01/25/23 23:05	16887-00-6	
Fluoride	0.061J	mg/L	0.10	0.050	1		01/25/23 23:05	16984-48-8	
Sulfate	39.5	mg/L	1.0	0.50	1		01/25/23 23:05	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Hammond Pooled Upgradien
Pace Project No.: 92648446

Sample: HAM-HGWA-2		Lab ID: 92648446002		Collected: 01/24/23 09:35		Received: 01/26/23 11:15		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	Customer				1		02/15/23 10:56		
pH	5.22	Std. Units			1		02/15/23 10:56		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	29.4	mg/L	1.0	0.12	1	01/31/23 17:09	02/02/23 21:19	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/01/23 10:17	02/01/23 18:48	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/01/23 10:17	02/01/23 18:48	7440-38-2	
Barium	0.088	mg/L	0.0050	0.00067	1	02/01/23 10:17	02/01/23 18:48	7440-39-3	
Beryllium	0.00016J	mg/L	0.00050	0.000054	1	02/01/23 10:17	02/01/23 18:48	7440-41-7	
Boron	0.046	mg/L	0.040	0.0086	1	02/01/23 10:17	02/01/23 18:48	7440-42-8	
Cadmium	0.00021J	mg/L	0.00050	0.00011	1	02/01/23 10:17	02/01/23 18:48	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/01/23 10:17	02/01/23 18:48	7440-47-3	
Cobalt	0.024	mg/L	0.0050	0.00039	1	02/01/23 10:17	02/01/23 18:48	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/01/23 10:17	02/01/23 18:48	7439-92-1	
Lithium	0.0014J	mg/L	0.030	0.00073	1	02/01/23 10:17	02/01/23 18:48	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/01/23 10:17	02/01/23 18:48	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/01/23 10:17	02/01/23 18:48	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/01/23 10:17	02/01/23 18:48	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/01/23 08:00	02/01/23 13:40	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	164	mg/L	25.0	25.0	1		01/27/23 14:08		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	7.1	mg/L	1.0	0.60	1		01/29/23 17:10	16887-00-6	
Fluoride	0.053J	mg/L	0.10	0.050	1		01/29/23 17:10	16984-48-8	
Sulfate	79.7	mg/L	1.0	0.50	1		01/29/23 17:10	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Hammond Pooled Upgradien

Pace Project No.: 92648446

Sample: HAM-HGWA-43D		Lab ID: 92648446003		Collected: 01/24/23 10:55		Received: 01/26/23 11:15		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	Customer				1		02/15/23 10:57		
pH	7.56	Std. Units			1		02/15/23 10:57		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	56.6	mg/L	1.0	0.12	1	01/31/23 17:09	02/02/23 21:33	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/01/23 10:17	02/01/23 18:54	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/01/23 10:17	02/01/23 18:54	7440-38-2	
Barium	0.28	mg/L	0.0050	0.00067	1	02/01/23 10:17	02/01/23 18:54	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/01/23 10:17	02/01/23 18:54	7440-41-7	
Boron	0.037J	mg/L	0.040	0.0086	1	02/01/23 10:17	02/01/23 18:54	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/01/23 10:17	02/01/23 18:54	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/01/23 10:17	02/01/23 18:54	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/01/23 10:17	02/01/23 18:54	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/01/23 10:17	02/01/23 18:54	7439-92-1	
Lithium	0.0020J	mg/L	0.030	0.00073	1	02/01/23 10:17	02/01/23 18:54	7439-93-2	
Molybdenum	0.0027J	mg/L	0.010	0.00074	1	02/01/23 10:17	02/01/23 18:54	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/01/23 10:17	02/01/23 18:54	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/01/23 10:17	02/01/23 18:54	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/01/23 08:00	02/01/23 13:42	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	271	mg/L	25.0	25.0	1		01/27/23 14:08		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	4.3	mg/L	1.0	0.60	1		01/29/23 17:34	16887-00-6	
Fluoride	0.23	mg/L	0.10	0.050	1		01/29/23 17:34	16984-48-8	
Sulfate	34.7	mg/L	1.0	0.50	1		01/29/23 17:34	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Hammond Pooled Upgradien
Pace Project No.: 92648446

Sample: HAM-HGWA-44D		Lab ID: 92648446004		Collected: 01/24/23 10:57		Received: 01/26/23 11:15		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	Customer				1		02/15/23 10:57		
pH	8.22	Std. Units			1		02/15/23 10:57		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	13.2	mg/L	1.0	0.12	1	01/31/23 17:09	02/02/23 21:38	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/01/23 10:17	02/01/23 19:00	7440-36-0	
Arsenic	0.0027J	mg/L	0.0050	0.0022	1	02/01/23 10:17	02/01/23 19:00	7440-38-2	
Barium	0.18	mg/L	0.0050	0.00067	1	02/01/23 10:17	02/01/23 19:00	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/01/23 10:17	02/01/23 19:00	7440-41-7	
Boron	0.44	mg/L	0.040	0.0086	1	02/01/23 10:17	02/01/23 19:00	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/01/23 10:17	02/01/23 19:00	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/01/23 10:17	02/01/23 19:00	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/01/23 10:17	02/01/23 19:00	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/01/23 10:17	02/01/23 19:00	7439-92-1	
Lithium	0.064	mg/L	0.030	0.00073	1	02/01/23 10:17	02/01/23 19:00	7439-93-2	
Molybdenum	0.0026J	mg/L	0.010	0.00074	1	02/01/23 10:17	02/01/23 19:00	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/01/23 10:17	02/01/23 19:00	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/01/23 10:17	02/01/23 19:00	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/01/23 08:00	02/01/23 13:45	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	363	mg/L	25.0	25.0	1		01/27/23 14:08		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	24.9	mg/L	1.0	0.60	1		01/31/23 01:07	16887-00-6	
Fluoride	1.3	mg/L	0.10	0.050	1		01/31/23 01:07	16984-48-8	
Sulfate	10.1	mg/L	1.0	0.50	1		01/31/23 01:07	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Hammond Pooled Upgradien
Pace Project No.: 92648446

Sample: HAM-HGWA-1		Lab ID: 92648446005		Collected: 01/24/23 09:35		Received: 01/26/23 11:15		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	Customer				1		02/15/23 10:58		
pH	6.76	Std. Units			1		02/15/23 10:58		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	117	mg/L	1.0	0.12	1	01/31/23 17:09	02/02/23 21:43	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/01/23 10:17	02/01/23 19:06	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/01/23 10:17	02/01/23 19:06	7440-38-2	
Barium	0.033	mg/L	0.0050	0.00067	1	02/01/23 10:17	02/01/23 19:06	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/01/23 10:17	02/01/23 19:06	7440-41-7	
Boron	0.015J	mg/L	0.040	0.0086	1	02/01/23 10:17	02/01/23 19:06	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/01/23 10:17	02/01/23 19:06	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/01/23 10:17	02/01/23 19:06	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/01/23 10:17	02/01/23 19:06	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/01/23 10:17	02/01/23 19:06	7439-92-1	
Lithium	0.00092J	mg/L	0.030	0.00073	1	02/01/23 10:17	02/01/23 19:06	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/01/23 10:17	02/01/23 19:06	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/01/23 10:17	02/01/23 19:06	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/01/23 10:17	02/01/23 19:06	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/01/23 08:00	02/01/23 13:47	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	369	mg/L	25.0	25.0	1		01/27/23 14:08		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	9.0	mg/L	1.0	0.60	1		01/31/23 01:33	16887-00-6	
Fluoride	0.089J	mg/L	0.10	0.050	1		01/31/23 01:33	16984-48-8	
Sulfate	48.3	mg/L	1.0	0.50	1		01/31/23 01:33	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Hammond Pooled Upgradien
Pace Project No.: 92648446

QC Batch: 752651 Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92648446001

METHOD BLANK: 3910594 Matrix: Water
Associated Lab Samples: 92648446001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	01/30/23 23:40	

LABORATORY CONTROL SAMPLE: 3910595

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	0.99J	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3910596 3910597

Parameter	Units	3910596		3910597		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Calcium	mg/L	85.0	1	1	80.4	83.9	-467	-112	75-125	4	20 M1

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QUALITY CONTROL DATA

Project: Plant Hammond Pooled Upgradien

Pace Project No.: 92648446

QC Batch:	752956	Analysis Method:	EPA 6010D
QC Batch Method:	EPA 3010A	Analysis Description:	6010D ATL
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92648446002, 92648446003, 92648446004, 92648446005

METHOD BLANK: 3912342 Matrix: Water
Associated Lab Samples: 92648446002, 92648446003, 92648446004, 92648446005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	02/02/23 20:40	

LABORATORY CONTROL SAMPLE: 3912343

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.1	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3912344 3912345

Parameter	Units	3912344		3912345		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Calcium	mg/L	1	1	4.1	4.3	96	117	75-125	5	20	

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QUALITY CONTROL DATA

Project: Plant Hammond Pooled Upgradien
Pace Project No.: 92648446

QC Batch: 752599 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92648446001

METHOD BLANK: 3910295 Matrix: Water
Associated Lab Samples: 92648446001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	02/02/23 18:35	
Arsenic	mg/L	ND	0.0050	0.0022	02/02/23 18:35	
Barium	mg/L	ND	0.0050	0.00067	02/02/23 18:35	
Beryllium	mg/L	ND	0.00050	0.000054	02/02/23 18:35	
Boron	mg/L	ND	0.040	0.0086	02/02/23 18:35	
Cadmium	mg/L	ND	0.00050	0.00011	02/02/23 18:35	
Chromium	mg/L	ND	0.0050	0.0011	02/02/23 18:35	
Cobalt	mg/L	ND	0.0050	0.00039	02/02/23 18:35	
Lead	mg/L	ND	0.0010	0.00089	02/02/23 18:35	
Lithium	mg/L	ND	0.030	0.00073	02/02/23 18:35	
Molybdenum	mg/L	ND	0.010	0.00074	02/02/23 18:35	
Selenium	mg/L	ND	0.0050	0.0014	02/02/23 18:35	
Thallium	mg/L	ND	0.0010	0.00018	02/02/23 18:35	

LABORATORY CONTROL SAMPLE: 3910296

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.10	101	80-120	
Arsenic	mg/L	0.1	0.098	98	80-120	
Barium	mg/L	0.1	0.098	98	80-120	
Beryllium	mg/L	0.1	0.10	103	80-120	
Boron	mg/L	1	1.0	104	80-120	
Cadmium	mg/L	0.1	0.10	101	80-120	
Chromium	mg/L	0.1	0.10	102	80-120	
Cobalt	mg/L	0.1	0.10	101	80-120	
Lead	mg/L	0.1	0.098	98	80-120	
Lithium	mg/L	0.1	0.10	101	80-120	
Molybdenum	mg/L	0.1	0.098	98	80-120	
Selenium	mg/L	0.1	0.097	97	80-120	
Thallium	mg/L	0.1	0.096	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3910297 3910298

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

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QUALITY CONTROL DATA

Project: Plant Hammond Pooled Upgradien

Pace Project No.: 92648446

Parameter	Units	3910297		3910298		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result								
Barium	mg/L	0.13	0.1	0.1	0.22	0.22	97	90	75-125	3	20		
Beryllium	mg/L	ND	0.1	0.1	0.089	0.089	89	89	75-125	0	20		
Boron	mg/L	0.012J	1	1	0.92	0.93	91	92	75-125	2	20		
Cadmium	mg/L	ND	0.1	0.1	0.10	0.097	100	97	75-125	3	20		
Chromium	mg/L	ND	0.1	0.1	0.099	0.096	99	96	75-125	3	20		
Cobalt	mg/L	ND	0.1	0.1	0.098	0.097	98	97	75-125	1	20		
Lead	mg/L	ND	0.1	0.1	0.097	0.095	97	95	75-125	2	20		
Lithium	mg/L	0.0030J	0.1	0.1	0.092	0.091	89	88	75-125	1	20		
Molybdenum	mg/L	ND	0.1	0.1	0.099	0.098	99	98	75-125	1	20		
Selenium	mg/L	ND	0.1	0.1	0.10	0.10	102	100	75-125	2	20		
Thallium	mg/L	ND	0.1	0.1	0.096	0.096	96	96	75-125	0	20		

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QUALITY CONTROL DATA

Project: Plant Hammond Pooled Upgradien
Pace Project No.: 92648446

QC Batch: 753097 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92648446002, 92648446003, 92648446004, 92648446005

METHOD BLANK: 3912787 Matrix: Water
Associated Lab Samples: 92648446002, 92648446003, 92648446004, 92648446005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	02/01/23 17:13	
Arsenic	mg/L	ND	0.0050	0.0022	02/01/23 17:13	
Barium	mg/L	ND	0.0050	0.00067	02/01/23 17:13	
Beryllium	mg/L	ND	0.00050	0.000054	02/01/23 17:13	
Boron	mg/L	ND	0.040	0.0086	02/01/23 17:13	
Cadmium	mg/L	ND	0.00050	0.00011	02/01/23 17:13	
Chromium	mg/L	ND	0.0050	0.0011	02/01/23 17:13	
Cobalt	mg/L	ND	0.0050	0.00039	02/01/23 17:13	
Lead	mg/L	ND	0.0010	0.00089	02/01/23 17:13	
Lithium	mg/L	ND	0.030	0.00073	02/01/23 17:13	
Molybdenum	mg/L	ND	0.010	0.00074	02/01/23 17:13	
Selenium	mg/L	ND	0.0050	0.0014	02/01/23 17:13	
Thallium	mg/L	ND	0.0010	0.00018	02/01/23 17:13	

LABORATORY CONTROL SAMPLE: 3912788

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	107	80-120	
Arsenic	mg/L	0.1	0.10	102	80-120	
Barium	mg/L	0.1	0.10	103	80-120	
Beryllium	mg/L	0.1	0.10	102	80-120	
Boron	mg/L	1	1.0	101	80-120	
Cadmium	mg/L	0.1	0.096	96	80-120	
Chromium	mg/L	0.1	0.099	99	80-120	
Cobalt	mg/L	0.1	0.094	94	80-120	
Lead	mg/L	0.1	0.10	103	80-120	
Lithium	mg/L	0.1	0.10	103	80-120	
Molybdenum	mg/L	0.1	0.10	104	80-120	
Selenium	mg/L	0.1	0.10	104	80-120	
Thallium	mg/L	0.1	0.10	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3912789 3912790

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92649067001	Result	Spike Conc.	Spike Conc.								
Antimony	mg/L	3.4 ug/L	0.1	0.1	0.11	0.11	105	102	75-125	2	20		
Arsenic	mg/L	ND	0.1	0.1	0.10	0.10	100	99	75-125	1	20		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Hammond Pooled Upgradien

Pace Project No.: 92648446

Parameter	Units	3912789		3912790		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		92649067001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Barium	mg/L	47.9 ug/L	0.1	0.1	0.15	0.15	104	99	75-125	3	20		
Beryllium	mg/L	ND	0.1	0.1	0.10	0.10	100	101	75-125	1	20		
Boron	mg/L	ND	1	1	1.0	1.0	103	102	75-125	1	20		
Cadmium	mg/L	1.2 ug/L	0.1	0.1	0.10	0.097	99	96	75-125	3	20		
Chromium	mg/L	ND	0.1	0.1	0.10	0.10	104	100	75-125	4	20		
Cobalt	mg/L	ND	0.1	0.1	0.10	0.10	101	98	75-125	3	20		
Lead	mg/L	81.8 ug/L	0.1	0.1	0.19	0.18	105	101	75-125	2	20		
Lithium	mg/L	ND	0.1	0.1	0.10	0.10	104	103	75-125	1	20		
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.10	104	101	75-125	2	20		
Selenium	mg/L	ND	0.1	0.1	0.10	0.10	100	100	75-125	0	20		
Thallium	mg/L	ND	0.1	0.1	0.10	0.10	103	101	75-125	2	20		

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QUALITY CONTROL DATA

Project: Plant Hammond Pooled Upgradien
Pace Project No.: 92648446

QC Batch: 752854 Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92648446001, 92648446002, 92648446003, 92648446004, 92648446005

METHOD BLANK: 3911513 Matrix: Water
Associated Lab Samples: 92648446001, 92648446002, 92648446003, 92648446004, 92648446005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	02/01/23 12:44	

LABORATORY CONTROL SAMPLE: 3911514

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0024	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3911518 3911519

Parameter	Units	3911518		3911519		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Mercury	mg/L	ND	0.0025	0.0022	0.0022	88	88	75-125	0	20	

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QUALITY CONTROL DATA

Project: Plant Hammond Pooled Upgradien
Pace Project No.: 92648446

QC Batch: 752254 Analysis Method: SM 2540C-2015
QC Batch Method: SM 2540C-2015 Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92648446001, 92648446002, 92648446003, 92648446004, 92648446005

METHOD BLANK: 3908925 Matrix: Water
Associated Lab Samples: 92648446001, 92648446002, 92648446003, 92648446004, 92648446005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	01/27/23 14:00	

LABORATORY CONTROL SAMPLE: 3908926

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	371	93	80-120	

SAMPLE DUPLICATE: 3908927

Parameter	Units	92648636001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	ND	71.0		10	

SAMPLE DUPLICATE: 3908928

Parameter	Units	92649038017 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	146	147	1	10	

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QUALITY CONTROL DATA

Project: Plant Hammond Pooled Upgradien
Pace Project No.: 92648446

QC Batch: 751618 Analysis Method: EPA 300.0 Rev 2.1 1993
QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92648446001

METHOD BLANK: 3905644 Matrix: Water
Associated Lab Samples: 92648446001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	01/25/23 18:08	
Fluoride	mg/L	ND	0.10	0.050	01/25/23 18:08	
Sulfate	mg/L	ND	1.0	0.50	01/25/23 18:08	

LABORATORY CONTROL SAMPLE: 3905645

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	53.2	106	90-110	
Fluoride	mg/L	2.5	2.7	110	90-110	
Sulfate	mg/L	50	53.3	107	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3905646 3905647

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92648208001	Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	8.7	50	50	57.0	59.0	97	100	90-110	3	10		
Fluoride	mg/L	0.47	2.5	2.5	2.9	3.0	98	102	90-110	3	10		
Sulfate	mg/L	3.9	50	50	52.2	54.1	97	100	90-110	4	10		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3905648 3905649

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92648324002	Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	16.9	50	50	66.5	67.2	99	101	90-110	1	10		
Fluoride	mg/L	0.066J	2.5	2.5	2.6	2.6	101	101	90-110	0	10		
Sulfate	mg/L	19.0	50	50	69.4	69.8	101	102	90-110	1	10		

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QUALITY CONTROL DATA

Project: Plant Hammond Pooled Upgradien
Pace Project No.: 92648446

QC Batch: 752456 Analysis Method: EPA 300.0 Rev 2.1 1993
QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92648446002, 92648446003

METHOD BLANK: 3909761 Matrix: Water

Associated Lab Samples: 92648446002, 92648446003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	01/29/23 05:16	
Fluoride	mg/L	ND	0.10	0.050	01/29/23 05:16	
Sulfate	mg/L	ND	1.0	0.50	01/29/23 05:16	

LABORATORY CONTROL SAMPLE: 3909762

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.7	101	90-110	
Fluoride	mg/L	2.5	2.6	103	90-110	
Sulfate	mg/L	50	50.7	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3909763 3909764

Parameter	Units	92649224020		MS	MSD	MS	MSD	% Rec	Max	RPD	RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec			
Chloride	mg/L	ND	50	50	50.7	51.2	101	102	90-110	1	10	
Fluoride	mg/L	ND	2.5	2.5	2.6	2.6	105	105	90-110	0	10	
Sulfate	mg/L	ND	50	50	50.3	50.7	101	101	90-110	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3909765 3909766

Parameter	Units	92649038010		MS	MSD	MS	MSD	% Rec	Max	RPD	RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec			
Chloride	mg/L	6.0	50	50	57.0	57.6	102	103	90-110	1	10	
Fluoride	mg/L	0.052J	2.5	2.5	2.6	2.6	100	102	90-110	1	10	
Sulfate	mg/L	228	50	50	269	270	83	84	90-110	0	10	M1

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QUALITY CONTROL DATA

Project: Plant Hammond Pooled Upgradien

Pace Project No.: 92648446

QC Batch:	752690	Analysis Method:	EPA 300.0 Rev 2.1 1993
QC Batch Method:	EPA 300.0 Rev 2.1 1993	Analysis Description:	300.0 IC Anions
		Laboratory:	Pace Analytical Services - Asheville

Associated Lab Samples: 92648446004, 92648446005

METHOD BLANK: 3910852 Matrix: Water

Associated Lab Samples: 92648446004, 92648446005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	01/30/23 22:32	
Fluoride	mg/L	ND	0.10	0.050	01/30/23 22:32	
Sulfate	mg/L	ND	1.0	0.50	01/30/23 22:32	

LABORATORY CONTROL SAMPLE: 3910853

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.6	99	90-110	
Fluoride	mg/L	2.5	2.6	104	90-110	
Sulfate	mg/L	50	49.7	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3910854 3910855

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92648913001 Result	Spike Conc.	Spike Conc.	Conc.								
Chloride	mg/L	2.7	50	50	52.0	52.7	99	100	90-110	1	10		
Fluoride	mg/L	ND	2.5	2.5	2.5	2.5	98	100	90-110	1	10		
Sulfate	mg/L	ND	50	50	48.5	49.4	97	99	90-110	2	10		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3910856 3910857

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92649042009 Result	Spike Conc.	Spike Conc.	Conc.								
Chloride	mg/L	ND	50	50	51.0	51.2	102	102	90-110	0	10		
Fluoride	mg/L	ND	2.5	2.5	2.6	2.6	103	104	90-110	1	10		
Sulfate	mg/L	ND	50	50	50.4	50.7	101	101	90-110	1	10		

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Plant Hammond Pooled Upgradien

Pace Project No.: 92648446

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Hammond Pooled Upgradien
Pace Project No.: 92648446

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92648446001	HAM-HGWA-3				
92648446002	HAM-HGWA-2				
92648446003	HAM-HGWA-43D				
92648446004	HAM-HGWA-44D				
92648446005	HAM-HGWA-1				
92648446001	HAM-HGWA-3	EPA 3010A	752651	EPA 6010D	752696
92648446002	HAM-HGWA-2	EPA 3010A	752956	EPA 6010D	753082
92648446003	HAM-HGWA-43D	EPA 3010A	752956	EPA 6010D	753082
92648446004	HAM-HGWA-44D	EPA 3010A	752956	EPA 6010D	753082
92648446005	HAM-HGWA-1	EPA 3010A	752956	EPA 6010D	753082
92648446001	HAM-HGWA-3	EPA 3005A	752599	EPA 6020B	752695
92648446002	HAM-HGWA-2	EPA 3005A	753097	EPA 6020B	753234
92648446003	HAM-HGWA-43D	EPA 3005A	753097	EPA 6020B	753234
92648446004	HAM-HGWA-44D	EPA 3005A	753097	EPA 6020B	753234
92648446005	HAM-HGWA-1	EPA 3005A	753097	EPA 6020B	753234
92648446001	HAM-HGWA-3	EPA 7470A	752854	EPA 7470A	753068
92648446002	HAM-HGWA-2	EPA 7470A	752854	EPA 7470A	753068
92648446003	HAM-HGWA-43D	EPA 7470A	752854	EPA 7470A	753068
92648446004	HAM-HGWA-44D	EPA 7470A	752854	EPA 7470A	753068
92648446005	HAM-HGWA-1	EPA 7470A	752854	EPA 7470A	753068
92648446001	HAM-HGWA-3	SM 2540C-2015	752254		
92648446002	HAM-HGWA-2	SM 2540C-2015	752254		
92648446003	HAM-HGWA-43D	SM 2540C-2015	752254		
92648446004	HAM-HGWA-44D	SM 2540C-2015	752254		
92648446005	HAM-HGWA-1	SM 2540C-2015	752254		
92648446001	HAM-HGWA-3	EPA 300.0 Rev 2.1 1993	751618		
92648446002	HAM-HGWA-2	EPA 300.0 Rev 2.1 1993	752456		
92648446003	HAM-HGWA-43D	EPA 300.0 Rev 2.1 1993	752456		
92648446004	HAM-HGWA-44D	EPA 300.0 Rev 2.1 1993	752690		
92648446005	HAM-HGWA-1	EPA 300.0 Rev 2.1 1993	752690		

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DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Knoxville

Sample Condition Upon Receipt

Client Name:

E A Power

Project #:

WO#: 92648446



Courier: Fed Ex UPS USPS Client Pace Other: _____

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: *1/24/23*

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen? Yes No N/A

Thermometer:

IR Gun ID: *230* Type of Ice: Wet Blue None

Cooler Temp: *4.4* Correction Factor: Add/Subtract (°C) *0.0*

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

Cooler Temp Corrected (°C): *4.4*

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? Yes No

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

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____



DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Project #

WO#: 92648446

PM: BV

Due Date: 02/07/23

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

CLIENT: GA-GA Power

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFLU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)		
1		1	1																										
2																													
3																													
4																													
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples

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

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



CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		Page: 1 of 1
Company: GA Power		Report To: SCS Contacts		Attention: Southern Co.		REGULATORY AGENCY <input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input type="checkbox"/> UST <input type="checkbox"/> RCRA <input checked="" type="checkbox"/> OTHER CCR
Address: Atlanta, GA		Copy To: Geosyntec Contacts		Company Name:		
Email To: SCS Contacts		Task Code: HAM-CCR-ASSMT-2023S1		Address:		Site Location: <u>GA</u> STATE: <u>GA</u>
Phone: Fax:		Purchase Order No.:		Pace Quote Reference:		
Requested Due Date/TAT: 10 Day		Project Name: Plant Hammond Pooled Upgradient		Pace Project Manager: Nicole D'Oleo		
		Project Number:		Pace Profile #: 10839		

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE DRINKING WATER DW WATER WT WASTE WATER WW PRODUCT P SOIL/SOLID SL OL WPE AR OTHER OT TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Requested Analysis Filtered (Y/N)					Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.				
					COMPOSITE		COMPOSITE				Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other	Analysis Test	Chloride, Fluoride, Sulfate	Full App. III and IV metals	RAD 228/228	TDS			N	N	N	N
					DATE	TIME	DATE	TIME																					
1	HAM-HGWA-3		WG	G	1/23/2023	1649			17	5	2	3							X	X	X	X					N	pH = 7.32 (80)	
2																													
3																													
4																													
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HAM-CCR-ASSMT-2023S1	Thomas Hooper / Geosyntec	1/24/2023	10:40	Ryan Williams / Pace	1/24/2023	1040	
	Ryan Williams / Pace	1/24/2023	1238	Charles Hanks	1/24/2023	1238	

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: Joe Connor	/ Geosyntec Consultants, Inc				
SIGNATURE of SAMPLER: [Signature]	DATE Signed (MM/DD/YY): 1/23/23				



DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mecklenburg

WO#: 92648446

PM: BV Due Date: 02/07/23
CLIENT: GA-GA Power

Sample Condition Upon Receipt

Client Name: Georgia Power Project #:

Courier: Fed Ex UPS USPS Client Pace Other:

Custody Seal Present? Yes No Seals Intact? Yes No

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer: IR Gun ID: 230 Type of Ice: Wet Blue None

Cooler Temp: 1.3 Correction Factor: Add/Subtract (°C) 0 0

Cooler Temp Corrected (°C): 1.3

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? Yes No

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

Date/Initials Person Examining Contents: 1/26/23 Jm

Biological Tissue Frozen? Yes No N/A

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

			Comments/Discrepancy:
Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.	
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.	
Short Hold Time Analysis (<72 hr.)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.	
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.	
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.	
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.	
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.	
Dissolved analysis: Samples Field Filtered?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	8.	
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.	
-Includes Date/Time/ID/Analysis Matrix: W6/W6			
Headspace in VOA Vials (>5-6mm)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	10.	
Trip Blank Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.	
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____



DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Project #

WO#: 92648446

PM: BV

Due Date: 02/07/23

CLIENT: GA-GA Power

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG9A-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG6U-100 mL Amber Unpreserved (N/A) (Cl-)	V5GU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/		/	/	/
2	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/		/	/	/
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10	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/		/	/	/
11	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/		/	/	/
12	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/		/	/	/

pH Adjustment Log for Preserved Samples

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

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



CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		REGULATORY AGENCY	
Company: GA Power		Report To: SCS Contacts		Attention: Southern Co.		<input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input type="checkbox"/> UST <input type="checkbox"/> RCRA <input checked="" type="checkbox"/> OTHER CCR—	
Address: Atlanta, GA		Copy To: Geosyntec Contacts		Company Name:		Site Location	
Email To: SCS Contacts		Purchase Order No.:		Address:		STATE: GA	
Phone:		Project Name: Plant Hammond Pooled Upgradient		Pace Quote Reference:			
Requested Due Date/TAT: 10 Day		Project Number:		Pace Project Manager: Bonnie Vang			
				Pace Profile #: 10839			

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	MATRIX TYPE (G=GRAB C=COMPO)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analysis Test	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)						
				COMPOSITE		COMPOSITE				Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₅	Methanol	Other				Chloride	Fluoride	Sulfate	Full App. III and IV metals	RAD 228/228	TDS
				DATE	TIME	DATE	TIME																			
1	HAM-HGWA-2	WG	G	1/24/2023	0935			16	5	2	3							X	X	X	X			N	002	pH = 5.22
2	HAM-HGWA-43D	WG	G	1/24/2023	1055			18	6	2	3							X	X	X	X			N	003	pH = 7.56
3	HAM-HGWA-44D	WG	G	1/24/2023	1057			15	6	2	3							X	X	X	X			N	004	pH = 8.22
4	HAM-HGWA-1	WG	G	1/24/2023	1057			16	5	2	3							X	X	X	X			N	005	pH = 6.76
5																										
6																										
7																										
8																										
9																										
10																										
11																										
12																										

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Task Code: HAM-CCR-ASSMT-202351	<i>Thomas Hester / Geosyntec</i>	1/24/23	1100	<i>[Signature] / Geosyntec</i>	1/24/23	1100	
	<i>[Signature] / Geosyntec</i>	1/24/23	1115	<i>Ryan Williams / Pace</i>	1/24/23	1115	
	<i>Ryan Williams / Pace</i>	1/26/23	1435	<i>[Signature] / Pace</i>	1/26/23	1435	

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Curbody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: <i>Thomas Hester / Geosyntec</i>					
SIGNATURE of SAMPLER: <i>[Signature]</i>					
DATE Signed (MM/DD/YY): 1/24/2023					

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

SURFACE WATER (JANUARY 2023)

February 14, 2023

Kelley Sharpe
ARCADIS - Atlanta
2839 Paces Ferry Rd
STE 900
Atlanta, GA 30339

RE: Project: Plant Hammond-CCR Ash Pond-Revised Report
Pace Project No.: 92649594

Dear Kelley Sharpe:

Enclosed are the analytical results for sample(s) received by the laboratory on January 31, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

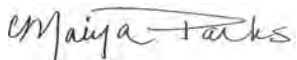
The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Asheville
- Pace Analytical Services - Peachtree Corners, GA

Rev. 1 - This replaces the February 8, 2023 final report, see Project Narrative.

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

Sincerely,



Maiya Parks
maiya.parks@pacelabs.com
(770)734-4200
Project Manager

Enclosures

cc: Ben Hodges, Georgia Power
Warren Johnson, ARCADIS - Atlanta
Allison Keefer, Southern Company
Laura Midkiff, Georgia Power
Tina Sullivan, ERM



REPORT OF LABORATORY ANALYSIS

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

CERTIFICATIONS

Project: Plant Hammond-CCR Ash Pond-Revised Report

Pace Project No.: 92649594

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804

Florida/NELAP Certification #: E87648

North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40

South Carolina Laboratory ID: 99030

South Carolina Certification #: 99030001

Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners

110 Technology Pkwy, Peachtree Corners, GA 30092

Florida DOH Certification #: E87315

Georgia DW Inorganics Certification #: 812

North Carolina Certification #: 381

South Carolina Certification #: 98011001

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Plant Hammond-CCR Ash Pond-Revised Report
Pace Project No.: 92649594

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92649594001	HAM-AP2-Up	Water	01/30/23 12:25	01/31/23 14:24
92649594002	HAM-AP2-Mid	Water	01/30/23 12:05	01/31/23 14:24
92649594003	HAM-AP2-Down	Water	01/30/23 11:11	01/31/23 14:24

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Plant Hammond-CCR Ash Pond-Revised Report

Pace Project No.: 92649594

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92649594001	HAM-AP2-Up	EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	CW1	2	PASI-GA
		SM 2540C-2015	DL1	1	PASI-GA
		SM 2320B-2011	SMS	3	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
92649594002	HAM-AP2-Mid	EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	CW1	2	PASI-GA
		SM 2540C-2015	DL1	1	PASI-GA
		SM 2320B-2011	SMS	3	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
92649594003	HAM-AP2-Down	EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	CW1	2	PASI-GA
		SM 2540C-2015	DL1	1	PASI-GA
		SM 2320B-2011	SMS	3	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A

PASI-A = Pace Analytical Services - Asheville

PASI-GA = Pace Analytical Services - Peachtree Corners, GA

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: Plant Hammond-CCR Ash Pond-Revised Report

Pace Project No.: 92649594

Date: February 14, 2023

Georgia Power EQulS Database Manager requested Pace Project Manager correct to each Sample ID from:

"AP2 Up" to "HAM-AP2-UP"

"AP2 Mid" to "HAM-AP2-MID"

"AP2 Down" to "HAM-AP2-DOWN"

These updates ensure the sample nomenclature is followed on final PDF and EDD for successful upload of laboratory data into the Georgia Power EQulS database.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Hammond-CCR Ash Pond-Revised Report
Pace Project No.: 92649594

Sample: HAM-AP2-Up	Lab ID: 92649594001	Collected: 01/30/23 12:25	Received: 01/31/23 14:24	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Peachtree Corners, GA								
Potassium	2.2	mg/L	0.20	1	02/02/23 12:14	02/07/23 14:30	7440-09-7	
Sodium	1.6	mg/L	1.0	1	02/02/23 12:14	02/07/23 14:30	7440-23-5	
Calcium	17.4	mg/L	1.0	1	02/02/23 12:14	02/07/23 14:30	7440-70-2	
Magnesium	2.6	mg/L	0.050	1	02/02/23 12:14	02/07/23 14:30	7439-95-4	
6020 MET ICPMS								
Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Pace Analytical Services - Peachtree Corners, GA								
Boron	ND	mg/L	0.040	1	02/01/23 10:17	02/01/23 19:18	7440-42-8	
Cobalt	ND	mg/L	0.0050	1	02/01/23 10:17	02/01/23 19:18	7440-48-4	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C-2015								
Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	75.0	mg/L	25.0	1		02/02/23 19:20		
2320B Alkalinity								
Analytical Method: SM 2320B-2011								
Pace Analytical Services - Asheville								
Alkalinity, Bicarbonate (CaCO ₃)	45.7	mg/L	5.0	1		02/01/23 12:08		
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	5.0	1		02/01/23 12:08		
Alkalinity, Total as CaCO ₃	45.7	mg/L	5.0	1		02/01/23 12:08		
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0 Rev 2.1 1993								
Pace Analytical Services - Asheville								
Chloride	1.1	mg/L	1.0	1		02/02/23 16:44	16887-00-6	
Fluoride	ND	mg/L	0.10	1		02/02/23 16:44	16984-48-8	
Sulfate	6.3	mg/L	1.0	1		02/02/23 16:44	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Hammond-CCR Ash Pond-Revised Report
Pace Project No.: 92649594

Sample: HAM-AP2-Mid	Lab ID: 92649594002	Collected: 01/30/23 12:05	Received: 01/31/23 14:24	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Peachtree Corners, GA								
Potassium	1.4	mg/L	0.20	1	02/02/23 12:14	02/07/23 14:35	7440-09-7	
Sodium	1.5	mg/L	1.0	1	02/02/23 12:14	02/07/23 14:35	7440-23-5	
Calcium	15.4	mg/L	1.0	1	02/02/23 12:14	02/07/23 14:35	7440-70-2	
Magnesium	2.0	mg/L	0.050	1	02/02/23 12:14	02/07/23 14:35	7439-95-4	
6020 MET ICPMS								
Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Pace Analytical Services - Peachtree Corners, GA								
Boron	ND	mg/L	0.040	1	02/01/23 10:17	02/01/23 19:36	7440-42-8	
Cobalt	ND	mg/L	0.0050	1	02/01/23 10:17	02/01/23 19:36	7440-48-4	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C-2015								
Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	76.0	mg/L	25.0	1		02/02/23 19:20		
2320B Alkalinity								
Analytical Method: SM 2320B-2011								
Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	41.4	mg/L	5.0	1		02/01/23 12:28		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1		02/01/23 12:28		
Alkalinity, Total as CaCO3	41.4	mg/L	5.0	1		02/01/23 12:28		
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0 Rev 2.1 1993								
Pace Analytical Services - Asheville								
Chloride	1.3	mg/L	1.0	1		02/02/23 17:09	16887-00-6	
Fluoride	ND	mg/L	0.10	1		02/02/23 17:09	16984-48-8	
Sulfate	7.3	mg/L	1.0	1		02/02/23 17:09	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Hammond-CCR Ash Pond-Revised Report
Pace Project No.: 92649594

Sample: HAM-AP2-Down		Lab ID: 92649594003		Collected: 01/30/23 11:11		Received: 01/31/23 14:24		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Potassium	1.5	mg/L	0.20	1	02/02/23 12:14	02/07/23 14:39	7440-09-7		
Sodium	1.5	mg/L	1.0	1	02/02/23 12:14	02/07/23 14:39	7440-23-5		
Calcium	14.7	mg/L	1.0	1	02/02/23 12:14	02/07/23 14:39	7440-70-2		
Magnesium	2.1	mg/L	0.050	1	02/02/23 12:14	02/07/23 14:39	7439-95-4		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Boron	ND	mg/L	0.040	1	02/01/23 10:17	02/01/23 19:42	7440-42-8		
Cobalt	ND	mg/L	0.0050	1	02/01/23 10:17	02/01/23 19:42	7440-48-4		
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	96.0	mg/L	25.0	1		02/02/23 19:20			
2320B Alkalinity									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO ₃)	38.8	mg/L	5.0	1		02/01/23 12:48			
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	5.0	1		02/01/23 12:48			
Alkalinity, Total as CaCO ₃	38.8	mg/L	5.0	1		02/01/23 12:48			
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	1.2	mg/L	1.0	1		02/02/23 18:26	16887-00-6		
Fluoride	ND	mg/L	0.10	1		02/02/23 18:26	16984-48-8	M1	
Sulfate	7.0	mg/L	1.0	1		02/02/23 18:26	14808-79-8		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Hammond-CCR Ash Pond-Revised Report
Pace Project No.: 92649594

QC Batch: 753463 Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92649594001, 92649594002, 92649594003

METHOD BLANK: 3914676 Matrix: Water
Associated Lab Samples: 92649594001, 92649594002, 92649594003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	02/07/23 14:20	
Magnesium	mg/L	ND	0.050	02/07/23 14:20	
Potassium	mg/L	ND	0.20	02/07/23 14:20	
Sodium	mg/L	ND	1.0	02/07/23 14:20	

LABORATORY CONTROL SAMPLE: 3914677

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	.96J	96	80-120	
Magnesium	mg/L	1	0.98	98	80-120	
Potassium	mg/L	1	1.1	107	80-120	
Sodium	mg/L	1	1.0	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3914678 3914679

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92649600001 Result	Spike Conc.	Spike Conc.	Result						
Calcium	mg/L	10.5	1	1	12.1	11.4	154	87	75-125	6	20 M1
Magnesium	mg/L	2.8	1	1	3.8	3.7	100	82	75-125	5	20
Potassium	mg/L	2.8	1	1	3.4	3.4	61	60	75-125	0	20 M1
Sodium	mg/L	ND	1	1	5.3	4.9J	137	105	75-125		20 M1

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Hammond-CCR Ash Pond-Revised Report

Pace Project No.: 92649594

QC Batch:	753097	Analysis Method:	EPA 6020B
QC Batch Method:	EPA 3005A	Analysis Description:	6020 MET
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92649594001, 92649594002, 92649594003

METHOD BLANK: 3912787 Matrix: Water

Associated Lab Samples: 92649594001, 92649594002, 92649594003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Boron	mg/L	ND	0.040	02/01/23 17:13	
Cobalt	mg/L	ND	0.0050	02/01/23 17:13	

LABORATORY CONTROL SAMPLE: 3912788

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	mg/L	1	1.0	101	80-120	
Cobalt	mg/L	0.1	0.094	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3912789 3912790

Parameter	Units	92649067001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron	mg/L	ND	1	1	1.0	1.0	103	102	75-125	1	20	
Cobalt	mg/L	ND	0.1	0.1	0.10	0.10	101	98	75-125	3	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Hammond-CCR Ash Pond-Revised Report

Pace Project No.: 92649594

QC Batch:	753439	Analysis Method:	SM 2540C-2015
QC Batch Method:	SM 2540C-2015	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92649594001, 92649594002, 92649594003

METHOD BLANK: 3914561 Matrix: Water

Associated Lab Samples: 92649594001, 92649594002, 92649594003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	02/02/23 19:13	

LABORATORY CONTROL SAMPLE: 3914562

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	427	107	80-120	

SAMPLE DUPLICATE: 3914563

Parameter	Units	92649377017 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	188	204	8	10	

SAMPLE DUPLICATE: 3914564

Parameter	Units	92649235025 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	433	458	6	10	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Hammond-CCR Ash Pond-Revised Report
Pace Project No.: 92649594

QC Batch: 753106 Analysis Method: SM 2320B-2011
QC Batch Method: SM 2320B-2011 Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92649594001, 92649594002, 92649594003

METHOD BLANK: 3912854 Matrix: Water
Associated Lab Samples: 92649594001, 92649594002, 92649594003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	02/01/23 11:49	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	02/01/23 11:49	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	02/01/23 11:49	

LABORATORY CONTROL SAMPLE: 3912855

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	49.4	99	80-120	

LABORATORY CONTROL SAMPLE: 3912856

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	48.8	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3912857 3912858

Parameter	Units	3912857		3912858		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92649594001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Alkalinity, Total as CaCO3	mg/L	45.7	50	50	94.7	98.3	98	105	80-120	4	25

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3912859 3912860

Parameter	Units	3912859		3912860		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92649594002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Alkalinity, Total as CaCO3	mg/L	41.4	50	50	91.0	92.4	99	102	80-120	2	25

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Hammond-CCR Ash Pond-Revised Report

Pace Project No.: 92649594

QC Batch: 753289 Analysis Method: EPA 300.0 Rev 2.1 1993
 QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
 Laboratory: Pace Analytical Services - Asheville
 Associated Lab Samples: 92649594001, 92649594002, 92649594003

METHOD BLANK: 3913938 Matrix: Water
 Associated Lab Samples: 92649594001, 92649594002, 92649594003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	02/02/23 11:08	
Fluoride	mg/L	ND	0.10	02/02/23 11:08	
Sulfate	mg/L	ND	1.0	02/02/23 11:08	

LABORATORY CONTROL SAMPLE: 3913939

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	54.2	108	90-110	
Fluoride	mg/L	2.5	2.7	108	90-110	
Sulfate	mg/L	50	53.0	106	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3913940 3913941

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92649318006 Result	Spike Conc.	Spike Conc.	Conc.								
Chloride	mg/L	ND	50	50	50	53.2	54.3	106	109	90-110	2	10	
Fluoride	mg/L	ND	2.5	2.5	2.5	2.7	2.7	107	107	90-110	0	10	
Sulfate	mg/L	ND	50	50	50	52.1	53.1	104	106	90-110	2	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3913942 3913943

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92649594003 Result	Spike Conc.	Spike Conc.	Conc.								
Chloride	mg/L	1.2	50	50	50	55.0	54.8	108	107	90-110	0	10	
Fluoride	mg/L	ND	2.5	2.5	2.5	2.8	2.8	111	110	90-110	0	10 M1	
Sulfate	mg/L	7.0	50	50	50	60.8	60.5	108	107	90-110	0	10	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Plant Hammond-CCR Ash Pond-Revised Report

Pace Project No.: 92649594

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Hammond-CCR Ash Pond-Revised Report
Pace Project No.: 92649594

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92649594001	HAM-AP2-Up	EPA 3010A	753463	EPA 6010D	753528
92649594002	HAM-AP2-Mid	EPA 3010A	753463	EPA 6010D	753528
92649594003	HAM-AP2-Down	EPA 3010A	753463	EPA 6010D	753528
92649594001	HAM-AP2-Up	EPA 3005A	753097	EPA 6020B	753234
92649594002	HAM-AP2-Mid	EPA 3005A	753097	EPA 6020B	753234
92649594003	HAM-AP2-Down	EPA 3005A	753097	EPA 6020B	753234
92649594001	HAM-AP2-Up	SM 2540C-2015	753439		
92649594002	HAM-AP2-Mid	SM 2540C-2015	753439		
92649594003	HAM-AP2-Down	SM 2540C-2015	753439		
92649594001	HAM-AP2-Up	SM 2320B-2011	753106		
92649594002	HAM-AP2-Mid	SM 2320B-2011	753106		
92649594003	HAM-AP2-Down	SM 2320B-2011	753106		
92649594001	HAM-AP2-Up	EPA 300.0 Rev 2.1 1993	753289		
92649594002	HAM-AP2-Mid	EPA 300.0 Rev 2.1 1993	753289		
92649594003	HAM-AP2-Down	EPA 300.0 Rev 2.1 1993	753289		

REPORT OF LABORATORY ANALYSIS

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DC#_ Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name: Arcadis

Project #:

WO#: 92649594

PM: MP Due Date: 02/08/23

CLIENT: GA-ArcadAtI

Courier: Fed Ex UPS USPS Client Commercial Pace Other: _____

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: 1/31/23 [initials]

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen?

Yes No N/A

Thermometer:

IR Gun ID: 214

Type of Ice: Wet Blue None

Cooler Temp: 5.1

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

Temp should be above freezing to 6°C

Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 5.2

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? Yes No

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

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____



DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Project #

WO#: 92649594

PM: MP

Due Date: 02/08/23

CLIENT: GA-ArcadAtI

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KPTU-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)		
1			2			1																							
2			2			1																							
3						1																							
4			2			1																							
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples

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

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

February 14, 2023

Kelley Sharpe
ARCADIS - Atlanta
2839 Paces Ferry Rd
STE 900
Atlanta, GA 30339

RE: Project: Plant Hammond-CCR Ash Pond-Revised Report
Pace Project No.: 92649600

Dear Kelley Sharpe:

Enclosed are the analytical results for sample(s) received by the laboratory on January 31, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

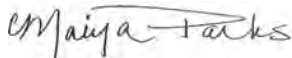
The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Asheville
- Pace Analytical Services - Peachtree Corners, GA

Rev. 1 - This replaces the February 8, 2023 final report, see Project Narrative.

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

Sincerely,



Maiya Parks
maiya.parks@pacelabs.com
(770)734-4200
Project Manager

Enclosures

cc: Ben Hodges, Georgia Power
Warren Johnson, ARCADIS - Atlanta
Allison Keefer, Southern Company
Laura Midkiff, Georgia Power
Tina Sullivan, ERM



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Plant Hammond-CCR Ash Pond-Revised Report

Pace Project No.: 92649600

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804

Florida/NELAP Certification #: E87648

North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40

South Carolina Laboratory ID: 99030

South Carolina Certification #: 99030001

Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners

110 Technology Pkwy, Peachtree Corners, GA 30092

Florida DOH Certification #: E87315

Georgia DW Inorganics Certification #: 812

North Carolina Certification #: 381

South Carolina Certification #: 98011001

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Plant Hammond-CCR Ash Pond-Revised Report

Pace Project No.: 92649600

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92649600001	HAM-H+0.25	Water	01/30/23 11:30	01/31/23 14:24
92649600002	HAM-H+0.35	Water	01/30/23 11:20	01/31/23 14:24
92649600003	HAM-H+0.75	Water	01/30/23 11:00	01/31/23 14:24

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Plant Hammond-CCR Ash Pond-Revised Report
Pace Project No.: 92649600

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92649600001	HAM-H+0.25	EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	CW1	2	PASI-GA
		SM 2540C-2015	DL1	1	PASI-GA
		SM 2320B-2011	SMS	3	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
92649600002	HAM-H+0.35	EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	CW1	2	PASI-GA
		SM 2540C-2015	DL1	1	PASI-GA
		SM 2320B-2011	SMS	3	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
92649600003	HAM-H+0.75	EPA 6010D	DRB	4	PASI-GA
		EPA 6020B	CW1	2	PASI-GA
		SM 2540C-2015	DL1	1	PASI-GA
		SM 2320B-2011	SMS	3	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A

PASI-A = Pace Analytical Services - Asheville

PASI-GA = Pace Analytical Services - Peachtree Corners, GA

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PROJECT NARRATIVE

Project: Plant Hammond-CCR Ash Pond-Revised Report

Pace Project No.: 92649600

Date: February 14, 2023

Georgia Power EQUIS Database Manager requested Pace Project Manager add "HAM-" to each Sample ID.

These updates ensure the sample nomenclature is followed on final PDF and EDD for successful upload of laboratory data into the Georgia Power EQUIS database.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Hammond-CCR Ash Pond-Revised Report
Pace Project No.: 92649600

Sample: HAM-H+0.25	Lab ID: 92649600001	Collected: 01/30/23 11:30	Received: 01/31/23 14:24	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Peachtree Corners, GA								
Potassium	2.8	mg/L	1.0	5	02/02/23 12:14	02/07/23 14:44	7440-09-7	M1
Sodium	ND	mg/L	5.0	5	02/02/23 12:14	02/07/23 14:44	7440-23-5	M1
Calcium	10.5	mg/L	5.0	5	02/02/23 12:14	02/07/23 14:44	7440-70-2	M1
Magnesium	2.8	mg/L	0.25	5	02/02/23 12:14	02/07/23 14:44	7439-95-4	
6020 MET ICPMS								
Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Pace Analytical Services - Peachtree Corners, GA								
Boron	ND	mg/L	0.040	1	02/01/23 10:17	02/01/23 19:48	7440-42-8	
Cobalt	ND	mg/L	0.0050	1	02/01/23 10:17	02/01/23 19:48	7440-48-4	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C-2015								
Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	135	mg/L	25.0	1		02/02/23 19:20		
2320B Alkalinity								
Analytical Method: SM 2320B-2011								
Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	33.1	mg/L	5.0	1		02/01/23 13:04		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	1		02/01/23 13:04		
Alkalinity, Total as CaCO3	33.1	mg/L	5.0	1		02/01/23 13:04		
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0 Rev 2.1 1993								
Pace Analytical Services - Asheville								
Chloride	4.4	mg/L	1.0	1		02/02/23 19:42	16887-00-6	
Fluoride	ND	mg/L	0.10	1		02/02/23 19:42	16984-48-8	
Sulfate	5.8	mg/L	1.0	1		02/02/23 19:42	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Hammond-CCR Ash Pond-Revised Report

Pace Project No.: 92649600

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Sample: HAM-H+0.35								
Lab ID: 92649600002								
Collected: 01/30/23 11:20 Received: 01/31/23 14:24 Matrix: Water								
6010D ATL ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Peachtree Corners, GA								
Potassium	1.9	mg/L	0.20	1	02/02/23 12:14	02/07/23 15:03	7440-09-7	
Sodium	4.1	mg/L	1.0	1	02/02/23 12:14	02/07/23 15:03	7440-23-5	
Calcium	10.8	mg/L	1.0	1	02/02/23 12:14	02/07/23 15:03	7440-70-2	
Magnesium	2.7	mg/L	0.050	1	02/02/23 12:14	02/07/23 15:03	7439-95-4	
6020 MET ICPMS								
Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Pace Analytical Services - Peachtree Corners, GA								
Boron	ND	mg/L	0.040	1	02/01/23 10:17	02/01/23 19:54	7440-42-8	
Cobalt	ND	mg/L	0.0050	1	02/01/23 10:17	02/01/23 19:54	7440-48-4	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C-2015								
Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	57.0	mg/L	25.0	1		02/02/23 19:20		
2320B Alkalinity								
Analytical Method: SM 2320B-2011								
Pace Analytical Services - Asheville								
Alkalinity, Bicarbonate (CaCO ₃)	33.4	mg/L	5.0	1		02/01/23 13:11		
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	5.0	1		02/01/23 13:11		
Alkalinity, Total as CaCO ₃	33.4	mg/L	5.0	1		02/01/23 13:11		
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0 Rev 2.1 1993								
Pace Analytical Services - Asheville								
Chloride	4.3	mg/L	1.0	1		02/02/23 20:08	16887-00-6	
Fluoride	ND	mg/L	0.10	1		02/02/23 20:08	16984-48-8	
Sulfate	5.8	mg/L	1.0	1		02/02/23 20:08	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Hammond-CCR Ash Pond-Revised Report
Pace Project No.: 92649600

Sample: HAM-H+0.75	Lab ID: 92649600003	Collected: 01/30/23 11:00	Received: 01/31/23 14:24	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Peachtree Corners, GA								
Potassium	1.9	mg/L	0.20	1	02/02/23 12:14	02/07/23 15:33	7440-09-7	
Sodium	4.5	mg/L	1.0	1	02/02/23 12:14	02/07/23 15:33	7440-23-5	
Calcium	10.3	mg/L	1.0	1	02/02/23 12:14	02/07/23 15:33	7440-70-2	
Magnesium	2.6	mg/L	0.050	1	02/02/23 12:14	02/07/23 15:33	7439-95-4	
6020 MET ICPMS								
Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Pace Analytical Services - Peachtree Corners, GA								
Boron	ND	mg/L	0.040	1	02/01/23 10:17	02/01/23 20:00	7440-42-8	
Cobalt	ND	mg/L	0.0050	1	02/01/23 10:17	02/01/23 20:00	7440-48-4	
2540C Total Dissolved Solids								
Analytical Method: SM 2540C-2015								
Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	166	mg/L	25.0	1		02/02/23 19:20		
2320B Alkalinity								
Analytical Method: SM 2320B-2011								
Pace Analytical Services - Asheville								
Alkalinity, Bicarbonate (CaCO ₃)	33.6	mg/L	5.0	1		02/01/23 13:17		
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	5.0	1		02/01/23 13:17		
Alkalinity, Total as CaCO ₃	33.6	mg/L	5.0	1		02/01/23 13:17		
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0 Rev 2.1 1993								
Pace Analytical Services - Asheville								
Chloride	4.3	mg/L	1.0	1		02/02/23 20:33	16887-00-6	
Fluoride	ND	mg/L	0.10	1		02/02/23 20:33	16984-48-8	
Sulfate	6.7	mg/L	1.0	1		02/02/23 20:33	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Hammond-CCR Ash Pond-Revised Report
Pace Project No.: 92649600

QC Batch: 753463 Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92649600001, 92649600002, 92649600003

METHOD BLANK: 3914676 Matrix: Water
Associated Lab Samples: 92649600001, 92649600002, 92649600003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	02/07/23 14:20	
Magnesium	mg/L	ND	0.050	02/07/23 14:20	
Potassium	mg/L	ND	0.20	02/07/23 14:20	
Sodium	mg/L	ND	1.0	02/07/23 14:20	

LABORATORY CONTROL SAMPLE: 3914677

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	.96J	96	80-120	
Magnesium	mg/L	1	0.98	98	80-120	
Potassium	mg/L	1	1.1	107	80-120	
Sodium	mg/L	1	1.0	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3914678 3914679

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92649600001 Result	Spike Conc.	Spike Conc.	Result						
Calcium	mg/L	10.5	1	1	12.1	11.4	154	87	75-125	6	20 M1
Magnesium	mg/L	2.8	1	1	3.8	3.7	100	82	75-125	5	20
Potassium	mg/L	2.8	1	1	3.4	3.4	61	60	75-125	0	20 M1
Sodium	mg/L	ND	1	1	5.3	4.9J	137	105	75-125		20 M1

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Hammond-CCR Ash Pond-Revised Report

Pace Project No.: 92649600

QC Batch: 753097 Analysis Method: EPA 6020B
 QC Batch Method: EPA 3005A Analysis Description: 6020 MET
 Laboratory: Pace Analytical Services - Peachtree Corners, GA
 Associated Lab Samples: 92649600001, 92649600002, 92649600003

METHOD BLANK: 3912787 Matrix: Water

Associated Lab Samples: 92649600001, 92649600002, 92649600003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Boron	mg/L	ND	0.040	02/01/23 17:13	
Cobalt	mg/L	ND	0.0050	02/01/23 17:13	

LABORATORY CONTROL SAMPLE: 3912788

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	mg/L	1	1.0	101	80-120	
Cobalt	mg/L	0.1	0.094	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3912789 3912790

Parameter	Units	92649067001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron	mg/L	ND	1	1	1.0	1.0	103	102	75-125	1	20	
Cobalt	mg/L	ND	0.1	0.1	0.10	0.10	101	98	75-125	3	20	

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QUALITY CONTROL DATA

Project: Plant Hammond-CCR Ash Pond-Revised Report

Pace Project No.: 92649600

QC Batch:	753439	Analysis Method:	SM 2540C-2015
QC Batch Method:	SM 2540C-2015	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92649600001, 92649600002, 92649600003

METHOD BLANK: 3914561 Matrix: Water

Associated Lab Samples: 92649600001, 92649600002, 92649600003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	02/02/23 19:13	

LABORATORY CONTROL SAMPLE: 3914562

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	427	107	80-120	

SAMPLE DUPLICATE: 3914563

Parameter	Units	92649377017 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	188	204	8	10	

SAMPLE DUPLICATE: 3914564

Parameter	Units	92649235025 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	433	458	6	10	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Hammond-CCR Ash Pond-Revised Report
Pace Project No.: 92649600

QC Batch: 753106 Analysis Method: SM 2320B-2011
QC Batch Method: SM 2320B-2011 Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92649600001, 92649600002, 92649600003

METHOD BLANK: 3912854 Matrix: Water
Associated Lab Samples: 92649600001, 92649600002, 92649600003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	02/01/23 11:49	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	02/01/23 11:49	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	02/01/23 11:49	

LABORATORY CONTROL SAMPLE: 3912855

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	49.4	99	80-120	

LABORATORY CONTROL SAMPLE: 3912856

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	48.8	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3912857 3912858

Parameter	Units	3912857		3912858		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92649594001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Alkalinity, Total as CaCO3	mg/L	45.7	50	50	94.7	98.3	98	105	80-120	4	25

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3912859 3912860

Parameter	Units	3912859		3912860		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92649594002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Alkalinity, Total as CaCO3	mg/L	41.4	50	50	91.0	92.4	99	102	80-120	2	25

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QUALITY CONTROL DATA

Project: Plant Hammond-CCR Ash Pond-Revised Report

Pace Project No.: 92649600

QC Batch: 753289 Analysis Method: EPA 300.0 Rev 2.1 1993
 QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
 Laboratory: Pace Analytical Services - Asheville
 Associated Lab Samples: 92649600001, 92649600002, 92649600003

METHOD BLANK: 3913938 Matrix: Water
 Associated Lab Samples: 92649600001, 92649600002, 92649600003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	02/02/23 11:08	
Fluoride	mg/L	ND	0.10	02/02/23 11:08	
Sulfate	mg/L	ND	1.0	02/02/23 11:08	

LABORATORY CONTROL SAMPLE: 3913939

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	54.2	108	90-110	
Fluoride	mg/L	2.5	2.7	108	90-110	
Sulfate	mg/L	50	53.0	106	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3913940 3913941

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92649318006	Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	ND	50	50	50	53.2	54.3	106	109	90-110	2	10	
Fluoride	mg/L	ND	2.5	2.5	2.5	2.7	2.7	107	107	90-110	0	10	
Sulfate	mg/L	ND	50	50	50	52.1	53.1	104	106	90-110	2	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3913942 3913943

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92649594003	Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	1.2	50	50	50	55.0	54.8	108	107	90-110	0	10	
Fluoride	mg/L	ND	2.5	2.5	2.5	2.8	2.8	111	110	90-110	0	10 M1	
Sulfate	mg/L	7.0	50	50	50	60.8	60.5	108	107	90-110	0	10	

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QUALIFIERS

Project: Plant Hammond-CCR Ash Pond-Revised Report

Pace Project No.: 92649600

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Hammond-CCR Ash Pond-Revised Report
Pace Project No.: 92649600

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92649600001	HAM-H+0.25	EPA 3010A	753463	EPA 6010D	753528
92649600002	HAM-H+0.35	EPA 3010A	753463	EPA 6010D	753528
92649600003	HAM-H+0.75	EPA 3010A	753463	EPA 6010D	753528
92649600001	HAM-H+0.25	EPA 3005A	753097	EPA 6020B	753234
92649600002	HAM-H+0.35	EPA 3005A	753097	EPA 6020B	753234
92649600003	HAM-H+0.75	EPA 3005A	753097	EPA 6020B	753234
92649600001	HAM-H+0.25	SM 2540C-2015	753439		
92649600002	HAM-H+0.35	SM 2540C-2015	753439		
92649600003	HAM-H+0.75	SM 2540C-2015	753439		
92649600001	HAM-H+0.25	SM 2320B-2011	753106		
92649600002	HAM-H+0.35	SM 2320B-2011	753106		
92649600003	HAM-H+0.75	SM 2320B-2011	753106		
92649600001	HAM-H+0.25	EPA 300.0 Rev 2.1 1993	753289		
92649600002	HAM-H+0.35	EPA 300.0 Rev 2.1 1993	753289		
92649600003	HAM-H+0.75	EPA 300.0 Rev 2.1 1993	753289		

REPORT OF LABORATORY ANALYSIS

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DC#_ Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition
Upon Receipt

Client Name:

Arcadis

Project #:

WO#: 92649600

PM: MP

Due Date: 02/08/23

CLIENT: GA-ArcadAt1

Courier: Fed Ex UPS USPS Client
 Commercial Pace Other: _____

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: *11/31/23*
MP

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen?

Yes No N/A

Thermometer:

IR Gun ID:

214

Type of Ice:

Wet Blue None

Cooler Temp:

5.1

Correction Factor:

Add/Subtract (°C)

+0.1

Temp should be above freezing to 6°C

Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C):

5.2

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? Yes No

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

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____

Date/Time: _____

Project Manager SCURF Review: _____

Date: _____

Project Manager SRF Review: _____

Date: _____



DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

WO# : 92649600

Project #

PM: MP

Due Date: 02/08/23

CLIENT: GA-ArcadAt1

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP2N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)		
1			2			1																							
2			2			1																							
3			2			1																							
4																													
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples

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

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

VALIDATION REPORTS

Memorandum

Date: May 24, 2023
To: Whitney Law
From: Amani Royce
CC: K. Henderson
Subject: **Stage 2A Data Validation - Level II Data Deliverable – Pace Analytical Services, LLC Project Number 92648446**

SITE: Plant Hammond AP-1/ AP-2/ AP-3 (Pooled Upgradient)

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of five aqueous samples, collected 23 and 24 January 2023, as part of the Plant Hammond AP on-site sampling event.

The samples were analyzed at Pace Analytical Services Atlanta, Peachtree Corners, Georgia, for the following analytical tests:

- Calcium by United States Environmental Protection Agency (US EPA) Methods 3010A/6010D
- Metals by USEPA Methods 3005A/6020B
- Mercury by USEPA Method 7470A
- Total Dissolved Solids (TDS) by Standard Method 2540C

The samples were analyzed at Pace Analytical Services Asheville, North Carolina, for the following analytical test:

- Anions (Chloride, Fluoride and Sulfate) by USEPA Method 300.0

EXECUTIVE SUMMARY

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below and based on the information provided, the data are usable for supporting project objectives.

The data were reviewed based on the pertinent methods referenced in the laboratory reports, professional and technical judgment, and the following documents:

- US EPA Region IV Data Validation Standard Operating Procedures (US EPA Region IV, September 2011);

- USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review, November 2020 (EPA 542-R-20-006); and
- American National Standard, Verification and Validation of Radiological Data for use in Waste Management and Environmental Remediation, February 15, 2012 (ANSI/ANS-41.5-2012).

The following samples were analyzed and reported in the laboratory reports:

Laboratory ID	Client ID
92648446001	HAM-HGWA-3
92648446002	HAM-HGWA-2
92648446003	HAM-HGWA-43D

Laboratory ID	Client ID
92648446004	HAM-HGWA-44D
92648446005	HAM-HGWA-1

The samples were received within 0-6 degrees Celsius (°C). No sample preservation issues were noted by the laboratory.

The sample collection time was not listed on the chain of custody (COC) for sample HAM-HGWA-1. The laboratory assigned collection times of 9:35.

The laboratory report revised on 5 May 2023 was used for data validation.

The results flagged as “ND” in the electronic data deliverable (EDD) were changed to U.

The field pH data included in the laboratory report were not validated.

1.0 METALS

The samples were analyzed for metals by USEPA methods 3010A/6010D and USEPA methods 3005A/6020B. (Mercury was evaluated separately in Section 2.0, below).

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Time
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Equipment Blank
- ✓ Field Blank
- ✓ Field Duplicate

- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

1.1 Overall Assessment

The metals data reported in this data set are considered usable for supporting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

1.2 Holding Time

The holding time for the metals analysis of a water sample is 180 days from sample collection to analysis. The holding times were met for the sample analyses.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Four method blanks were reported (batches 752651, 752956, 752599, and 753097). Metals were not detected in the method blanks above the method detection limits (MDLs).

1.4 Matrix Spike/Matrix Spike Duplicate (MS/MSD)

MS/MSDs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples).

One sample set specific MS/MSD pair was reported for calcium by US EPA method, using sample HAM-HGWA-3. The relative percent difference (RPD) result was within the laboratory specified acceptance criteria, and the recoveries of calcium in the MS/MSD pair using sample HAM-HGWA-3 were low and outside of the laboratory specified acceptance criteria. Since the calcium concentration in sample HAM-HGWA-3 was greater than four times the spike concentration, no qualifications were applied to the data.

One batch MS/MSD pair was reported for calcium. Since this was batch QC, the result does not affect the samples in this data set and qualifications were not applied to the data.

One sample set specific MS/MSD pair was reported for metals by US EPA method 6020B, using sample HAM-HGWA-3. The recovery and RPD results were within the laboratory specified acceptance criteria.

One batch MS/MSD pair was reported for metals by US EPA method 6020B. Since this was batch QC, the result does not affect the samples in this data set and qualifications were not applied to the data.

1.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Four LCSs were reported. The recovery results were within the laboratory specified acceptance criteria.

1.6 Equipment Blank

An equipment blank was not collected with the sample set.

1.7 Field Blank

A field blank was not collected with the sample set.

1.8 Field Duplicate

A field duplicate sample was not collected with the sample set.

1.9 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were not reported.

1.10 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

2.0 MERCURY

The samples were analyzed for mercury by USEPA method 7470A.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Time

- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Equipment Blank
- ✓ Field Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

2.1 Overall Assessment

The mercury data reported in this data set are considered usable for supporting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

2.2 Holding Time

The holding time for mercury analysis of a water sample is 28 days from sample collection to analysis. The holding times were met for the sample analyses.

2.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 752854). Mercury was not detected in the method blank above the MDL.

2.4 Matrix Spike/Matrix Spike Duplicate

MS/MSDs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples).

One batch MS/MSD pair was reported. Since this was batch QC, the result does not affect the samples in this data set and qualifications were not applied to the data.

2.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery result was within the laboratory specified acceptance criteria.

2.6 Equipment Blank

An equipment blank was not collected with the sample set.

2.7 Field Blank

A field blank was not collected with the sample set.

2.8 Field Duplicate

A field duplicate sample was not collected with the sample set.

2.9 Sensitivity

The samples were reported to the MDL. No elevated non-detect results were reported.

2.10 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

3.0 WET CHEMISTRY

The samples were analyzed for TDS by Standard method 2540C and anions by USEPA method 300.0.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Equipment Blank
- ✓ Field Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

3.1 Overall Assessment

The wet chemistry data reported in this data set are considered usable for supporting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for these analyses, for this data set is 100%.

3.2 Holding Times

The holding time for the TDS analysis of a water sample is 7 days from sample collection to analysis. The holding time for the anions (chloride, fluoride, and sulfate) analysis of a water sample is 28 days from sample collection to analysis. The holding times were met for the sample analyses.

3.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported for TDS (batch 752254) and three method blanks were reported for the anions (batches 751618, 752456, and 752690). The wet chemistry parameters were not detected in the method blanks above the MDLs.

3.4 Matrix Spike/Matrix Spike Duplicate

MS/MSDs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples).

Six batch MS/MSD pairs were reported for the anions. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

3.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported for TDS and three LCSs were reported for the anions. The recovery results were within the laboratory specified acceptance criteria.

3.6 Laboratory Duplicate

Two batch laboratory duplicates were reported for TDS. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

3.7 Equipment Blank

An equipment blank was not collected with the sample set.

3.8 Field Blank

A field blank was not collected with the sample set.

3.9 Field Duplicate

A field duplicate sample was not collected with the sample set.

3.10 Sensitivity

The samples were reported to the MDLs for the anions and the reporting limit (RL) for TDS. No elevated non-detect results were reported.

3.11 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

* * * * *

ATTACHMENT 1
DATA VALIDATION QUALIFIER DEFINITIONS
AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team

DATA QUALIFIER DEFINITIONS

- U The analyte was analyzed for but was not detected above the reported sample quantitation limit. Upon application of the U qualifier to a reported result, the definition changes to “not detected at or above the reported result”.

- J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

- J+ The analyte was positively identified; however, the associated numerical value is likely to be higher than the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.

- J- The analyte was positively identified; however, the associated numerical value is likely to be lower than the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.

- UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

- R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec’s Data Validation Team

Valid Value	Description
1	Preservation requirement not met
2	Analysis holding time exceeded
3	Blank contamination (i.e., method, trip, equipment, etc.)
4	Matrix spike/matrix spike duplicate recovery or RPD outside limits
5	LCS or RPD recovery outside limits (LCS/LCSD)
6	Surrogate recovery outside limits
7	Field Duplicate RPD exceeded
8	Serial dilution percent difference exceeded
9	Calibration criteria not met
10	Linear range exceeded
11	Internal standard criteria not met
12	Lab duplicates RPD exceeded
13	Other
14	Lab flag removed or modified: no validation qualification required

LCS - Laboratory Control Sample
 LCSD - Laboratory Control Sample duplicate
 RPD - Relative percent difference

Memorandum

Date: June 13, 2023
To: Whitney Law
From: Amani Royce
CC: K. Henderson
Subject: **Stage 2A Data Validation - Level II Data Deliverable – Pace Analytical Services, LLC Project Number 92648448**

SITE: Plant Hammond AP-1/ AP-2/ AP-3 (Pooled Upgradient RADS)

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of five aqueous samples, collected 23 and 24 January 2023, as part of the Plant Hammond AP on-site sampling event.

The samples were analyzed at Pace Analytical Services, LLC, Greensburg, Pennsylvania, for the following analytical tests:

- Radium-226 by United States (US) Environmental Protection Agency (EPA) Method 9315
- Radium-228 by US EPA Method 9320
- Total Radium by Calculation

EXECUTIVE SUMMARY

Based on the Stage 2A data validation covering the quality control (QC) parameters listed below and the information provided, the data as qualified are usable for meeting project objectives.

The data were reviewed based on the pertinent methods referenced in the laboratory reports, professional and technical judgment, and the following documents:

- US EPA Region IV Data Validation Standard Operating Procedures (US EPA Region IV, September 2011);
- USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review, November 2020 (EPA 542-R-20-006); and
- American National Standard, Verification and Validation of Radiological Data for use in Waste Management and Environmental Remediation, February 15, 2012 (ANSI/ANS-41.5-2012).

The following samples were analyzed and reported in the laboratory reports:

Laboratory ID	Client ID
92648448001	HAM-HGWA-3
92648448002	HAM-HGWA-2
92648448003	HAM-HGWA-43D

Laboratory ID	Client ID
92648448004	HAM-HGWA-44D
92648448005	HAM-HGWA-1

The samples were received within 0-6 degrees Celsius (°C). No sample preservation issues were noted by the laboratory.

The sample collection time was not listed on the COC for sample HAM-HGWA-1. The laboratory assigned collection time of 9:35.

1.0 RADIOCHEMISTRY

The samples were analyzed for radium-226 by US EPA method 9315, radium-228 by US EPA method 9320 and total radium by calculation.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Tracers and Carriers
- ✓ Equipment Blank
- ✓ Field Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

1.1 Overall Assessment

The radium-226 and radium-228 data reported in this data set are considered usable for meeting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

1.2 Holding Times

The holding times for the radium-226 and radium-228 analyses of a water sample are 180 days from sample collection to analysis. The holding times were met for the sample analyses.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported for the radium-228 data (batch 567029). One method blank was reported for the radium-226 data (batch 567003). Radium-226 and radium-228 were not detected in the method blanks above the minimum detectable concentrations (MDCs).

1.4 Matrix Spike/Matrix Spike Duplicate (MS/MSD)

MS/MSD pairs were not reported with the data.

1.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS/LCS duplicate (LCSD) pair was reported for radium-226. One LCS was reported for radium-228. The recovery and replicate error ratio (RER) [1 sigma (1σ)] results were within the laboratory specified acceptance criteria.

1.6 Laboratory Duplicate

One batch laboratory duplicate was reported for radium-226 and one batch laboratory duplicate was reported for radium-228. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

1.7 Tracers and Carriers

Carriers were reported for the radium-226 and radium-228 analyses and a tracer was reported for the radium-228 analyses. The recovery results were within the laboratory specified acceptance criteria.

1.8 Equipment Blank

An equipment blank was not collected with the sample set.

1.9 Field Blank

A field blank was not collected with the sample set.

1.10 Field Duplicate

A field duplicate was not collected with the sample set.

1.11 Sensitivity

The samples were reported to the MDCs. No elevated non-detect results were reported.

1.12 Electronic Data Deliverable (EDD) Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

* * * * *

ATTACHMENT 1
DATA VALIDATION QUALIFIER DEFINITIONS
AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team

DATA QUALIFIER DEFINITIONS

- U The analyte was analyzed for but was not detected above the reported sample quantitation limit. Upon application of the U qualifier to a reported result, the definition changes to “not detected at or above the reported result.”
- J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- J+ The analyte was positively identified; however, the associated numerical value is likely to be higher than the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.
- J- The analyte was positively identified; however, the associated numerical value is likely to be lower than the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.
- UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec's Data Validation Team

Valid Value	Description
1	Preservation requirement not met
2	Analysis holding time exceeded
3	Blank contamination (i.e., method, trip, equipment, etc.)
4	Matrix spike/matrix spike duplicate recovery or RPD outside limits
5	LCS or RPD recovery outside limits (LCS/LCSD)
6	Surrogate recovery outside limits
7	Field Duplicate RPD exceeded
8	Serial dilution percent difference exceeded
9	Calibration criteria not met
10	Linear range exceeded
11	Internal standard criteria not met
12	Lab duplicates RPD exceeded
13	Other
14	Lab flag removed or modified: no validation qualification required

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample duplicate

RPD - Relative percent difference

Memorandum

Date: June 2, 2023
To: Whitney Law
From: Amani Royce
CC: K. Henderson
Subject: **Stage 2A Data Validation - Level II Data Deliverable – Pace Analytical Services, LLC Project Number 92648451**

SITE: Plant Hammond AP-2

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of eighteen aqueous samples, one field duplicate, one field blank, and one equipment blank, collected 23, 27, and 30 January 2023 and 1 February 2023, as part of the Plant Hammond AP on-site sampling event.

The samples were analyzed at Pace Analytical Services Atlanta, Peachtree Corners, Georgia, for the following analytical tests:

- Calcium by United States Environmental Protection Agency (US EPA) Methods 3010A/6010D
- Metals by USEPA Methods 3005A/6020B
- Mercury by USEPA Method 7470A
- Total Dissolved Solids (TDS) by Standard Method (SM) 2540C

The samples were analyzed at Pace Analytical Services Asheville, North Carolina, for the following analytical test:

- Anions (Chloride, Fluoride and Sulfate) by USEPA Method 300.0
- Alkalinity by SM Method 2320B
- Sulfide by SM Method 4500S2D

EXECUTIVE SUMMARY

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below and based on the information provided, the data as qualified are usable for supporting project objectives. The qualified data should be used within the limitations of the qualifications. If there are results with two or more different qualifications due to multiple QC failures, the final qualification is reconciled in the electronic data deliverable (EDD) with qualifications.

The data were reviewed based on the pertinent methods referenced in the laboratory reports, professional and technical judgment, and the following documents:

- US EPA Region IV Data Validation Standard Operating Procedures (US EPA Region IV, September 2011);
- USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review, November 2020 (EPA 542-R-20-006); and
- American National Standard, Verification and Validation of Radiological Data for use in Waste Management and Environmental Remediation, February 15, 2012 (ANSI/ANS-41.5-2012).

The following samples were analyzed and reported in the laboratory reports:

Laboratory ID	Client ID
92648451001	HAM-HGWA-4
92648451002	HAM-HGWA-42D
92648451003	HAM-HGWC-17
92648451004	HAM-MW-22
92648451005	HAM-MW-34D
92648451006	HAM-MW-37D
92648451007	HAM-HGWC-14
92648451008	HAM-HGWC-15
92648451009	HAM-HGWC-16
92648451010	HAM-HGWC-18
92648451011	HAM-MW-23D

Laboratory ID	Client ID
92648451012	HAM-MW-35
92648451013	HAM-MW-51
92648451014	HAM-AP-2-EB-02
92648451015	HAM-AP-2-FB-02
92648451016	HAM-AP-2-FD-02
92648451017	HAM-MW-52
92649378001	HAM-HGWA-5
92649378002	HAM-HGWA-6
92649378003	HAM-MW-21D
92649378004	HAM-MW-33

The samples were received within 0-6 degrees Celsius (°C). No sample preservation issues were noted by the laboratory.

Field duplicate sample HAM-AP-2-FD-02 was not listed on the chain of custody (COC). The laboratory assigned the collection date and time of 1 February 2023 0:00.

The final receipt signature, association, date, and time were not recorded on the COC for sample HAM-MW-52.

Calcium for sample HAM-MW-21D was reported by USEPA methods 3005A/6020B due to insufficient sample volume for additional analysis by USEPA methods 3010A/6010D.

The laboratory report revised on 27 April 2023 was used for data validation.

The results flagged as “ND” in the EDD were changed to U.

The field pH data included in the laboratory report were not validated.

1.0 METALS

The samples were analyzed for metals by USEPA methods 3010A/6010D and USEPA methods 3005A/6020B. (Mercury was evaluated separately in Section 2.0, below).

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ⊗ Overall Assessment
- ✓ Holding Time
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Equipment Blank
- ✓ Field Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

1.1 Overall Assessment

The metals data reported in this data set are considered usable for supporting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

The calcium concentration in sample HAM-MW-21D was E flagged by the laboratory to indicate the concentration exceeded the calibration range. Therefore, based on professional and technical judgment, the calcium concentration in sample HAM-MW-21D was J qualified as estimated.

Sample ID	Compound	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier*	Reason Code**
HAM-MW-21D	Calcium	281	E	281	J	10

mg/L-milligrams per liter

E - Laboratory flag indicating the value is outside the calibration range.

* Validation qualifiers are defined in Attachment 1 at the end of this report.

**Reason codes are defined in Attachment 2 at the end of this report.

1.2 Holding Time

The holding time for the metals analysis of a water sample is 180 days from sample collection to analysis. The holding times were met for the sample analyses.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Seven method blanks were reported (batches 752232, 762460, 755531, 752226, 753737, 756320, and 755827). Metals were not detected in the method blanks above the method detection limits (MDLs).

1.4 Matrix Spike/Matrix Spike Duplicate (MS/MSD)

MS/MSDs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples).

Two sample set specific MS/MSD pairs were reported for calcium by US EPA method 6010D, using samples HAM-HGWC-17 and HAM-MW-33. The relative percent difference (RPD) result was within the laboratory specified acceptance criteria, and the recoveries of calcium in the MS/MSD pair using samples HAM-HGWC-17 and HAM-MW-33 were high and outside of the laboratory specified acceptance criteria. Since the calcium concentrations in samples HAM-HGWC-17 and HAM-MW-33 were greater than four times the spike concentrations, no qualifications were applied to the data.

Two batch MS/MSD pairs were reported for calcium. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

Three sample set specific MS/MSD pairs were reported for metals by US EPA method 6020B, using samples HAM-HGWA-4, HAM-MW-22, and HAM-HGWC-14. The recovery and RPD results were within the laboratory specified acceptance criteria, with the following exceptions.

The recoveries of boron in the MS/MSD pair using sample HAM-HGWC-14 were low and outside of the laboratory specified acceptance criteria. Since the boron concentration in sample HAM-HGWC-14 was greater than four times the spike concentrations, no qualifications were applied to the data.

One batch MS/MSD pair was reported for metals by US EPA method 6020B. Since this was a batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

1.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Seven LCSs were reported. The recovery results were within the laboratory specified acceptance criteria.

1.6 Equipment Blank

One equipment blank was collected with the sample set, HAM-AP-2-EB-02. Metals were not detected in the equipment blank above the MDLs.

1.7 Field Blank

One field blank was collected with the sample set, HAM-AP-2-FB-02. Metals were not detected in the field blank above the MDLs.

1.8 Field Duplicate

One field duplicate sample was collected with the sample set, HAM-AP-2-FD-02. Acceptable precision ($RPD \leq 30\%$) was demonstrated between the field duplicate and the original sample, HAM-MW-23D.

1.9 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were reported due to dilutions analyzed.

1.10 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

2.0 MERCURY

The samples were analyzed for mercury by USEPA method 7470A.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

✓ Overall Assessment

- ✓ Holding Time
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Equipment Blank
- ✓ Field Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

2.1 Overall Assessment

The mercury data reported in this data set are considered usable for supporting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

2.2 Holding Time

The holding time for mercury analysis of a water sample is 28 days from sample collection to analysis. The holding times were met for the sample analyses.

2.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Three method blanks were reported (batches 752854, 754353, and 754637). Mercury was not detected in the method blanks above the MDL.

2.4 Matrix Spike/Matrix Spike Duplicate

MS/MSDs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two sample set specific MS/MSD pairs were reported, using samples HAM-HGWA-42D and HAM-HGWC-17. The recovery and RPD results were within the laboratory specified acceptance criteria.

One batch MS/MSD pair was reported. Since this was a batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

2.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Three LCSs were reported. The recovery results were within the laboratory specified acceptance criteria.

2.6 Equipment Blank

One equipment blank was collected with the sample set, HAM-AP-2-EB-02. Mercury was not detected in the equipment blank above the MDL.

2.7 Field Blank

One field blank was collected with the sample set, HAM-AP-2-FB-02. Mercury was not detected in the field blank above the MDL.

2.8 Field Duplicate

One field duplicate sample was collected with the sample set, HAM-AP-2-FD-02. Acceptable precision ($RPD \leq 30\%$) was demonstrated between the field duplicate and the original sample, HAM-MW-23D.

2.9 Sensitivity

The samples were reported to the MDL. No elevated non-detect results were reported.

2.10 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

3.0 WET CHEMISTRY

The samples were analyzed for TDS by SM 2540C, anions by USEPA method 300.0, alkalinity by SM Method 2320, and sulfide by SM Method 4500S2D.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ⊗ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Equipment Blank
- ⊗ Field Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

3.1 Overall Assessment

The wet chemistry data reported in this data set are considered usable for supporting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for these analyses, for this data set is 100%.

3.2 Holding Times

The holding time for the TDS analysis of a water sample is 7 days from sample collection to analysis. The holding time for the anions (chloride, fluoride, and sulfate) analysis of a water sample is 28 days from sample collection to analysis. The holding time for the alkalinity analysis of a water sample is 14 days from sample collection to analysis. The holding time for the sulfide analysis of a water sample is 7 days from sample collection to analysis. The holding times were met for the sample analyses.

3.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Four method blanks were reported for TDS (batches 752254, 753439, 753440, and 754118), four method blanks were reported for the anions (batches 751618, 753396, 753665, and 754257), one method blank was reported for the alkalinity (batch 754305), and one method blank was reported for the sulfide (batch 754464). The wet chemistry parameters were not detected in the method blanks above the MDLs.

3.4 Matrix Spike/Matrix Spike Duplicate

MS/MSDs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples).

Two sample set specific MS/MSD pairs were reported for anions, using samples HAM-MW-33 and HAM-MW-35. The recovery and RPD results were within the laboratory specified acceptance criteria, with the following exceptions.

The recoveries of chloride and sulfate in the MS/MSD pair using sample HAM-MW-33 were low and outside of the laboratory specified acceptance criteria. Since the sulfate concentration in sample HAM-MW-33 was greater than four times the spike concentration, no qualifications were applied to the sulfate data. However, the chloride concentration in sample HAM-MW-33 was J-qualified as estimated with low bias.

One or both the recoveries of chloride and sulfate in the MS/MSD pair using sample HAM-MW-35 were low and the recovery of fluoride was high and outside of the laboratory specified acceptance criteria. Since the sulfate concentration in sample HAM-MW-35 was greater than four times the spike concentration, no qualifications were applied to the sulfate data. However, the chloride concentration in sample HAM-MW-35 was J- qualified as estimated with low bias and the fluoride concentration in sample HAM-MW-35 was J+ qualified as estimated with high bias.

Six batch MS/MSD pairs were reported for the anions. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

Two batch MS/MSD pairs were reported for alkalinity. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

Two batch MS/MSD pairs were reported for sulfide. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
HAM-MW-33	Chloride	83.4	M1	83.4	J-	4
HAM-MW-35	Chloride	189	M1	189	J-	4
HAM-MW-35	Fluoride	0.10	M1	0.10	J+	4

mg/L-milligrams per liter

M1-matrix spike recovery exceeded QC limits

3.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Four LCSs were reported for TDS, four LCSs were reported for anions, two LCSs were reported for alkalinity, and one LCS was reported for sulfide. The recovery results were within the laboratory specified acceptance criteria.

3.6 Laboratory Duplicate

One sample set specific laboratory duplicates were reported for TDS, using sample HAM-HGWC-14. The RPD results were within the laboratory specified acceptance criteria.

Seven batch laboratory duplicates were reported for TDS. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

3.7 Equipment Blank

One equipment blank was collected with the sample set HAM-AP-2-EB-02. The wet chemistry parameters were not detected in the equipment blank above the MDLs, with the following exception.

TDS (28 mg/L) was detected in the equipment blank at a concentration greater than the reporting limit (RL). Since the TDS concentration in the equipment blank was U qualified as not detected at the sample concentration due to field blank contamination, and based on professional and technical judgment, no additional qualifications were applied to the data.

3.8 Field Blank

One field blank was collected with the sample set, HAM-AP2-FB-02. The wet chemistry parameters were not detected in the field blank above the MDLs, with the following exception.

TDS (58 mg/L) was detected in the field blank at a concentration greater than the RL. Therefore, the TDS concentration in equipment blank HAM-AP2-EB-02 was U qualified as not detected at the sample concentration and the TDS concentrations in samples HAM-HGWA-4, HAM-HGWA-42D, HAM-HGWA-5, HAM-MW-37D, and HAM-HGWA-6 were J+ qualified as estimated with high biases. Since TDS was detected at concentrations 10x greater than the field blank contamination in the remaining samples, no additional qualifications were applied to the data.

Sample ID	Compound	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
HAM-AP2-EB-02	TDS	28	NA	28	U	3
HAM-HGWA-4	TDS	128	NA	128	J+	3
HAM-HGWA-42D	TDS	168	NA	168	J+	3
HAM-HGWA-5	TDS	182	NA	182	J+	3
HAM-MW-37D	TDS	226	NA	226	J+	3
HAM-HGWA-6	TDS	229	NA	229	J+	3

mg/L-milligrams per liter

NA-Not Applicable

3.9 Field Duplicate

One field duplicate sample was collected with the sample set, HAM-AP-2-FD-02. Acceptable precision ($RPD \leq 30\%$) was demonstrated between the field duplicate and the original sample, HAM-MW-23D.

3.10 Sensitivity

The samples were reported to the MDLs for the anions and sulfide, and the RLs for TDS and alkalinity. No elevated non-detect results were reported.

3.11 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

* * * * *

ATTACHMENT 1
DATA VALIDATION QUALIFIER DEFINITIONS
AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team

DATA QUALIFIER DEFINITIONS

- U The analyte was analyzed for but was not detected at or above the reported sample quantitation limit. Upon application of the U qualifier to a reported result, the definition changes to “not detected at or above the reported result”.
- J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- J+ The analyte was positively identified; however, the associated numerical value is likely to be higher than the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.
- J- The analyte was positively identified; however, the associated numerical value is likely to be lower than the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.
- UJ The analyte was not detected at or above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec’s Data Validation Team

Valid Value	Description
1	Preservation requirement not met
2	Analysis holding time exceeded
3	Blank contamination (i.e., method, trip, equipment, etc.)
4	Matrix spike/matrix spike duplicate recovery or RPD outside limits
5	LCS or RPD recovery outside limits (LCS/LCSD)
6	Surrogate recovery outside limits
7	Field Duplicate RPD exceeded
8	Serial dilution percent difference exceeded
9	Calibration criteria not met
10	Linear range exceeded
11	Internal standard criteria not met
12	Lab duplicates RPD exceeded
13	Other
14	Lab flag removed or modified: no validation qualification required

LCS - Laboratory Control Sample
 LCSD - Laboratory Control Sample Duplicate
 RPD - Relative Percent Difference

Memorandum

Date: June 1, 2023
To: Whitney Law
From: Amani Royce
CC: K. Henderson
Subject: **Stage 2A Data Validation - Level II Data Deliverable – Pace Analytical Services, LLC Project Number 92648450**

SITE: Plant Hammond AP-2 (RADS)

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of seventeen aqueous samples, one field duplicate, one field blank, and one equipment blank, collected 23, 27, and 30 January 2023 and 1 February 2023, as part of the Plant Hammond AP on-site sampling event.

The samples were analyzed at Pace Analytical Services, LLC, Greensburg, Pennsylvania, for the following analytical tests:

- Radium-226 by United States (US) Environmental Protection Agency (EPA) Method 9315
- Radium-228 by US EPA Method 9320
- Total Radium by Calculation

EXECUTIVE SUMMARY

Based on the Stage 2A data validation covering the quality control (QC) parameters listed below and the information provided, the data as qualified are usable for meeting project objectives.

The data were reviewed based on the pertinent methods referenced in the laboratory reports, professional and technical judgment, and the following documents:

- US EPA Region IV Data Validation Standard Operating Procedures (US EPA Region IV, September 2011);
- USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review, November 2020 (EPA 542-R-20-006); and
- American National Standard, Verification and Validation of Radiological Data for use in Waste Management and Environmental Remediation, February 15, 2012 (ANSI/ANS-41.5-2012).

The following samples were analyzed and reported in the laboratory reports:

Laboratory ID	Client ID
92648450001	HAM-HGWA-4
92648450002	HAM-HGWA-42D
92648450003	HAM-HGWA-5
92648450004	HAM-HGWA-6
92648450005	HAM-MW-21D
92648450006	HAM-MW-33
92648450007	HAM-HGWC-17
92648450008	HAM-MW-22
92648450009	HAM-MW-34D
92648450010	HAM-MW-37D

Laboratory ID	Client ID
92648450011	HAM-HGWC-14
92648450012	HAM-HGWC-15
92648450013	HAM-HGWC-16
92648450014	HAM-HGWC-18
92648450015	HAM-MW-23D
92648450016	HAM-MW-35
92648450017	HAM-MW-51
92648450018	HAM-AP-2-EB-02
92648450019	HAM-AP-2-FB-02
92648450020	HAM-AP-2-FD-02

The samples were received within 0-6 degrees Celsius (°C). No sample preservation issues were noted by the laboratory.

Field duplicate sample HAM-AP-2-FD-02 was not listed on the chain of custody (COC). The laboratory assigned the collection date and time of 1 February 2023 0:00.

1.0 RADIOCHEMISTRY

The samples were analyzed for radium-226 by US EPA method 9315, radium-228 by US EPA method 9320 and total radium by calculation.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Tracers and Carriers
- ✓ Equipment Blank
- ✓ Field Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

1.1 Overall Assessment

The radium-226 and radium-228 data reported in this data set are considered usable for meeting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

1.2 Holding Times

The holding times for the radium-226 and radium-228 analyses of a water sample are 180 days from sample collection to analysis. The holding times were met for the sample analyses.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Four method blanks were reported for the radium-228 data (batches 564276, 565150, 565967, and 565965). Four method blanks were reported for the radium-226 data (batches 564275, 565151, 565966, and 565964). Radium-226 and radium-228 were not detected in the method blanks above the minimum detectable concentrations (MDCs), with the following exception.

Radium-226 was detected in the method blank in batch 565966 (0.221 pCi/L) at the MDC. Since radium-226 was not detected in the associated samples above the MDCs, no qualifications were applied to the data.

1.4 Matrix Spike/Matrix Spike Duplicate (MS/MSD)

MS/MSD pairs were not reported with the data.

1.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Four LCS/LCS duplicate (LCSD) pairs were reported for radium-226. Four LCS/LCSD pairs were reported for radium-228. The recovery and replicate error ratio (RER) [1 sigma (1σ)] results were within the laboratory specified acceptance criteria.

1.6 Laboratory Duplicate

Three batch laboratory duplicates were reported for radium-226. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

1.7 Tracers and Carriers

Carriers were reported for the radium-226 and radium-228 analyses and a tracer was reported for the radium-228 analyses. The recovery results were within the laboratory specified acceptance criteria.

1.8 Equipment Blank

One equipment blank was collected with the sample set, HAM-AP-2-EB-02. Radium-226 and radium-228 were not detected in the equipment blank above the MDCs.

1.9 Field Blank

One field blank was collected with the sample set, HAM-AP-2-FB-02. Radium-226 and radium-228 were not detected in the field blank above the MDCs.

1.10 Field Duplicate

One field duplicate sample was collected with the sample set, HAM-AP-2-FD-02. Acceptable precision ($RER (1\sigma) < 3$) was demonstrated between the field duplicate and the original sample, HAM-MW-23D.

1.11 Sensitivity

The samples were reported to the MDCs. No elevated non-detect results were reported.

1.12 Electronic Data Deliverable Review (EDD)

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

* * * * *

ATTACHMENT 1
DATA VALIDATION QUALIFIER DEFINITIONS
AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team

DATA QUALIFIER DEFINITIONS

- U The analyte was analyzed for but was not detected at or above the reported sample quantitation limit. Upon application of the U qualifier to a reported result, the definition changes to “not detected at or above the reported result.”
- J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- J+ The analyte was positively identified; however, the associated numerical value is likely to be higher than the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.
- J- The analyte was positively identified; however, the associated numerical value is likely to be lower than the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.
- UJ The analyte was not detected at or above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
 Assigned by Geosyntec’s Data Validation Team

Valid Value	Description
1	Preservation requirement not met
2	Analysis holding time exceeded
3	Blank contamination (i.e., method, trip, equipment, etc.)
4	Matrix spike/matrix spike duplicate recovery or RPD outside limits
5	LCS or RPD recovery outside limits (LCS/LCSD)
6	Surrogate recovery outside limits
7	Field Duplicate RPD exceeded
8	Serial dilution percent difference exceeded
9	Calibration criteria not met
10	Linear range exceeded
11	Internal standard criteria not met
12	Lab duplicates RPD exceeded
13	Other
14	Lab flag removed or modified: no validation qualification required

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample duplicate

RPD - Relative percent difference

FIELD SAMPLING REPORTS

Low-Flow Test Report:

Test Date / Time: 1/24/2023 9:00:17 AM

Project: GP-Plant Hammond

Operator Name: Anthony Szwast

Location Name: HGWA-1 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 22.49 ft Total Depth: 32.49 ft Initial Depth to Water: 10.05 ft	Pump Type: Bladder Tubing Type: Poly Pump Intake From TOC: 27.49 ft Estimated Total Volume Pumped: 4 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.63 ft	Instrument Used: Aqua TROLL 400 Serial Number: 883533
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Test Notes:

Five bottles: Full App. III and IV.

Weather Conditions:

Sunny, 30 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
1/24/2023 9:00 AM	00:00	6.90 pH	13.36 °C	707.06 µS/cm	1.45 mg/L	1.50 NTU	-14.6 mV	10.55 ft	200.00 ml/min
1/24/2023 9:05 AM	05:00	6.76 pH	15.30 °C	684.25 µS/cm	0.82 mg/L	1.12 NTU	-38.1 mV	10.68 ft	200.00 ml/min
1/24/2023 9:10 AM	10:00	6.74 pH	15.59 °C	674.83 µS/cm	0.40 mg/L	0.85 NTU	-53.2 mV	10.69 ft	200.00 ml/min
1/24/2023 9:15 AM	15:00	6.75 pH	15.71 °C	670.89 µS/cm	0.17 mg/L	0.70 NTU	-62.5 mV	10.65 ft	200.00 ml/min
1/24/2023 9:20 AM	20:00	6.76 pH	15.84 °C	667.23 µS/cm	0.10 mg/L	0.57 NTU	-69.0 mV	10.67 ft	200.00 ml/min
1/24/2023 9:25 AM	25:00	6.75 pH	15.88 °C	664.63 µS/cm	0.07 mg/L	0.48 NTU	-73.7 mV	10.68 ft	200.00 ml/min
1/24/2023 9:30 AM	30:00	6.76 pH	15.98 °C	661.32 µS/cm	0.06 mg/L	0.84 NTU	-76.5 mV	10.68 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-HGWA-1	Grab.

Low-Flow Test Report:

Test Date / Time: 1/24/2023 8:50:01 AM

Project: GP-Plant Hammond

Operator Name: Connor Cain

Location Name: HGWA-2 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 17.95 ft Total Depth: 27.95 ft Initial Depth to Water: 7.96 ft	Pump Type: Bladder Tubing Type: Poly Pump Intake From TOC: 22.95 ft Estimated Total Volume Pumped: 9 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 8.05 ft	Instrument Used: Aqua TROLL 400 Serial Number: 966090
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Test Notes:

Five bottles: Full App. III and IV.

Weather Conditions:

Sunny 28 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 5	
1/24/2023 8:50 AM	00:00	5.37 pH	15.92 °C	216.37 µS/cm	1.95 mg/L	74.60 NTU	164.4 mV	8.05 ft	200.00 ml/min
1/24/2023 8:55 AM	05:00	5.30 pH	16.05 °C	221.01 µS/cm	0.58 mg/L	16.40 NTU	133.9 mV	8.05 ft	200.00 ml/min
1/24/2023 9:00 AM	10:00	5.29 pH	16.10 °C	222.99 µS/cm	0.41 mg/L	9.97 NTU	119.9 mV	8.05 ft	200.00 ml/min
1/24/2023 9:05 AM	15:00	5.27 pH	16.19 °C	221.63 µS/cm	0.36 mg/L	6.72 NTU	109.2 mV	8.05 ft	200.00 ml/min
1/24/2023 9:10 AM	20:00	5.25 pH	16.19 °C	220.30 µS/cm	0.48 mg/L	5.21 NTU	101.6 mV	8.05 ft	200.00 ml/min
1/24/2023 9:15 AM	25:00	5.24 pH	16.28 °C	219.03 µS/cm	0.59 mg/L	4.43 NTU	95.7 mV	8.05 ft	200.00 ml/min
1/24/2023 9:20 AM	30:00	5.20 pH	16.36 °C	221.26 µS/cm	0.29 mg/L	3.35 NTU	93.3 mV	8.05 ft	200.00 ml/min
1/24/2023 9:25 AM	35:00	5.22 pH	16.37 °C	221.85 µS/cm	0.28 mg/L	2.68 NTU	87.9 mV	8.05 ft	200.00 ml/min
1/24/2023 9:30 AM	40:00	5.22 pH	16.38 °C	221.37 µS/cm	0.41 mg/L	2.49 NTU	86.4 mV	8.05 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-HGWA-1	Grab.

Low-Flow Test Report:

Test Date / Time: 1/23/2023 4:14:39 PM

Project: GP-Plant Hammond

Operator Name: Connor Cain

Location Name: HGWA-3 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 34.51 ft Total Depth: 44.51 ft Initial Depth to Water: 7.53 ft	Pump Type: Bladder Tubing Type: Poly Pump Intake From TOC: 39.51 ft Estimated Total Volume Pumped: 6 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0 ft	Instrument Used: Aqua TROLL 400 Serial Number: 966090
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Test Notes:

Five bottles: Full App. III and IV.

Weather Conditions:

Sunny, 50 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 5	
1/23/2023 4:14 PM	00:00	7.24 pH	15.85 °C	463.88 µS/cm	2.68 mg/L	7.83 NTU	-31.1 mV	7.53 ft	200.00 ml/min
1/23/2023 4:19 PM	05:00	7.31 pH	16.42 °C	459.57 µS/cm	0.98 mg/L	7.64 NTU	-49.6 mV	7.53 ft	200.00 ml/min
1/23/2023 4:24 PM	10:00	7.32 pH	16.54 °C	459.25 µS/cm	0.65 mg/L	4.84 NTU	-82.6 mV	7.53 ft	200.00 ml/min
1/23/2023 4:29 PM	15:00	7.32 pH	16.55 °C	459.71 µS/cm	0.38 mg/L	3.16 NTU	-88.0 mV	7.53 ft	200.00 ml/min
1/23/2023 4:34 PM	20:00	7.33 pH	16.67 °C	458.35 µS/cm	0.28 mg/L	2.46 NTU	-89.3 mV	7.53 ft	200.00 ml/min
1/23/2023 4:39 PM	25:00	7.34 pH	16.59 °C	457.27 µS/cm	0.23 mg/L	2.48 NTU	-58.6 mV	7.53 ft	200.00 ml/min
1/23/2023 4:44 PM	30:00	7.32 pH	16.58 °C	457.27 µS/cm	0.20 mg/L	1.02 NTU	-87.8 mV	7.53 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-HGWA-3	Grab.

Low-Flow Test Report:

Test Date / Time: 1/23/2023 4:24:07 PM

Project: GP-Plant Hammond

Operator Name: Thomas Kessler

Location Name: HGWA-4 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 15.76 ft Total Depth: 25.76 ft Initial Depth to Water: 4.94 ft	Pump Type: Bladder Tubing Type: Poly Pump Intake From TOC: 63.03 ft Estimated Total Volume Pumped: 7.9 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.31 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850724
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Test Notes:

Five bottles: Full app. III and IV.

Weather Conditions:

Sunny, 45 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 5	
1/23/2023 4:24 PM	00:00	5.73 pH	16.82 °C	217.08 µS/cm	6.25 mg/L	9.37 NTU	157.7 mV	5.07 ft	200.00 ml/min
1/23/2023 4:25 PM	01:27	5.67 pH	15.52 °C	215.53 µS/cm	5.99 mg/L	9.37 NTU	193.0 mV	5.07 ft	200.00 ml/min
1/23/2023 4:29 PM	04:55	5.64 pH	15.95 °C	219.56 µS/cm	6.01 mg/L	8.71 NTU	195.5 mV	5.20 ft	200.00 ml/min
1/23/2023 4:34 PM	09:55	5.62 pH	15.94 °C	218.74 µS/cm	6.01 mg/L	8.91 NTU	146.3 mV	5.25 ft	200.00 ml/min
1/23/2023 4:39 PM	14:55	5.61 pH	16.15 °C	219.90 µS/cm	5.96 mg/L	6.80 NTU	185.3 mV	5.25 ft	200.00 ml/min
1/23/2023 4:44 PM	19:55	5.61 pH	15.93 °C	218.70 µS/cm	5.94 mg/L	4.94 NTU	181.4 mV	5.25 ft	200.00 ml/min
1/23/2023 4:49 PM	24:55	5.62 pH	15.79 °C	217.02 µS/cm	5.95 mg/L	4.39 NTU	134.5 mV	5.25 ft	200.00 ml/min
1/23/2023 4:54 PM	29:55	5.62 pH	15.75 °C	216.09 µS/cm	5.94 mg/L	3.59 NTU	130.7 mV	5.25 ft	200.00 ml/min
1/23/2023 4:59 PM	34:55	5.62 pH	15.84 °C	216.64 µS/cm	5.93 mg/L	3.23 NTU	128.1 mV	5.25 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-HGWA-4	Grab.

Low-Flow Test Report:

Test Date / Time: 1/27/2023 9:29:08 AM

Project: GP-Plant Hammond

Operator Name: Anthony Szwast

Location Name: HGWA-5 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 18.72 ft Total Depth: 28.72 ft Initial Depth to Water: 4.25 ft	Pump Type: Bladder Tubing Type: Poly Pump Intake From TOC: 23.72 ft Estimated Total Volume Pumped: 18 ml Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 1.31 ft	Instrument Used: Aqua TROLL 400 Serial Number: 883533
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Test Notes:

Five bottles: Full App. III and IV.

Weather Conditions:

Sunny, 30 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
1/27/2023 9:29 AM	00:00	6.55 pH	15.10 °C	253.28 µS/cm	1.32 mg/L	13.30 NTU	-20.9 mV	4.80 ft	200.00 ml/min
1/27/2023 9:34 AM	05:00	6.59 pH	15.51 °C	247.50 µS/cm	0.71 mg/L	11.10 NTU	-25.4 mV	5.01 ft	200.00 ml/min
1/27/2023 9:39 AM	10:00	6.59 pH	15.73 °C	238.73 µS/cm	0.54 mg/L	11.70 NTU	-23.6 mV	5.11 ft	200.00 ml/min
1/27/2023 9:44 AM	15:00	6.58 pH	15.82 °C	233.57 µS/cm	0.50 mg/L	9.84 NTU	-22.5 mV	5.22 ft	200.00 ml/min
1/27/2023 9:49 AM	20:00	6.58 pH	15.88 °C	235.44 µS/cm	0.34 mg/L	8.60 NTU	-23.8 mV	5.30 ft	200.00 ml/min
1/27/2023 9:54 AM	25:00	6.57 pH	15.98 °C	230.80 µS/cm	0.32 mg/L	9.42 NTU	-30.5 mV	5.38 ft	200.00 ml/min
1/27/2023 9:59 AM	30:00	6.56 pH	16.02 °C	230.85 µS/cm	0.24 mg/L	7.63 NTU	-21.6 mV	5.43 ft	200.00 ml/min
1/27/2023 10:04 AM	35:00	6.55 pH	16.14 °C	228.21 µS/cm	0.20 mg/L	8.08 NTU	-21.2 mV	5.47 ft	200.00 ml/min
1/27/2023 10:09 AM	40:00	6.55 pH	16.19 °C	227.51 µS/cm	0.18 mg/L	7.90 NTU	-20.4 mV	5.54 ft	200.00 ml/min
1/27/2023 10:14 AM	45:00	6.55 pH	16.28 °C	225.59 µS/cm	0.17 mg/L	6.67 NTU	-19.4 mV	5.59 ft	200.00 ml/min
1/27/2023 10:19 AM	50:00	6.54 pH	16.38 °C	228.57 µS/cm	0.15 mg/L	6.14 NTU	-20.6 mV	5.61 ft	200.00 ml/min
1/27/2023 10:24 AM	55:00	6.54 pH	16.42 °C	226.01 µS/cm	0.15 mg/L	6.11 NTU	-19.7 mV	5.68 ft	200.00 ml/min
1/27/2023 10:29 AM	01:00:00	6.54 pH	16.35 °C	227.01 µS/cm	0.13 mg/L	5.65 NTU	-19.2 mV	5.66 ft	200.00 ml/min

1/27/2023 10:34 AM	01:05:00	6.54 pH	16.37 °C	226.84 µS/cm	0.10 mg/L	5.39 NTU	-19.4 mV	5.63 ft	200.00 ml/min
1/27/2023 10:39 AM	01:10:00	6.54 pH	16.41 °C	226.65 µS/cm	0.07 mg/L	5.26 NTU	-19.3 mV	5.60 ft	200.00 ml/min
1/27/2023 10:44 AM	01:15:00	6.54 pH	16.38 °C	227.41 µS/cm	0.06 mg/L	5.55 NTU	-19.8 mV	5.88 ft	200.00 ml/min
1/27/2023 10:49 AM	01:20:00	6.53 pH	16.42 °C	224.83 µS/cm	0.05 mg/L	5.16 NTU	-17.9 mV	5.56 ft	200.00 ml/min
1/27/2023 10:54 AM	01:25:00	6.52 pH	16.41 °C	223.81 µS/cm	0.05 mg/L	4.94 NTU	-16.8 mV	5.56 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-HGWA-5	Grab.

Low-Flow Test Report:

Test Date / Time: 1/27/2023 9:30:18 AM

Project: GP-Plant Hammond

Operator Name: Connor Cain

Location Name: HGWA-6 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 39.66 ft Total Depth: 49.66 ft Initial Depth to Water: 3.62 ft	Pump Type: Bladder Tubing Type: Poly Pump Intake From TOC: 44.66 ft Estimated Total Volume Pumped: 7 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 2.13 ft	Instrument Used: Aqua TROLL 400 Serial Number: 966090
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Test Notes:

Five bottles: Full App. III and IV.

Weather Conditions:

Sunny, 35 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 5	
1/27/2023 9:30 AM	00:00	7.61 pH	12.98 °C	365.53 µS/cm	3.83 mg/L	2.18 NTU	-29.6 mV	3.95 ft	200.00 ml/min
1/27/2023 9:35 AM	05:00	7.64 pH	15.33 °C	376.67 µS/cm	1.31 mg/L	5.68 NTU	-58.5 mV	4.91 ft	200.00 ml/min
1/27/2023 9:40 AM	10:00	7.68 pH	15.50 °C	375.94 µS/cm	1.56 mg/L	2.59 NTU	-82.6 mV	5.35 ft	200.00 ml/min
1/27/2023 9:45 AM	15:00	7.68 pH	15.47 °C	375.28 µS/cm	1.16 mg/L	1.90 NTU	-58.5 mV	5.48 ft	200.00 ml/min
1/27/2023 9:50 AM	20:00	7.66 pH	15.65 °C	377.58 µS/cm	0.87 mg/L	1.44 NTU	-93.9 mV	5.59 ft	200.00 ml/min
1/27/2023 9:55 AM	25:00	7.66 pH	15.74 °C	376.58 µS/cm	0.66 mg/L	1.24 NTU	-97.1 mV	5.66 ft	200.00 ml/min
1/27/2023 10:00 AM	30:00	7.66 pH	15.83 °C	377.34 µS/cm	0.52 mg/L	1.03 NTU	-100.6 mV	5.72 ft	200.00 ml/min
1/27/2023 10:05 AM	35:00	7.66 pH	15.86 °C	376.00 µS/cm	0.48 mg/L	1.25 NTU	-67.6 mV	5.75 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-HGWA-6	Grab.

Low-Flow Test Report:

Test Date / Time: 1/23/2023 4:46:09 PM

Project: GP-Plant Hammond

Operator Name: Anthony Szwast

Location Name: HGWA-42D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 58.03 ft Total Depth: 68.03 ft Initial Depth to Water: 9.37 ft	Pump Type: Bladder Tubing Type: Poly Pump Intake From TOC: 63.08 ft Estimated Total Volume Pumped: 9.5 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 2.26 ft	Instrument Used: Aqua TROLL 400 Serial Number: 883533
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Test Notes:

Five bottles: Full app. III and IV.

Weather Conditions:

Sunny, 45 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
1/23/2023 4:46 PM	00:00	7.51 pH	17.45 °C	294.80 µS/cm	0.24 mg/L	6.42 NTU	16.6 mV	11.25 ft	200.00 ml/min
1/23/2023 4:51 PM	05:00	7.52 pH	17.53 °C	297.37 µS/cm	0.20 mg/L	8.52 NTU	7.9 mV	11.40 ft	200.00 ml/min
1/23/2023 4:56 PM	10:00	7.52 pH	17.59 °C	298.09 µS/cm	0.16 mg/L	7.47 NTU	-3.1 mV	11.53 ft	200.00 ml/min
1/23/2023 5:01 PM	15:00	7.51 pH	17.60 °C	299.02 µS/cm	0.13 mg/L	5.30 NTU	-15.1 mV	11.59 ft	200.00 ml/min
1/23/2023 5:06 PM	20:00	7.51 pH	17.65 °C	297.87 µS/cm	0.12 mg/L	2.10 NTU	-27.3 mV	11.58 ft	200.00 ml/min
1/23/2023 5:11 PM	25:00	7.51 pH	17.56 °C	298.72 µS/cm	0.12 mg/L	2.88 NTU	-35.9 mV	11.59 ft	200.00 ml/min
1/23/2023 5:16 PM	30:00	7.51 pH	17.61 °C	299.80 µS/cm	0.11 mg/L	1.95 NTU	-42.5 mV	11.59 ft	200.00 ml/min
1/23/2023 5:21 PM	35:00	7.53 pH	17.60 °C	300.44 µS/cm	0.11 mg/L	2.44 NTU	-52.2 mV	11.61 ft	200.00 ml/min
1/23/2023 5:26 PM	40:00	7.52 pH	17.66 °C	300.72 µS/cm	0.11 mg/L	1.61 NTU	-60.4 mV	11.65 ft	200.00 ml/min
1/23/2023 5:31 PM	45:00	7.54 pH	17.65 °C	300.94 µS/cm	0.11 mg/L	1.64 NTU	-73.2 mV	11.62 ft	200.00 ml/min
1/23/2023 5:36 PM	50:00	7.52 pH	17.65 °C	301.02 µS/cm	0.10 mg/L	1.64 NTU	-86.6 mV	11.63 ft	200.00 ml/min
1/23/2023 5:41 PM	55:00	7.54 pH	17.65 °C	300.96 µS/cm	0.10 mg/L	1.27 NTU	-98.4 mV	11.62 ft	200.00 ml/min
1/23/2023 5:46 PM	01:00:00	7.54 pH	17.57 °C	301.67 µS/cm	0.10 mg/L	1.74 NTU	-104.0 mV	11.63 ft	200.00 ml/min

1/23/2023 5:51 PM	01:05:00	7.54 pH	17.63 °C	301.43 µS/cm	0.09 mg/L	1.31 NTU	-111.3 mV	11.63 ft	200.00 ml/min
1/23/2023 5:56 PM	01:10:00	7.54 pH	17.52 °C	302.05 µS/cm	0.10 mg/L	1.25 NTU	-114.8 mV	11.63 ft	200.00 ml/min
1/23/2023 6:01 PM	01:15:00	7.55 pH	17.47 °C	301.54 µS/cm	0.10 mg/L	1.21 NTU	-117.9 mV	11.63 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-HGWA-42D	Grab.

Low-Flow Test Report:

Test Date / Time: 1/24/2023 10:20:06 AM

Project: GP-Plant Hammond

Operator Name: Connor Cain

Location Name: HGWA-43D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 51.25 ft Total Depth: 61.25 ft Initial Depth to Water: 10.02 ft	Pump Type: Bladder Tubing Type: Poly Pump Intake From TOC: 22.95 ft Estimated Total Volume Pumped: 6 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 13.52 ft	Instrument Used: Aqua TROLL 400 Serial Number: 966090
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Test Notes:

Five bottles: Full App. III and IV.

Weather Conditions:

Sunny, 35 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 5	
1/24/2023 10:20 AM	00:00	7.50 pH	15.38 °C	453.99 µS/cm	1.76 mg/L	4.94 NTU	-100.1 mV	10.89 ft	200.00 ml/min
1/24/2023 10:25 AM	05:00	7.56 pH	16.19 °C	451.81 µS/cm	0.95 mg/L	8.69 NTU	-115.8 mV	11.73 ft	200.00 ml/min
1/24/2023 10:30 AM	10:00	7.58 pH	16.37 °C	450.15 µS/cm	0.92 mg/L	6.38 NTU	-114.4 mV	12.50 ft	200.00 ml/min
1/24/2023 10:35 AM	15:00	7.58 pH	16.41 °C	451.67 µS/cm	0.67 mg/L	5.04 NTU	-118.5 mV	12.97 ft	200.00 ml/min
1/24/2023 10:40 AM	20:00	7.57 pH	16.43 °C	442.00 µS/cm	0.61 mg/L	4.93 NTU	-115.4 mV	13.27 ft	200.00 ml/min
1/24/2023 10:45 AM	25:00	7.55 pH	16.59 °C	441.08 µS/cm	0.57 mg/L	4.49 NTU	-112.1 mV	13.43 ft	200.00 ml/min
1/24/2023 10:50 AM	30:00	7.56 pH	16.46 °C	437.56 µS/cm	0.67 mg/L	3.92 NTU	-111.9 mV	13.52 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-HGWA-43D	Grab.

Low-Flow Test Report:

Test Date / Time: 1/24/2023 9:23:00 AM

Project: GP-Plant Hammond

Operator Name: Thomas Kessler

Location Name: HGWA-44D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 103.5 ft Total Depth: 113.5 ft Initial Depth to Water: 10.72 ft	Pump Type: Bladder Tubing Type: Poly Pump Intake From TOC: 103.5 ft Estimated Total Volume Pumped: 10 liter Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 4.03 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850724
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Test Notes:

Five bottles: Full app. III and IV.

Weather Conditions:

Foggy, 30 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 5	
1/24/2023 9:23 AM	00:00	8.16 pH	12.41 °C	55.30 µS/cm	1.94 mg/L	67.00 NTU	11.8 mV	10.95 ft	200.00 ml/min
1/24/2023 9:28 AM	05:00	8.20 pH	12.90 °C	54.41 µS/cm	1.25 mg/L	71.00 NTU	-37.5 mV	11.30 ft	200.00 ml/min
1/24/2023 9:33 AM	10:00	8.20 pH	12.94 °C	54.45 µS/cm	0.99 mg/L	12.80 NTU	-61.7 mV	11.70 ft	200.00 ml/min
1/24/2023 9:38 AM	15:00	8.21 pH	12.98 °C	54.49 µS/cm	0.89 mg/L	12.70 NTU	-75.1 mV	12.00 ft	200.00 ml/min
1/24/2023 9:43 AM	20:00	8.21 pH	13.21 °C	54.60 µS/cm	0.76 mg/L	26.50 NTU	-89.8 mV	12.30 ft	200.00 ml/min
1/24/2023 9:48 AM	25:00	8.21 pH	13.58 °C	54.65 µS/cm	0.95 mg/L	25.30 NTU	-118.5 mV	12.60 ft	200.00 ml/min
1/24/2023 9:53 AM	30:00	8.21 pH	13.70 °C	54.66 µS/cm	0.81 mg/L	31.20 NTU	-106.2 mV	12.80 ft	200.00 ml/min
1/24/2023 9:58 AM	35:00	8.20 pH	14.46 °C	55.60 µS/cm	0.71 mg/L	14.80 NTU	-131.2 mV	12.95 ft	200.00 ml/min
1/24/2023 10:03 AM	40:00	8.20 pH	14.70 °C	54.64 µS/cm	0.79 mg/L	16.80 NTU	-116.0 mV	13.10 ft	200.00 ml/min
1/24/2023 10:08 AM	45:00	8.20 pH	14.98 °C	54.61 µS/cm	0.67 mg/L	17.30 NTU	-118.3 mV	13.30 ft	200.00 ml/min
1/24/2023 10:13 AM	50:00	8.20 pH	15.19 °C	52.56 µS/cm	0.64 mg/L	16.30 NTU	-113.7 mV	13.35 ft	200.00 ml/min
1/24/2023 10:18 AM	55:00	8.21 pH	15.29 °C	54.53 µS/cm	0.47 mg/L	17.70 NTU	-121.9 mV	13.42 ft	200.00 ml/min
1/24/2023 10:23 AM	01:00:00	8.21 pH	15.26 °C	54.41 µS/cm	0.60 mg/L	14.20 NTU	-128.2 mV	13.55 ft	200.00 ml/min

1/24/2023 10:28 AM	01:05:00	8.21 pH	15.33 °C	54.56 µS/cm	0.75 mg/L	11.14 NTU	-133.1 mV	14.70 ft	200.00 ml/min
1/24/2023 10:33 AM	01:10:00	8.21 pH	15.32 °C	54.58 µS/cm	0.49 mg/L	14.75 NTU	-135.2 mV	14.75 ft	200.00 ml/min
1/24/2023 10:38 AM	01:15:00	8.21 pH	15.41 °C	54.48 µS/cm	0.47 mg/L	9.05 NTU	-137.7 mV	14.75 ft	200.00 ml/min
1/24/2023 10:43 AM	01:20:00	8.21 pH	15.49 °C	54.36 µS/cm	0.35 mg/L	8.27 NTU	-141.0 mV	14.75 ft	200.00 ml/min
1/24/2023 10:48 AM	01:25:00	8.21 pH	15.36 °C	54.54 µS/cm	0.42 mg/L	6.79 NTU	-141.9 mV	14.75 ft	200.00 ml/min
1/24/2023 10:53 AM	01:30:00	8.22 pH	15.16 °C	54.68 µS/cm	0.29 mg/L	4.41 NTU	-144.2 mV	14.75 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-HGWA-44D	Grab.

Low-Flow Test Report:

Test Date / Time: 2/1/2023 2:20:19 PM

Project: GP-Plant Hammond

Operator Name: Connor Cain

Location Name: HGWC-14 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 32.98 ft Total Depth: 42.98 ft Initial Depth to Water: 18.01 ft	Pump Type: Bladder Tubing Type: Poly Pump Intake From TOC: 37.988 ft Estimated Total Volume Pumped: 7 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.1 ft	Instrument Used: Aqua TROLL 400 Serial Number: 966090
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Test Notes:

Five bottles: Full app. III and IV.

Weather Conditions:

Cloudy, 55 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 5	
2/1/2023 2:20 PM	00:00	4.91 pH	18.53 °C	2,186.7 µS/cm	0.76 mg/L	5.31 NTU	155.5 mV	18.11 ft	200.00 ml/min
2/1/2023 2:25 PM	05:00	4.89 pH	18.78 °C	2,200.9 µS/cm	0.52 mg/L	4.35 NTU	146.7 mV	18.11 ft	200.00 ml/min
2/1/2023 2:30 PM	10:00	4.91 pH	18.94 °C	2,195.4 µS/cm	0.49 mg/L	2.68 NTU	139.9 mV	18.11 ft	200.00 ml/min
2/1/2023 2:35 PM	15:00	4.91 pH	19.07 °C	2,192.4 µS/cm	0.36 mg/L	2.06 NTU	196.5 mV	18.11 ft	200.00 ml/min
2/1/2023 2:40 PM	20:00	4.92 pH	19.22 °C	2,198.0 µS/cm	0.50 mg/L	1.69 NTU	134.9 mV	18.11 ft	200.00 ml/min
2/1/2023 2:45 PM	25:00	4.93 pH	19.22 °C	2,194.0 µS/cm	0.44 mg/L	1.33 NTU	128.2 mV	18.11 ft	200.00 ml/min
2/1/2023 2:50 PM	30:00	4.93 pH	19.18 °C	2,193.2 µS/cm	0.37 mg/L	1.10 NTU	125.9 mV	18.11 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-HGWC-14	Grab.

Low-Flow Test Report:

Test Date / Time: 2/1/2023 2:08:55 PM

Project: GP-Plant Hammond

Operator Name: Anthony Szwast

Location Name: HGWC-15 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 27.96 ft Total Depth: 37.96 ft Initial Depth to Water: 15.06 ft	Pump Type: Peristaltic Tubing Type: Poly Pump Intake From TOC: 33 ft Estimated Total Volume Pumped: 7 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.49 ft	Instrument Used: Aqua TROLL 400 Serial Number: 883533
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Test Notes:

Five bottles: Full App. III and IV.

Weather Conditions:

Cloudy, 50 degrees F.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
2/1/2023 2:08 PM	00:00	6.32 pH	17.63 °C	1,311.2 µS/cm	0.56 mg/L	0.69 NTU	58.5 mV	15.54 ft	200.00 ml/min
2/1/2023 2:13 PM	05:00	6.29 pH	18.03 °C	1,297.6 µS/cm	0.19 mg/L	1.04 NTU	61.0 mV	15.56 ft	200.00 ml/min
2/1/2023 2:18 PM	10:00	6.27 pH	18.08 °C	1,292.1 µS/cm	0.16 mg/L	0.80 NTU	61.9 mV	15.56 ft	200.00 ml/min
2/1/2023 2:23 PM	15:00	6.25 pH	18.10 °C	1,289.7 µS/cm	0.12 mg/L	0.53 NTU	78.8 mV	15.56 ft	200.00 ml/min
2/1/2023 2:28 PM	20:00	6.25 pH	18.26 °C	1,281.8 µS/cm	0.11 mg/L	0.92 NTU	64.3 mV	15.56 ft	200.00 ml/min
2/1/2023 2:33 PM	25:00	6.24 pH	18.43 °C	1,270.2 µS/cm	0.10 mg/L	0.75 NTU	64.8 mV	15.55 ft	200.00 ml/min
2/1/2023 2:38 PM	30:00	6.22 pH	18.66 °C	1,257.1 µS/cm	0.11 mg/L	1.06 NTU	65.7 mV	15.55 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-HGWC-15	Grab.

Low-Flow Test Report:

Test Date / Time: 2/1/2023 11:55:09 AM

Project: GP-Plant Hammond

Operator Name: Connor Cain

Location Name: HGWC-16 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 23.06 ft Total Depth: 33.06 ft Initial Depth to Water: 13.25 ft	Pump Type: Peri Tubing Type: Poly Pump Intake From TOC: 28.06 ft Estimated Total Volume Pumped: 6 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.77 ft	Instrument Used: Aqua TROLL 400 Serial Number: 966090
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Test Notes:

Five bottles: Full app. III and IV.

Weather Conditions:

Cloudy, 43 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 5	
2/1/2023 11:55 AM	00:00	7.07 pH	16.74 °C	1,276.0 µS/cm	0.80 mg/L	2.10 NTU	3.4 mV	13.77 ft	200.00 ml/min
2/1/2023 12:00 PM	05:00	7.10 pH	17.47 °C	1,259.1 µS/cm	0.38 mg/L	0.67 NTU	-42.7 mV	13.82 ft	200.00 ml/min
2/1/2023 12:05 PM	10:00	7.13 pH	17.55 °C	1,243.6 µS/cm	0.35 mg/L	0.76 NTU	-75.2 mV	13.92 ft	200.00 ml/min
2/1/2023 12:10 PM	15:00	7.15 pH	17.89 °C	1,221.2 µS/cm	0.33 mg/L	0.80 NTU	-78.7 mV	13.95 ft	200.00 ml/min
2/1/2023 12:15 PM	20:00	7.15 pH	17.79 °C	1,216.2 µS/cm	0.30 mg/L	0.64 NTU	-77.9 mV	13.99 ft	200.00 ml/min
2/1/2023 12:20 PM	25:00	7.16 pH	17.71 °C	1,210.3 µS/cm	0.33 mg/L	0.66 NTU	-50.9 mV	14.02 ft	200.00 ml/min
2/1/2023 12:25 PM	30:00	7.15 pH	17.73 °C	1,185.4 µS/cm	0.35 mg/L	0.61 NTU	-76.2 mV	14.02 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-HGWC-16	Grab.

Low-Flow Test Report:

Test Date / Time: 1/30/2023 2:50:46 PM

Project: GP-Plant Hammond

Operator Name: Connor Cain

Location Name: HGWC-17 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 17.79 ft Total Depth: 27.79 ft Initial Depth to Water: 17.61 ft	Pump Type: Bladder Tubing Type: Poly Pump Intake From TOC: 22.79 ft Estimated Total Volume Pumped: 11 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.34 ft	Instrument Used: Aqua TROLL 400 Serial Number: 966090
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Test Notes:

Five bottles: Full app. III and IV.

Weather Conditions:

Cloudy, 50 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 5	
1/30/2023 2:50 PM	00:00	6.54 pH	17.96 °C	1,602.0 µS/cm	3.64 mg/L	16.80 NTU	151.1 mV	17.75 ft	200.00 ml/min
1/30/2023 2:55 PM	05:00	6.49 pH	18.42 °C	1,578.2 µS/cm	1.59 mg/L	17.40 NTU	79.0 mV	17.89 ft	200.00 ml/min
1/30/2023 3:00 PM	10:00	6.46 pH	18.56 °C	1,618.1 µS/cm	0.87 mg/L	13.60 NTU	59.6 mV	17.89 ft	200.00 ml/min
1/30/2023 3:05 PM	15:00	6.46 pH	18.53 °C	1,630.1 µS/cm	0.53 mg/L	8.74 NTU	52.4 mV	17.92 ft	200.00 ml/min
1/30/2023 3:10 PM	20:00	6.46 pH	18.51 °C	1,629.5 µS/cm	0.71 mg/L	6.42 NTU	49.3 mV	17.92 ft	200.00 ml/min
1/30/2023 3:15 PM	25:00	6.45 pH	18.55 °C	1,403.2 µS/cm	0.48 mg/L	4.68 NTU	46.0 mV	17.95 ft	200.00 ml/min
1/30/2023 3:20 PM	30:00	6.45 pH	18.56 °C	1,646.0 µS/cm	0.77 mg/L	3.40 NTU	45.3 mV	17.95 ft	200.00 ml/min
1/30/2023 3:25 PM	35:00	6.45 pH	18.56 °C	1,654.5 µS/cm	0.24 mg/L	3.30 NTU	44.1 mV	17.95 ft	200.00 ml/min
1/30/2023 3:30 PM	40:00	6.44 pH	18.60 °C	1,674.6 µS/cm	0.51 mg/L	2.31 NTU	42.8 mV	17.95 ft	200.00 ml/min
1/30/2023 3:35 PM	45:00	6.43 pH	18.59 °C	1,656.1 µS/cm	0.30 mg/L	2.06 NTU	42.1 mV	17.95 ft	200.00 ml/min
1/30/2023 3:40 PM	50:00	6.44 pH	18.51 °C	1,695.6 µS/cm	0.22 mg/L	1.61 NTU	58.1 mV	17.95 ft	200.00 ml/min
1/30/2023 3:45 PM	55:00	6.44 pH	18.57 °C	1,699.5 µS/cm	0.20 mg/L	1.39 NTU	59.3 mV	17.95 ft	200.00 ml/min

Samples

Sample ID:	Description:
HGWC-17	Grab.

Low-Flow Test Report:

Test Date / Time: 2/1/2023 10:19:59 AM

Project: GP-Plant Hammond

Operator Name: Connor Cain

Location Name: HGWC-18 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 17.71 ft Total Depth: 27.71 ft Initial Depth to Water: 18.31 ft	Pump Type: Peri Tubing Type: Poly Pump Intake From TOC: 21.71 ft Estimated Total Volume Pumped: 6 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.23 ft	Instrument Used: Aqua TROLL 400 Serial Number: 966090
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Test Notes:

Five bottles: Full app. III and IV.

Weather Conditions:

Cloudy, 46 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 5	
2/1/2023 10:19 AM	00:00	4.64 pH	15.40 °C	1,603.3 µS/cm	1.68 mg/L	14.30 NTU	233.2 mV	18.37 ft	200.00 ml/min
2/1/2023 10:24 AM	05:00	4.63 pH	15.65 °C	1,539.3 µS/cm	1.56 mg/L	5.57 NTU	224.8 mV	18.54 ft	200.00 ml/min
2/1/2023 10:29 AM	10:00	4.64 pH	15.65 °C	1,552.3 µS/cm	1.51 mg/L	7.18 NTU	218.9 mV	18.54 ft	200.00 ml/min
2/1/2023 10:34 AM	15:00	4.65 pH	15.69 °C	1,498.4 µS/cm	1.45 mg/L	5.31 NTU	213.8 mV	18.54 ft	200.00 ml/min
2/1/2023 10:39 AM	20:00	4.66 pH	15.98 °C	1,570.2 µS/cm	1.26 mg/L	5.66 NTU	206.8 mV	18.54 ft	200.00 ml/min
2/1/2023 10:44 AM	25:00	4.66 pH	16.01 °C	1,625.7 µS/cm	1.22 mg/L	4.97 NTU	210.5 mV	18.54 ft	200.00 ml/min
2/1/2023 10:49 AM	30:00	4.66 pH	15.80 °C	1,568.1 µS/cm	1.20 mg/L	4.34 NTU	208.2 mV	18.54 ft	200.00 ml/min

Samples

Sample ID:	Description:
HGWC-18	Grab.

Low-Flow Test Report:

Test Date / Time: 1/27/2023 3:31:37 PM

Project: GP-Plant Hammond

Operator Name: Thomas Kessler

Location Name: MW-21D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 41.88 ft Total Depth: 51.88 ft Initial Depth to Water: 16.8 ft	Pump Type: Bladder Tubing Type: Poly Pump Intake From TOC: 53.21 ft Estimated Total Volume Pumped: 18 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.45 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850724
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Test Notes:

Five bottles; Full app. III and IV.

Weather Conditions:

Cloudy, 46 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 5	
1/27/2023 3:31 PM	00:00	7.05 pH	17.27 °C	2,142.0 µS/cm	0.30 mg/L	34.60 NTU	-111.3 mV	17.25 ft	200.00 ml/min
1/27/2023 3:36 PM	05:00	7.11 pH	17.18 °C	2,129.6 µS/cm	0.16 mg/L	42.40 NTU	-132.9 mV	17.25 ft	200.00 ml/min
1/27/2023 3:41 PM	10:00	7.16 pH	17.04 °C	2,127.1 µS/cm	0.11 mg/L	38.50 NTU	-132.8 mV	17.25 ft	200.00 ml/min
1/27/2023 3:46 PM	15:00	7.19 pH	17.09 °C	2,133.2 µS/cm	0.11 mg/L	34.70 NTU	-132.0 mV	17.25 ft	200.00 ml/min
1/27/2023 3:51 PM	20:00	7.21 pH	17.01 °C	2,131.3 µS/cm	0.11 mg/L	29.50 NTU	-130.7 mV	17.25 ft	200.00 ml/min
1/27/2023 3:56 PM	25:00	7.23 pH	17.00 °C	2,128.9 µS/cm	0.11 mg/L	25.70 NTU	-107.1 mV	17.25 ft	200.00 ml/min
1/27/2023 4:01 PM	30:00	7.25 pH	17.00 °C	2,127.9 µS/cm	0.11 mg/L	21.90 NTU	-105.6 mV	17.25 ft	200.00 ml/min
1/27/2023 4:06 PM	35:00	7.26 pH	17.00 °C	2,129.1 µS/cm	0.11 mg/L	20.30 NTU	-104.8 mV	17.25 ft	200.00 ml/min
1/27/2023 4:11 PM	40:00	7.27 pH	17.11 °C	2,124.6 µS/cm	0.12 mg/L	17.40 NTU	-125.1 mV	17.25 ft	200.00 ml/min
1/27/2023 4:16 PM	45:00	7.28 pH	17.07 °C	2,125.5 µS/cm	0.11 mg/L	14.10 NTU	-124.5 mV	17.25 ft	200.00 ml/min
1/27/2023 4:21 PM	50:00	7.28 pH	17.07 °C	2,122.0 µS/cm	0.11 mg/L	12.20 NTU	-103.1 mV	17.25 ft	200.00 ml/min
1/27/2023 4:26 PM	55:00	7.29 pH	17.09 °C	2,125.4 µS/cm	0.11 mg/L	11.62 NTU	-102.9 mV	17.25 ft	200.00 ml/min

1/27/2023 4:31 PM	01:00:00	7.29 pH	17.06 °C	2,125.1 μS/cm	0.11 mg/L	10.14 NTU	-122.4 mV	17.25 ft	200.00 ml/min
1/27/2023 4:36 PM	01:05:00	7.30 pH	17.00 °C	2,124.5 μS/cm	0.11 mg/L	9.95 NTU	-102.2 mV	17.25 ft	200.00 ml/min
1/27/2023 4:41 PM	01:10:00	7.30 pH	17.04 °C	2,120.7 μS/cm	0.11 mg/L	8.14 NTU	-101.5 mV	17.25 ft	200.00 ml/min
1/27/2023 4:46 PM	01:15:00	7.30 pH	17.23 °C	2,115.0 μS/cm	0.11 mg/L	6.89 NTU	-101.5 mV	17.25 ft	200.00 ml/min
1/27/2023 4:51 PM	01:20:00	7.31 pH	17.05 °C	2,122.6 μS/cm	0.11 mg/L	6.24 NTU	-120.8 mV	17.25 ft	200.00 ml/min
1/27/2023 4:56 PM	01:25:00	7.31 pH	16.99 °C	2,122.3 μS/cm	0.12 mg/L	5.64 NTU	-120.3 mV	17.25 ft	200.00 ml/min
1/27/2023 5:01 PM	01:30:00	7.31 pH	17.09 °C	2,121.3 μS/cm	0.11 mg/L	4.98 NTU	-101.4 mV	17.25 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-MW-21D	Grab.

Low-Flow Test Report:

Test Date / Time: 1/30/2023 5:10:05 PM

Project: GP-Plant Hammond

Operator Name: Anthony Szwast

Location Name: MW-22 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 27.47 ft Total Depth: 37.47 ft Initial Depth to Water: 11.91 ft	Pump Type: Bladder Tubing Type: Poly Pump Intake From TOC: 32.47 ft Estimated Total Volume Pumped: 9.5 liter Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 8.33 ft	Instrument Used: Aqua TROLL 400 Serial Number: 883533
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Test Notes:

Five bottles: Full App. III and IV.

Weather Conditions:

Cloudy, 50 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
1/30/2023 5:10 PM	00:00	5.52 pH	17.42 °C	1,377.1 µS/cm	3.15 mg/L	2.52 NTU	177.9 mV	15.06 ft	250.00 ml/min
1/30/2023 5:15 PM	05:00	5.51 pH	17.47 °C	1,351.3 µS/cm	3.84 mg/L	1.75 NTU	240.8 mV	16.52 ft	250.00 ml/min
1/30/2023 5:20 PM	10:00	5.50 pH	17.45 °C	1,338.3 µS/cm	3.69 mg/L	1.44 NTU	183.1 mV	17.73 ft	250.00 ml/min
1/30/2023 5:25 PM	15:00	5.49 pH	17.47 °C	1,351.3 µS/cm	3.48 mg/L	1.26 NTU	240.5 mV	18.90 ft	250.00 ml/min
1/30/2023 5:30 PM	20:00	5.49 pH	17.09 °C	1,346.4 µS/cm	3.36 mg/L	0.92 NTU	182.8 mV	19.12 ft	100.00 ml/min
1/30/2023 5:35 PM	25:00	5.48 pH	16.88 °C	1,352.5 µS/cm	2.75 mg/L	1.16 NTU	241.5 mV	19.29 ft	100.00 ml/min
1/30/2023 5:40 PM	30:00	5.47 pH	16.92 °C	1,353.9 µS/cm	2.25 mg/L	0.98 NTU	238.4 mV	19.43 ft	100.00 ml/min
1/30/2023 5:45 PM	35:00	5.47 pH	16.88 °C	1,354.9 µS/cm	1.88 mg/L	0.83 NTU	239.1 mV	19.59 ft	100.00 ml/min
1/30/2023 5:50 PM	40:00	5.47 pH	16.95 °C	1,353.0 µS/cm	1.60 mg/L	0.92 NTU	181.2 mV	19.73 ft	100.00 ml/min
1/30/2023 5:55 PM	45:00	5.46 pH	16.96 °C	1,355.6 µS/cm	1.42 mg/L	0.93 NTU	246.1 mV	19.85 ft	100.00 ml/min
1/30/2023 6:00 PM	50:00	5.47 pH	16.96 °C	1,353.9 µS/cm	1.28 mg/L	1.14 NTU	176.5 mV	19.99 ft	100.00 ml/min
1/30/2023 6:05 PM	55:00	5.46 pH	16.94 °C	1,356.2 µS/cm	1.19 mg/L	1.04 NTU	240.4 mV	20.11 ft	100.00 ml/min
1/30/2023 6:10 PM	01:00:00	5.47 pH	16.96 °C	1,355.3 µS/cm	1.13 mg/L	1.01 NTU	179.9 mV	20.24 ft	100.00 ml/min

Samples

Sample ID:	Description:
HAM-MW-22	Grab.

Low-Flow Test Report:

Test Date / Time: 2/1/2023 12:45:43 PM

Project: GP-Plant Hammond

Operator Name: Anthony Szwast

Location Name: MW-23D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 52.24 ft Total Depth: 62.24 ft Initial Depth to Water: 16.35 ft	Pump Type: Peristaltic Tubing Type: Poly Pump Intake From TOC: 57.24 ft Estimated Total Volume Pumped: 7 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.14 ft	Instrument Used: Aqua TROLL 400 Serial Number: 883533
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Test Notes:

Five bottles: Full App. III and IV.

Weather Conditions:

Cloudy, 45 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
2/1/2023 12:45 PM	00:00	6.70 pH	17.47 °C	1,735.4 µS/cm	0.31 mg/L	0.99 NTU	4.1 mV	16.48 ft	200.00 ml/min
2/1/2023 12:50 PM	05:00	6.72 pH	17.72 °C	1,737.6 µS/cm	0.20 mg/L	0.89 NTU	9.6 mV	16.48 ft	200.00 ml/min
2/1/2023 12:55 PM	10:00	6.70 pH	17.72 °C	1,751.0 µS/cm	0.16 mg/L	0.82 NTU	13.6 mV	16.48 ft	200.00 ml/min
2/1/2023 1:00 PM	15:00	6.69 pH	17.81 °C	1,750.4 µS/cm	0.13 mg/L	0.71 NTU	23.4 mV	16.49 ft	200.00 ml/min
2/1/2023 1:05 PM	20:00	6.69 pH	17.77 °C	1,755.0 µS/cm	0.12 mg/L	0.58 NTU	21.0 mV	16.49 ft	200.00 ml/min
2/1/2023 1:10 PM	25:00	6.69 pH	17.90 °C	1,752.4 µS/cm	0.10 mg/L	0.68 NTU	26.4 mV	16.49 ft	200.00 ml/min
2/1/2023 1:15 PM	30:00	6.69 pH	17.81 °C	1,753.5 µS/cm	0.09 mg/L	0.85 NTU	24.6 mV	16.49 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-MW-23D	Grab.
HAM-AP-2-FD-02	Grab.

Low-Flow Test Report:

Test Date / Time: 1/27/2023 1:59:16 PM

Project: GP-Plant Hammond

Operator Name: Thomas Kessler

Location Name: MW-33 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 27.72 ft Total Depth: 37.72 ft Initial Depth to Water: 24.93 ft	Pump Type: Bladder Tubing Type: Poly Pump Intake From TOC: 53.21 ft Estimated Total Volume Pumped: 7 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.12 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850724
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Test Notes:

Five bottles; Full app. III and IV.

Weather Conditions:

Sunny, 45 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 5	
1/27/2023 1:59 PM	00:00	5.37 pH	18.30 °C	2,318.5 µS/cm	0.77 mg/L	8.25 NTU	176.8 mV	25.05 ft	200.00 ml/min
1/27/2023 2:04 PM	05:00	5.54 pH	18.43 °C	2,234.5 µS/cm	0.61 mg/L	4.22 NTU	192.7 mV	25.05 ft	200.00 ml/min
1/27/2023 2:09 PM	10:00	5.57 pH	18.45 °C	2,212.5 µS/cm	0.56 mg/L	3.88 NTU	172.7 mV	25.05 ft	200.00 ml/min
1/27/2023 2:14 PM	15:00	5.58 pH	18.25 °C	2,206.9 µS/cm	0.57 mg/L	2.44 NTU	158.7 mV	25.05 ft	200.00 ml/min
1/27/2023 2:19 PM	20:00	5.59 pH	18.34 °C	2,208.9 µS/cm	0.52 mg/L	1.59 NTU	148.2 mV	25.05 ft	200.00 ml/min
1/27/2023 2:24 PM	25:00	5.60 pH	18.21 °C	2,203.7 µS/cm	0.47 mg/L	1.25 NTU	139.7 mV	25.05 ft	200.00 ml/min
1/27/2023 2:29 PM	30:00	5.61 pH	18.39 °C	2,199.2 µS/cm	0.42 mg/L	1.38 NTU	133.3 mV	25.05 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-MW-33	Grab.

Low-Flow Test Report:

Test Date / Time: 1/30/2023 12:25:24 PM

Project: GP-Plant Hammond

Operator Name: Connor Cain

Location Name: MW-34D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 63.68 ft Total Depth: 73.68 ft Initial Depth to Water: 28.98 ft	Pump Type: Bladder Tubing Type: Poly Pump Intake From TOC: 68.98 ft Estimated Total Volume Pumped: 3.5 liter Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 0.04 ft	Instrument Used: Aqua TROLL 400 Serial Number: 966090
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Test Notes:

Five bottles; Full app. III and IV.

Weather Conditions:

Rain, 50 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 5	
1/30/2023 12:25 PM	00:00	7.06 pH	17.29 °C	2,548.9 µS/cm	2.28 mg/L	5.87 NTU	-18.4 mV	28.92 ft	100.00 ml/min
1/30/2023 12:30 PM	05:00	7.03 pH	17.85 °C	2,569.6 µS/cm	1.09 mg/L	6.13 NTU	-30.1 mV	28.99 ft	100.00 ml/min
1/30/2023 12:35 PM	10:00	7.03 pH	18.11 °C	2,558.8 µS/cm	0.92 mg/L	4.90 NTU	-32.0 mV	29.02 ft	100.00 ml/min
1/30/2023 12:40 PM	15:00	6.90 pH	18.30 °C	2,569.5 µS/cm	1.11 mg/L	2.33 NTU	-14.3 mV	29.02 ft	100.00 ml/min
1/30/2023 12:45 PM	20:00	6.88 pH	18.29 °C	2,555.6 µS/cm	1.22 mg/L	1.20 NTU	-13.8 mV	29.02 ft	100.00 ml/min
1/30/2023 12:50 PM	25:00	6.94 pH	18.51 °C	2,574.7 µS/cm	0.83 mg/L	2.20 NTU	-7.6 mV	29.02 ft	100.00 ml/min
1/30/2023 12:55 PM	30:00	6.98 pH	18.51 °C	2,583.3 µS/cm	0.90 mg/L	3.24 NTU	-0.9 mV	29.02 ft	100.00 ml/min
1/30/2023 1:00 PM	35:00	6.99 pH	18.42 °C	2,625.3 µS/cm	0.97 mg/L	3.88 NTU	3.8 mV	29.02 ft	100.00 ml/min

Samples

Sample ID:	Description:
MW-34D	Grab sample.

Low-Flow Test Report:

Test Date / Time: 2/1/2023 9:27:36 AM

Project: GP-Plant Hammond

Operator Name: Thomas Kessler

Location Name: MW-35 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 13.52 ft Total Depth: 23.52 ft Initial Depth to Water: 7.6 ft	Pump Type: Peristaltic Tubing Type: Poly Pump Intake From TOC: 18.52 ft Estimated Total Volume Pumped: 3.5 liter Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 1.3 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850724
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Test Notes:

Five bottles; Full app. III and IV.

Weather Conditions:

Cloudy, 50 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 5	
2/1/2023 9:27 AM	00:00	5.08 pH	13.08 °C	2,513.4 µS/cm	2.82 mg/L	9.20 NTU	308.7 mV	8.40 ft	100.00 ml/min
2/1/2023 9:32 AM	05:00	4.93 pH	13.83 °C	2,523.2 µS/cm	2.67 mg/L	8.22 NTU	473.3 mV	8.63 ft	100.00 ml/min
2/1/2023 9:37 AM	10:00	4.91 pH	14.04 °C	2,494.7 µS/cm	2.59 mg/L	8.00 NTU	374.7 mV	8.70 ft	100.00 ml/min
2/1/2023 9:42 AM	15:00	4.90 pH	14.17 °C	2,497.7 µS/cm	2.55 mg/L	7.04 NTU	382.7 mV	8.80 ft	100.00 ml/min
2/1/2023 9:47 AM	20:00	4.89 pH	14.22 °C	2,505.0 µS/cm	2.46 mg/L	6.62 NTU	521.6 mV	8.85 ft	100.00 ml/min
2/1/2023 9:52 AM	25:00	4.89 pH	14.42 °C	2,498.5 µS/cm	2.43 mg/L	5.25 NTU	522.1 mV	8.90 ft	100.00 ml/min
2/1/2023 9:57 AM	30:00	4.89 pH	14.58 °C	2,484.1 µS/cm	2.37 mg/L	4.89 NTU	387.8 mV	8.90 ft	100.00 ml/min

Samples

Sample ID:	Description:
HAM-MW-35	Grab.

Low-Flow Test Report:

Test Date / Time: 1/30/2023 12:31:44 PM

Project: GP-Plant Hammond

Operator Name: Anthony Szwast

Location Name: MW-37D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 66.63 ft Total Depth: 76.63 ft Initial Depth to Water: 16.64 ft	Pump Type: Bladder Tubing Type: Poly Pump Intake From TOC: 71.63 ft Estimated Total Volume Pumped: 42.5 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 30.98 ft	Instrument Used: Aqua TROLL 400 Serial Number: 883533
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Test Notes:

Five bottles: Full App. III and IV.

Weather Conditions:

Rainy, 50 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
1/30/2023 12:31 PM	00:00	7.51 pH	16.91 °C	621.16 µS/cm	1.10 mg/L	4.65 NTU	1.7 mV	18.68 ft	200.00 ml/min
1/30/2023 12:36 PM	05:00	7.52 pH	17.01 °C	611.01 µS/cm	0.90 mg/L	2.02 NTU	11.6 mV	20.50 ft	200.00 ml/min
1/30/2023 12:41 PM	10:00	7.53 pH	17.05 °C	607.62 µS/cm	0.74 mg/L	1.60 NTU	11.6 mV	21.47 ft	200.00 ml/min
1/30/2023 12:46 PM	15:00	7.53 pH	17.10 °C	603.01 µS/cm	0.64 mg/L	1.62 NTU	11.0 mV	22.62 ft	200.00 ml/min
1/30/2023 12:51 PM	20:00	7.53 pH	17.12 °C	599.99 µS/cm	0.58 mg/L	1.45 NTU	10.1 mV	23.77 ft	200.00 ml/min
1/30/2023 12:56 PM	25:00	7.53 pH	17.18 °C	597.42 µS/cm	0.52 mg/L	1.39 NTU	8.9 mV	25.01 ft	200.00 ml/min
1/30/2023 1:01 PM	30:00	7.53 pH	17.18 °C	599.35 µS/cm	0.45 mg/L	1.36 NTU	7.1 mV	26.01 ft	200.00 ml/min
1/30/2023 1:06 PM	35:00	7.54 pH	17.18 °C	598.08 µS/cm	0.43 mg/L	1.32 NTU	4.8 mV	27.10 ft	200.00 ml/min
1/30/2023 1:11 PM	40:00	7.53 pH	17.22 °C	597.70 µS/cm	0.39 mg/L	1.44 NTU	0.1 mV	28.13 ft	200.00 ml/min
1/30/2023 1:16 PM	45:00	7.53 pH	17.23 °C	598.26 µS/cm	0.36 mg/L	1.20 NTU	-5.0 mV	29.01 ft	200.00 ml/min
1/30/2023 1:21 PM	50:00	7.53 pH	17.21 °C	596.55 µS/cm	0.34 mg/L	1.29 NTU	-30.3 mV	30.05 ft	200.00 ml/min
1/30/2023 1:26 PM	55:00	7.53 pH	17.23 °C	596.70 µS/cm	0.31 mg/L	1.64 NTU	-15.7 mV	30.91 ft	200.00 ml/min
1/30/2023 1:31 PM	01:00:00	7.53 pH	17.23 °C	595.28 µS/cm	0.30 mg/L	1.22 NTU	-42.7 mV	31.76 ft	200.00 ml/min

1/30/2023 1:36 PM	01:05:00	7.53 pH	17.28 °C	594.87 µS/cm	0.29 mg/L	1.41 NTU	-27.9 mV	32.53 ft	200.00 ml/min
1/30/2023 1:41 PM	01:10:00	7.53 pH	17.30 °C	594.85 µS/cm	0.27 mg/L	1.19 NTU	-53.6 mV	33.32 ft	200.00 ml/min
1/30/2023 1:46 PM	01:15:00	7.53 pH	17.31 °C	595.12 µS/cm	0.26 mg/L	1.46 NTU	-36.7 mV	34.21 ft	200.00 ml/min
1/30/2023 1:51 PM	01:20:00	7.53 pH	17.32 °C	594.85 µS/cm	0.26 mg/L	1.50 NTU	-62.3 mV	34.93 ft	200.00 ml/min
1/30/2023 1:56 PM	01:25:00	7.53 pH	17.36 °C	594.66 µS/cm	0.25 mg/L	1.62 NTU	-45.5 mV	35.65 ft	200.00 ml/min
1/30/2023 2:01 PM	01:30:00	7.53 pH	17.34 °C	594.39 µS/cm	0.24 mg/L	1.79 NTU	-69.1 mV	36.38 ft	200.00 ml/min
1/30/2023 2:06 PM	01:35:00	7.53 pH	17.36 °C	594.14 µS/cm	0.24 mg/L	1.79 NTU	-53.4 mV	37.01 ft	200.00 ml/min
1/30/2023 2:11 PM	01:40:00	7.53 pH	17.31 °C	594.46 µS/cm	0.23 mg/L	1.76 NTU	-57.4 mV	37.68 ft	200.00 ml/min
1/30/2023 2:16 PM	01:45:00	7.53 pH	17.30 °C	593.82 µS/cm	0.23 mg/L	1.79 NTU	-61.0 mV	38.31 ft	200.00 ml/min
1/30/2023 2:21 PM	01:50:00	7.53 pH	17.27 °C	593.86 µS/cm	0.23 mg/L	2.03 NTU	-82.1 mV	38.95 ft	200.00 ml/min
1/30/2023 2:26 PM	01:55:00	7.53 pH	17.28 °C	594.22 µS/cm	0.23 mg/L	1.40 NTU	-67.9 mV	39.53 ft	200.00 ml/min
1/30/2023 2:31 PM	02:00:00	7.53 pH	17.28 °C	593.11 µS/cm	0.24 mg/L	1.28 NTU	-88.0 mV	40.14 ft	200.00 ml/min
1/30/2023 2:36 PM	02:05:00	7.53 pH	17.23 °C	593.03 µS/cm	0.23 mg/L	1.65 NTU	-74.5 mV	40.75 ft	200.00 ml/min
1/30/2023 2:41 PM	02:10:00	7.53 pH	17.25 °C	593.38 µS/cm	0.24 mg/L	1.54 NTU	-77.2 mV	41.28 ft	200.00 ml/min
1/30/2023 2:46 PM	02:15:00	7.53 pH	17.28 °C	592.81 µS/cm	0.24 mg/L	1.36 NTU	-80.0 mV	41.84 ft	200.00 ml/min
1/30/2023 2:51 PM	02:20:00	7.54 pH	17.28 °C	593.92 µS/cm	0.25 mg/L	1.45 NTU	-82.8 mV	42.38 ft	200.00 ml/min
1/30/2023 2:56 PM	02:25:00	7.54 pH	17.29 °C	594.42 µS/cm	0.25 mg/L	1.23 NTU	-98.9 mV	42.90 ft	200.00 ml/min
1/30/2023 3:01 PM	02:30:00	7.54 pH	17.24 °C	594.04 µS/cm	0.26 mg/L	1.36 NTU	-86.7 mV	43.40 ft	200.00 ml/min
1/30/2023 3:06 PM	02:35:00	7.54 pH	17.23 °C	596.19 µS/cm	0.25 mg/L	1.31 NTU	-89.1 mV	43.93 ft	200.00 ml/min
1/30/2023 3:11 PM	02:40:00	7.54 pH	17.27 °C	596.94 µS/cm	0.26 mg/L	1.41 NTU	-90.5 mV	44.42 ft	200.00 ml/min
1/30/2023 3:16 PM	02:45:00	7.54 pH	17.21 °C	596.24 µS/cm	0.26 mg/L	1.31 NTU	-92.0 mV	44.88 ft	200.00 ml/min
1/30/2023 3:21 PM	02:50:00	7.54 pH	17.23 °C	598.54 µS/cm	0.27 mg/L	1.41 NTU	-93.2 mV	45.36 ft	200.00 ml/min
1/30/2023 3:26 PM	02:55:00	7.54 pH	17.27 °C	596.84 µS/cm	0.26 mg/L	1.51 NTU	-107.6 mV	45.80 ft	200.00 ml/min
1/30/2023 3:31 PM	03:00:00	7.54 pH	17.21 °C	602.08 µS/cm	0.27 mg/L	1.57 NTU	-96.6 mV	46.22 ft	200.00 ml/min
1/30/2023 3:36 PM	03:05:00	7.55 pH	17.24 °C	600.66 µS/cm	0.26 mg/L	1.49 NTU	-98.5 mV	46.63 ft	200.00 ml/min
1/30/2023 3:41 PM	03:10:00	7.55 pH	17.23 °C	601.84 µS/cm	0.26 mg/L	1.35 NTU	-111.6 mV	47.05 ft	200.00 ml/min
1/30/2023 3:46 PM	03:15:00	7.55 pH	17.24 °C	604.04 µS/cm	0.27 mg/L	1.51 NTU	-101.8 mV	47.45 ft	200.00 ml/min
1/30/2023 3:51 PM	03:20:00	7.55 pH	17.23 °C	611.88 µS/cm	0.26 mg/L	1.40 NTU	-103.1 mV	47.81 ft	200.00 ml/min
1/30/2023 3:56 PM	03:25:00	7.55 pH	16.96 °C	614.87 µS/cm	0.26 mg/L	1.37 NTU	-103.3 mV	47.78 ft	200.00 ml/min

1/30/2023 4:01 PM	03:30:00	7.56 pH	16.92 °C	594.32 µS/cm	0.28 mg/L	1.69 NTU	-116.6 mV	47.71 ft	200.00 ml/min
1/30/2023 4:06 PM	03:35:00	7.56 pH	16.91 °C	594.26 µS/cm	0.27 mg/L	1.44 NTU	-109.7 mV	47.62 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-MW-37D	Grab.

Low-Flow Test Report:

Test Date / Time: 2/1/2023 10:58:11 AM

Project: GP-Plant Hammond

Operator Name: Thomas Kessler

Location Name: MW-51 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 18.9 ft Total Depth: 28.9 ft Initial Depth to Water: 8.12 ft	Pump Type: Peristaltic Tubing Type: Poly Pump Intake From TOC: 23.9 ft Estimated Total Volume Pumped: 3.5 ml Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 0.78 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850724
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Test Notes:

Three bottles: Full app. III and IV.

Weather Conditions:

Cloudy, 42 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 5	
2/1/2023 10:58 AM	00:00	6.35 pH	13.63 °C	2,382.1 µS/cm	2.39 mg/L	6.89 NTU	257.8 mV	8.75 ft	100.00 ml/min
2/1/2023 11:03 AM	05:00	6.37 pH	13.85 °C	2,392.8 µS/cm	2.32 mg/L	5.73 NTU	250.7 mV	8.80 ft	100.00 ml/min
2/1/2023 11:08 AM	10:00	6.39 pH	14.04 °C	2,380.3 µS/cm	2.24 mg/L	6.15 NTU	236.5 mV	8.85 ft	100.00 ml/min
2/1/2023 11:13 AM	15:00	6.39 pH	14.17 °C	2,362.5 µS/cm	2.17 mg/L	4.73 NTU	158.8 mV	8.87 ft	100.00 ml/min
2/1/2023 11:18 AM	20:00	6.39 pH	14.22 °C	2,374.6 µS/cm	2.17 mg/L	3.99 NTU	148.1 mV	8.90 ft	100.00 ml/min
2/1/2023 11:23 AM	25:00	6.37 pH	14.38 °C	2,375.8 µS/cm	2.10 mg/L	3.91 NTU	194.9 mV	8.90 ft	100.00 ml/min
2/1/2023 11:28 AM	30:00	6.37 pH	14.40 °C	2,366.8 µS/cm	2.13 mg/L	4.51 NTU	188.6 mV	8.90 ft	100.00 ml/min

Samples

Sample ID:	Description:
MW-51	Grab.

CALIBRATION REPORTS

EQUIPMENT CALIBRATION LOG

Field Technician Anthony S.

Date 1/23/2023

Time (start) 1540

Time (finish) 1600

smarTroll SN 883533

Turbidity Meter Type LaMotte 2020we

SN 7007-1416

Weather Conditions 45°F, Partly cloudy

Facility and Unit Hammond

Project No. GW6581

Calibration log

	Standard Lot # / Date of Expiration	Temp of Standard (°C)	Value of Standard	Initial Reading	Post-Cal Reading	Acceptable Range	Pass?	Comments
Specific Conductance (µS/cm)	22250153	13.95	4490	3729.1	4490	+/- 5 %	<input checked="" type="radio"/> Yes No	
pH (4)	11/2023	14.13	4.00	3.95	4.00	+/- 0.1 SU	<input checked="" type="radio"/> Yes No	
Mid-Day pH (4) check			4.00			+/- 0.1 SU	Yes No	
pH (7)	2216893 11/2023	14.09	7.00	7.34	7.00	+/- 0.1 SU	<input checked="" type="radio"/> Yes No	
Mid-Day pH (7) check			7.00			+/- 0.1 SU	Yes No	
pH (10)	21320202 12/2023	14.40	10.00	11.09	10.00	+/- 0.1 SU	<input checked="" type="radio"/> Yes No	
Mid-Day pH (10) check			10.00			+/- 0.1 SU	Yes No	
ORP (mV)	21390144 11/2023	14.22	228	246.4	228.0	+/- 20mV	<input checked="" type="radio"/> Yes No	
DO (%) (1pt, 100% water saturated air cal)			100	105.08	100.0	+/- 6 % saturation	<input checked="" type="radio"/> Yes No	
Turbidity 0 NTU			0	0.00	—	+/- 0.5 NTU	<input checked="" type="radio"/> Yes No	
Turbidity 1 NTU			1.00	0.44	0.71	+/- 0.5 NTU	<input checked="" type="radio"/> Yes No	
Turbidity 10 NTU			10.00	11.07	10.06	+/- 0.5 NTU	<input checked="" type="radio"/> Yes No	

EQUIPMENT CALIBRATION LOG

Field Technician: C. CRAIG

Date: 1/23/23

Time (start): 1455

Time (finish): 1520

smarTroll SN: 966090

Turbidity Meter Type: LaMotte 2020we

SN: 7009

Weather Conditions: Sunny 50°F

Facility and Unit: Hammond

Project No: GW6581

Calibration log

	Standard Lot # / Date of Expiration	Temp of Standard (°C)	Value of Standard	Initial Reading	Post-Cal Reading	Acceptable Range	Pass?	Comments
Specific Conductance (µS/cm)	22250153 11/23	15.74	4490	4294	4490	+/- 5 %	<input checked="" type="checkbox"/> Yes No	
pH (4)			4.00	4.06	4.0	+/- 0.1 SU	<input checked="" type="checkbox"/> Yes No	
Mid-Day pH (4) check			4.00			+/- 0.1 SU	<input checked="" type="checkbox"/> Yes No	
pH (7)	2216893 11/23	16.55	7.00	7.37	7.0	+/- 0.1 SU	<input checked="" type="checkbox"/> Yes No	
Mid-Day pH (7) check					7.00			+/- 0.1 SU
pH (10)	212320202 12/23	16.96	10.00	10.99	10	+/- 0.1 SU	<input checked="" type="checkbox"/> Yes No	
Mid-Day pH (10) check					10.00			+/- 0.1 SU
ORP (mV)	21390144 11/23	16.72	228	243	228	+/- 20mV	<input checked="" type="checkbox"/> Yes No	
DO (%) (1pt, 100% water saturated air cal)			100	101.05	100	+/- 6 % saturation	<input checked="" type="checkbox"/> Yes No	
Turbidity 0 NTU			0	0.31	0.25	+/- 0.5 NTU	<input checked="" type="checkbox"/> Yes No	
Turbidity 1 NTU			1.00	0.85	1.00	+/- 0.5 NTU	<input checked="" type="checkbox"/> Yes No	
Turbidity 10 NTU			10.00	9.56	10.00	+/- 0.5 NTU	<input checked="" type="checkbox"/> Yes No	

EQUIPMENT CALIBRATION LOG

Field Technician: Thomas Kessler Date: 1/23/23 Time (start): 1545 Time (finish): 1535
 smarTroll SN: 850724 Turbidity Meter Type: LaMotte 2020we SN: 5896-3715
 Weather Conditions: partly cloudy, 50° Facility and Unit: Plant Hammond Project No.: GW6581

Calibration log

	Standard Lot # / Date of Expiration	Temp of Standard (°C)	Value of Standard	Initial Reading	Post-Cal Reading	Acceptable Range	Pass?	Comments
Specific Conductance (µS/cm)	22250153	17.04	4490	4307.1	4490	+/- 5 %	<input checked="" type="radio"/> Yes No	
pH (4)	11/23		4.00	4.07	4.0	+/- 0.1 SU	<input checked="" type="radio"/> Yes No	
Mid-Day pH (4) check	2216543 11/23 ↓	10.55 ↓	4.00	6.97 ↓	7.0	+/- 0.1 SU	<input checked="" type="radio"/> Yes No	
pH (7)			7.00			+/- 0.1 SU	Yes No	
Mid-Day pH (7) check	_____		7.00			+/- 0.1 SU	Yes No	_____
pH (10)	21320200 12/23	16.20	10.00	9.65	10.0	+/- 0.1 SU	Yes No	
Mid-Day pH (10) check	_____		10.00			+/- 0.1 SU	Yes No	_____
ORP (mV)	21390144 11/23	14.43	228	241.1	228	+/- 20mV	<input checked="" type="radio"/> Yes No	
DO (%) (1pt, 100% water saturated air cal)			100	99.8	100	+/- 6 % saturation	<input checked="" type="radio"/> Yes No	
Turbidity 0 NTU			0	0	0	+/- 0.5 NTU	<input checked="" type="radio"/> Yes No	
Turbidity 1 NTU			1.00	0.82	1.0	+/- 0.5 NTU	<input checked="" type="radio"/> Yes No	
Turbidity 10 NTU			10.00	9.44	10.1	+/- 0.5 NTU	<input checked="" type="radio"/> Yes No	

EQUIPMENT CALIBRATION LOG

Field Technician Anthony S. Date 1/24/2023 Time (start) 755 Time (finish) 815
 smarTroll SN 883533 Turbidity Meter Type LaMotte 2020we SN: 7007-1416
 Weather Conditions Clear, 25°F Facility and Unit Plant Hammond Project No. GW6581

Calibration log

	Standard Lot # / Date of Expiration	Temp of Standard (°C)	Value of Standard	Initial Reading	Post-Cal Reading	Acceptable Range	Pass?	Comments
Specific Conductance (µS/cm)	22250153	-0.14	4490	4315.5	4490	+/- 5 %	Yes No	
pH (4)	11/2023	-0.11	4.00	4.74	4.00	+/- 0.1 SU	Yes No	
Mid-Day pH (4) check	22250153 11/2023	19.36	4.00	3.37	4.00	+/- 0.1 SU	Yes No	
pH (7)	2216893 11/2023	0.41	7.00	7.31	7.00	+/- 0.1 SU	Yes No	
Mid-Day pH (7) check	2216893 11/2023	11.01	7.00	6.93	7.06	+/- 0.1 SU	Yes No	
pH (10)	21320202 12/2023	1.01	10.00	10.21	10.00	+/- 0.1 SU	Yes No	
Mid-Day pH (10) check	21320202 12/2023	10.55	10.00	10.07	10.14	+/- 0.1 SU	Yes No	
ORP (mV)	21340144 11/2023	1.11	228	248.0	228	+/- 20mV	Yes No	
DO (%) (1pt, 100% water saturated air cal)			100	94.50	100.0	+/- 6 % saturation	Yes No	
Turbidity 0 NTU			0	0.00	—	+/- 0.5 NTU	Yes No	
Turbidity 1 NTU			1.00	0.45	0.59	+/- 0.5 NTU	Yes No	
Turbidity 10 NTU			10.00	11.79	9.99	+/- 0.5 NTU	Yes No	

EQUIPMENT CALIBRATION LOG

Field Technician: C. CAIN

Date: 1/24/23

Time (start): 0716

Time (finish): 0735

SmartTroll SN: 966040

Turbidity Meter Type: LaMotte 2020we

SN: 7009

Weather Conditions: Cloudy 28F

Facility and Unit: Plant Hammond

Project No.: GW6581

Calibration log

	Standard Lot # / Date of Expiration	Temp of Standard (°C)	Value of Standard	Initial Reading	Post-Cal Reading	Acceptable Range	Pass?	Comments
Specific Conductance (µS/cm)	22250153 11/23	6.33	4490	3900 3900	4490	+/- 5 %	<input checked="" type="checkbox"/> No	
pH (4)	↓	/	4.00	3.92 3.92	4.0	+/- 0.1 SU	<input checked="" type="checkbox"/> No	
Mid-Day pH (4) check	↓	/	4.00	3.92 3.96	4.0 4.0	+/- 0.1 SU	<input checked="" type="checkbox"/> No	
pH (7)	2216893 11/23	7.42	7.00	7.05	7.0	+/- 0.1 SU	<input checked="" type="checkbox"/> No	
Mid-Day pH (7) check	↓	/	7.00	7.06	7.0	+/- 0.1 SU	<input checked="" type="checkbox"/> No	
pH (10)	212320202 12/23	7.69	10.00	10.19	10.0	+/- 0.1 SU	<input checked="" type="checkbox"/> No	
Mid-Day pH (10) check	↓	/	10.00	9.97	10.0	+/- 0.1 SU	<input checked="" type="checkbox"/> No	
ORP (mV)	21390144 11/23	7.59	228	242.8	228	+/- 20mV	<input checked="" type="checkbox"/> No	
DO (%) (1pt, 100% water saturated air cal)			100	100.62	100	+/- 6 % saturation	<input checked="" type="checkbox"/> No	
Turbidity 0 NTU			0	0.35	0.0	+/- 0.5 NTU	<input checked="" type="checkbox"/> No	
Turbidity 1 NTU			1.00	0.72	1.00	+/- 0.5 NTU	<input checked="" type="checkbox"/> No	
Turbidity 10 NTU			10.00	10.83	10.00	+/- 0.5 NTU	<input checked="" type="checkbox"/> No	

EQUIPMENT CALIBRATION LOG

Field Technician: Thomas Kessler Date: 1/24/2025 Time (start): 0700 Time (finish): 0730
 smarTroll SN: 850724 Turbidity Meter Type: LaMotte 2020we SN: 5896-3715
 Weather Conditions: Sunny, 27°F Facility and Unit: Plant Hammond Project No.: GW6581

Calibration log

	Standard Lot # / Date of Expiration	Temp of Standard (°C)	Value of Standard	Initial Reading	Post-Cal Reading	Acceptable Range	Pass?	Comments
Specific Conductance (µS/cm)	22750153	7.55	4490	4166.0	4490	+/- 5 %	<input checked="" type="radio"/> Yes <input type="radio"/> No	
pH (4)	11173		4.00	3.91	4.00	+/- 0.1 SU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Mid-Day pH (4) check	2216893	9.28	4.00	4.01	4.00	+/- 0.1 SU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
pH (7)	2216893 11173	9.26	7.00	7.00	7.00	+/- 0.1 SU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Mid-Day pH (7) check			7.00	6.98	7.00	+/- 0.1 SU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
pH (10)	2180002 11173	9.94	10.00	10.13	10.00	+/- 0.1 SU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Mid-Day pH (10) check			10.00	10.00	10.00	+/- 0.1 SU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
ORP (mV)	213901441 11173	10.09	228	240.4	228	+/- 20mV	<input checked="" type="radio"/> Yes <input type="radio"/> No	
DO (%) (1pt, 100% water saturated air cal)			100	100.44	100	+/- 6 % saturation	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Turbidity 0 NTU			0	0.11	0.08	+/- 0.5 NTU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Turbidity 1 NTU			1.00	1.07	1.00	+/- 0.5 NTU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Turbidity 10 NTU			10.00	10.34	9.98	+/- 0.5 NTU	<input checked="" type="radio"/> Yes <input type="radio"/> No	

EQUIPMENT CALIBRATION LOG

Field Technician: A. Sawast Date: 1/27/2023 Time (start): 755 Time (finish): 830
 smarTroll SN: 883533 Turbidity Meter Type: LaMote 2020we SN: 7007-1416
 Weather Conditions: Sunny, 30°F Facility and Unit: Plant Hammond Project No: GW6581

Calibration log

	Standard Lot # / Date of Expiration	Temp of Standard (°C)	Value of Standard	Initial Reading	Post-Cal Reading	Acceptable Range	Pass?	Comments
Specific Conductance (µS/cm)	22250153 11/2023	1.91	4490	4484.4	4490.0	+/- 5%	<input checked="" type="radio"/> Yes <input type="radio"/> No	
pH (4)		3.33	4.00	4.04	4.00	+/- 0.1 SU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Mid-Day pH (4) check			4.00			+/- 0.1 SU	<input type="radio"/> Yes <input type="radio"/> No	unable to perform mid-day pH check while purging well
pH (7)	2216893 11/2023	3.19	7.00	7.08	7.00	+/- 0.1 SU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Mid-Day pH (7) check			7.00			+/- 0.1 SU	<input type="radio"/> Yes <input type="radio"/> No	
pH (10)	21320202 12/2023	3.58	10.00	4.04	10.00	+/- 0.1 SU	<input checked="" type="radio"/> Yes <input type="radio"/> No	10.15 = initial reading
Mid-Day pH (10) check			10.00			+/- 0.1 SU	<input type="radio"/> Yes <input type="radio"/> No	
ORP (mV)	21396144 11/2023	3.75	228	233.2	228.0	+/- 20mV	<input checked="" type="radio"/> Yes <input type="radio"/> No	
DO (%) (1pt, 100% water saturated air cal)			100	93.64	100.0	+/- 6% saturation	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Turbidity 0 NTU			0	0.03	—	+/- 0.5 NTU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Turbidity 1 NTU			1.00	0.40 1.00	0.42	+/- 0.5 NTU	<input checked="" type="radio"/> Yes <input type="radio"/> No	unable to calibrate with original standard New 1 NTU standard ? 1.00 NTU
Turbidity 10 NTU			10.00	12.07	10.00	+/- 0.5 NTU	<input checked="" type="radio"/> Yes <input type="radio"/> No	

EQUIPMENT CALIBRATION LOG

Field Technician C. CRAIN

Date 1/27/23

Time (start): 0745

Time (finish) 0815

smarTroll SN 966 040

Turbidity Meter Type LaMotte 2020we

SN 7009

Weather Conditions Spring 31

Facility and Unit Plant Hammond

Project No GW6581

Calibration log

	Standard Lot # / Date of Expiration	Temp of Standard (°C)	Value of Standard	Initial Reading	Post-Cal Reading	Acceptable Range	Pass?	Comments
Specific Conductance (µS/cm)	22250153 11/23	7.22	4490	4421	4490	+/- 5%	<input checked="" type="checkbox"/> No	
pH (4)			4.00	3.98	4.0	+/- 0.1 SU	<input checked="" type="checkbox"/> No	
Mid-Day pH (4) check	↓	/	4.00	4.01	4.0	+/- 0.1 SU	<input checked="" type="checkbox"/> No	
pH (7)	2216843 11/23	7.56	7.00	7.05	7.0	+/- 0.1 SU	<input checked="" type="checkbox"/> No	
Mid-Day pH (7) check			↓	/	7.00	7.06	7.0	+/- 0.1 SU
pH (10)	212320202 12/23	7.81	10.00	10.04	10.0	+/- 0.1 SU	<input checked="" type="checkbox"/> No	
Mid-Day pH (10) check			↓	/	10.00	10.04	10.0	+/- 0.1 SU
ORP (mV)	21390144	7.65	228	232.7	228	+/- 20mV	<input checked="" type="checkbox"/> No	
DO (%) (1pt, 100% water saturated air cal)			100	99.42	100	+/- 6% saturation	<input checked="" type="checkbox"/> No	
Turbidity 0 NTU			0	0.00	0.00	+/- 0.5 NTU	<input checked="" type="checkbox"/> No	
Turbidity 1 NTU			1.00	1.08	1.00	+/- 0.5 NTU	<input checked="" type="checkbox"/> No	
Turbidity 10 NTU			10.00	9.81	10.00	+/- 0.5 NTU	<input checked="" type="checkbox"/> No	

EQUIPMENT CALIBRATION LOG

Field Technician A. Swast Date 1/30/2023 Time (start): 730 Time (finish) 750
 smarTroll SN 883577 Turbidity Meter Type: LaMotte 2020we SN 7007-1416
 Weather Conditions Cloudy, 45°F Facility and Unit Plant Hammond Project No. GW6581

Calibration log

	Standard Lot # / Date of Expiration	Temp of Standard (°C)	Value of Standard	Initial Reading	Post-Cal Reading	Acceptable Range	Pass?	Comments
Specific Conductance (µS/cm)	22250153 11/2023	13.17	4490	4225.0	4490	+/- 5%	<input checked="" type="radio"/> Yes <input type="radio"/> No	
pH (4)		12.86	4.00	4.06	4.00	+/- 0.1 SU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Mid-Day pH (4) check			4.00			+/- 0.1 SU	<input type="radio"/> Yes <input type="radio"/> No	
pH (7)	2216893 11/2023	12.42	7.00	7.06	7.00	+/- 0.1 SU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Mid-Day pH (7) check			7.00			+/- 0.1 SU	<input type="radio"/> Yes <input type="radio"/> No	
pH (10)	21320202 12/2023	12.36	10.00	10.09	10.00	+/- 0.1 SU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Mid-Day pH (10) check			10.00			+/- 0.1 SU	<input type="radio"/> Yes <input type="radio"/> No	
ORP (mV)	21390144 11/2023	12.39	228	212.5	228.0	+/- 20mV	<input checked="" type="radio"/> Yes <input type="radio"/> No	
DO (%) (1pt, 100% water saturated air cal)			100	106.82	100.0	+/- 6% saturation	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Turbidity 0 NTU			0	0.00	—	+/- 0.5 NTU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Turbidity 1 NTU			1.00	1.04	0.98	+/- 0.5 NTU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Turbidity 10 NTU			10.00	9.34	10.00	+/- 0.5 NTU	<input checked="" type="radio"/> Yes <input type="radio"/> No	

EQUIPMENT CALIBRATION LOG

Field Technician C. CAN

Date 1/30/23

Time (start): 0715

Time (finish): 0800

smarTroll SN 966040

Turbidity Meter Type LaMotte 2020we

SN 7609

Weather Conditions Sunny 50F

Facility and Unit Plant Hammond

Project No GW6581

Calibration log

	Standard Lot # / Date of Expiration	Temp of Standard (°C)	Value of Standard	Initial Reading	Post-Cal Reading	Acceptable Range	Pass?	Comments
Specific Conductance (µS/cm)	22250153 11/23 ↓	14.74	4490	4435	4496	+/- 5%	<input checked="" type="checkbox"/> Yes No	
pH (4)			4.00	4.05	4.00	+/- 0.1 SU	<input checked="" type="checkbox"/> Yes No	
Mid-Day pH (4) check		/	4.00	3.99	4.0	+/- 0.1 SU	<input checked="" type="checkbox"/> Yes No	
pH (7)	2216893 11/23 ↓		7.00	6.99	7.00	+/- 0.1 SU	<input checked="" type="checkbox"/> Yes No	
Mid-Day pH (7) check				7.00	7.04	7.0	+/- 0.1 SU	<input checked="" type="checkbox"/> Yes No
pH (10)	212320202 12/23 ↓	13.09	10.00	10.03	10.0	+/- 0.1 SU	<input checked="" type="checkbox"/> Yes No	
Mid-Day pH (10) check				10.00	9.92	10.0	+/- 0.1 SU	<input checked="" type="checkbox"/> Yes No
ORP (mV)	2390144 11/23	12.80	228	219	228	+/- 20mV	<input checked="" type="checkbox"/> Yes No	
DO (%) (1pt, 100% water saturated air cal)			100	100.14	100	+/- 6% saturation	<input checked="" type="checkbox"/> Yes No	
Turbidity 0 NTU			0	0.00	0.00	+/- 0.5 NTU	<input checked="" type="checkbox"/> Yes No	
Turbidity 1 NTU			1.00	1.18	1.00	+/- 0.5 NTU	<input checked="" type="checkbox"/> Yes No	
Turbidity 10 NTU			10.00	9.86	10.00	+/- 0.5 NTU	<input checked="" type="checkbox"/> Yes No	

EQUIPMENT CALIBRATION LOG

Field Technician Thomas Messer Date 11/30/2023 Time (start): 0725 Time (finish): 0745
 smarTroll SN 845724 Turbidity Meter Type LaMotte 2020we SN 5496-3715
 Weather Conditions Cloudy, So. Facility and Unit Plant Hammond Project No. GW6581

Calibration log

	Standard Lot # / Date of Expiration	Temp of Standard (°C)	Value of Standard	Initial Reading	Post-Cal Reading	Acceptable Range	Pass?	Comments
Specific Conductance (µS/cm)	22260153 11/23	13.40	4490	4581	4490	+/- 5 %	<input checked="" type="radio"/> Yes <input type="radio"/> No	
pH (4)			4.00	3.98	4.00	+/- 0.1 SU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Mid-Day pH (4) check			4.00	3.96		+/- 0.1 SU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
pH (7)	22164093 11/23	12.56	7.00	7.20	7.00	+/- 0.1 SU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Mid-Day pH (7) check			7.00	7.03		+/- 0.1 SU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
pH (10)	2130202 12/23	11.93	10.00	10.18	10.00	+/- 0.1 SU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Mid-Day pH (10) check			10.00	10.07		+/- 0.1 SU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
ORP (mV)	21390144 11/23	11.47	228	229.4	228	+/- 20mV	<input checked="" type="radio"/> Yes <input type="radio"/> No	
DO (%) (1pt, 100% water saturated air cal)			100	99.1	100	+/- 6 % saturation	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Turbidity 0 NTU			0	0.50	0.00	+/- 0.5 NTU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Turbidity 1 NTU			1.00	0.84	0.99	+/- 0.5 NTU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Turbidity 10 NTU			10.00	11.05	10.0	+/- 0.5 NTU	<input checked="" type="radio"/> Yes <input type="radio"/> No	

EQUIPMENT CALIBRATION LOG

Field Technician A. Swast Date 2/1/2023 Time (start) 800 Time (finish) 820
 smarTroll SN: 883533 Turbidity Meter Type LaMote 2020we SN: 7007-1416
 Weather Conditions Cloudy, 45°F Facility and Unit: Plant Hammond Project No. GW6581

Calibration log

	Standard Lot # / Date of Expiration	Temp of Standard (°C)	Value of Standard	Initial Reading	Post-Cal Reading	Acceptable Range	Pass?	Comments
Specific Conductance (µS/cm)	22250153 11/2023	9.62	4490	4236.0	4490.0	+/- 5%	<input checked="" type="radio"/> Yes <input type="radio"/> No	
pH (4)		9.73	4.00	3.95	4.00	+/- 0.1 SU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Mid-Day pH (4) check			4.00			+/- 0.1 SU	Yes No	
pH (7)	2216893 11/2023	9.98	7.00	7.03	7.00	+/- 0.1 SU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Mid-Day pH (7) check			7.00			+/- 0.1 SU	Yes No	
pH (10)	21320202 12/2023	10.17	10.00	10.15	10.00	+/- 0.1 SU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Mid-Day pH (10) check			10.00			+/- 0.1 SU	Yes No	
ORP (mV)	21390144 11/2023	10.20	228	233.6	228.0	+/- 20mV	<input checked="" type="radio"/> Yes <input type="radio"/> No	
DO (%) (1pt, 100% water saturated air cal)			100	99.54	100.0	+/- 6% saturation	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Turbidity 0 NTU			0	0.15	0.00	+/- 0.5 NTU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Turbidity 1 NTU			1.00	1.08	—	+/- 0.5 NTU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Turbidity 10 NTU			10.00	8.68	9.72	+/- 0.5 NTU	<input checked="" type="radio"/> Yes <input type="radio"/> No	

EQUIPMENT CALIBRATION LOG

Field Technician: C. CAIN

Date: 2/1/23

Time (start): 0800

Time (finish): 0830

smarTroll SN: 966040

Turbidity Meter Type: LaMotte 2020we

SN: 7009

Weather Conditions: Cloudy 46F

Facility and Unit: Plant Hammond

Project No: GW6581

Calibration log

	Standard Lot # / Date of Expiration	Temp of Standard (°C)	Value of Standard	Initial Reading	Post-Cal Reading	Acceptable Range	Pass?	Comments
Specific Conductance (µS/cm)	22250153 11/23	13.95	4490	4457.4	4490	+/- 5%	<input checked="" type="checkbox"/> Yes No	
pH (4)	↓	/	4.00	4.02	4.0	+/- 0.1 SU	<input checked="" type="checkbox"/> Yes No	
Mid-Day pH (4) check	↓	/	4.00	3.99	/	+/- 0.1 SU	<input checked="" type="checkbox"/> Yes No	
pH (7)	2216893 11/23	14.66	7.00	7.05	7.0	+/- 0.1 SU	<input checked="" type="checkbox"/> Yes No	
Mid-Day pH (7) check	↓	/	7.00	7.02	/	+/- 0.1 SU	<input checked="" type="checkbox"/> Yes No	
pH (10)	212320202 12/23	14.97	10.00	10.10	10.0	+/- 0.1 SU	<input checked="" type="checkbox"/> Yes No	
Mid-Day pH (10) check	↓	/	10.00	9.97	/	+/- 0.1 SU	<input checked="" type="checkbox"/> Yes No	
ORP (mV)	21390144 11/23	15.06	228	230.5	228	+/- 20mV	Yes No	
DO (%) (1pt, 100% water saturated air cal)			100	98.12	100	+/- 6% saturation	<input checked="" type="checkbox"/> Yes No	
Turbidity 0 NTU			0	0.12	0	+/- 0.5 NTU	<input checked="" type="checkbox"/> Yes No	
Turbidity 1 NTU			1.00	1.24	1.0	+/- 0.5 NTU	<input checked="" type="checkbox"/> Yes No	
Turbidity 10 NTU			10.00	10.35	10.0	+/- 0.5 NTU	<input checked="" type="checkbox"/> Yes No	

EQUIPMENT CALIBRATION LOG

Field Technician Annus Hussain Date 2/1/2023 Time (start): 0755 Time (finish): 0810
 smarTroll SN: 850729 Turbidity Meter Type LaMotte 2020we SN 5896-3715
 Weather Conditions cloudy, 46° Facility and Unit Plant Hammond Project No. GW6581

Calibration log

	Standard Lot # / Date of Expiration	Temp of Standard (°C)	Value of Standard	Initial Reading	Post-Cal Reading	Acceptable Range	Pass?	Comments
Specific Conductance (µS/cm)	22250453 11/23	11.62	4490	4621.9	4490	+/- 5%	Yes No	
pH (4)			4.00	3.93	4.0	+/- 0.1 SU	Yes No	
Mid-Day pH (4) check			4.00	3.9	4.00	+/- 0.1 SU	Yes No	
pH (7)	2216393 11/23	12.69	7.00	7.03	7.0	+/- 0.1 SU	Yes No	
Mid-Day pH (7) check			7.00	7.01		+/- 0.1 SU	Yes No	
pH (10)	21370702 12/23	13.12	10.00	10.11	10.0	+/- 0.1 SU	Yes No	
Mid-Day pH (10) check			10.00	10.03		+/- 0.1 SU	Yes No	
ORP (mV)	21740194 11/23	13.22	228	224.8	228	+/- 20mV	Yes No	
DO (%) (1pt, 100% water saturated air cal)			100	99.17	100	+/- 6% saturation	Yes No	
Turbidity 0 NTU			0	0.52	0.00	+/- 0.5 NTU	Yes No	
Turbidity 1 NTU			1.00	1.02	1.02	+/- 0.5 NTU	Yes No	
Turbidity 10 NTU			10.00	10.00	10.00	+/- 0.5 NTU	Yes No	

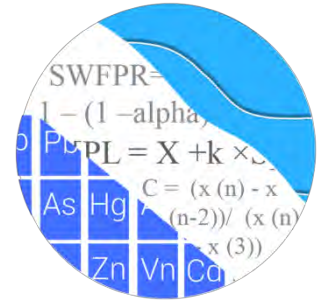
APPENDIX C

Statistical Analysis Report

GROUNDWATER STATS CONSULTING

August 31, 2023

Southern Company Services
Attn: Ms. Kristen Jurinko
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308



Re: Plant Hammond Ash Pond 2 (AP-2)
Statistical Analysis – January/February 2023 Sample Event

Dear Ms. Jurinko,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the January/February 2023 Semi-Annual Groundwater Detection and Assessment Monitoring Statistical summary of groundwater data for Georgia Power Company's Plant Hammond AP-2. The analysis complies with the federal rule for the Disposal of Coal Combustion Residuals from Electric Utilities (CCR Rule, 2015), the Georgia Environmental Protection Division (EPD) Rules for Solid Waste Management Chapter 391-3-4-.10 and follows the United States Environmental Protection Agency (USEPA) Unified Guidance (2009).

Sampling began for the Coal Combustion Residuals (CCR) program in 2016 for all wells except those noted below, and at least 8 samples were collected at all wells. Sampling began in 2019 for assessment wells MW-21D, MW-22, and MW-23D; and in 2020 for upgradient wells HGWA-42D, HGWA-43D, HGWA-44D, assessment well MW-37D, and piezometers MW-33, MW-34D, and MW-35; and in 2021 for piezometer MW-51.

The monitoring well network, as provided by Southern Company Services, consists of the following:

- **Upgradient well:** HGWA-1, HGWA-2, HGWA-3, HGWA-4, HGWA-5, HGWA-6, HGWA-42D, HGWA-43D, and HGWA-44D
- **Downgradient wells:** HGWC-14, HGWC-15, HGWC-16, HGWC-17, and HGWC-18
- **Assessment wells:** MW-21D, MW-22, MW-23D, and MW-37D

- **Piezometers:** MW-33, MW-34D, MW-35, and MW-51

Assessment wells and piezometers are included on time series and box plots for all parameters. When a minimum of 4 samples is available, these wells and piezometers are evaluated using confidence intervals for the Appendix IV constituents.

Data were sent electronically to Groundwater Stats Consulting, and the statistical analysis was reviewed by Andrew Collins, Project Manager for Groundwater Stats Consulting. The statistical analysis was performed according to the groundwater data screening that was performed in April 2018 by GSC and approved by Dr. Cameron, PhD Statistician with MacStat Consulting and primary author of the USEPA Unified Guidance.

The CCR program consists of the constituents listed below. The terms “parameters” and “constituents” are used interchangeably.

- **Appendix III** (Detection Monitoring) - boron, calcium, chloride, fluoride, pH, sulfate, and TDS
- **Appendix IV** (Assessment Monitoring) – arsenic, barium, beryllium, cadmium, chromium, cobalt, combined radium 226 + 228, fluoride, lead, lithium, molybdenum, selenium, and thallium

Note that when there are no detections present in downgradient wells for a given constituent, statistical analyses are not required. A summary of well/constituent pairs containing 100% non-detects follows this letter.

For all constituents, a substitution of the most recent reporting limit is used for non-detect data. In the case of lithium, historical reporting limits vary among the wells. Therefore, the reporting limit of 0.03 mg/L was substituted across all wells, which is the most recent reporting limit provided by the laboratory.

Time series plots for Appendix III and IV parameters at all wells are provided for the purpose of screening data at these wells (Figure A). Additionally, a separate section of box plots is included for all constituents at upgradient and downgradient wells (Figure B). The time series plots are used to initially screen for suspected outliers and trends, while the box plots provide visual representation of variation within individual wells and between all wells. When values in background are flagged as outliers, the measurements may be seen in a lighter font and as a disconnected symbol on the graphs. No values were flagged as outliers (Figure C).

In earlier analyses, data at all wells were evaluated for the following: 1) outliers; 2) trends; 3) most appropriate statistical method for Appendix III parameters based on site characteristics of groundwater data upgradient of the facility; and 4) eligibility of downgradient wells when intrawell statistical methods are recommended. Power curves were provided to demonstrate that the selected statistical methods for Appendix III parameters comply with the USEPA Unified Guidance. The EPA suggests that the selected statistical method should provide at least 55% power at 3 standard deviations or at least 80% power at 4 standard deviations.

Statistical Methods – Appendix III Parameters

Appendix III parameters are evaluated using Interwell Prediction Limits combined with 1-of-2 resamples for all constituents: boron, calcium, chloride, fluoride, pH, sulfate, and TDS.

Parametric prediction limits are utilized when the screened historical data follow a normal or transformed-normal distribution. When data cannot be normalized or the majority of data are non-detects, a nonparametric test is utilized. While the false positive rate associated with the parametric limits is based on an annual 10% (5% per semi-annual event) as recommended by the EPA Unified Guidance (2009), the false positive rate associated with the nonparametric limits is dependent upon the available background sample size, number of future comparisons, and verification resample plan. The distribution of data is tested using the Shapiro-Wilk/Shapiro-Francia test for normality. After testing for normality and performing any adjustments as discussed below (US EPA, 2009), data are analyzed using either parametric or non-parametric prediction limits.

- No statistical analyses are required on wells and analytes containing 100% non-detects (USEPA Unified Guidance, 2009, Chapter 6).
- When data contain <15% non-detects, simple substitution of one-half the reporting limit is utilized in the statistical analysis. The reporting limit utilized for non-detects is the most recent practical quantification limit (PQL) as reported by the laboratory.
- When data contain between 15-50% non-detects, the Kaplan-Meier non-detect adjustment is applied to the background data. This technique adjusts the mean and standard deviation of the historical concentrations to account for concentrations below the reporting limit.
- Nonparametric prediction limits are used on data containing greater than 50% non-detects.

Natural systems continuously evolve due to physical changes made to the environment. Examples include capping a landfill, paving areas near a well, or lining a drainage channel to prevent erosion. Periodic updating of background statistical limits is necessary to accommodate these types of changes. In the interwell case, prediction limits are updated with upgradient well data during each event after careful screening for any new outliers. In some cases, an earlier portion of data may require deselection prior to construction of limits to provide sensitive limits that will rapidly detect changes in groundwater quality. Even though the data are excluded from the calculation, the values will continue to be reported and shown in tables and graphs. When this step is required, a summary of any adjusted records will be provided.

Statistical Evaluation of Appendix III Parameters – January/February 2023

All Appendix III parameters were analyzed using interwell prediction limits. Background (upgradient) well data were re-assessed for potential outliers during this analysis. When values in background are flagged as outliers, the measurements may be seen in a lighter font and as a disconnected symbol on the graphs. No values have been flagged as outliers (Figure C).

Interwell Prediction Limits

Interwell prediction limits, combined with a 1-of-2 resample plan, were constructed for Appendix III parameters using all historical upgradient well data through February 2023 (Figure D). Downgradient measurements were compared to these interwell background limits. Interwell prediction limits use all available upgradient well data to establish a background limit for an individual constituent. The January/February 2023 sample from each downgradient well is compared to the background limit to determine whether any initial exceedances are present.

In the event of an initial exceedance of compliance well data, the 1-of-2 resample plan allows for collection of one additional sample to determine whether the initial exceedance is confirmed. When the resample confirm the initial exceedance, a statistically significant increase (SSI) is identified and further research would be required to identify the cause of the exceedance (i.e., impact from the site, natural variation, or an off-site source). If the resample falls within the statistical limit, the initial exceedance is considered to be a false positive result; therefore, no further action is necessary. If no resample is collected, the initial exceedance is automatically confirmed.

A summary table of these findings is provided along with the prediction limits. When the January/February 2023 compliance data from downgradient wells were compared to

interwell prediction limits, exceedances were noted for the following well/constituent pairs:

- Boron: HGWC-14, HGWC-15, HGWC-16, HGWC-17, and HGWC-18
- Calcium: HGWC-14, HGWC-15, HGWC-16, HGWC-17, and HGWC-18
- Chloride: HGWC-14, HGWC-15, HGWC-16, HGWC-17, and HGWC-18
- Sulfate: HGWC-14, HGWC-15, HGWC-16, HGWC-17, and HGWC-18
- TDS: HGWC-14, HGWC-15, HGWC-16, HGWC-17, and HGWC-18

Trend Test Evaluation – Appendix III

When prediction limit exceedances are identified in downgradient wells, data are further evaluated using the Sen's Slope/Mann Kendall trend test at the 99% confidence level to determine whether concentrations are statistically increasing, decreasing, or stable (Figure E). Upgradient well data are included in the trend analyses for all parameters found to exceed their prediction limit in downgradient wells to identify whether similar patterns exist upgradient of the site. Upgradient trends are an indication of variability in groundwater unrelated to practices at the site. A summary of the trend test results follows this letter. Statistically significant trends were noted for the following well/constituent pairs:

Increasing trends:

- Boron: HGWA-2 (upgradient) and HGWC-16
- Calcium: HGWA-3 (upgradient) and HGWC-16
- Chloride: HGWA-44D (upgradient) and HGWC-16
- Sulfate: HGWA-2 (upgradient)
- TDS: HGWC-16 and HGWC-17

Decreasing trends:

- Boron: HGWC-14
- Calcium: HGWA-4 (upgradient)
- Chloride: HGWA-3 (upgradient), HGWA-4 (upgradient), HGWC-14, HGWC-15, and HGWC-18
- Sulfate: HGWC-43D (upgradient)
- TDS: HGWA-4 (upgradient), HGWC-14, and HGWC-15

Statistical Methods – Appendix IV Parameters

Appendix IV parameters are evaluated by statistically comparing the mean or median of each downgradient well/constituent pair against corresponding Groundwater Protection Standards (GWPS). The GWPS may be either regulatory (MCL or CCR rule-specified limits)

or site-specific limits that are based on upgradient background groundwater quality. Site-specific background limits are determined using tolerance limits, and the comparison of downgradient means or medians to GWPS is performed using confidence intervals. Confidence intervals are provided for Appendix IV well/constituent pairs with detections and with current reported data. The methods are described below.

Statistical Evaluation of Appendix IV Parameters – January/February 2023

For Appendix IV parameters, confidence intervals for each downgradient well/constituent pair were compared against corresponding Groundwater Protection Standards (GWPS). GWPS were developed as described below. Well/constituent pairs that contain 100% non-detects do not require analysis. Data from upgradient wells for Appendix IV parameters are reassessed for outliers during each analysis. No values were flagged (Figure C).

Interwell Upper Tolerance Limits

Site specific background limits were calculated as upper one-sided tolerance limits (UTLs) on pooled upgradient interwell data through February 2023 for each of the Appendix IV constituents (Figure F). When varying detection limits were present in upgradient wells, all non-detects were substituted with the most recent reporting limit. As mentioned above, a reporting limit of 0.03 mg/L was substituted across all wells for lithium. Parametric tolerance limits were used when data follow a normal or transformed-normal distribution. When data contained greater than 50% non-detects or did not follow a normal or transformed-normal distribution, non-parametric tolerance limits were used.

Groundwater Protection Standards

The background limits were then used when determining the groundwater protection standard (GWPS) under 40 CFR §257.95(h) and Georgia EPD Rule 391-3-4-.10(6)(a). On July 30, 2018, US EPA revised the Federal CCR rule updating GWPS for cobalt, lead, lithium, and molybdenum as described above in 40 CFR §257.95(h)(2). Effective on February 22, 2022, Georgia EPD incorporated the updated GWPS into the current Georgia EPD Rules for Solid Waste Management 391-3-4-.10(6)(a). In accordance with the updated Rules, the GWPS is:

- The maximum contaminant level (MCL) established under §141.62 and §141.66 of this title
- Where an MCL has not been established for a constituent, Federal and State CCR Rules specify levels for cobalt (0.006 mg/L), lead (0.015 mg/L), lithium (0.040 mg/L), and molybdenum (0.100 mg/L)

- The respective background level for a constituent when the background level is higher than the MCL or Federal CCR Rule identified GWPS

Following Georgia EPD Rule requirements and the Federal CCR requirements, GWPS were established for statistical comparison of Appendix IV constituents for this sample event (Figure G).

Confidence Intervals

To complete the statistical comparison to GWPS, confidence intervals were constructed for the Appendix IV constituents in each downgradient well and assessment wells with 4 or more samples through February 2023 (Figure H).

The Sanitas software was used to calculate the tolerance limits and the confidence intervals, either parametric or nonparametric, depending on the data distribution and percentage of non-detects. When data followed a normal or transformed-normal distribution, parametric confidence intervals were used for Appendix IV parameters. Nonparametric confidence intervals, which use the highest and lowest values in background as interval limits, were constructed when data did not follow a normal or transformed-normal distribution or when there were greater than 50% non-detects. The lower confidence limit, which is constructed with 99% confidence for parametric confidence intervals, is compared to the GWPS prepared as described above. The confidence level associated with nonparametric confidence intervals is dependent upon the number samples available.

For some well/constituent pairs, the parametric lower confidence limit resulted in a negative number. Therefore, nonparametric confidence intervals were constructed for these well/constituent pairs and may be found at the end of Figure H. This is a more conservative approach in that the lower confidence limit reflects the low measurements in the data set for a given well rather than a negative number.

Only when the entire confidence interval is above a GWPS is the downgradient well/constituent pair considered to exceed its respective standard. If there is an exceedance of the GWPS, a statistically significant level (SSL) exceedance is identified. Summaries of the confidence interval results, along with graphical comparison against GWPS follow this letter. Exceedances were noted for the following well/constituent pairs:

- Cobalt: HGWC-18, MW-33, and MW-35

Trend Test Evaluation – Appendix IV

Data at wells with confidence interval exceedances are further evaluated using the Sen's Slope/Mann Kendall trend test at the 99% confidence level to determine whether concentrations are statistically increasing, decreasing, or stable (Figure I). Upgradient wells are included in the trend analyses to identify whether similar patterns exist upgradient of the site for the same constituents. When trends are present in upgradient trends, it is an indication of variability in groundwater quality unrelated to practices at the site. A summary of the Appendix IV trend test results follows this letter. Statistically significant trends were identified for the following well/constituent pairs:

Increasing trends:

- None

Decreasing trends:

- Cobalt: HGWA-4 (upgradient) and HGWC-18

Thank you for the opportunity to assist you in the statistical analysis of groundwater quality for Hammond AP-2. If you have any questions or comments, please feel free to contact us.

For Groundwater Stats Consulting,



Tristan Clark
Groundwater Analyst



Andrew Collins
Project Manager

100% Non-Detects: Appendix IV Downgradient, Assessment, and Piezometers

Analysis Run 5/22/2023 3:57 PM View: Appendix IV - Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-2

Antimony (mg/L)

HGWC-16, HGWC-17, MW-21D, MW-23D, MW-51

Beryllium (mg/L)

HGWC-15, HGWC-16, MW-21D, MW-23D, MW-36D

Cadmium (mg/L)

HGWC-16, MW-21D, MW-36D, MW-37D

Chromium (mg/L)

MW-51

Cobalt (mg/L)

MW-36D

Lead (mg/L)

MW-51

Lithium (mg/L)

HGWC-14

Mercury (mg/L)

HGWC-14, HGWC-15, HGWC-16, HGWC-17, MW-21D, MW-33, MW-34D, MW-37D

Molybdenum (mg/L)

HGWC-14, HGWC-16, HGWC-17, HGWC-18, MW-33, MW-34D, MW-35, MW-36D, MW-51

Selenium (mg/L)

MW-21D, MW-23D, MW-36D, MW-37D

Thallium (mg/L)

HGWC-16, MW-21D, MW-22, MW-23D, MW-36D, MW-37D, MW-51

Interwell Prediction Limits - Significant Results

Plant Hammond Client: Southern Company Data: Hammond AP-2 Printed 5/12/2023, 1:14 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	HGWC-14	0.44	n/a	2/1/2023	7.7	Yes	147	n/a	n/a	6.803	n/a	n/a	0.00009158	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-15	0.44	n/a	2/1/2023	2	Yes	147	n/a	n/a	6.803	n/a	n/a	0.00009158	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-16	0.44	n/a	2/1/2023	2.8	Yes	147	n/a	n/a	6.803	n/a	n/a	0.00009158	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-17	0.44	n/a	1/30/2023	6.8	Yes	147	n/a	n/a	6.803	n/a	n/a	0.00009158	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-18	0.44	n/a	2/1/2023	5.9	Yes	147	n/a	n/a	6.803	n/a	n/a	0.00009158	NP Inter (normality) 1 of 2
Calcium (mg/L)	HGWC-14	138	n/a	2/1/2023	464	Yes	147	n/a	n/a	0	n/a	n/a	0.00009158	NP Inter (normality) 1 of 2
Calcium (mg/L)	HGWC-15	138	n/a	2/1/2023	174	Yes	147	n/a	n/a	0	n/a	n/a	0.00009158	NP Inter (normality) 1 of 2
Calcium (mg/L)	HGWC-16	138	n/a	2/1/2023	216	Yes	147	n/a	n/a	0	n/a	n/a	0.00009158	NP Inter (normality) 1 of 2
Calcium (mg/L)	HGWC-17	138	n/a	1/30/2023	286	Yes	147	n/a	n/a	0	n/a	n/a	0.00009158	NP Inter (normality) 1 of 2
Calcium (mg/L)	HGWC-18	138	n/a	2/1/2023	288	Yes	147	n/a	n/a	0	n/a	n/a	0.00009158	NP Inter (normality) 1 of 2
Chloride (mg/L)	HGWC-14	44.8	n/a	2/1/2023	108	Yes	147	n/a	n/a	0	n/a	n/a	0.00009158	NP Inter (normality) 1 of 2
Chloride (mg/L)	HGWC-15	44.8	n/a	2/1/2023	85	Yes	147	n/a	n/a	0	n/a	n/a	0.00009158	NP Inter (normality) 1 of 2
Chloride (mg/L)	HGWC-16	44.8	n/a	2/1/2023	112	Yes	147	n/a	n/a	0	n/a	n/a	0.00009158	NP Inter (normality) 1 of 2
Chloride (mg/L)	HGWC-17	44.8	n/a	1/30/2023	154	Yes	147	n/a	n/a	0	n/a	n/a	0.00009158	NP Inter (normality) 1 of 2
Chloride (mg/L)	HGWC-18	44.8	n/a	2/1/2023	92.7	Yes	147	n/a	n/a	0	n/a	n/a	0.00009158	NP Inter (normality) 1 of 2
Sulfate (mg/L)	HGWC-14	86.9	n/a	2/1/2023	1060	Yes	147	n/a	n/a	2.721	n/a	n/a	0.00009158	NP Inter (normality) 1 of 2
Sulfate (mg/L)	HGWC-15	86.9	n/a	2/1/2023	341	Yes	147	n/a	n/a	2.721	n/a	n/a	0.00009158	NP Inter (normality) 1 of 2
Sulfate (mg/L)	HGWC-16	86.9	n/a	2/1/2023	257	Yes	147	n/a	n/a	2.721	n/a	n/a	0.00009158	NP Inter (normality) 1 of 2
Sulfate (mg/L)	HGWC-17	86.9	n/a	1/30/2023	451	Yes	147	n/a	n/a	2.721	n/a	n/a	0.00009158	NP Inter (normality) 1 of 2
Sulfate (mg/L)	HGWC-18	86.9	n/a	2/1/2023	776	Yes	147	n/a	n/a	2.721	n/a	n/a	0.00009158	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	HGWC-14	496	n/a	2/1/2023	1950	Yes	147	n/a	n/a	0	n/a	n/a	0.00009158	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	HGWC-15	496	n/a	2/1/2023	892	Yes	147	n/a	n/a	0	n/a	n/a	0.00009158	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	HGWC-16	496	n/a	2/1/2023	1030	Yes	147	n/a	n/a	0	n/a	n/a	0.00009158	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	HGWC-17	496	n/a	1/30/2023	1320	Yes	147	n/a	n/a	0	n/a	n/a	0.00009158	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	HGWC-18	496	n/a	2/1/2023	1430	Yes	147	n/a	n/a	0	n/a	n/a	0.00009158	NP Inter (normality) 1 of 2

Interwell Prediction Limits - All Results

Plant Hammond Client: Southern Company Data: Hammond AP-2 Printed 5/12/2023, 1:14 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	HGWC-14	0.44	n/a	2/1/2023	7.7	Yes	147	n/a	n/a	6.803	n/a	n/a	0.00009158	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-15	0.44	n/a	2/1/2023	2	Yes	147	n/a	n/a	6.803	n/a	n/a	0.00009158	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-16	0.44	n/a	2/1/2023	2.8	Yes	147	n/a	n/a	6.803	n/a	n/a	0.00009158	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-17	0.44	n/a	1/30/2023	6.8	Yes	147	n/a	n/a	6.803	n/a	n/a	0.00009158	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-18	0.44	n/a	2/1/2023	5.9	Yes	147	n/a	n/a	6.803	n/a	n/a	0.00009158	NP Inter (normality) 1 of 2
Calcium (mg/L)	HGWC-14	138	n/a	2/1/2023	464	Yes	147	n/a	n/a	0	n/a	n/a	0.00009158	NP Inter (normality) 1 of 2
Calcium (mg/L)	HGWC-15	138	n/a	2/1/2023	174	Yes	147	n/a	n/a	0	n/a	n/a	0.00009158	NP Inter (normality) 1 of 2
Calcium (mg/L)	HGWC-16	138	n/a	2/1/2023	216	Yes	147	n/a	n/a	0	n/a	n/a	0.00009158	NP Inter (normality) 1 of 2
Calcium (mg/L)	HGWC-17	138	n/a	1/30/2023	286	Yes	147	n/a	n/a	0	n/a	n/a	0.00009158	NP Inter (normality) 1 of 2
Calcium (mg/L)	HGWC-18	138	n/a	2/1/2023	288	Yes	147	n/a	n/a	0	n/a	n/a	0.00009158	NP Inter (normality) 1 of 2
Chloride (mg/L)	HGWC-14	44.8	n/a	2/1/2023	108	Yes	147	n/a	n/a	0	n/a	n/a	0.00009158	NP Inter (normality) 1 of 2
Chloride (mg/L)	HGWC-15	44.8	n/a	2/1/2023	85	Yes	147	n/a	n/a	0	n/a	n/a	0.00009158	NP Inter (normality) 1 of 2
Chloride (mg/L)	HGWC-16	44.8	n/a	2/1/2023	112	Yes	147	n/a	n/a	0	n/a	n/a	0.00009158	NP Inter (normality) 1 of 2
Chloride (mg/L)	HGWC-17	44.8	n/a	1/30/2023	154	Yes	147	n/a	n/a	0	n/a	n/a	0.00009158	NP Inter (normality) 1 of 2
Chloride (mg/L)	HGWC-18	44.8	n/a	2/1/2023	92.7	Yes	147	n/a	n/a	0	n/a	n/a	0.00009158	NP Inter (normality) 1 of 2
Field pH (s.u.)	HGWC-14	8.25	4.57	2/1/2023	4.93	No	174	n/a	n/a	0	n/a	n/a	0.0001308	NP Inter (normality) 1 of 2
Field pH (s.u.)	HGWC-15	8.25	4.57	2/1/2023	6.22	No	174	n/a	n/a	0	n/a	n/a	0.0001308	NP Inter (normality) 1 of 2
Field pH (s.u.)	HGWC-16	8.25	4.57	2/1/2023	7.15	No	174	n/a	n/a	0	n/a	n/a	0.0001308	NP Inter (normality) 1 of 2
Field pH (s.u.)	HGWC-17	8.25	4.57	1/30/2023	6.44	No	174	n/a	n/a	0	n/a	n/a	0.0001308	NP Inter (normality) 1 of 2
Field pH (s.u.)	HGWC-18	8.25	4.57	2/1/2023	4.66	No	174	n/a	n/a	0	n/a	n/a	0.0001308	NP Inter (normality) 1 of 2
Fluoride (mg/L)	HGWC-14	1.3	n/a	2/1/2023	0.094J	No	174	n/a	n/a	31.03	n/a	n/a	0.00006541	NP Inter (normality) 1 of 2
Fluoride (mg/L)	HGWC-15	1.3	n/a	2/1/2023	0.086J	No	174	n/a	n/a	31.03	n/a	n/a	0.00006541	NP Inter (normality) 1 of 2
Fluoride (mg/L)	HGWC-16	1.3	n/a	2/1/2023	0.053J	No	174	n/a	n/a	31.03	n/a	n/a	0.00006541	NP Inter (normality) 1 of 2
Fluoride (mg/L)	HGWC-17	1.3	n/a	1/30/2023	0.097J	No	174	n/a	n/a	31.03	n/a	n/a	0.00006541	NP Inter (normality) 1 of 2
Fluoride (mg/L)	HGWC-18	1.3	n/a	2/1/2023	0.21	No	174	n/a	n/a	31.03	n/a	n/a	0.00006541	NP Inter (normality) 1 of 2
Sulfate (mg/L)	HGWC-14	86.9	n/a	2/1/2023	1060	Yes	147	n/a	n/a	2.721	n/a	n/a	0.00009158	NP Inter (normality) 1 of 2
Sulfate (mg/L)	HGWC-15	86.9	n/a	2/1/2023	341	Yes	147	n/a	n/a	2.721	n/a	n/a	0.00009158	NP Inter (normality) 1 of 2
Sulfate (mg/L)	HGWC-16	86.9	n/a	2/1/2023	257	Yes	147	n/a	n/a	2.721	n/a	n/a	0.00009158	NP Inter (normality) 1 of 2
Sulfate (mg/L)	HGWC-17	86.9	n/a	1/30/2023	451	Yes	147	n/a	n/a	2.721	n/a	n/a	0.00009158	NP Inter (normality) 1 of 2
Sulfate (mg/L)	HGWC-18	86.9	n/a	2/1/2023	776	Yes	147	n/a	n/a	2.721	n/a	n/a	0.00009158	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	HGWC-14	496	n/a	2/1/2023	1950	Yes	147	n/a	n/a	0	n/a	n/a	0.00009158	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	HGWC-15	496	n/a	2/1/2023	892	Yes	147	n/a	n/a	0	n/a	n/a	0.00009158	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	HGWC-16	496	n/a	2/1/2023	1030	Yes	147	n/a	n/a	0	n/a	n/a	0.00009158	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	HGWC-17	496	n/a	1/30/2023	1320	Yes	147	n/a	n/a	0	n/a	n/a	0.00009158	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	HGWC-18	496	n/a	2/1/2023	1430	Yes	147	n/a	n/a	0	n/a	n/a	0.00009158	NP Inter (normality) 1 of 2

Appendix III Trend Test - Prediction Limit Exceedances - Significant Results

Plant Hammond Client: Southern Company Data: Hammond AP-2 Printed 5/12/2023, 1:20 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Xform</u>	<u>Alpha</u>	<u>Method</u>
Boron (mg/L)	HGWA-2 (bg)	0.002417	122	81	Yes	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWC-14	-1.327	-96	-81	Yes	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWC-16	0.2302	130	81	Yes	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWA-3 (bg)	2.246	106	81	Yes	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWA-4 (bg)	-8.577	-103	-81	Yes	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWC-16	12.23	150	81	Yes	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWA-3 (bg)	-0.1264	-88	-81	Yes	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWA-4 (bg)	-0.4126	-149	-81	Yes	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWA-44D (bg)	8.893	28	25	Yes	9	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWC-14	-76.22	-127	-81	Yes	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWC-15	-23.23	-122	-81	Yes	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWC-16	12.44	172	81	Yes	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWC-18	-35.39	-120	-81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWA-2 (bg)	1.847	118	81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWA-43D (bg)	-2.015	-26	-25	Yes	9	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWA-4 (bg)	-25.27	-113	-81	Yes	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWC-14	-209.1	-132	-81	Yes	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWC-15	-55.89	-95	-81	Yes	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWC-16	53.83	154	81	Yes	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWC-17	57.88	121	81	Yes	20	5	n/a	n/a	0.01	NP

Appendix III Trend Test - Prediction Limit Exceedances - All Results

Plant Hammond Client: Southern Company Data: Hammond AP-2 Printed 5/12/2023, 1:20 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	HGWA-1 (bg)	-0.000535	-35	-81	No	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWA-2 (bg)	0.002417	122	81	Yes	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWA-3 (bg)	0.0003333	19	81	No	20	20	n/a	n/a	0.01	NP
Boron (mg/L)	HGWA-4 (bg)	0	-1	-81	No	20	5	n/a	n/a	0.01	NP
Boron (mg/L)	HGWA-42D (bg)	-0.001407	-2	-25	No	9	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWA-43D (bg)	-0.009889	-24	-25	No	9	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWA-44D (bg)	0.06482	20	25	No	9	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWA-5 (bg)	0.0004577	38	81	No	20	20	n/a	n/a	0.01	NP
Boron (mg/L)	HGWA-6 (bg)	-0.0005014	-49	-81	No	20	5	n/a	n/a	0.01	NP
Boron (mg/L)	HGWC-14	-1.327	-96	-81	Yes	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWC-15	0.01406	14	81	No	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWC-16	0.2302	130	81	Yes	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWC-17	0.171	42	81	No	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWC-18	-0.242	-54	-81	No	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWA-1 (bg)	2.181	64	81	No	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWA-2 (bg)	0.8789	66	81	No	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWA-3 (bg)	2.246	106	81	Yes	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWA-4 (bg)	-8.577	-103	-81	Yes	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWA-42D (bg)	0.1137	2	25	No	9	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWA-43D (bg)	-3.051	-16	-25	No	9	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWA-44D (bg)	-7.217	-22	-25	No	9	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWA-5 (bg)	0.07208	5	81	No	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWA-6 (bg)	0.4785	53	81	No	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWC-14	-9.752	-50	-81	No	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWC-15	0.4138	4	81	No	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWC-16	12.23	150	81	Yes	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWC-17	14.13	76	81	No	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWC-18	4.792	29	81	No	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWA-1 (bg)	0.5676	55	81	No	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWA-2 (bg)	-0.02813	-10	-81	No	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWA-3 (bg)	-0.1264	-88	-81	Yes	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWA-4 (bg)	-0.4126	-149	-81	Yes	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWA-42D (bg)	-0.04356	-1	-25	No	9	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWA-43D (bg)	0	-2	-25	No	9	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWA-44D (bg)	8.893	28	25	Yes	9	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWA-5 (bg)	-0.06171	-55	-81	No	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWA-6 (bg)	-0.06887	-72	-81	No	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWC-14	-76.22	-127	-81	Yes	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWC-15	-23.23	-122	-81	Yes	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWC-16	12.44	172	81	Yes	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWC-17	8.913	72	81	No	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWC-18	-35.39	-120	-81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWA-1 (bg)	0.7253	21	81	No	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWA-2 (bg)	1.847	118	81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWA-3 (bg)	0.4639	28	81	No	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWA-4 (bg)	-0.1234	-28	-81	No	20	15	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWA-42D (bg)	0.1593	7	25	No	9	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWA-43D (bg)	-2.015	-26	-25	Yes	9	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWA-44D (bg)	3.569	14	25	No	9	11.11	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWA-5 (bg)	-0.2023	-36	-81	No	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWA-6 (bg)	-0.1893	-43	-81	No	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWC-14	-12.73	-18	-81	No	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWC-15	-15.03	-65	-81	No	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWC-16	2.285	55	81	No	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWC-17	1.633	7	81	No	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWC-18	8.948	36	81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWA-1 (bg)	1.455	8	81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWA-2 (bg)	2.559	17	81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWA-3 (bg)	1.02	19	81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWA-4 (bg)	-25.27	-113	-81	Yes	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWA-42D (bg)	-2.891	-2	-25	No	9	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWA-43D (bg)	-6.294	-12	-25	No	9	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWA-44D (bg)	39.45	22	25	No	9	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWA-5 (bg)	-1.947	-18	-81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWA-6 (bg)	-1.109	-29	-81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWC-14	-209.1	-132	-81	Yes	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWC-15	-55.89	-95	-81	Yes	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWC-16	53.83	154	81	Yes	20	0	n/a	n/a	0.01	NP

Appendix III Trend Test - Prediction Limit Exceedances - All Results Page 2

Plant Hammond Client: Southern Company Data: Hammond AP-2 Printed 5/12/2023, 1:20 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Xform</u>	<u>Alpha</u>	<u>Method</u>
Total Dissolved Solids (mg/L)	HGWC-17	57.88	121	81	Yes	20	5	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWC-18	-34.41	-64	-81	No	20	0	n/a	n/a	0.01	NP

Upper Tolerance Limit Summary Table

Plant Hammond Client: Southern Company Data: Hammond AP-2 Printed 5/16/2023, 2:09 PM

Constituent	Well	Upper Lim.	Date	Observ.	Sig.	Bq.N	%NDs	Transform	Alpha	Method
Antimony (mg/L)	n/a	0.003	n/a	n/a	n/a	135	82.22	n/a	0.0009833	NP Inter(NDs)
Arsenic (mg/L)	n/a	0.005	n/a	n/a	n/a	168	80.95	n/a	0.000181	NP Inter(NDs)
Barium (mg/L)	n/a	0.46	n/a	n/a	n/a	168	0	n/a	0.000181	NP Inter(normality)
Beryllium (mg/L)	n/a	0.0005	n/a	n/a	n/a	156	82.69	n/a	0.0003349	NP Inter(NDs)
Cadmium (mg/L)	n/a	0.0005	n/a	n/a	n/a	168	92.26	n/a	0.000181	NP Inter(NDs)
Chromium (mg/L)	n/a	0.019	n/a	n/a	n/a	156	85.26	n/a	0.0003349	NP Inter(NDs)
Cobalt (mg/L)	n/a	0.038	n/a	n/a	n/a	168	69.64	n/a	0.000181	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	n/a	4.36	n/a	n/a	n/a	167	0	n/a	0.0001905	NP Inter(n>table)
Fluoride (mg/L)	n/a	1.3	n/a	n/a	n/a	174	31.03	n/a	NaN	NP Inter(normality)
Lead (mg/L)	n/a	0.001	n/a	n/a	n/a	156	75	n/a	0.0003349	NP Inter(NDs)
Lithium (mg/L)	n/a	0.064	n/a	n/a	n/a	166	17.47	n/a	0.0002005	NP Inter(normality)
Mercury (mg/L)	n/a	0.0002	n/a	n/a	n/a	112	92.86	n/a	0.003199	NP Inter(NDs)
Molybdenum (mg/L)	n/a	0.01	n/a	n/a	n/a	154	83.77	n/a	0.0003711	NP Inter(NDs)
Selenium (mg/L)	n/a	0.005	n/a	n/a	n/a	168	98.21	n/a	0.000181	NP Inter(NDs)
Thallium (mg/L)	n/a	0.001	n/a	n/a	n/a	168	98.81	n/a	0.000181	NP Inter(NDs)

PLANT HAMMOND AP-2 GWPS				
Constituent Name	MCL	CCR-Rule Specified	Background Limit	GWPS
Antimony, Total (mg/L)	0.006		0.003	0.006
Arsenic, Total (mg/L)	0.01		0.005	0.01
Barium, Total (mg/L)	2		0.46	2
Beryllium, Total (mg/L)	0.004		0.0005	0.004
Cadmium, Total (mg/L)	0.005		0.0005	0.005
Chromium, Total (mg/L)	0.1		0.0019	0.1
Cobalt, Total (mg/L)	n/a	0.006	0.038	0.038
Combined Radium, Total (pCi/L)	5		4.36	5
Fluoride, Total (mg/L)	4		1.3	4
Lead, Total (mg/L)	n/a	0.015	0.001	0.015
Lithium, Total (mg/L)	n/a	0.04	0.064	0.064
Mercury, Total (mg/L)	0.002		0.0002	0.002
Molybdenum, Total (mg/L)	n/a	0.1	0.01	0.1
Selenium, Total (mg/L)	0.05		0.005	0.05
Thallium, Total (mg/L)	0.002		0.001	0.002

**Grey cell indicates background is higher than MCL or CCR-Rule*

**MCL = Maximum Contaminant Level*

**CCR = Coal Combustion Residuals*

**GWPS = Groundwater Protection Standard*

Confidence Intervals - Significant Results

Plant Hammond Client: Southern Company Data: Hammond AP-2 Printed 5/22/2023, 4:01 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Cobalt (mg/L)	HGWC-18	0.1843	0.1565	0.038	Yes	23	0.1704	0.02661	0	None	No	0.01	Param.
Cobalt (mg/L)	MW-33	0.05671	0.04409	0.038	Yes	10	0.0504	0.007074	0	None	No	0.01	Param.
Cobalt (mg/L)	MW-35	0.09573	0.08302	0.038	Yes	8	0.08938	0.005999	0	None	No	0.01	Param.

Confidence Intervals - All Results

Plant Hammond Client: Southern Company Data: Hammond AP-2 Printed 5/22/2023, 4:01 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	HGWC-14	0.003	0.001	0.006	No	17	0.002572	0.0009613	82.35	None	No	0.01	NP (NDs)
Antimony (mg/L)	HGWC-15	0.003	0.0021	0.006	No	17	0.002806	0.0004423	82.35	None	No	0.01	NP (NDs)
Antimony (mg/L)	HGWC-18	0.003	0.0008	0.006	No	17	0.002871	0.0005336	94.12	None	No	0.01	NP (NDs)
Antimony (mg/L)	MW-22	0.003	0.0016	0.006	No	8	0.002825	0.000495	87.5	None	No	0.004	NP (NDs)
Antimony (mg/L)	MW-33	0.003	0.00046	0.006	No	6	0.002577	0.001037	83.33	None	No	0.0155	NP (NDs)
Antimony (mg/L)	MW-34D	0.003	0.0018	0.006	No	4	0.0027	0.0006	75	None	No	0.0625	NP (NDs)
Antimony (mg/L)	MW-35	0.003	0.00041	0.006	No	6	0.002552	0.00105	66.67	None	No	0.0155	NP (NDs)
Antimony (mg/L)	MW-37D	0.003	0.00079	0.006	No	6	0.002632	0.0009022	83.33	None	No	0.0155	NP (NDs)
Arsenic (mg/L)	HGWC-14	0.007215	0.004338	0.01	No	23	0.006003	0.003023	13.04	None	sqrt(x)	0.01	Param.
Arsenic (mg/L)	HGWC-15	0.005	0.0008	0.01	No	23	0.004406	0.001571	86.96	None	No	0.01	NP (NDs)
Arsenic (mg/L)	HGWC-16	0.005	0.0012	0.01	No	23	0.004257	0.001668	82.61	None	No	0.01	NP (NDs)
Arsenic (mg/L)	HGWC-17	0.005	0.0017	0.01	No	23	0.003864	0.001801	69.57	None	No	0.01	NP (NDs)
Arsenic (mg/L)	HGWC-18	0.006689	0.004793	0.01	No	23	0.005741	0.001813	0	None	No	0.01	Param.
Arsenic (mg/L)	MW-21D	0.005	0.001	0.01	No	13	0.003884	0.00184	69.23	None	No	0.01	NP (NDs)
Arsenic (mg/L)	MW-22	0.005	0.00045	0.01	No	12	0.004621	0.001313	91.67	None	No	0.01	NP (NDs)
Arsenic (mg/L)	MW-23D	0.005	0.001	0.01	No	12	0.004318	0.001592	83.33	None	No	0.01	NP (NDs)
Arsenic (mg/L)	MW-33	0.009086	0.003603	0.01	No	9	0.006344	0.00284	11.11	None	No	0.01	Param.
Arsenic (mg/L)	MW-34D	0.005798	0.001268	0.01	No	6	0.003533	0.001649	0	None	No	0.01	Param.
Arsenic (mg/L)	MW-35	0.025	0.0043	0.01	No	8	0.01043	0.009037	25	None	No	0.004	NP (normality)
Arsenic (mg/L)	MW-37D	0.005	0.00095	0.01	No	8	0.003794	0.00171	62.5	None	No	0.004	NP (NDs)
Arsenic (mg/L)	MW-51	0.0046	0.002	0.01	No	4	0.00375	0.001185	0	None	No	0.0625	NP (selected)
Barium (mg/L)	HGWC-14	0.022	0.018	2	No	23	0.02474	0.02198	4.348	None	No	0.01	NP (normality)
Barium (mg/L)	HGWC-15	0.02674	0.018	2	No	23	0.02237	0.008352	0	None	No	0.01	Param.
Barium (mg/L)	HGWC-16	0.1113	0.1006	2	No	23	0.1059	0.01019	0	None	No	0.01	Param.
Barium (mg/L)	HGWC-17	0.02637	0.02358	2	No	23	0.02497	0.002661	0	None	No	0.01	Param.
Barium (mg/L)	HGWC-18	0.0336	0.028	2	No	23	0.03231	0.01539	4.348	None	No	0.01	NP (normality)
Barium (mg/L)	MW-21D	0.06613	0.04033	2	No	13	0.05323	0.01735	0	None	No	0.01	Param.
Barium (mg/L)	MW-22	0.03037	0.01546	2	No	12	0.02292	0.009501	0	None	No	0.01	Param.
Barium (mg/L)	MW-23D	0.06578	0.05089	2	No	12	0.05833	0.00949	0	None	No	0.01	Param.
Barium (mg/L)	MW-33	0.02701	0.0201	2	No	9	0.02356	0.003575	0	None	No	0.01	Param.
Barium (mg/L)	MW-34D	0.04598	0.03502	2	No	6	0.0405	0.003987	0	None	No	0.01	Param.
Barium (mg/L)	MW-35	0.02969	0.02206	2	No	8	0.02588	0.003603	0	None	No	0.01	Param.
Barium (mg/L)	MW-37D	0.1578	0.108	2	No	8	0.1325	0.02605	0	None	ln(x)	0.01	Param.
Barium (mg/L)	MW-51	0.05247	0.01703	2	No	4	0.03475	0.007805	0	None	No	0.01	Param.
Beryllium (mg/L)	HGWC-14	0.00058	0.00043	0.004	No	21	0.0005657	0.0003206	9.524	None	No	0.01	NP (normality)
Beryllium (mg/L)	HGWC-17	0.0005	0.000067	0.004	No	21	0.0004158	0.0001779	80.95	None	No	0.01	NP (NDs)
Beryllium (mg/L)	HGWC-18	0.003365	0.002719	0.004	No	21	0.003042	0.0005857	4.762	None	No	0.01	Param.
Beryllium (mg/L)	MW-22	0.0005	0.000062	0.004	No	12	0.0002851	0.0002247	50	None	No	0.01	NP (normality)
Beryllium (mg/L)	MW-33	0.00109	0.0007052	0.004	No	9	0.00088	0.0002771	0	None	x^2	0.01	Param.
Beryllium (mg/L)	MW-34D	0.0005	0.000065	0.004	No	6	0.0003692	0.0002045	66.67	None	No	0.0155	NP (NDs)
Beryllium (mg/L)	MW-35	0.0006894	0.0004081	0.004	No	8	0.0005488	0.0001327	0	None	No	0.01	Param.
Beryllium (mg/L)	MW-37D	0.0005	0.00012	0.004	No	8	0.0004525	0.0001344	87.5	None	No	0.004	NP (NDs)
Beryllium (mg/L)	MW-51	0.00042	0.00011	0.004	No	4	0.0002725	0.0001269	0	None	No	0.0625	NP (selected)
Cadmium (mg/L)	HGWC-14	0.0005	0.00012	0.005	No	23	0.0003203	0.0001938	52.17	None	No	0.01	NP (NDs)
Cadmium (mg/L)	HGWC-15	0.00216	0.001418	0.005	No	23	0.001789	0.0007095	0	None	No	0.01	Param.
Cadmium (mg/L)	HGWC-17	0.0005	0.00007	0.005	No	23	0.0004813	0.00008966	95.65	None	No	0.01	NP (NDs)
Cadmium (mg/L)	HGWC-18	0.0024	0.0016	0.005	No	23	0.002329	0.001747	4.348	None	No	0.01	NP (normality)
Cadmium (mg/L)	MW-22	0.0021	0.001547	0.005	No	12	0.001747	0.0005224	0	None	x^3	0.01	Param.
Cadmium (mg/L)	MW-23D	0.0025	0.00012	0.005	No	12	0.001234	0.001128	41.67	None	No	0.01	NP (normality)
Cadmium (mg/L)	MW-33	0.00125	0.00013	0.005	No	9	0.0002967	0.0003585	11.11	None	No	0.002	NP (normality)
Cadmium (mg/L)	MW-34D	0.0007197	0.0002366	0.005	No	6	0.001138	0.001066	33.33	Kaplan-Meier	x^(1/3)	0.01	Param.
Cadmium (mg/L)	MW-35	0.001833	0.0009249	0.005	No	8	0.001379	0.0004282	0	None	No	0.01	Param.
Cadmium (mg/L)	MW-51	0.0016	0.00024	0.005	No	4	0.0008075	0.0006043	0	None	No	0.0625	NP (selected)
Chromium (mg/L)	HGWC-14	0.025	0.00066	0.1	No	21	0.02267	0.007357	90.48	None	No	0.01	NP (NDs)
Chromium (mg/L)	HGWC-15	0.025	0.0012	0.1	No	21	0.02153	0.008713	85.71	None	No	0.01	NP (NDs)

Confidence Intervals - All Results

Plant Hammond Client: Southern Company Data: Hammond AP-2 Printed 5/22/2023, 4:01 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Chromium (mg/L)	HGWC-16	0.025	0.0021	0.1	No	21	0.02158	0.008585	85.71	None	No	0.01	NP (NDs)
Chromium (mg/L)	HGWC-17	0.005	0.0018	0.1	No	21	0.00444	0.001421	85.71	None	No	0.01	NP (NDs)
Chromium (mg/L)	HGWC-18	0.025	0.00063	0.1	No	21	0.0215	0.008781	85.71	None	No	0.01	NP (NDs)
Chromium (mg/L)	MW-21D	0.005	0.00074	0.1	No	13	0.004332	0.001632	84.62	None	No	0.01	NP (NDs)
Chromium (mg/L)	MW-22	0.005	0.00075	0.1	No	12	0.004262	0.001724	83.33	None	No	0.01	NP (NDs)
Chromium (mg/L)	MW-23D	0.025	0.00086	0.1	No	12	0.02097	0.009402	83.33	None	No	0.01	NP (NDs)
Chromium (mg/L)	MW-33	0.005	0.00069	0.1	No	9	0.004521	0.001437	88.89	None	No	0.002	NP (NDs)
Chromium (mg/L)	MW-34D	0.0059	0.005	0.1	No	6	0.00515	0.0003674	83.33	None	No	0.0155	NP (NDs)
Chromium (mg/L)	MW-35	0.025	0.00079	0.1	No	8	0.01895	0.0112	75	None	No	0.004	NP (NDs)
Chromium (mg/L)	MW-37D	0.005	0.0014	0.1	No	8	0.004525	0.001265	75	None	No	0.004	NP (NDs)
Cobalt (mg/L)	HGWC-14	0.033	0.025	0.038	No	23	0.03281	0.02061	4.348	None	No	0.01	NP (normality)
Cobalt (mg/L)	HGWC-15	0.0425	0.02433	0.038	No	23	0.03342	0.01737	0	None	No	0.01	Param.
Cobalt (mg/L)	HGWC-16	0.005	0.00037	0.038	No	23	0.004593	0.001347	91.3	None	No	0.01	NP (NDs)
Cobalt (mg/L)	HGWC-17	0.01571	0.01282	0.038	No	23	0.01427	0.00276	0	None	No	0.01	Param.
Cobalt (mg/L)	HGWC-18	0.1843	0.1565	0.038	Yes	23	0.1704	0.02661	0	None	No	0.01	Param.
Cobalt (mg/L)	MW-21D	0.005	0.00034	0.038	No	13	0.004642	0.001292	92.31	None	No	0.01	NP (NDs)
Cobalt (mg/L)	MW-22	0.03621	0.02329	0.038	No	12	0.02975	0.008237	0	None	No	0.01	Param.
Cobalt (mg/L)	MW-23D	0.001137	0.0009167	0.038	No	12	0.001027	0.0001402	0	None	No	0.01	Param.
Cobalt (mg/L)	MW-33	0.05671	0.04409	0.038	Yes	10	0.0504	0.007074	0	None	No	0.01	Param.
Cobalt (mg/L)	MW-34D	0.01049	0.004877	0.038	No	6	0.007683	0.002043	0	None	No	0.01	Param.
Cobalt (mg/L)	MW-35	0.09573	0.08302	0.038	Yes	8	0.08938	0.005999	0	None	No	0.01	Param.
Cobalt (mg/L)	MW-37D	0.005	0.00048	0.038	No	8	0.003997	0.001876	75	None	No	0.004	NP (NDs)
Cobalt (mg/L)	MW-51	0.03747	0.01703	0.038	No	4	0.02725	0.0045	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	HGWC-14	1.561	1.096	5	No	23	1.329	0.4443	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	HGWC-15	0.8756	0.4627	5	No	23	0.6692	0.3947	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	HGWC-16	0.9267	0.5097	5	No	23	0.7182	0.3987	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	HGWC-17	0.9865	0.6461	5	No	23	0.8163	0.3254	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	HGWC-18	2.152	1.575	5	No	23	1.864	0.5525	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-21D	1.019	0.4388	5	No	13	0.7489	0.4402	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-22	1.06	0.3998	5	No	12	0.7298	0.4206	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-23D	1.031	0.5436	5	No	12	0.7872	0.3104	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-33	2.321	1.061	5	No	9	1.691	0.6528	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-34D	1.291	0.2594	5	No	6	0.7753	0.3756	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-35	2.706	0.832	5	No	8	1.739	0.9594	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-37D	1.349	0.1355	5	No	8	0.7421	0.5723	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-51	1.418	0.2041	5	No	4	0.811	0.2673	0	None	No	0.01	Param.
Fluoride (mg/L)	HGWC-14	0.1721	0.07713	4	No	24	0.1688	0.1523	20.83	Kaplan-Meier	ln(x)	0.01	Param.
Fluoride (mg/L)	HGWC-15	0.12	0.09	4	No	24	0.1373	0.1149	41.67	None	No	0.01	NP (normality)
Fluoride (mg/L)	HGWC-16	0.1407	0.04851	4	No	24	0.1481	0.1161	50	Kaplan-Meier	x^(1/3)	0.01	Param.
Fluoride (mg/L)	HGWC-17	0.1743	0.06167	4	No	24	0.2164	0.206	29.17	Kaplan-Meier	x^(1/3)	0.01	Param.
Fluoride (mg/L)	HGWC-18	0.6071	0.3854	4	No	24	0.4963	0.2173	4.167	None	No	0.01	Param.
Fluoride (mg/L)	MW-21D	0.1	0.056	4	No	13	0.09277	0.01769	76.92	None	No	0.01	NP (NDs)
Fluoride (mg/L)	MW-22	0.13	0.064	4	No	12	0.1114	0.05592	66.67	None	No	0.01	NP (NDs)
Fluoride (mg/L)	MW-23D	0.14	0.074	4	No	12	0.1028	0.0259	66.67	None	No	0.01	NP (NDs)
Fluoride (mg/L)	MW-33	0.2751	0.1183	4	No	10	0.1967	0.08785	0	None	No	0.01	Param.
Fluoride (mg/L)	MW-34D	0.09254	0.05506	4	No	6	0.07817	0.01734	16.67	Kaplan-Meier	No	0.01	Param.
Fluoride (mg/L)	MW-35	0.09433	0.05142	4	No	8	0.07288	0.02024	12.5	None	No	0.01	Param.
Fluoride (mg/L)	MW-37D	0.09216	0.05384	4	No	8	0.073	0.01808	0	None	No	0.01	Param.
Fluoride (mg/L)	MW-51	0.18	0.072	4	No	4	0.11	0.04956	0	None	No	0.0625	NP (selected)
Lead (mg/L)	HGWC-14	0.001674	0.001233	0.015	No	21	0.001453	0.0003992	9.524	None	No	0.01	Param.
Lead (mg/L)	HGWC-15	0.001	0.001	0.015	No	21	0.0008298	0.0003605	76.19	None	No	0.01	NP (NDs)
Lead (mg/L)	HGWC-16	0.001	0.0001	0.015	No	21	0.0006201	0.0004505	57.14	None	No	0.01	NP (NDs)
Lead (mg/L)	HGWC-17	0.001	0.000089	0.015	No	21	0.0006574	0.0004481	61.9	None	No	0.01	NP (NDs)
Lead (mg/L)	HGWC-18	0.001401	0.001045	0.015	No	21	0.001223	0.0003233	9.524	None	No	0.01	Param.
Lead (mg/L)	MW-21D	0.001	0.000048	0.015	No	13	0.000756	0.0004098	69.23	None	No	0.01	NP (NDs)

Confidence Intervals - All Results

Plant Hammond Client: Southern Company Data: Hammond AP-2 Printed 5/22/2023, 4:01 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lead (mg/L)	MW-22	0.001	0.000094	0.015	No	12	0.0007692	0.0004179	75	None	No	0.01	NP (NDs)
Lead (mg/L)	MW-23D	0.001	0.00016	0.015	No	12	0.0008509	0.000349	83.33	None	No	0.01	NP (NDs)
Lead (mg/L)	MW-33	0.001674	0.001032	0.015	No	9	0.001511	0.00031	22.22	Kaplan-Meier	x*5	0.01	Param.
Lead (mg/L)	MW-34D	0.001	0.00087	0.015	No	6	0.0009783	0.00005307	83.33	Kaplan-Meier	No	0.0155	NP (NDs)
Lead (mg/L)	MW-35	0.001	0.00016	0.015	No	8	0.000795	0.0003134	50	None	No	0.004	NP (normality)
Lead (mg/L)	MW-37D	0.0017	0.000082	0.015	No	8	0.0008965	0.0004809	62.5	None	No	0.004	NP (NDs)
Lithium (mg/L)	HGWC-15	0.03	0.0021	0.064	No	23	0.01411	0.01324	26.09	None	No	0.01	NP (normality)
Lithium (mg/L)	HGWC-16	0.0042	0.0029	0.064	No	22	0.004023	0.002541	4.545	None	No	0.01	NP (normality)
Lithium (mg/L)	HGWC-17	0.03	0.0012	0.064	No	22	0.01427	0.01469	45.45	None	No	0.01	NP (normality)
Lithium (mg/L)	HGWC-18	0.01424	0.01197	0.064	No	22	0.0131	0.002122	0	None	No	0.01	Param.
Lithium (mg/L)	MW-21D	0.02469	0.02085	0.064	No	13	0.02277	0.002587	0	None	No	0.01	Param.
Lithium (mg/L)	MW-22	0.0015	0.0011	0.064	No	12	0.001275	0.0002598	0	None	No	0.01	NP (normality)
Lithium (mg/L)	MW-23D	0.002562	0.002088	0.064	No	12	0.002325	0.0003019	0	None	No	0.01	Param.
Lithium (mg/L)	MW-33	0.015	0.00086	0.064	No	8	0.002775	0.004941	12.5	None	No	0.004	NP (normality)
Lithium (mg/L)	MW-34D	0.002492	0.0005877	0.064	No	5	0.00154	0.0005683	0	None	No	0.01	Param.
Lithium (mg/L)	MW-35	0.015	0.0034	0.064	No	8	0.005362	0.00392	12.5	None	No	0.004	NP (normality)
Lithium (mg/L)	MW-37D	0.03763	0.02466	0.064	No	7	0.03114	0.00546	0	None	No	0.01	Param.
Lithium (mg/L)	MW-51	0.002658	0.0003917	0.064	No	4	0.001525	0.0004992	0	None	No	0.01	Param.
Mercury (mg/L)	HGWC-18	0.0002	0.00006	0.002	No	14	0.0001536	0.00006559	64.29	None	No	0.01	NP (NDs)
Mercury (mg/L)	MW-22	0.0002	0.00016	0.002	No	6	0.0001933	0.00001633	83.33	None	No	0.0155	NP (NDs)
Mercury (mg/L)	MW-23D	0.0002	0.00017	0.002	No	6	0.000195	0.00001225	83.33	None	No	0.0155	NP (NDs)
Mercury (mg/L)	MW-35	0.00084	0.00014	0.002	No	4	0.000405	0.000336	25	None	No	0.0625	NP (selected)
Molybdenum (mg/L)	HGWC-15	0.01	0.0007	0.1	No	21	0.009557	0.002029	95.24	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	MW-21D	0.03062	0.01772	0.1	No	13	0.02446	0.009288	0	None	sqrt(x)	0.01	Param.
Molybdenum (mg/L)	MW-22	0.01	0.00013	0.1	No	12	0.009177	0.002849	91.67	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	MW-23D	0.004031	0.002602	0.1	No	12	0.003317	0.0009104	8.333	None	No	0.01	Param.
Molybdenum (mg/L)	MW-37D	0.0208	0.00566	0.1	No	7	0.01323	0.006372	0	None	No	0.01	Param.
Selenium (mg/L)	HGWC-14	0.01191	0.006327	0.05	No	23	0.009118	0.005336	0	None	No	0.01	Param.
Selenium (mg/L)	HGWC-15	0.005	0.0041	0.05	No	23	0.00444	0.00139	82.61	None	No	0.01	NP (NDs)
Selenium (mg/L)	HGWC-16	0.005	0.000089	0.05	No	23	0.004786	0.001024	95.65	None	No	0.01	NP (NDs)
Selenium (mg/L)	HGWC-17	0.005	0.0023	0.05	No	23	0.004513	0.001329	86.96	None	No	0.01	NP (NDs)
Selenium (mg/L)	HGWC-18	0.03429	0.0152	0.05	No	23	0.02713	0.02106	4.348	None	sqrt(x)	0.01	Param.
Selenium (mg/L)	MW-22	0.005	0.002	0.05	No	12	0.00475	0.000866	91.67	None	No	0.01	NP (NDs)
Selenium (mg/L)	MW-33	0.02526	0.007766	0.05	No	9	0.01653	0.01103	0	None	x^(1/3)	0.01	Param.
Selenium (mg/L)	MW-34D	0.005	0.0016	0.05	No	6	0.004017	0.00155	66.67	None	No	0.0155	NP (NDs)
Selenium (mg/L)	MW-35	0.02273	0.006433	0.05	No	8	0.01431	0.009754	0	None	x^(1/3)	0.01	Param.
Selenium (mg/L)	MW-51	0.004735	0.0008646	0.05	No	4	0.00335	0.001392	25	Kaplan-Meier	No	0.01	Param.
Thallium (mg/L)	HGWC-14	0.000306	0.00027	0.002	No	23	0.000299	0.00004904	0	None	No	0.01	NP (normality)
Thallium (mg/L)	HGWC-15	0.001	0.00022	0.002	No	23	0.0009661	0.0001626	95.65	None	No	0.01	NP (NDs)
Thallium (mg/L)	HGWC-17	0.001	0.00013	0.002	No	23	0.0006978	0.000424	65.22	None	No	0.01	NP (NDs)
Thallium (mg/L)	HGWC-18	0.001	0.00016	0.002	No	23	0.0005665	0.0004248	47.83	None	No	0.01	NP (normality)
Thallium (mg/L)	MW-33	0.0025	0.00021	0.002	No	9	0.0005311	0.0007402	11.11	None	No	0.002	NP (normality)
Thallium (mg/L)	MW-34D	0.001	0.00015	0.002	No	6	0.0008583	0.000347	83.33	None	No	0.0155	NP (NDs)
Thallium (mg/L)	MW-35	0.001	0.00013	0.002	No	8	0.0008913	0.0003076	87.5	None	No	0.004	NP (NDs)

Appendix IV Trend Test - Confidence Interval Exceedances - Significant Results

Plant Hammond Client: Southern Company Data: Hammond AP-2 Printed 5/15/2023, 2:49 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Cobalt (mg/L)	HGWA-4 (bg)	-0.00006016	-118	-98	Yes	23	65.22	n/a	n/a	0.01	NP
Cobalt (mg/L)	HGWC-18	-0.008561	-117	-98	Yes	23	0	n/a	n/a	0.01	NP

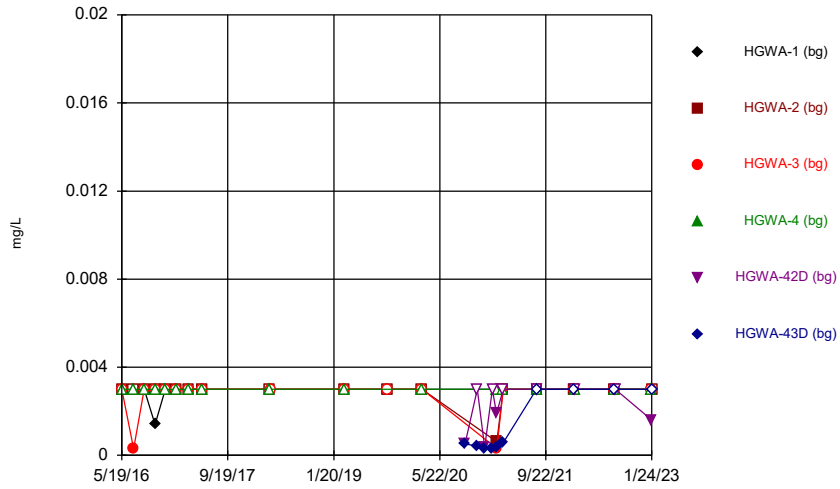
Appendix IV Trend Test - Confidence Interval Exceedances - All Results

Plant Hammond Client: Southern Company Data: Hammond AP-2 Printed 5/15/2023, 2:49 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Cobalt (mg/L)	HGWA-1 (bg)	0	1	98	No	23	91.3	n/a	n/a	0.01	NP
Cobalt (mg/L)	HGWA-2 (bg)	-0.0004127	-41	-98	No	23	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	HGWA-3 (bg)	0	0	98	No	23	100	n/a	n/a	0.01	NP
Cobalt (mg/L)	HGWA-4 (bg)	-0.00006016	-118	-98	Yes	23	65.22	n/a	n/a	0.01	NP
Cobalt (mg/L)	HGWA-42D (bg)	0	5	30	No	10	90	n/a	n/a	0.01	NP
Cobalt (mg/L)	HGWA-43D (bg)	0	0	30	No	10	100	n/a	n/a	0.01	NP
Cobalt (mg/L)	HGWA-44D (bg)	0	0	30	No	10	100	n/a	n/a	0.01	NP
Cobalt (mg/L)	HGWA-5 (bg)	0	-9	-98	No	23	26.09	n/a	n/a	0.01	NP
Cobalt (mg/L)	HGWA-6 (bg)	0	0	98	No	23	100	n/a	n/a	0.01	NP
Cobalt (mg/L)	HGWC-18	-0.008561	-117	-98	Yes	23	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	MW-33	-0.003989	-19	-30	No	10	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	MW-35	-0.001591	-6	-21	No	8	0	n/a	n/a	0.01	NP

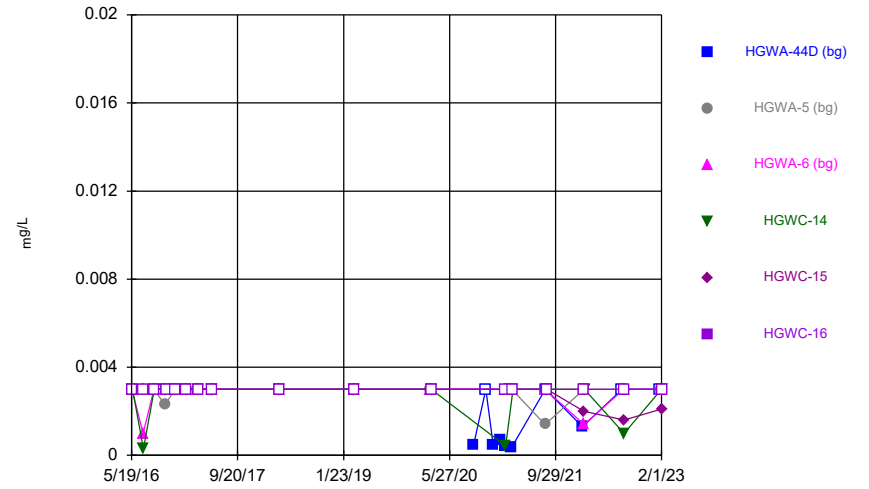
FIGURE A.

Time Series



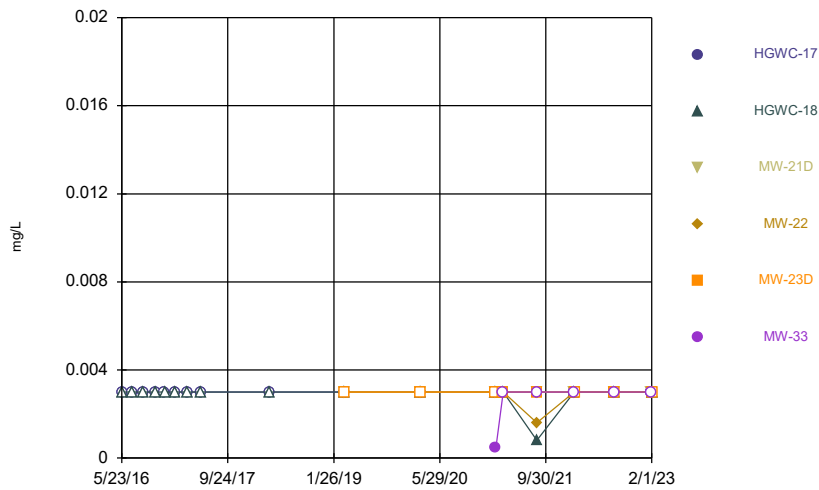
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 Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



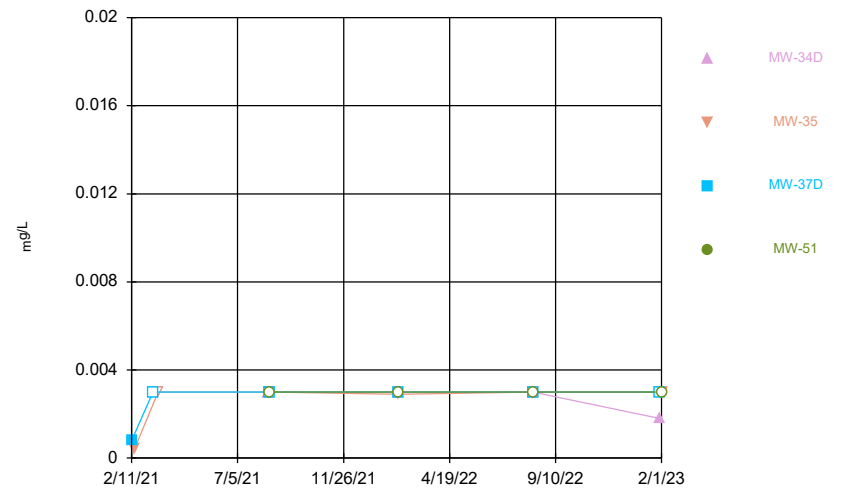
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Time Series



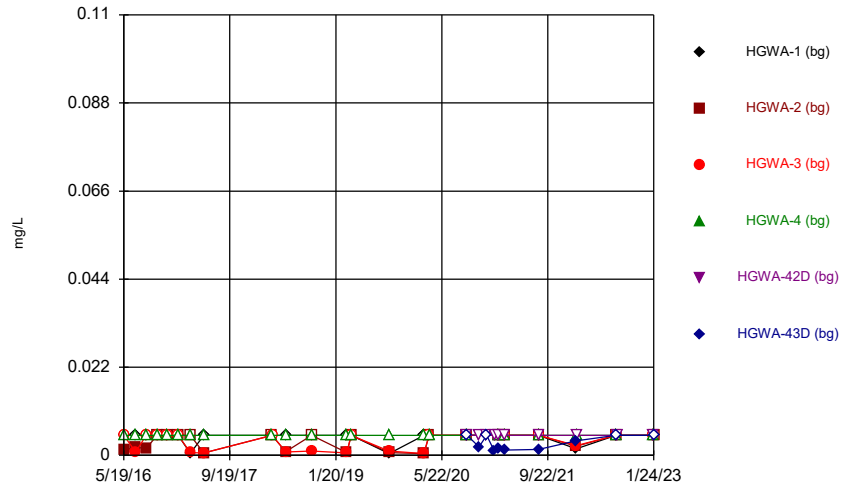
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Time Series



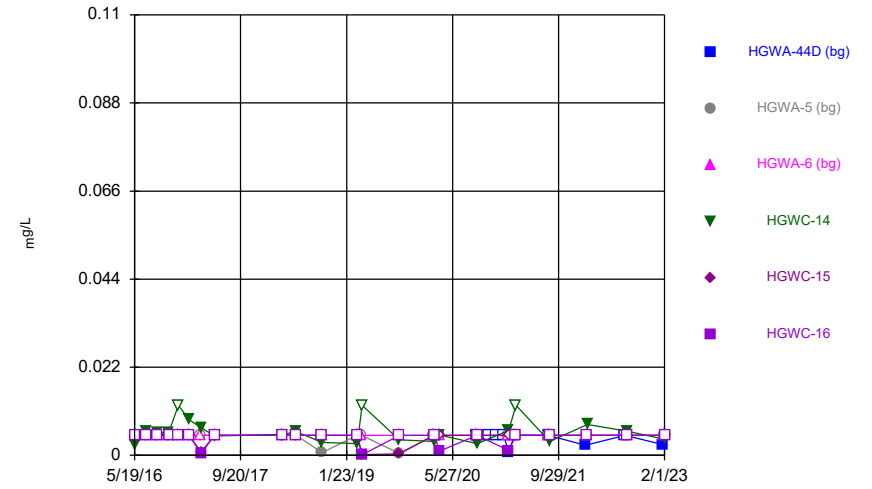
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Time Series



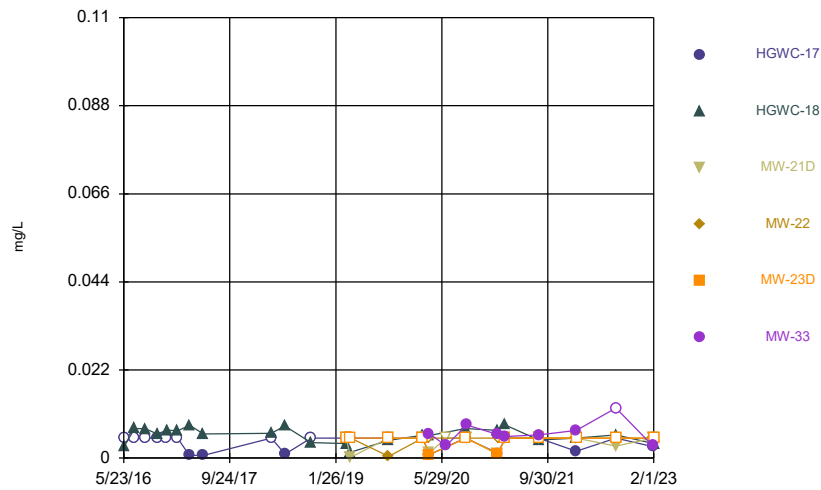
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Time Series



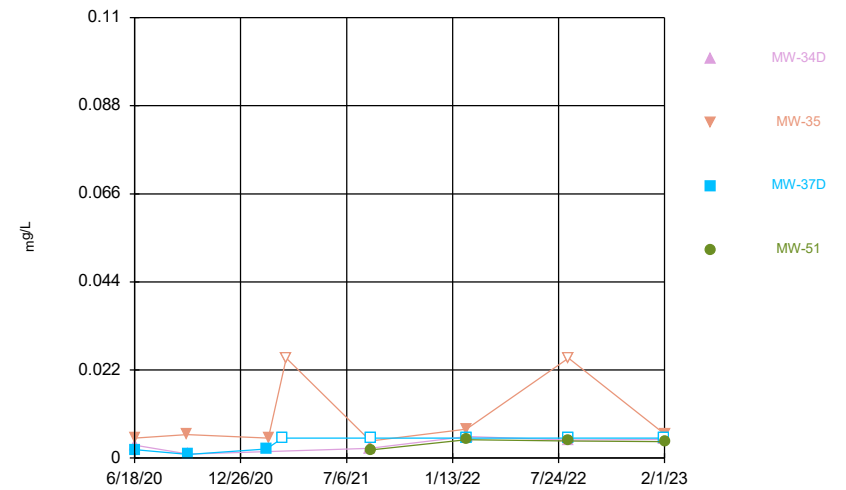
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Time Series



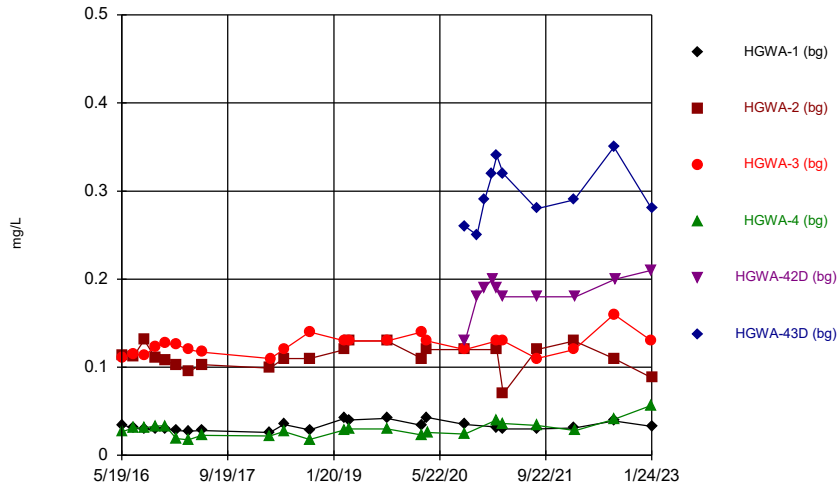
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Time Series



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Plant Hammond Client: Southern Company Data: Hammond AP-2

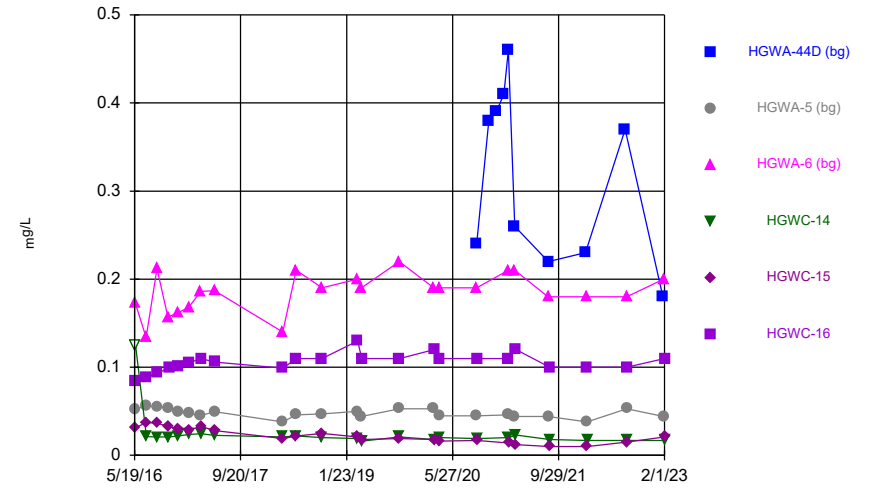
Time Series



Constituent: Barium Analysis Run 5/16/2023 2:04 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-2

Hollow symbols indicate censored values.

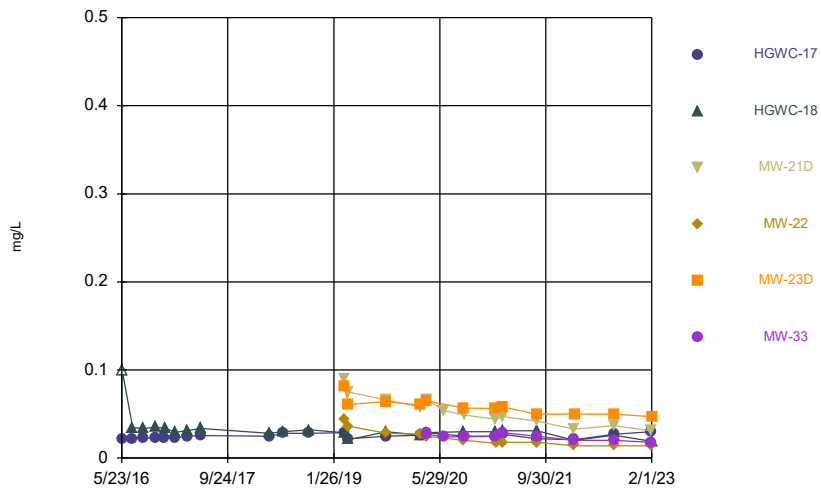
Time Series



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Plant Hammond Client: Southern Company Data: Hammond AP-2

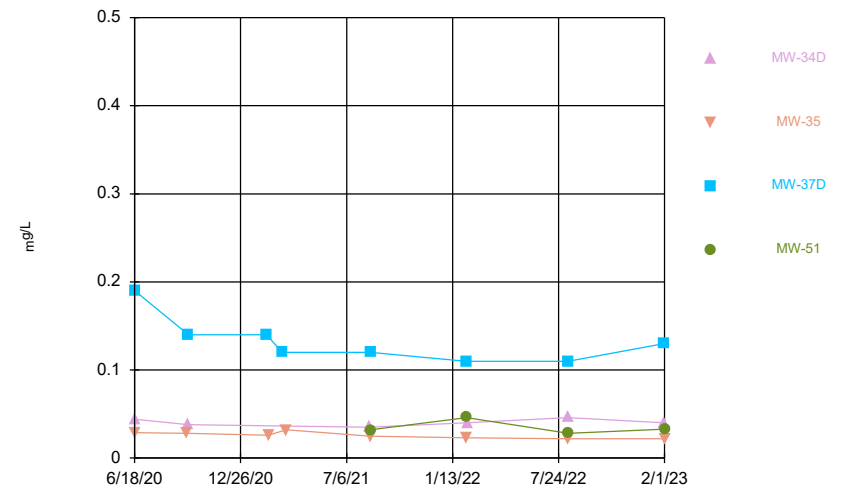
Hollow symbols indicate censored values.

Time Series



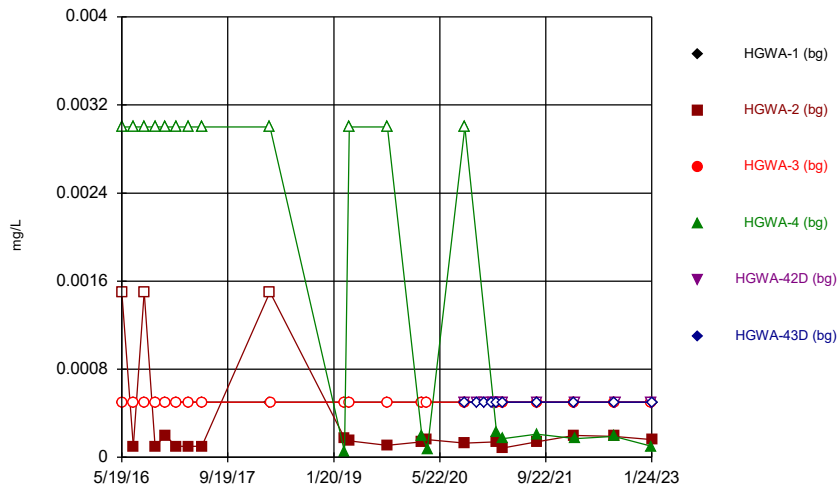
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Time Series



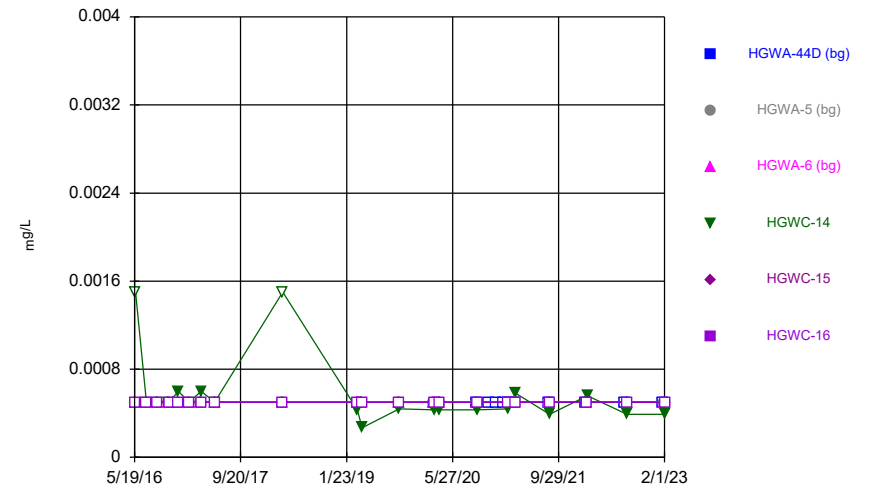
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Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



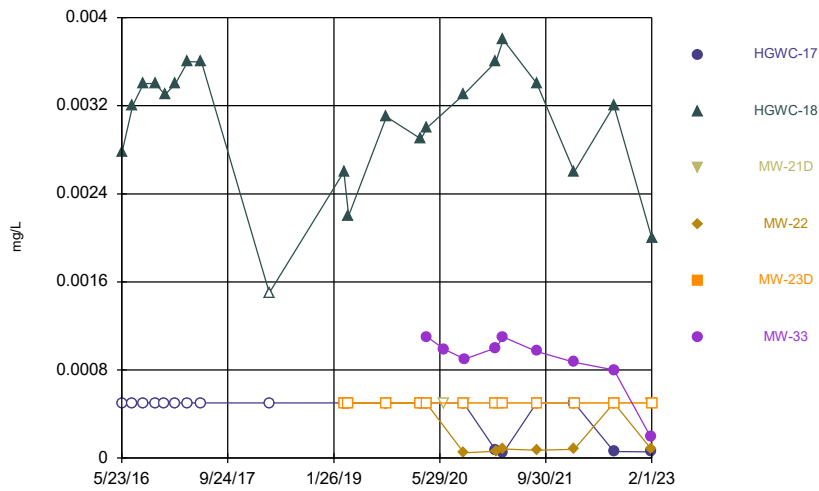
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Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



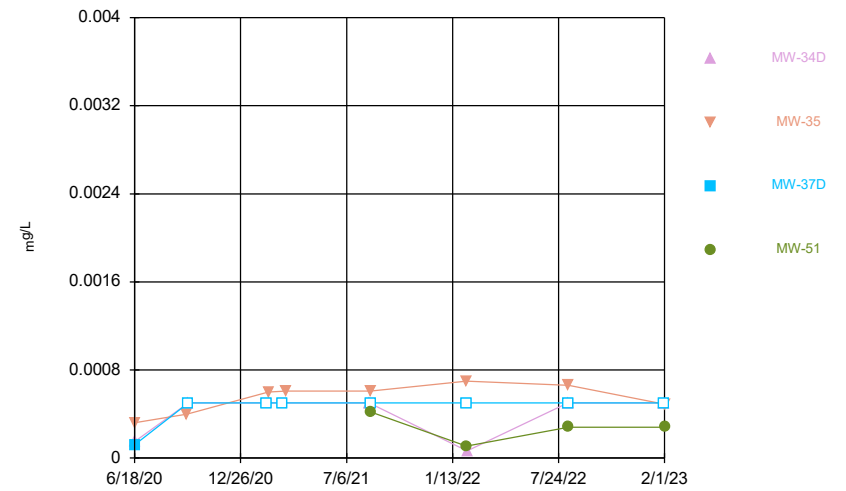
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Time Series



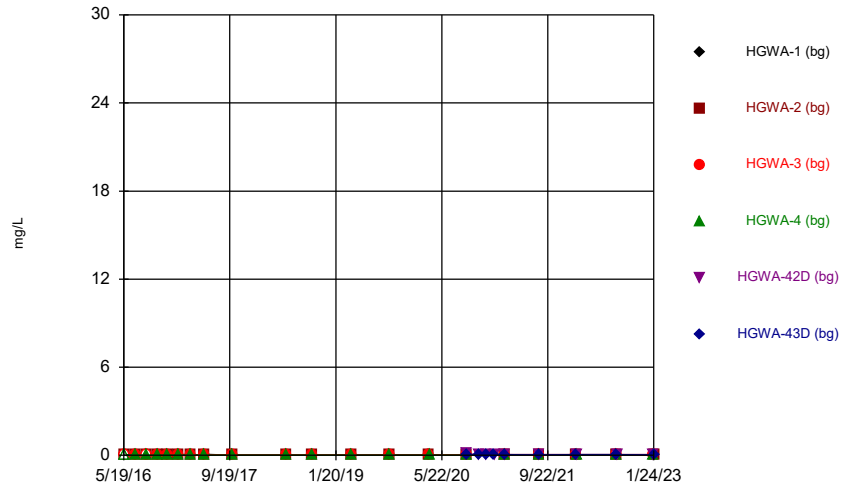
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Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



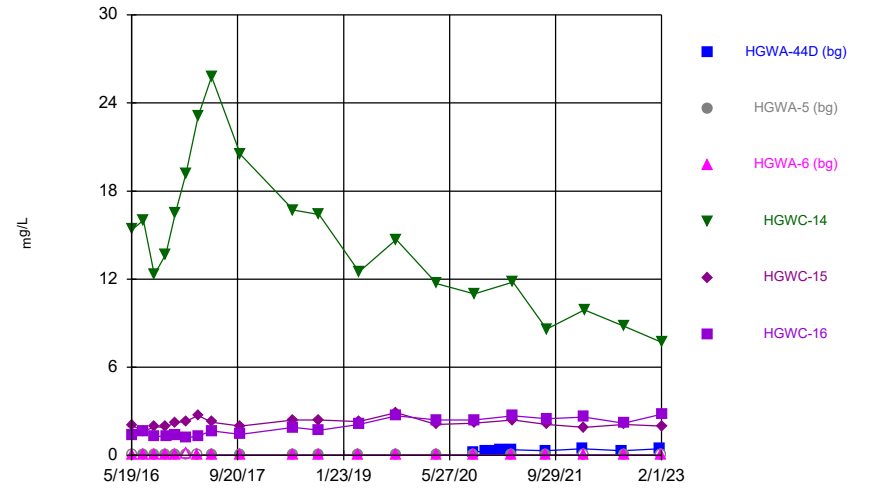
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Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



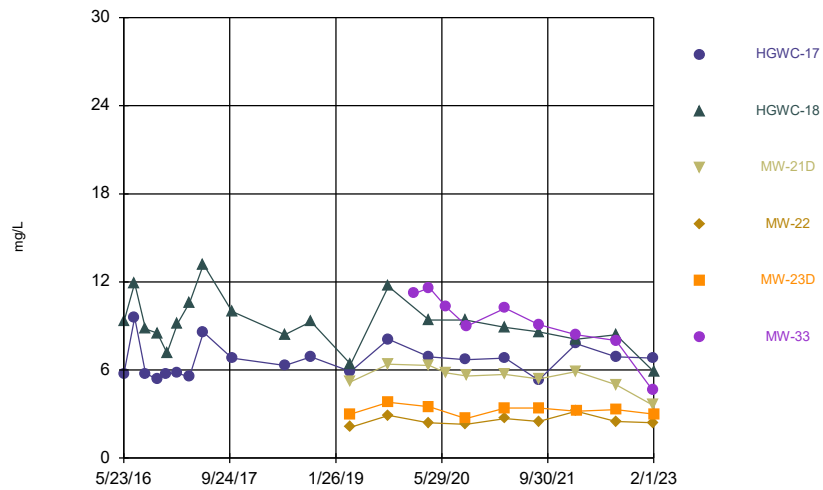
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Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



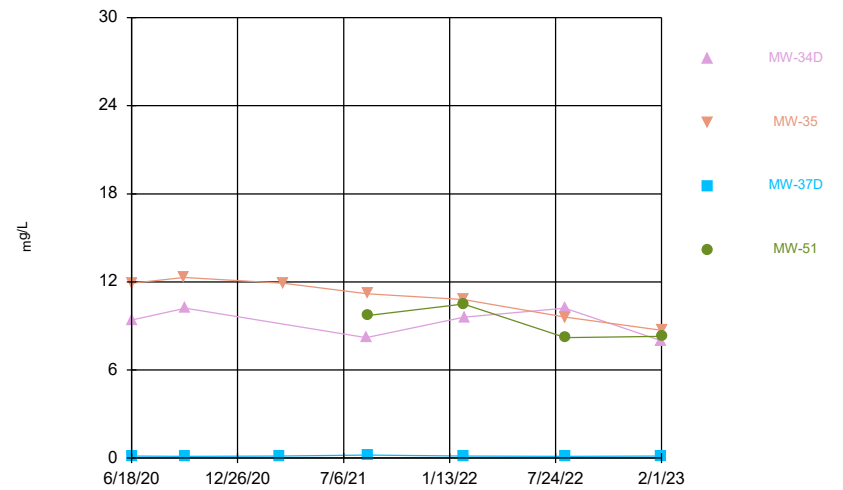
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Time Series



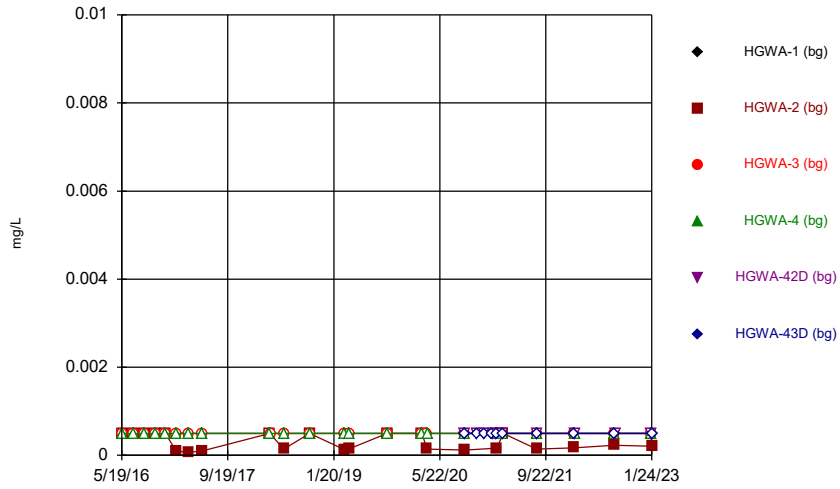
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Time Series



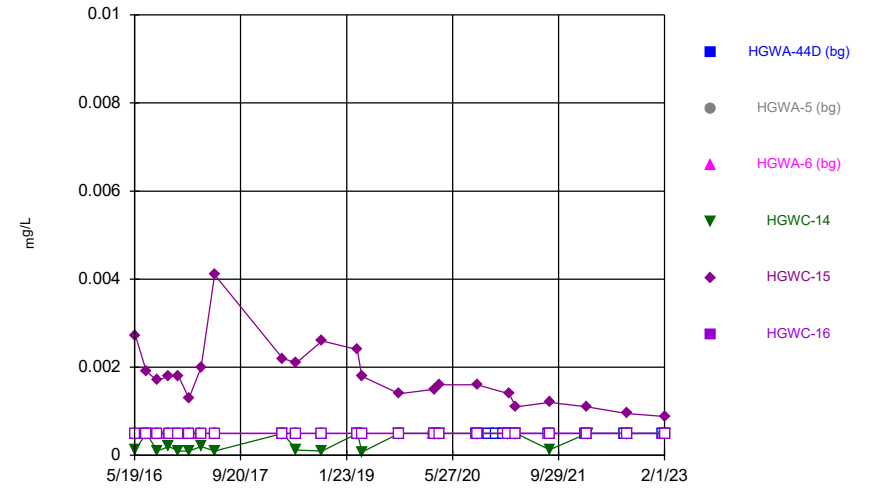
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Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



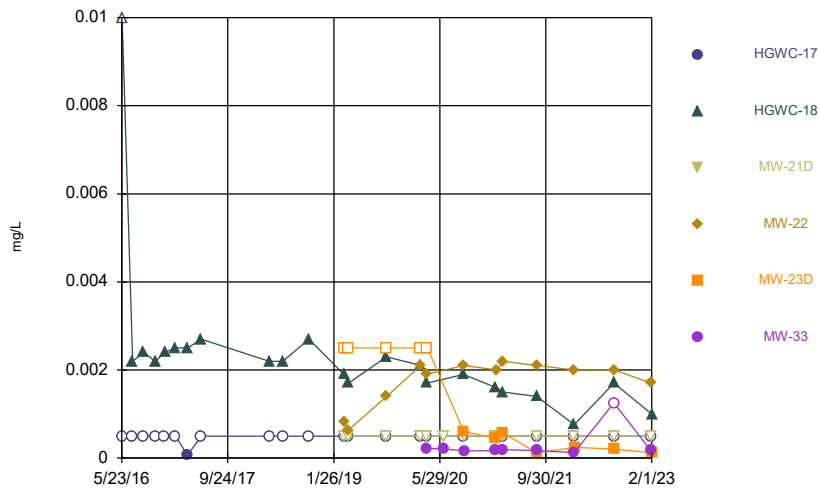
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Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



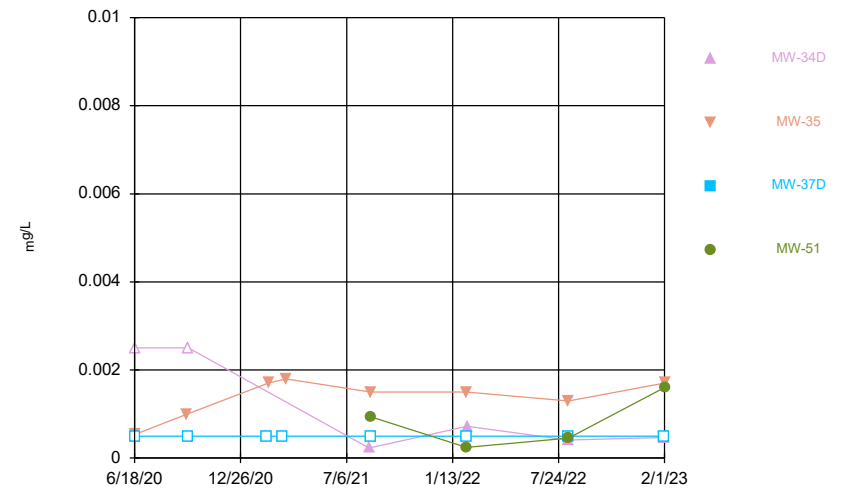
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Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



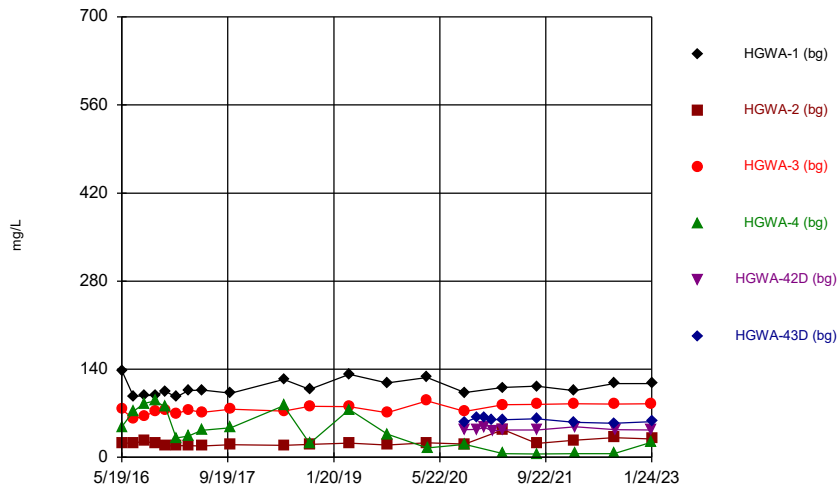
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Time Series



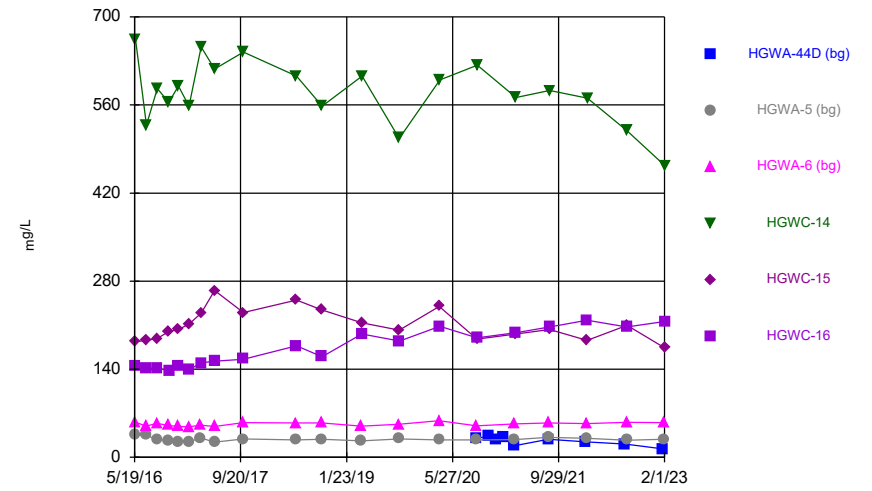
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Time Series



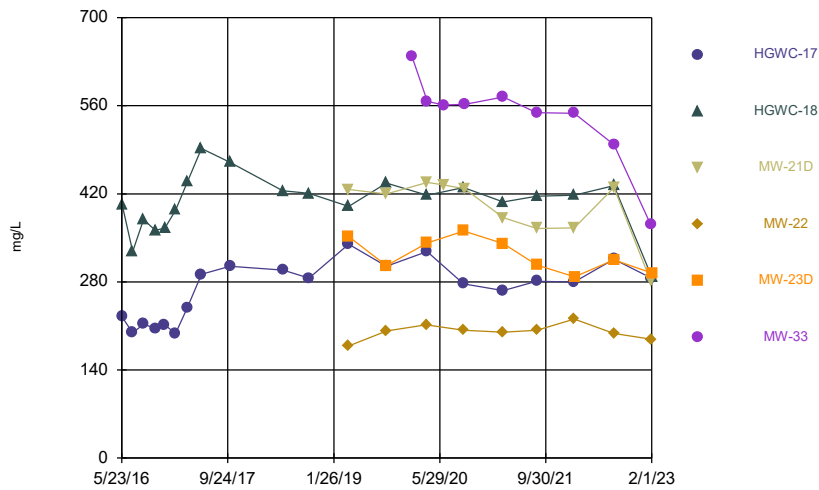
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Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



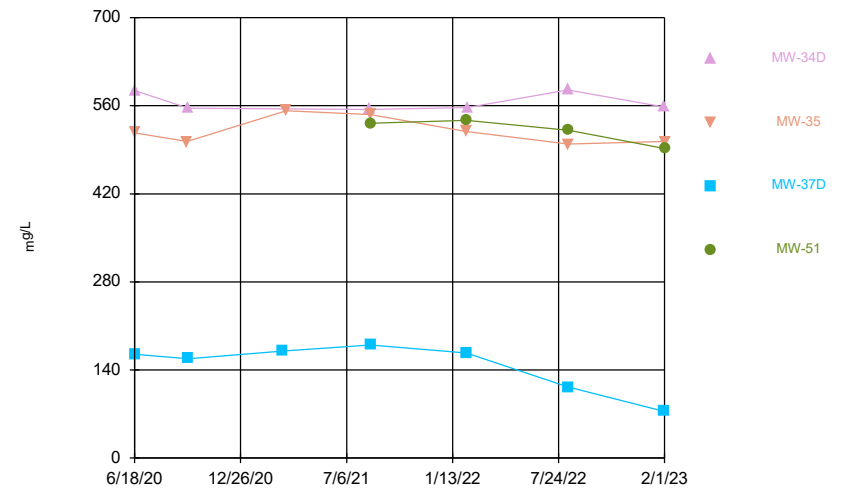
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Time Series



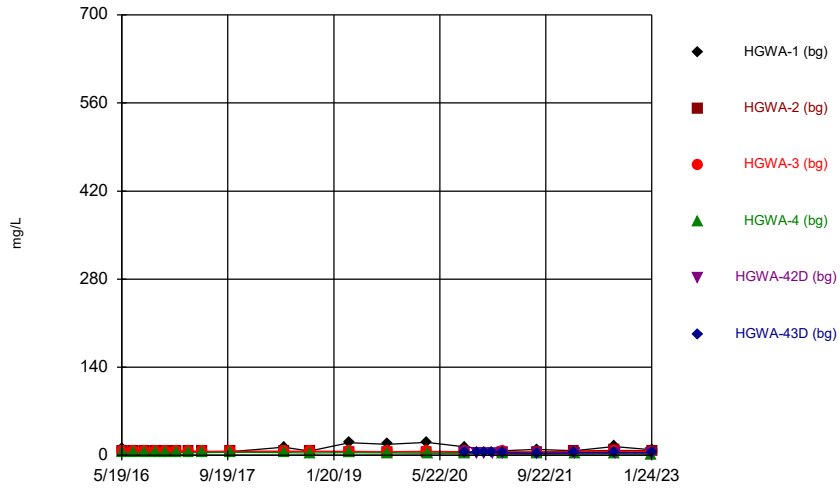
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Time Series



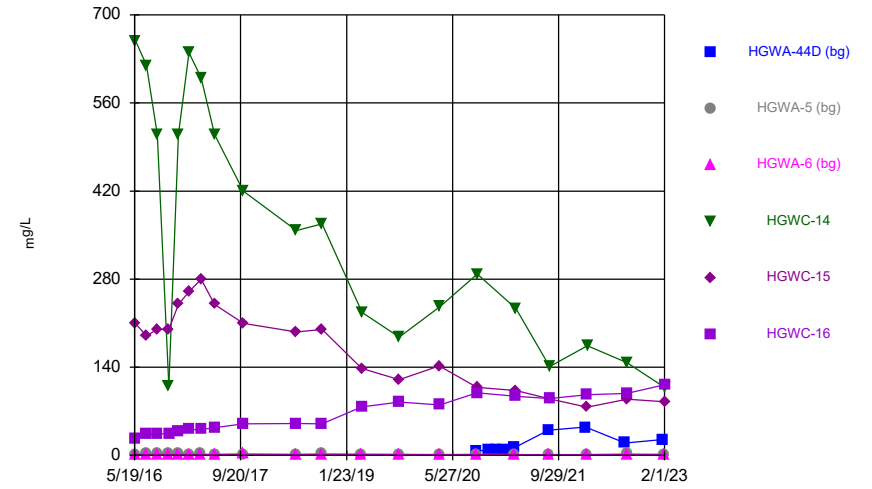
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Time Series



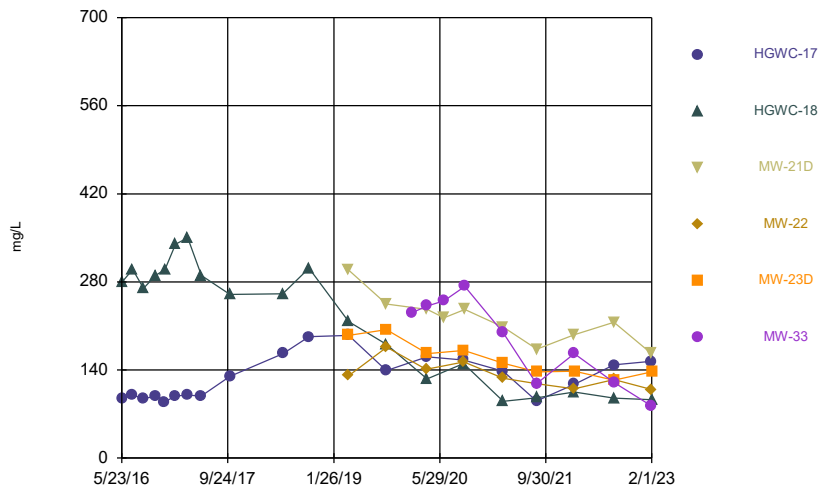
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Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



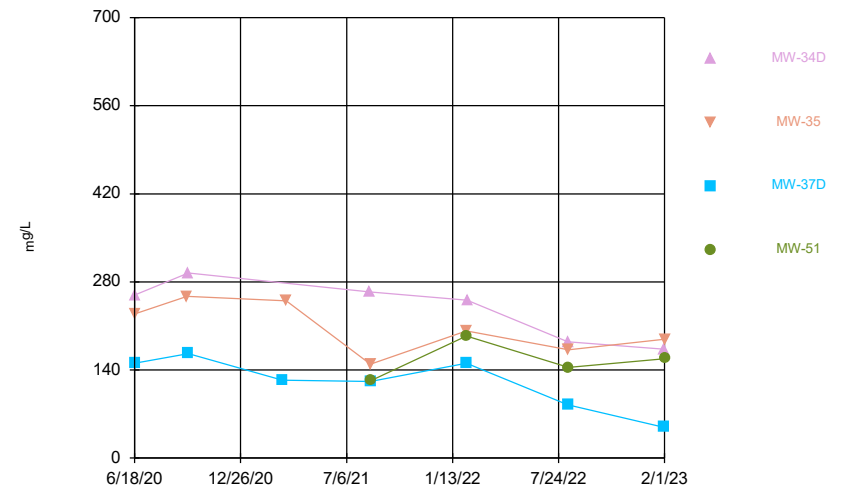
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Time Series



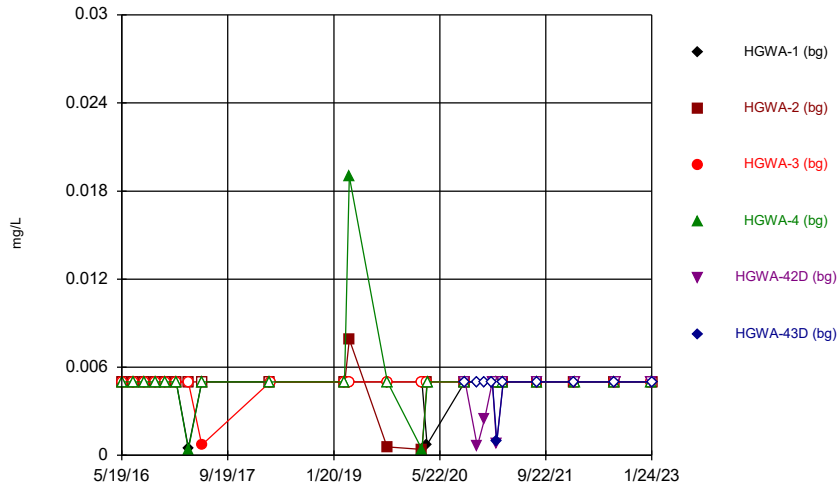
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Time Series



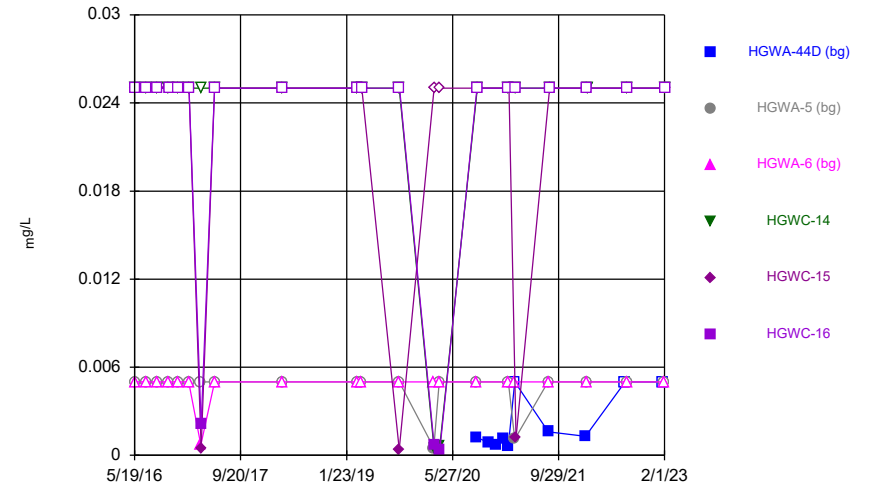
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Time Series



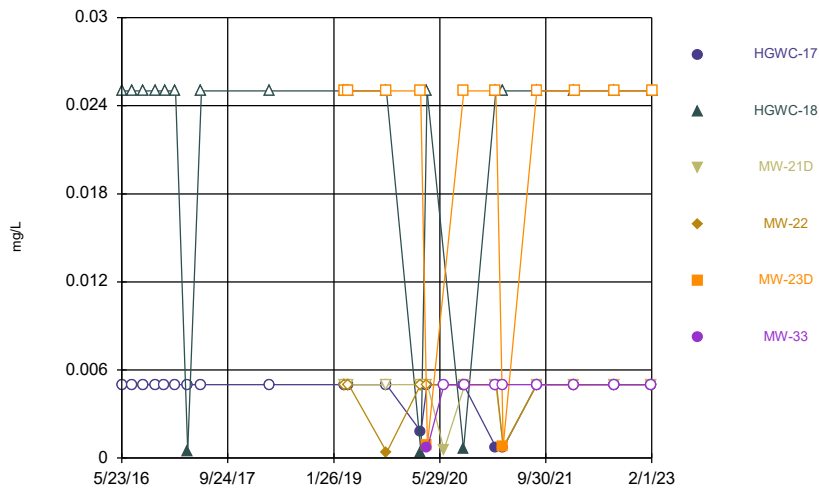
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Time Series



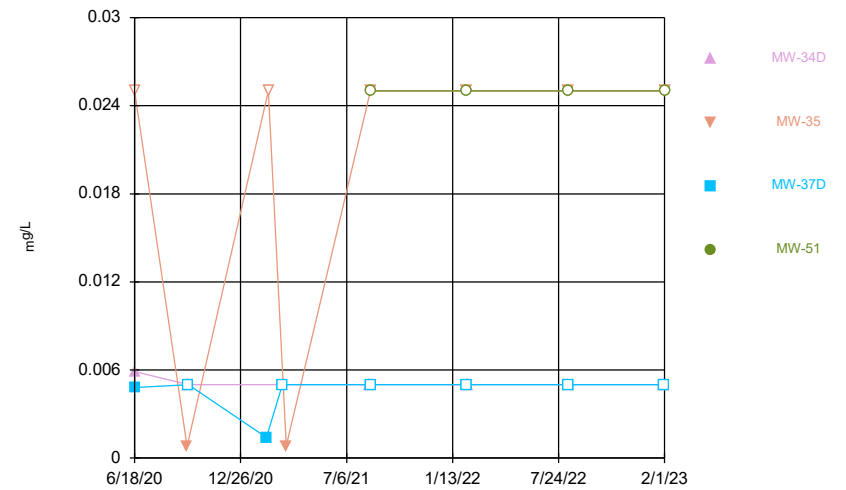
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Time Series



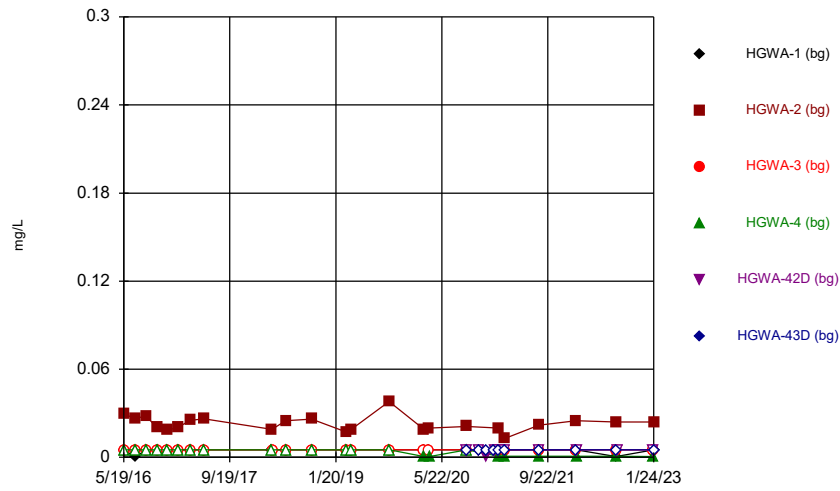
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Time Series



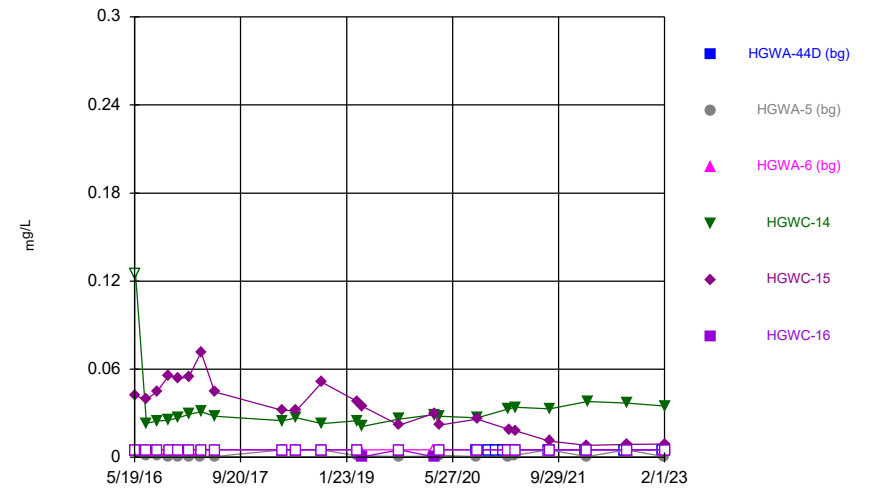
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Time Series



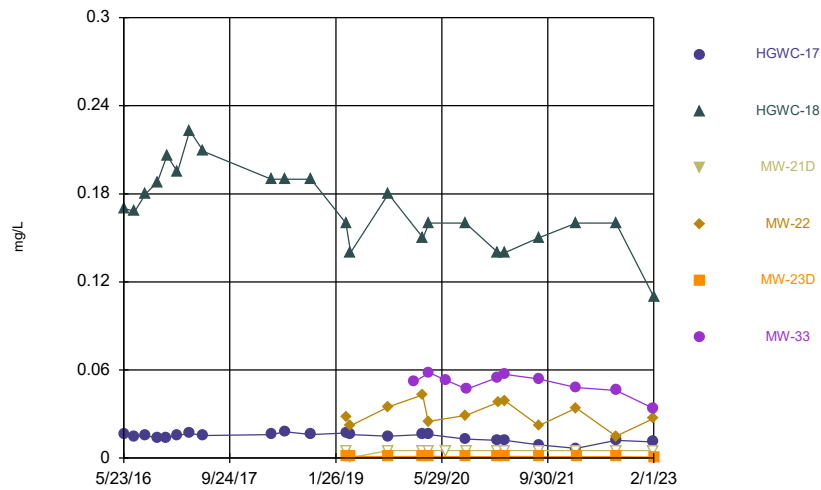
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Time Series



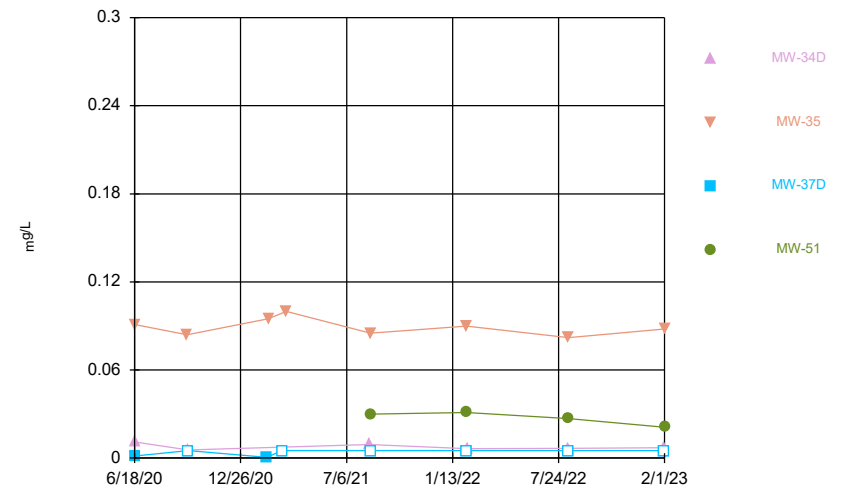
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Time Series



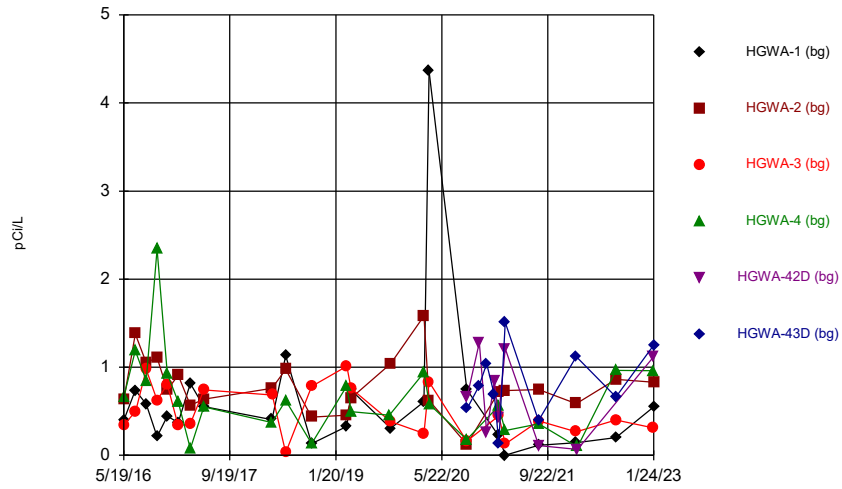
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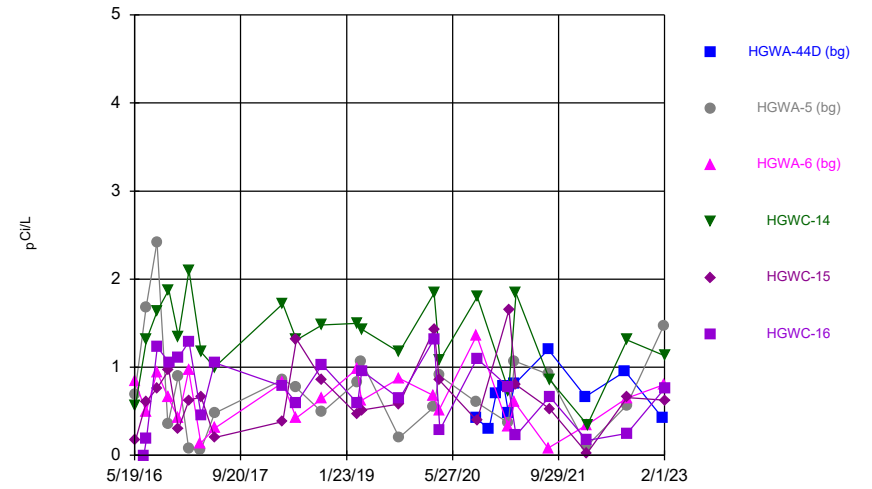
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Time Series



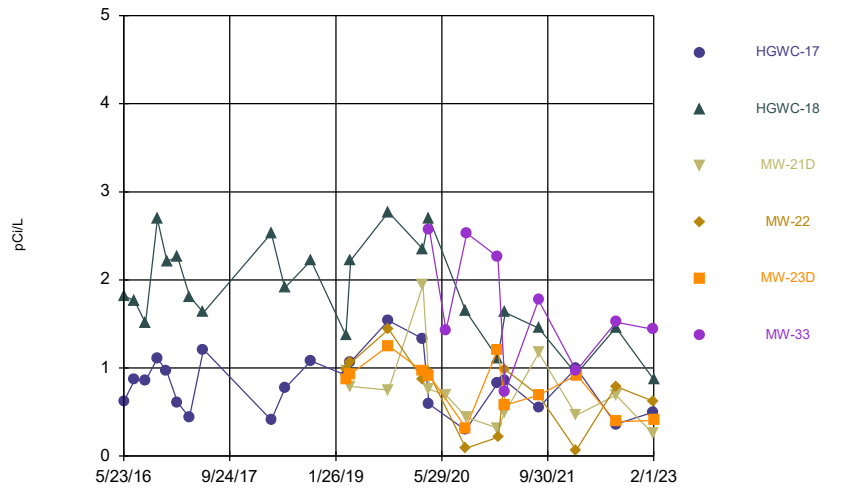
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Time Series



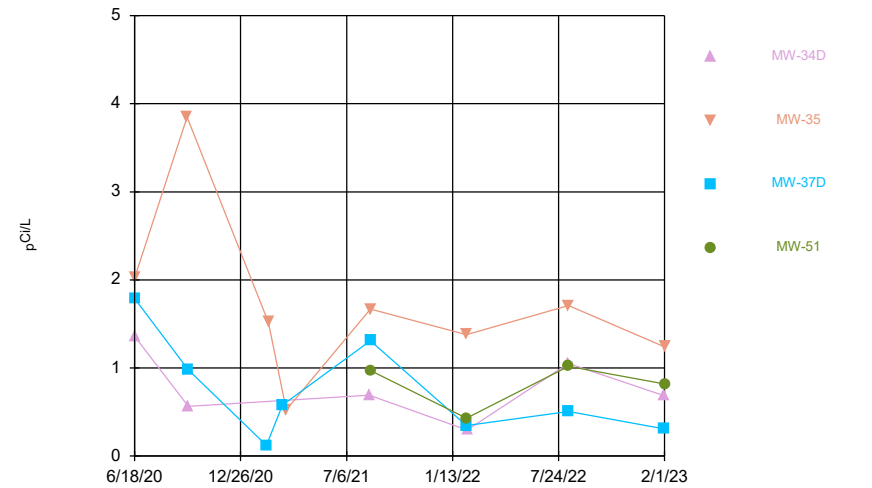
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Time Series



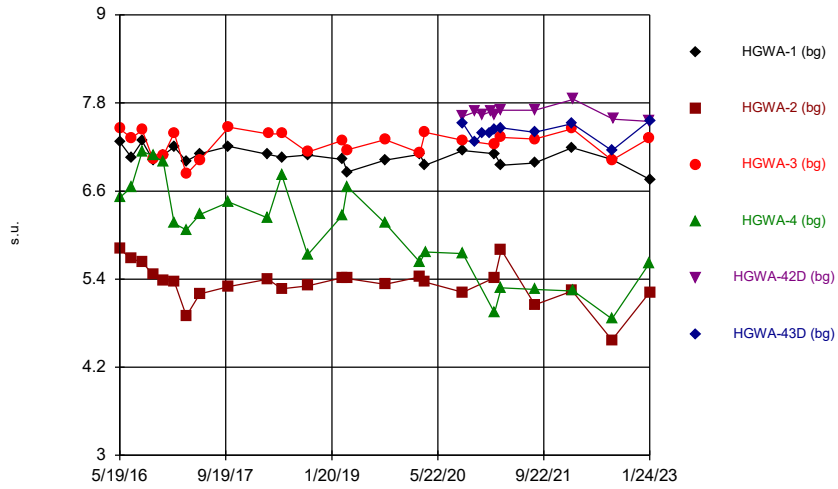
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Time Series



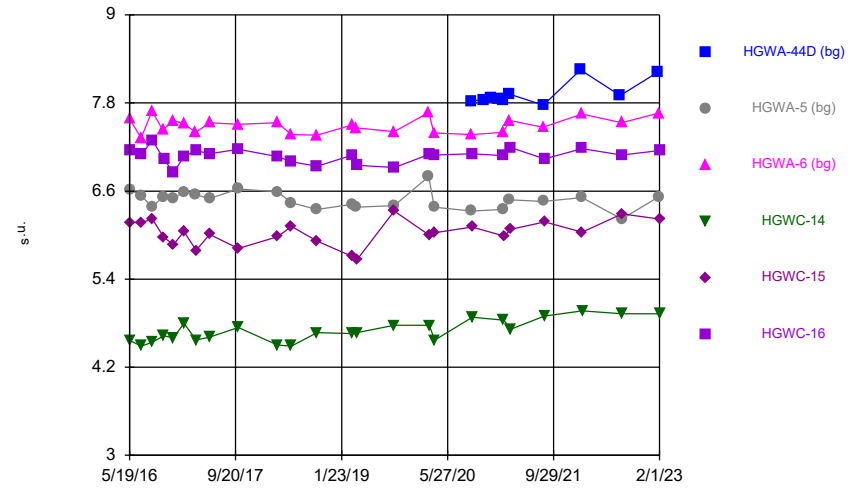
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Time Series



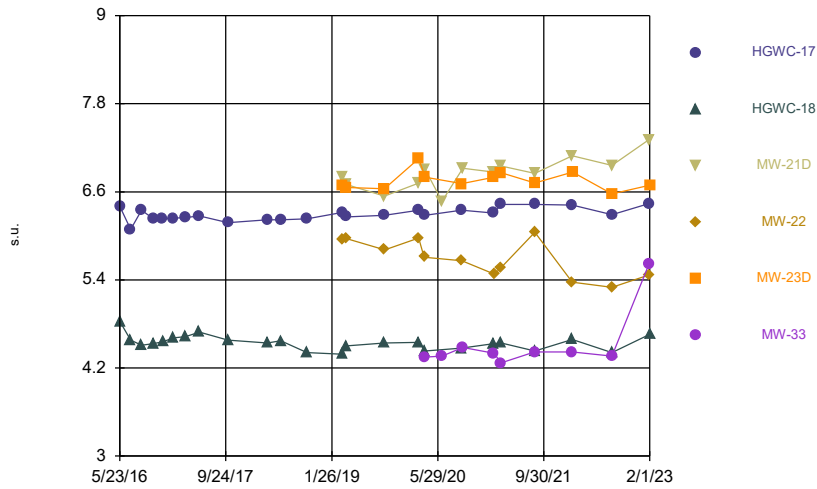
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Time Series



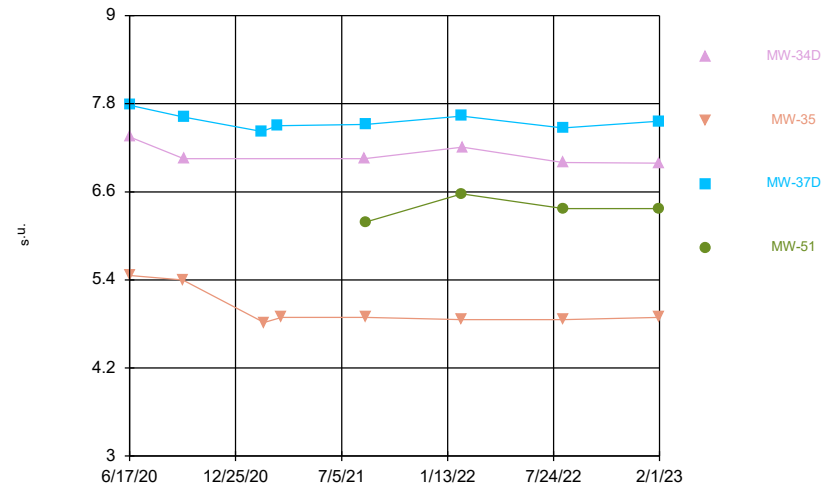
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Time Series



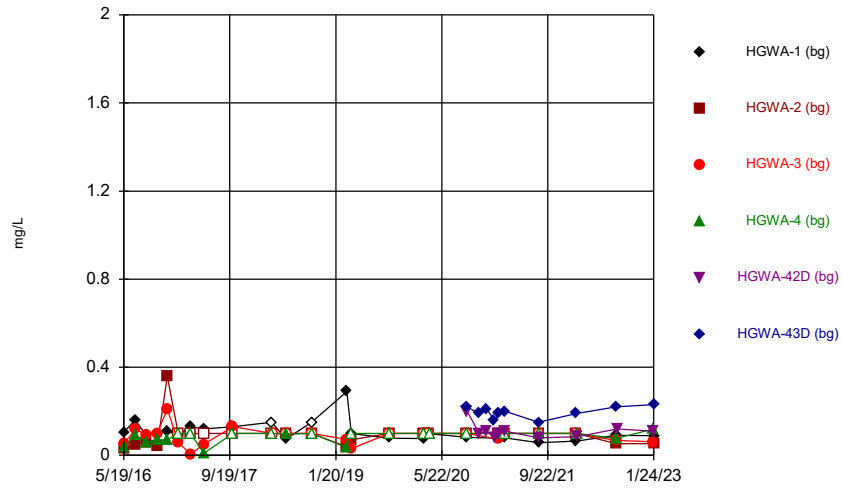
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Time Series



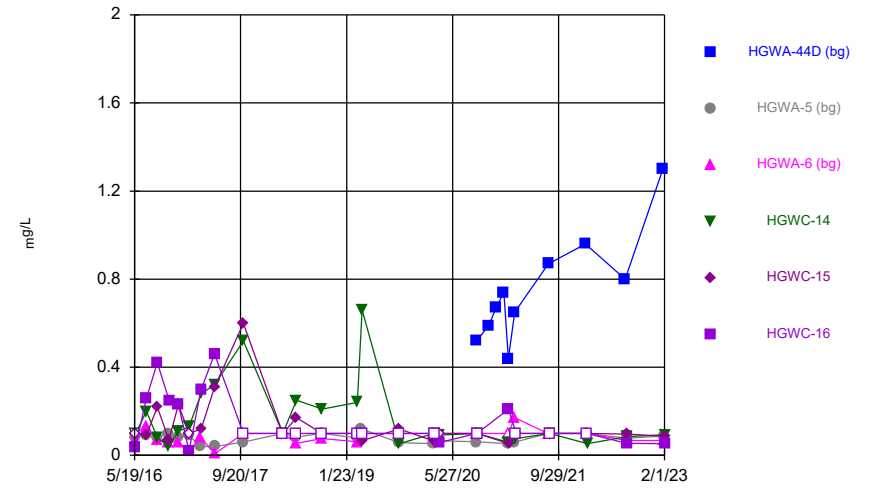
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Time Series



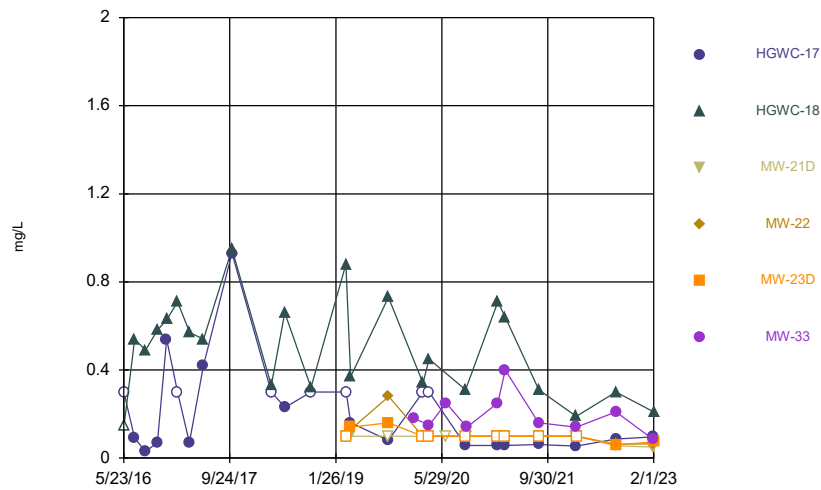
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 Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



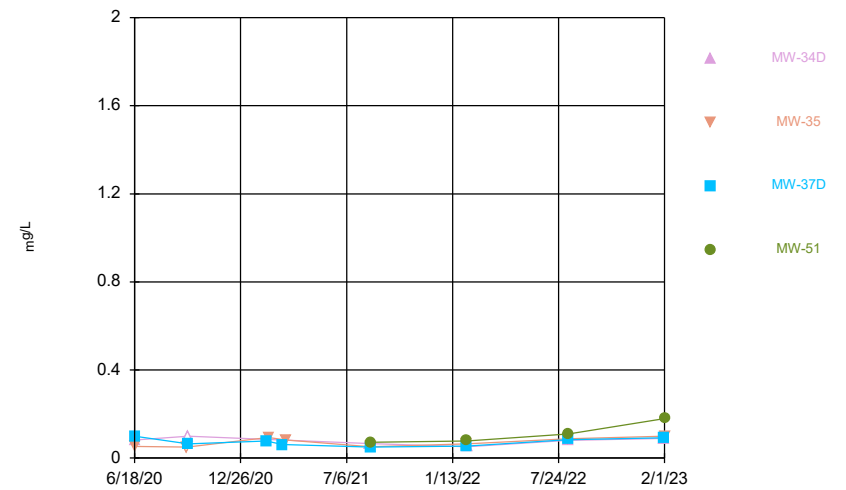
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Time Series



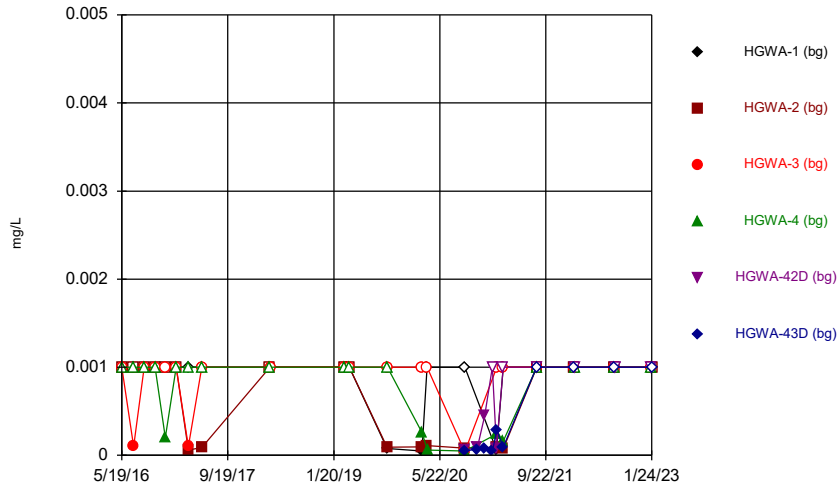
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 Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



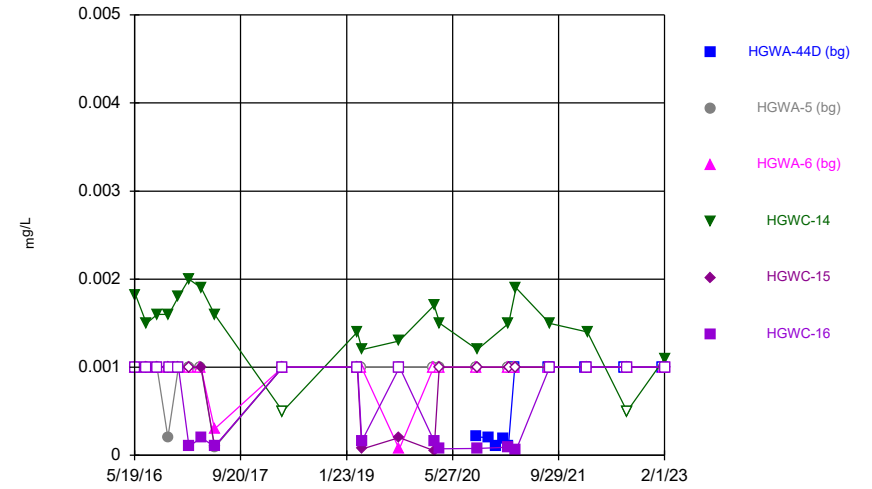
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 Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



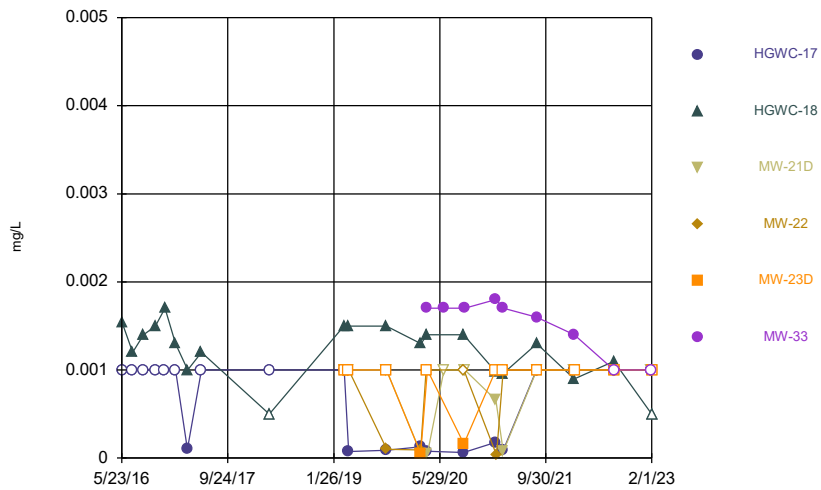
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Time Series



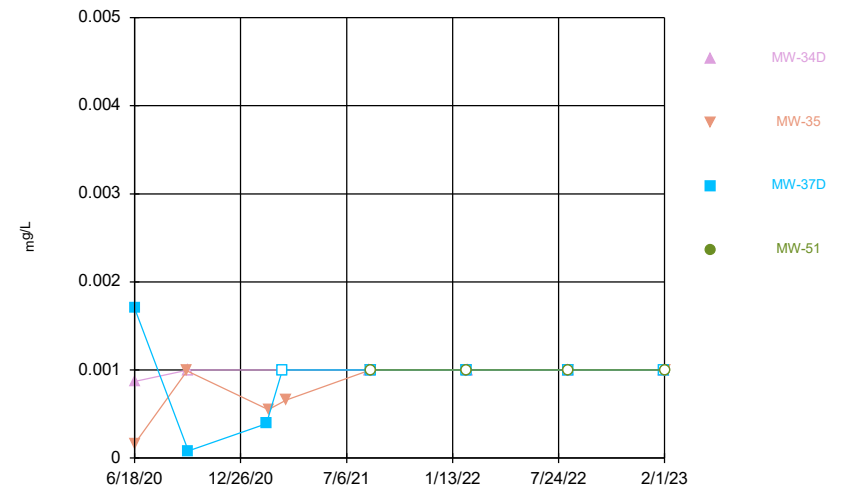
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Time Series



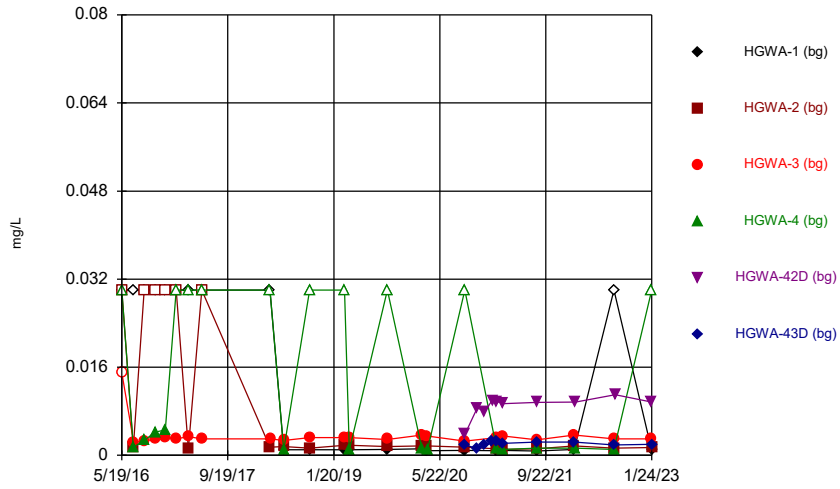
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Time Series



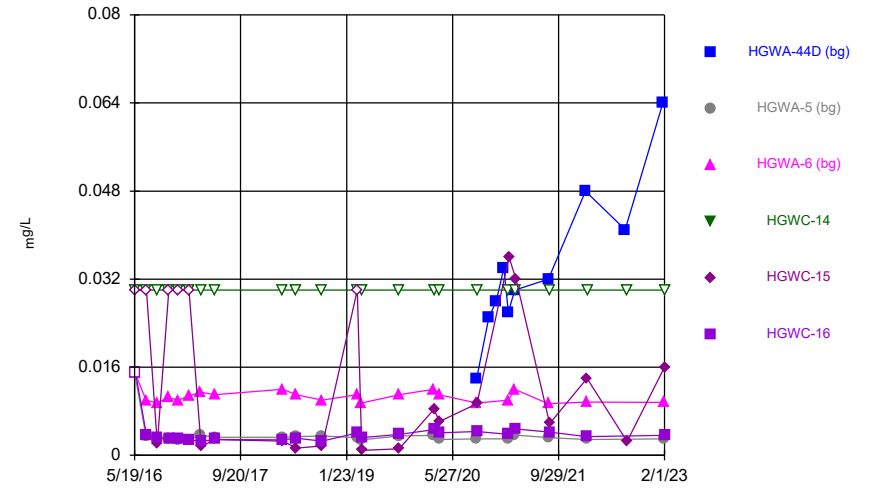
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Time Series



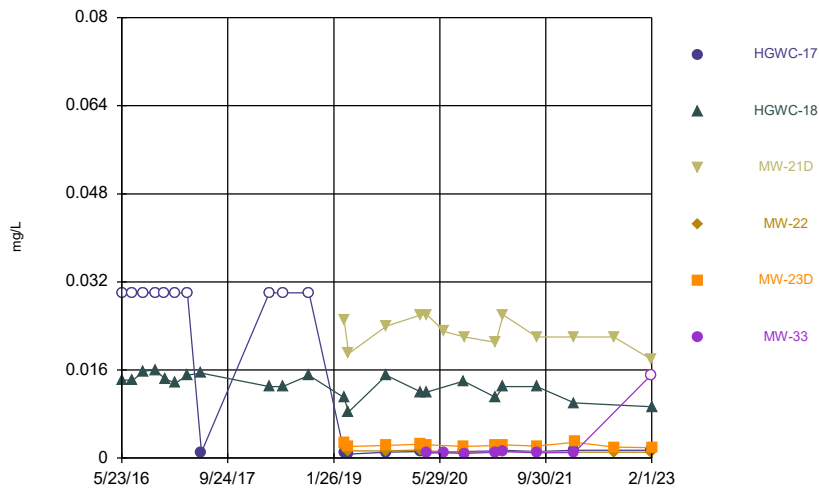
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Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



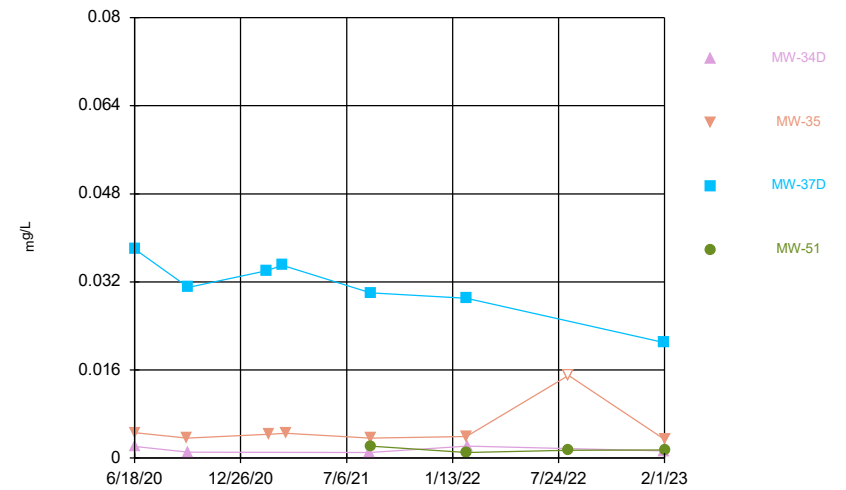
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Time Series



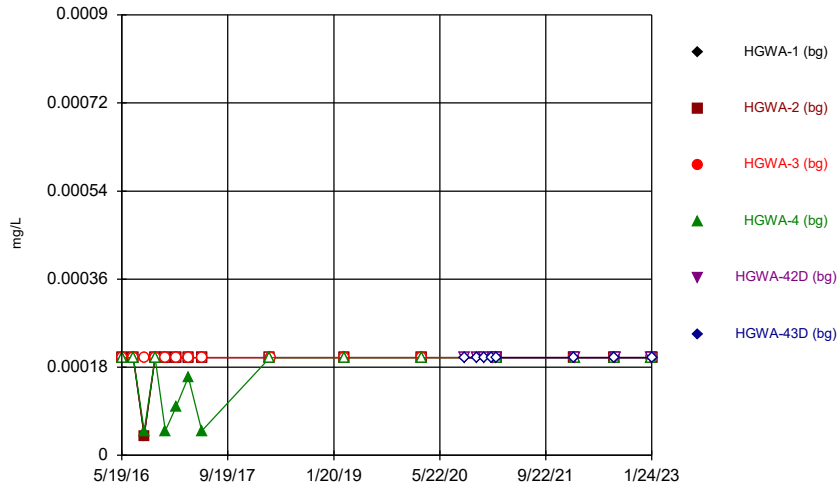
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Time Series



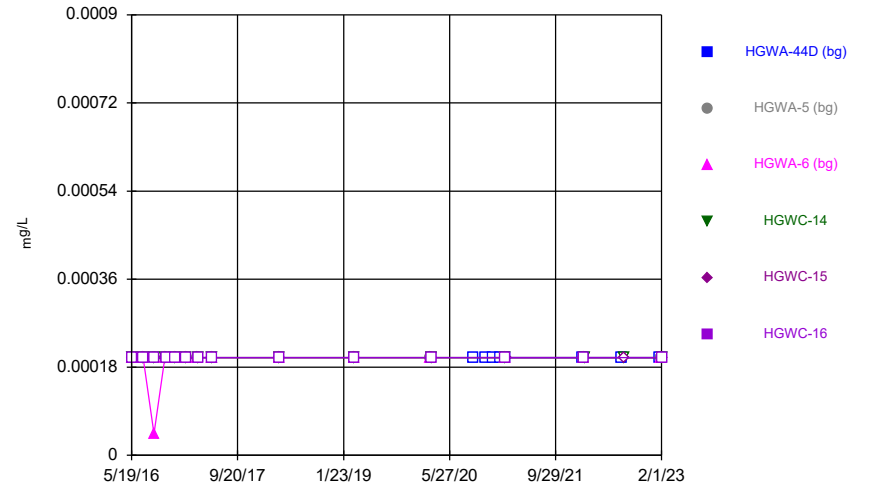
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Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



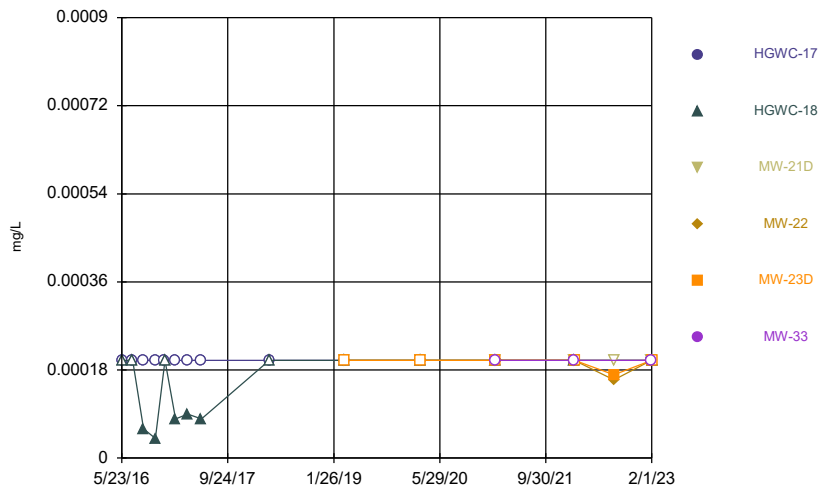
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Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



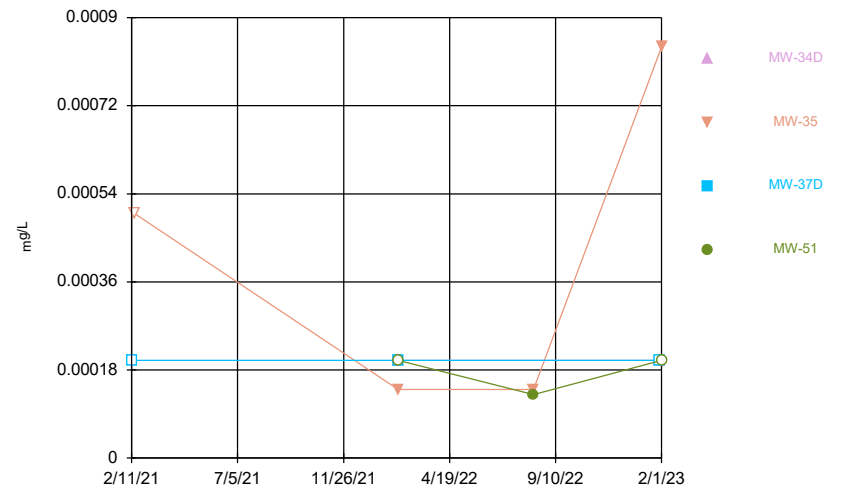
Constituent: Mercury Analysis Run 5/16/2023 2:05 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



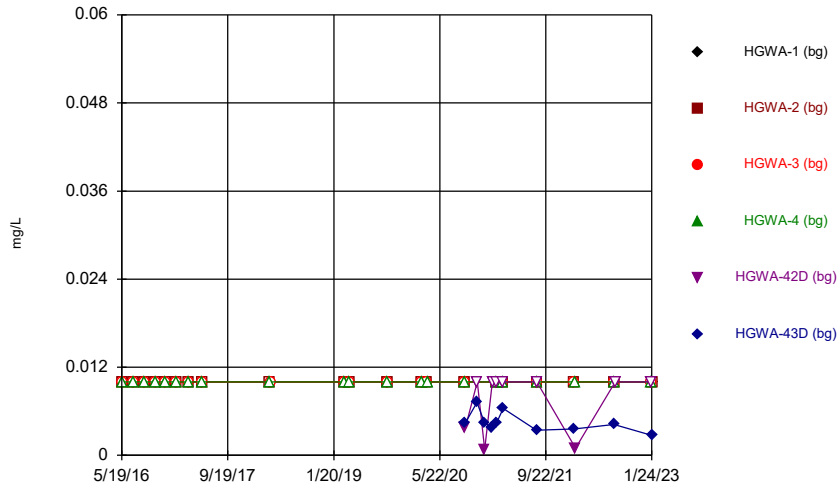
Constituent: Mercury Analysis Run 5/16/2023 2:05 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



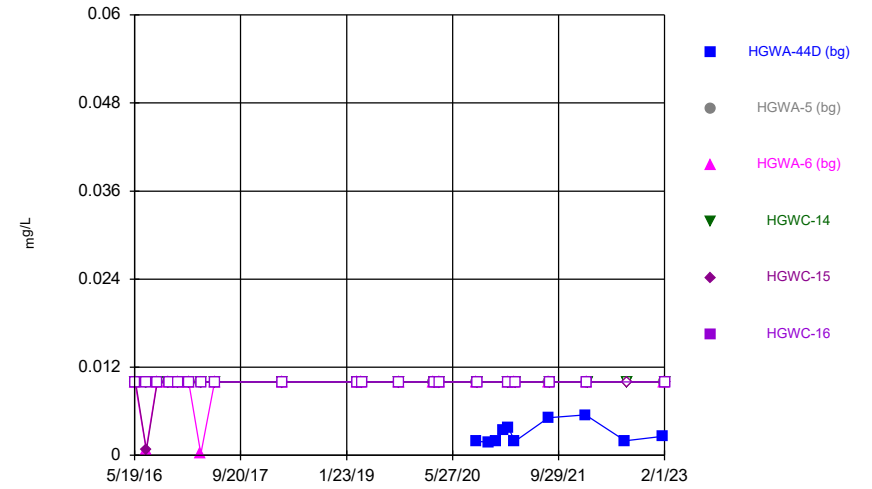
Constituent: Mercury Analysis Run 5/16/2023 2:05 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



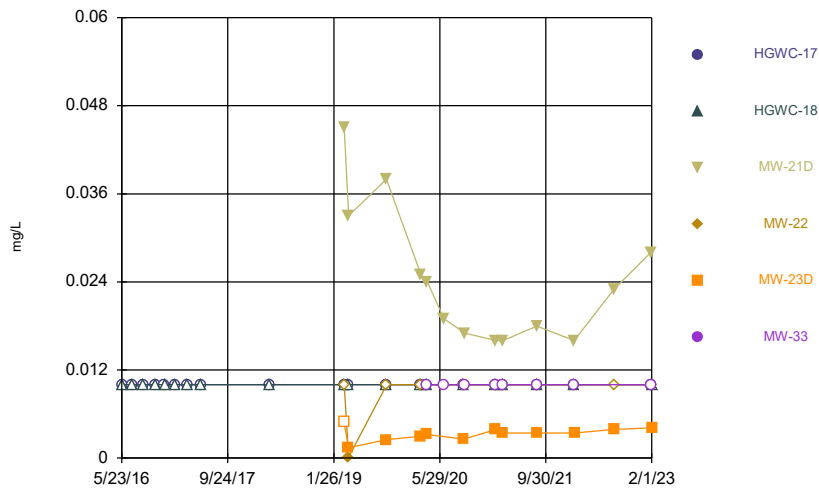
Constituent: Molybdenum Analysis Run 5/16/2023 2:05 PM View: Time Series & Box Plot
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



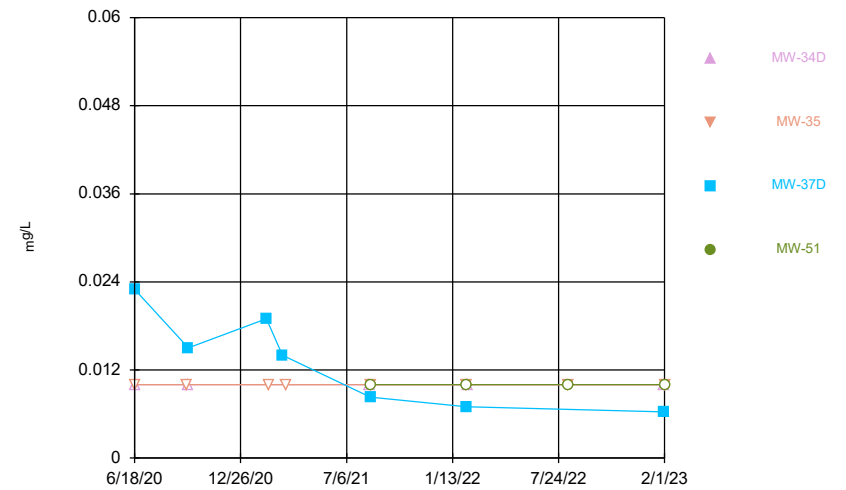
Constituent: Molybdenum Analysis Run 5/16/2023 2:05 PM View: Time Series & Box Plot
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



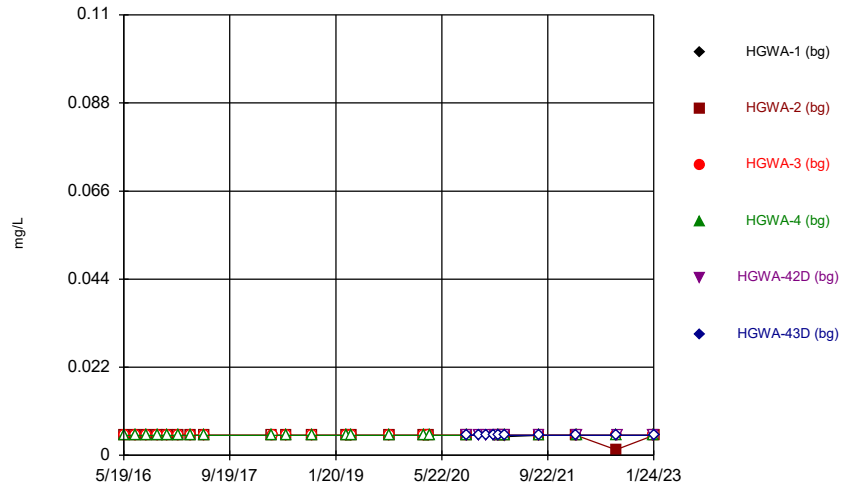
Constituent: Molybdenum Analysis Run 5/16/2023 2:05 PM View: Time Series & Box Plot
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



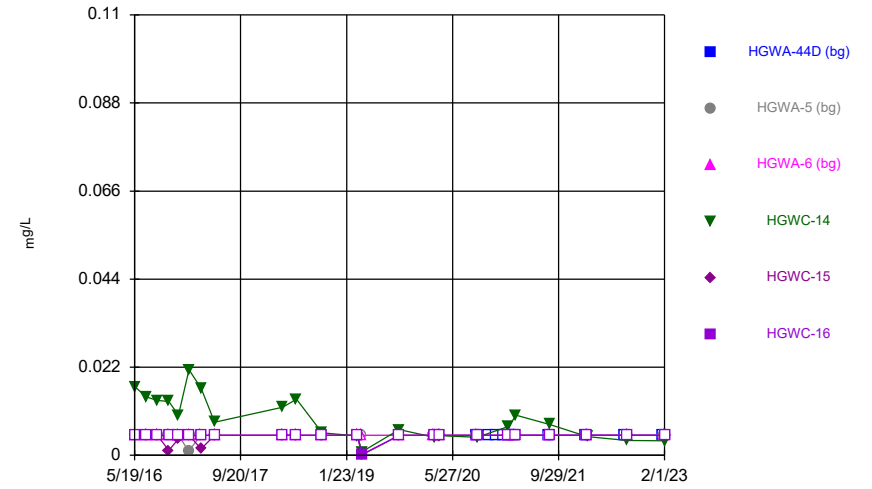
Constituent: Molybdenum Analysis Run 5/16/2023 2:05 PM View: Time Series & Box Plot
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



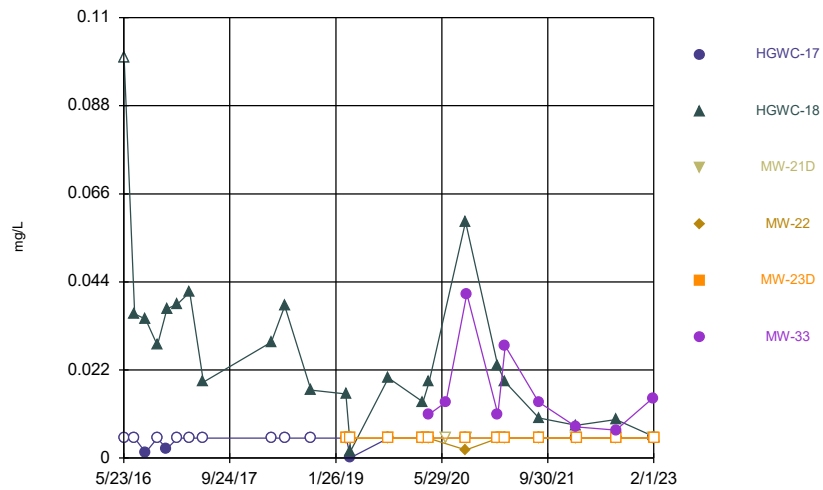
Constituent: Selenium Analysis Run 5/16/2023 2:05 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



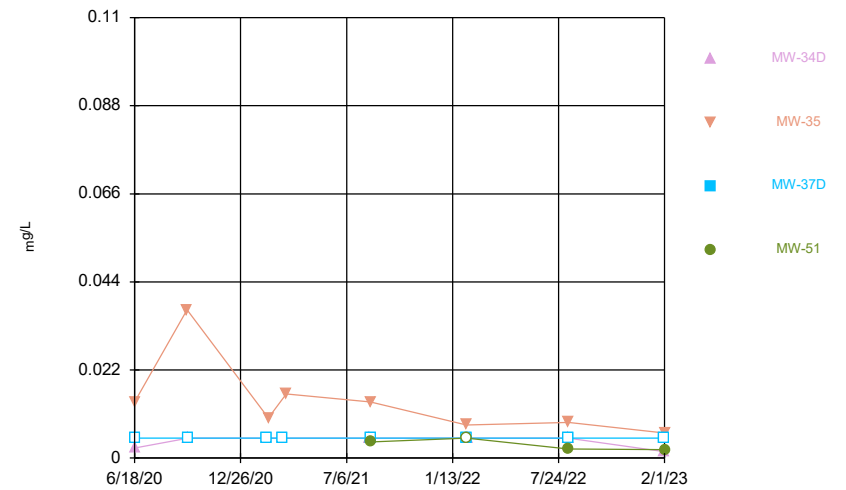
Constituent: Selenium Analysis Run 5/16/2023 2:05 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



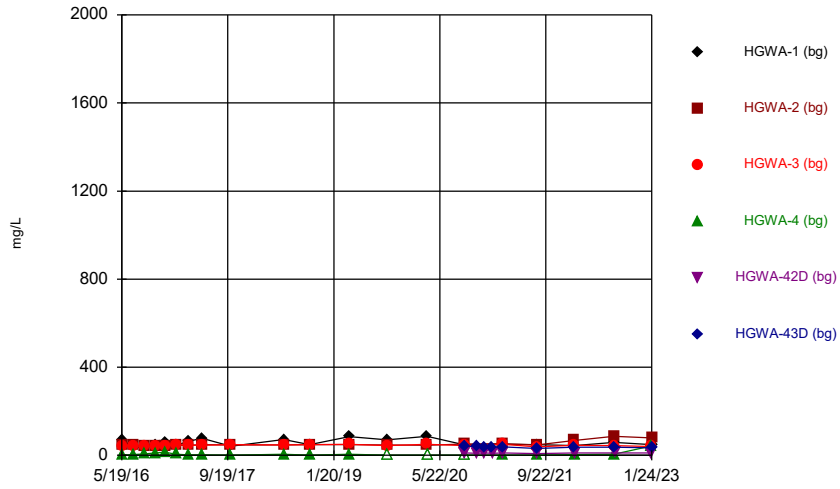
Constituent: Selenium Analysis Run 5/16/2023 2:05 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



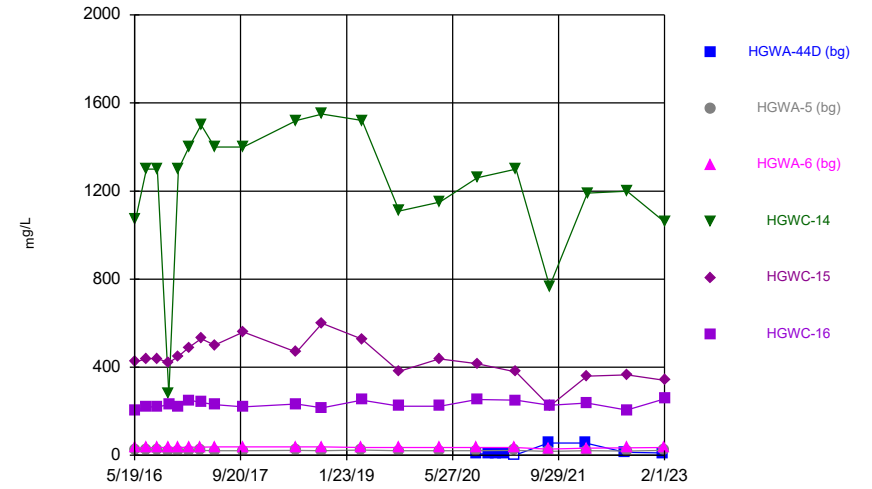
Constituent: Selenium Analysis Run 5/16/2023 2:05 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



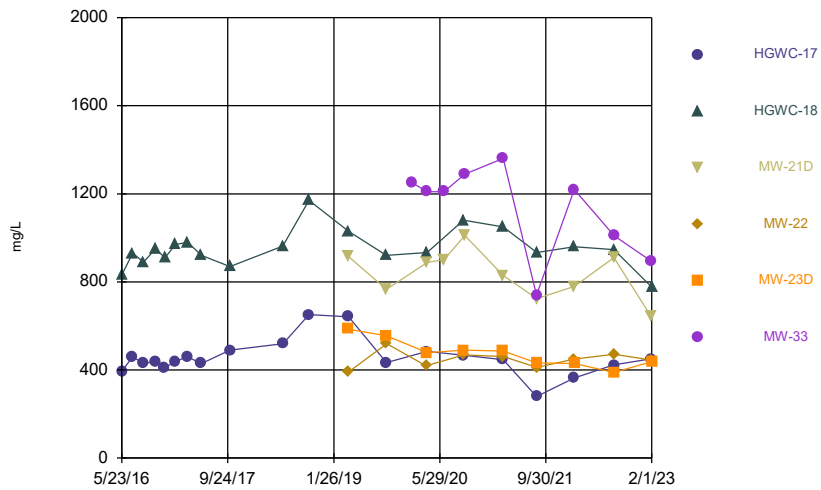
Constituent: Sulfate Analysis Run 5/16/2023 2:05 PM View: Time Series & Box Plot
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



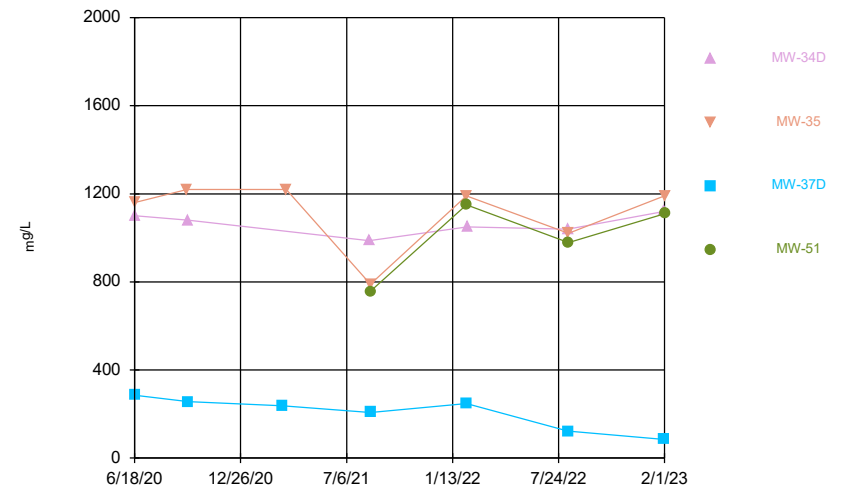
Constituent: Sulfate Analysis Run 5/16/2023 2:05 PM View: Time Series & Box Plot
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



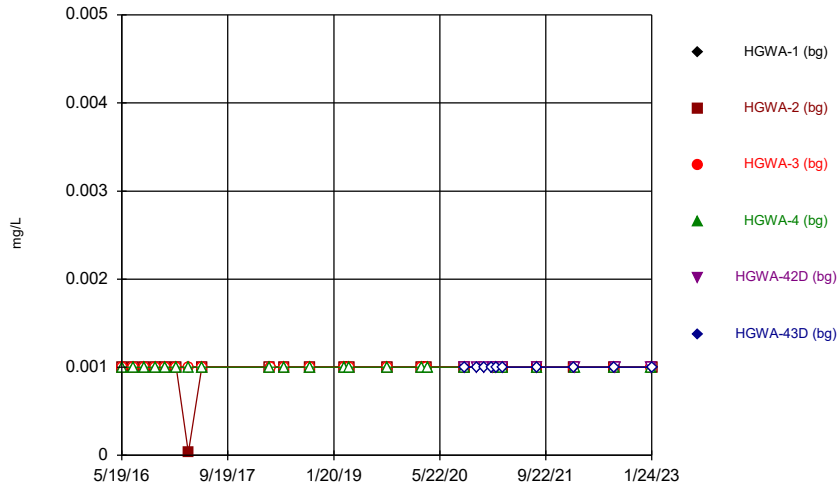
Constituent: Sulfate Analysis Run 5/16/2023 2:05 PM View: Time Series & Box Plot
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



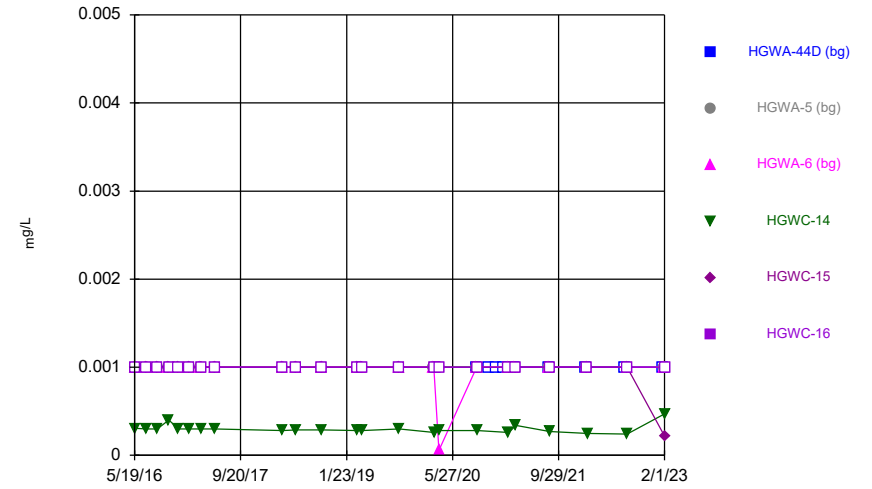
Constituent: Sulfate Analysis Run 5/16/2023 2:05 PM View: Time Series & Box Plot
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



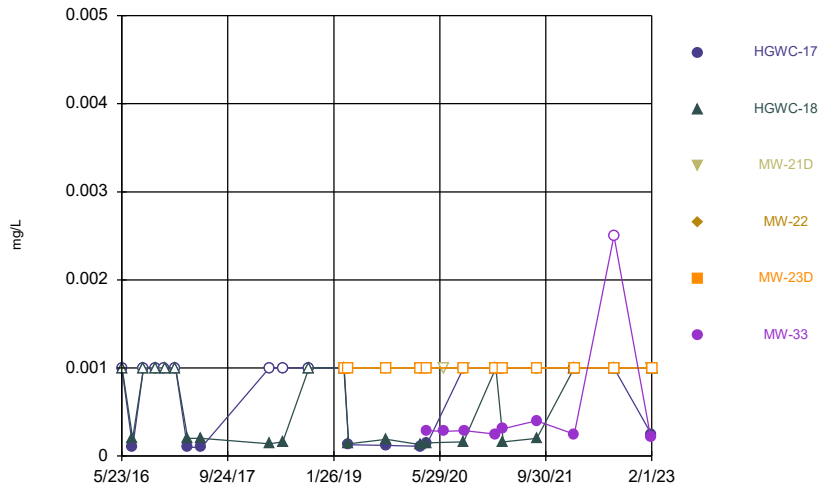
Constituent: Thallium Analysis Run 5/16/2023 2:05 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



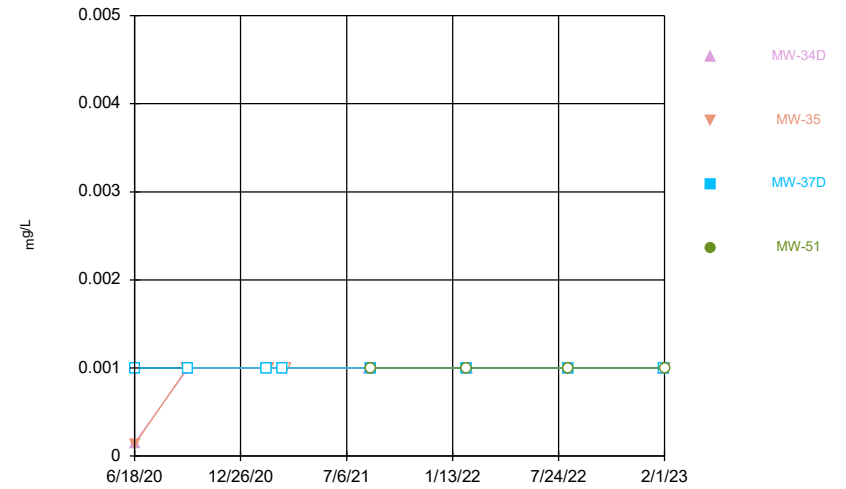
Constituent: Thallium Analysis Run 5/16/2023 2:05 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



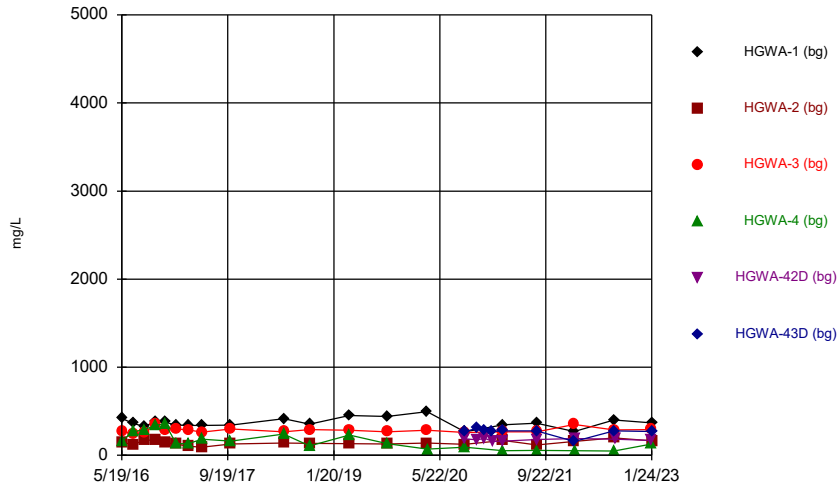
Constituent: Thallium Analysis Run 5/16/2023 2:05 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



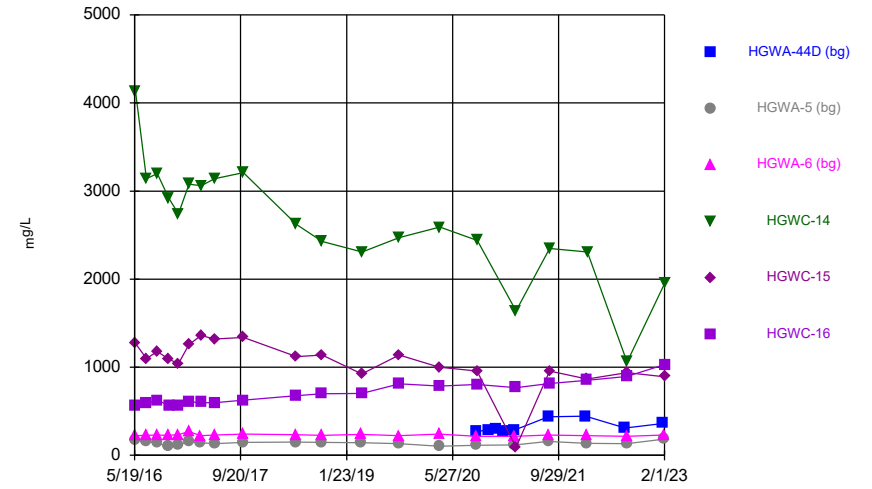
Constituent: Thallium Analysis Run 5/16/2023 2:05 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



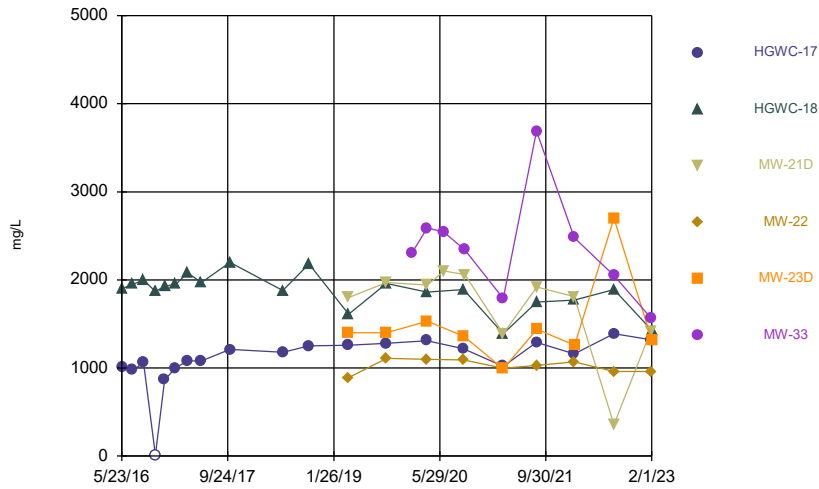
Constituent: Total Dissolved Solids Analysis Run 5/16/2023 2:05 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



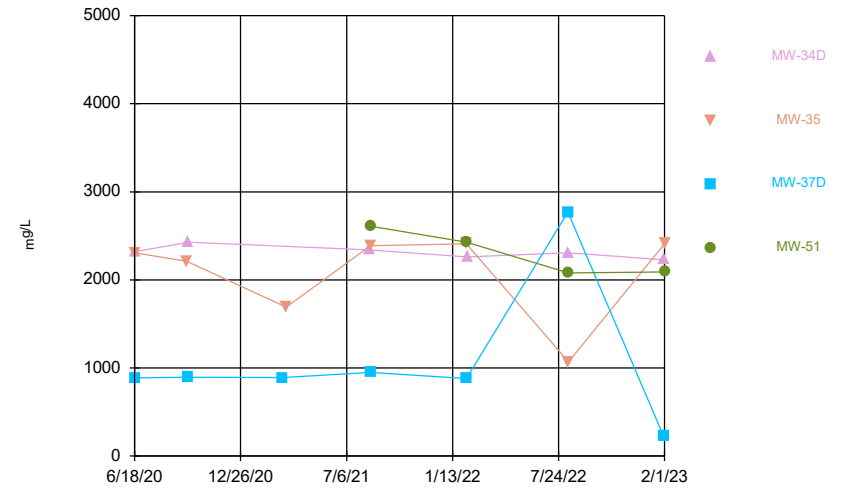
Constituent: Total Dissolved Solids Analysis Run 5/16/2023 2:05 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



Constituent: Total Dissolved Solids Analysis Run 5/16/2023 2:05 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series



Constituent: Total Dissolved Solids Analysis Run 5/16/2023 2:05 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-2

Time Series

Constituent: Antimony (mg/L) Analysis Run 5/16/2023 2:06 PM View: Time Series & Box Plot
 Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-4 (bg)	HGWA-42D (bg)	HGWA-43D (bg)
5/19/2016	<0.003	<0.003	<0.003	<0.003		
7/11/2016	<0.003	<0.003		<0.003		
7/12/2016			0.0003 (J)			
8/30/2016	<0.003	<0.003	<0.003	<0.003		
10/19/2016	0.0014 (J)	<0.003	<0.003	<0.003		
12/6/2016	<0.003	<0.003	<0.003	<0.003		
1/24/2017	<0.003	<0.003	<0.003	<0.003		
3/21/2017	<0.003	<0.003	<0.003	<0.003		
5/22/2017	<0.003	<0.003	<0.003			
5/23/2017				<0.003		
4/2/2018	<0.003	<0.003		<0.003		
4/3/2018			<0.003			
3/11/2019				<0.003		
3/12/2019	<0.003	<0.003	<0.003			
9/23/2019	<0.003	<0.003	<0.003			
3/2/2020	<0.003	<0.003	<0.003	<0.003		
9/16/2020						0.00051 (J)
9/17/2020					0.00055 (J)	
11/10/2020						0.00043 (J)
11/11/2020					<0.003	
12/15/2020					0.00035 (J)	0.00031 (J)
1/19/2021						0.00029 (J)
1/20/2021					<0.003	
2/8/2021	<0.003			<0.003	0.0019 (J)	
2/9/2021		0.00062 (J)	0.00031 (J)			0.00037 (J)
3/10/2021	<0.003			<0.003	<0.003	
3/11/2021		<0.003	<0.003			0.00057 (J)
8/11/2021	<0.003					<0.003
8/12/2021		<0.003	<0.003	<0.003	<0.003	
2/1/2022	<0.003	<0.003	<0.003			<0.003
2/7/2022				<0.003	<0.003	
8/2/2022	<0.003	<0.003	<0.003	<0.003		<0.003
8/9/2022					<0.003	
1/23/2023			<0.003	<0.003	0.0016 (J)	
1/24/2023	<0.003	<0.003				<0.003

Time Series

Constituent: Antimony (mg/L) Analysis Run 5/16/2023 2:06 PM View: Time Series & Box Plot
 Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-44D (bg)	HGWA-5 (bg)	HGWA-6 (bg)	HGWC-14	HGWC-15	HGWC-16
5/19/2016		<0.003				
5/20/2016			<0.003			
5/23/2016				<0.003	<0.003	<0.003
7/11/2016		<0.003	0.001 (J)			
7/12/2016				0.0003 (J)	<0.003	<0.003
8/30/2016		<0.003	<0.003			
9/1/2016				<0.003	<0.003	<0.003
10/20/2016		0.0023 (J)	<0.003			
10/24/2016				<0.003	<0.003	
10/25/2016						<0.003
12/7/2016				<0.003	<0.003	<0.003
12/8/2016		<0.003	<0.003			
1/24/2017		<0.003	<0.003			
1/26/2017				<0.003	<0.003	<0.003
3/21/2017		<0.003	<0.003			
3/22/2017						<0.003
3/23/2017				<0.003	<0.003	
5/23/2017		<0.003	<0.003			
5/24/2017				<0.003	<0.003	<0.003
4/3/2018		<0.003	<0.003		<0.003	<0.003
4/4/2018				<0.003		
3/12/2019		<0.003	<0.003			
3/14/2019				<0.003	<0.003	
3/15/2019						<0.003
3/2/2020		<0.003	<0.003			
3/3/2020				<0.003	<0.003	<0.003
9/16/2020	0.00049 (J)					
11/10/2020	<0.003					
12/15/2020	0.00047 (J)					
1/19/2021	0.00067 (J)					
2/9/2021	0.00042 (J)	<0.003	<0.003			
2/10/2021						<0.003
2/11/2021				0.00043 (J)		
2/12/2021					<0.003	
3/10/2021	0.00037 (J)					
3/11/2021		<0.003	<0.003			
3/16/2021					<0.003	
3/17/2021				<0.003		<0.003
8/12/2021		0.0014 (J)	<0.003			
8/13/2021	<0.003					
8/18/2021				<0.003		
8/19/2021					<0.003	<0.003
2/1/2022	0.0013 (J)					
2/7/2022		<0.003	0.0014 (J)			
2/8/2022					0.002 (J)	<0.003
2/9/2022				<0.003		
8/2/2022	<0.003					
8/10/2022		<0.003	<0.003			<0.003
8/11/2022				0.001 (J)	0.0016 (J)	
1/24/2023	<0.003					
1/27/2023		<0.003	<0.003			
2/1/2023				<0.003	0.0021 (J)	<0.003

Time Series

Constituent: Antimony (mg/L) Analysis Run 5/16/2023 2:06 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-17	HGWC-18	MW-21D	MW-22	MW-23D	MW-33
5/23/2016	<0.003					
5/24/2016		<0.003				
7/12/2016	<0.003	<0.003				
9/1/2016	<0.003	<0.003				
10/25/2016	<0.003	<0.003				
12/7/2016	<0.003					
12/8/2016		<0.003				
1/26/2017	<0.003	<0.003				
3/22/2017	<0.003					
3/23/2017		<0.003				
5/25/2017	<0.003	<0.003				
4/3/2018	<0.003	<0.003				
3/14/2019		<0.003			<0.003	
3/15/2019	<0.003		<0.003	<0.003		
3/2/2020				<0.003	<0.003	
3/3/2020	<0.003	<0.003	<0.003			
2/11/2021	<0.003	<0.003	<0.003			
2/12/2021					<0.003	0.00046 (J)
2/15/2021				<0.003		
3/17/2021				<0.003	<0.003	
3/18/2021	<0.003	<0.003	<0.003			<0.003
8/18/2021	<0.003					<0.003
8/19/2021		0.0008 (J)	<0.003	0.0016 (J)	<0.003	
2/8/2022	<0.003	<0.003	<0.003	<0.003		<0.003
2/10/2022					<0.003	
8/10/2022	<0.003	<0.003				<0.003
8/11/2022			<0.003	<0.003	<0.003	
1/27/2023			<0.003			<0.003
1/30/2023	<0.003			<0.003		
2/1/2023		<0.003			<0.003	

Time Series

Constituent: Antimony (mg/L) Analysis Run 5/16/2023 2:06 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-2

	MW-34D	MW-35	MW-37D	MW-51
2/11/2021			0.00079 (J)	
2/15/2021		0.00041 (J)		
3/12/2021			<0.003	
3/19/2021		<0.003		
8/16/2021	<0.003			
8/18/2021		<0.003	<0.003	<0.003
2/8/2022		0.0029 (J)	<0.003	<0.003
2/9/2022	<0.003			
8/10/2022	<0.003		<0.003	
8/11/2022		<0.003		<0.003
1/30/2023	0.0018 (J)		<0.003	
2/1/2023		<0.003		<0.003

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/16/2023 2:06 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-4 (bg)	HGWA-42D (bg)	HGWA-43D (bg)
5/19/2016	<0.005	0.00127 (J)	<0.005	<0.005		
7/11/2016	<0.005	0.002 (J)		<0.005		
7/12/2016			0.0008 (J)			
8/30/2016	<0.005	0.0017 (J)	<0.005	<0.005		
10/19/2016	<0.005	<0.005	<0.005	<0.005		
12/6/2016	<0.005	<0.005	<0.005	<0.005		
1/24/2017	<0.005	<0.005	<0.005	<0.005		
3/21/2017	0.0005 (J)	<0.005	0.0007 (J)	<0.005		
5/22/2017	<0.005	0.0006 (J)	0.0006 (J)			
5/23/2017				<0.005		
4/2/2018	<0.005	<0.005		<0.005		
4/3/2018			<0.005			
6/4/2018	<0.005	0.00088 (J)	0.0008 (J)	<0.005		
10/1/2018	<0.005	<0.005	0.0011 (J)	<0.005		
3/11/2019				<0.005		
3/12/2019	<0.005	0.00069 (J)	0.00063 (J)			
4/1/2019			<0.005			
4/2/2019	<0.005	<0.005		<0.005		
9/23/2019	0.00046 (J)	0.00067 (J)	0.0011 (J)			
9/24/2019				<0.005		
3/2/2020	<0.005	0.00043 (J)	0.0004 (J)	<0.005		
3/25/2020	<0.005	<0.005	<0.005			
3/26/2020				<0.005		
9/15/2020	<0.005	<0.005	<0.005	<0.005		
9/16/2020						<0.005
9/17/2020				<0.005		
11/10/2020						0.0021 (J)
11/11/2020				<0.005		
12/15/2020				<0.005		<0.005
1/19/2021						0.0011 (J)
1/20/2021					<0.005	
2/8/2021	<0.005			<0.005	<0.005	
2/9/2021		<0.005	<0.005			0.0017 (J)
3/10/2021	<0.005			<0.005	<0.005	
3/11/2021		<0.005	<0.005			0.0013 (J)
8/11/2021	<0.005					0.0015 (J)
8/12/2021		<0.005	<0.005	<0.005	<0.005	
2/1/2022	0.0016 (J)	0.0023 (J)	0.0024 (J)			0.0036 (J)
2/7/2022				<0.005	<0.005	
8/2/2022	<0.005	<0.005	<0.005	<0.005		<0.005
8/9/2022					<0.005	
1/23/2023			<0.005	<0.005	<0.005	
1/24/2023	<0.005	<0.005				<0.005

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/16/2023 2:06 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-44D (bg)	HGWA-5 (bg)	HGWA-6 (bg)	HGWC-14	HGWC-15	HGWC-16
5/19/2016		<0.005				
5/20/2016			<0.005			
5/23/2016				0.00268 (J)	<0.005	<0.005
7/11/2016		<0.005	<0.005			
7/12/2016				0.0059	<0.005	<0.005
8/30/2016		<0.005	<0.005			
9/1/2016				0.0056	<0.005	<0.005
10/20/2016		<0.005	<0.005			
10/24/2016				0.0058	<0.005	
10/25/2016						<0.005
12/7/2016				<0.025	<0.005	<0.005
12/8/2016		<0.005	<0.005			
1/24/2017		<0.005	<0.005			
1/26/2017				0.0089	<0.005	<0.005
3/21/2017		<0.005	<0.005			
3/22/2017						0.0005 (J)
3/23/2017				0.0069	0.0008 (J)	
5/23/2017		<0.005	<0.005			
5/24/2017				0.0048 (J)	<0.005	<0.005
4/3/2018		<0.005	<0.005		<0.005	<0.005
4/4/2018				0.0052		
6/5/2018		<0.005	<0.005			
6/6/2018				0.0059	<0.005	<0.005
10/2/2018		0.00064 (J)	<0.005			
10/3/2018				0.0032 (J)	<0.005	<0.005
3/12/2019		<0.005	<0.005			
3/14/2019				0.0029 (J)	<0.005	
3/15/2019						<0.005
4/2/2019		<0.005	<0.005			
4/4/2019					0.00017 (J)	0.0001 (J)
4/5/2019				<0.025		
9/24/2019		0.00055 (J)	<0.005	0.0039 (J)	0.00037 (J)	
9/25/2019						<0.005
3/2/2020		<0.005	<0.005			
3/3/2020				0.0035 (J)	<0.005	<0.005
3/25/2020			<0.005			
3/26/2020		<0.005			<0.005	
3/30/2020				0.0051		0.0011 (J)
9/15/2020		<0.005	<0.005			
9/16/2020	<0.005					
9/17/2020					<0.005	<0.005
9/18/2020				0.0029 (J)		
11/10/2020	<0.005					
12/15/2020	<0.005					
1/19/2021	<0.005					
2/9/2021	0.00083 (J)	<0.005	<0.005			
2/10/2021						0.0012 (J)
2/11/2021				0.0062		
2/12/2021					<0.005	
3/10/2021	<0.005					
3/11/2021		<0.005	<0.005			
3/16/2021					<0.005	

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/16/2023 2:06 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-44D (bg)	HGWA-5 (bg)	HGWA-6 (bg)	HGWC-14	HGWC-15	HGWC-16
3/17/2021				<0.025		<0.005
8/12/2021		<0.005	<0.005			
8/13/2021	<0.005					
8/18/2021				0.0035 (J)		
8/19/2021					<0.005	<0.005
2/1/2022	0.0025 (J)					
2/7/2022		<0.005	<0.005			
2/8/2022					<0.005	<0.005
2/9/2022				0.0077		
8/2/2022	<0.005					
8/10/2022		<0.005	<0.005			<0.005
8/11/2022				0.006	<0.005	
1/24/2023	0.0027 (J)					
1/27/2023		<0.005	<0.005			
2/1/2023				0.004 (J)	<0.005	<0.005

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/16/2023 2:06 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-17	HGWC-18	MW-21D	MW-22	MW-23D	MW-33
5/23/2016	<0.005					
5/24/2016		0.00294 (J)				
7/12/2016	<0.005	0.0074				
9/1/2016	<0.005	0.0073				
10/25/2016	<0.005	0.006				
12/7/2016	<0.005					
12/8/2016		0.007				
1/26/2017	<0.005	0.0068				
3/22/2017	0.0007 (J)					
3/23/2017		0.0082				
5/25/2017	0.0007 (J)	0.006				
4/3/2018	<0.005	0.0062				
6/5/2018		0.008				
6/6/2018	0.00097 (J)					
10/3/2018	<0.005	0.0039 (J)				
3/14/2019		0.0036 (J)			<0.005	
3/15/2019	<0.005		<0.005	<0.005		
4/4/2019			0.00019 (J)			
4/5/2019	<0.005	0.0015 (J)		<0.005	<0.005	
9/25/2019	<0.005	0.0044 (J)	<0.005			
9/26/2019					<0.005	
9/27/2019				0.00045 (J)		
3/2/2020				<0.005	<0.005	
3/3/2020	<0.005	0.0057	<0.005			
3/27/2020				<0.005		
3/31/2020	0.0008 (J)	0.0056				
4/1/2020			0.0013 (J)		0.00082 (J)	0.0061
6/17/2020			<0.005			0.0031 (J)
9/15/2020		0.0074				
9/16/2020	<0.005					
9/17/2020				<0.005	<0.005	
9/21/2020			<0.005			0.0083
2/11/2021	0.0012 (J)	0.0069 (B)	0.001 (J)			
2/12/2021					0.001 (J)	0.0059
2/15/2021				<0.005		
3/17/2021				<0.005	<0.005	
3/18/2021	<0.005	0.0083 (J)	<0.005			0.0054 (J)
8/18/2021	<0.005					0.0058
8/19/2021		0.0045 (J)	<0.005	<0.005	<0.005	
2/8/2022	0.0017 (J)	0.005 (J)	<0.005	<0.005		0.0069
2/10/2022					<0.005	
8/10/2022	<0.005	0.0058				<0.025
8/11/2022			0.003 (J)	<0.005	<0.005	
1/27/2023			<0.005			0.0031 (J)
1/30/2023	0.0028 (J)			<0.005		
2/1/2023		0.0036 (J)			<0.005	

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/16/2023 2:06 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-2

	MW-34D	MW-35	MW-37D	MW-51
6/18/2020	0.0032 (J)	0.005 (J)	0.0021 (J)	
9/21/2020		0.0059		
9/23/2020	0.001 (J)		0.00095 (J)	
2/11/2021			0.0023 (J)	
2/15/2021		0.005		
3/12/2021			<0.005	
3/19/2021		<0.025		
8/16/2021	0.0024 (J)			
8/18/2021		0.0043 (J)	<0.005	0.002 (J)
2/8/2022		0.0072	<0.005	0.0046 (J)
2/9/2022	0.0054			
8/10/2022	0.0045 (J)		<0.005	
8/11/2022		<0.025		0.0043 (J)
1/30/2023	0.0047 (J)		<0.005	
2/1/2023		0.006		0.0041 (J)

Time Series

Constituent: Barium (mg/L) Analysis Run 5/16/2023 2:06 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-4 (bg)	HGWA-42D (bg)	HGWA-43D (bg)
5/19/2016	0.0346	0.114	0.111	0.0266		
7/11/2016	0.0311	0.112		0.0309		
7/12/2016			0.115			
8/30/2016	0.0293	0.131	0.113	0.031		
10/19/2016	0.0293	0.111	0.123	0.0332		
12/6/2016	0.0304	0.108	0.127	0.0334		
1/24/2017	0.028	0.102	0.126	0.0192		
3/21/2017	0.0275	0.095	0.12	0.0175		
5/22/2017	0.0281	0.103	0.117			
5/23/2017				0.0227		
4/2/2018	0.026	0.099		0.022		
4/3/2018			0.11			
6/4/2018	0.035	0.11	0.12	0.027		
10/1/2018	0.029	0.11	0.14	0.018		
3/11/2019				0.029		
3/12/2019	0.042	0.12	0.13			
4/1/2019			0.13			
4/2/2019	0.04	0.13		0.03		
9/23/2019	0.042	0.13	0.13			
9/24/2019				0.03		
3/2/2020	0.034	0.11	0.14	0.023		
3/25/2020	0.043	0.12	0.13			
3/26/2020				0.026		
9/15/2020	0.035	0.12	0.12	0.024		
9/16/2020						0.26
9/17/2020				0.13		
11/10/2020						0.25
11/11/2020				0.18		
12/15/2020				0.19		0.29
1/19/2021						0.32
1/20/2021				0.2		
2/8/2021	0.032			0.04	0.19	
2/9/2021		0.12	0.13			0.34
3/10/2021	0.03			0.036	0.18	
3/11/2021		0.07	0.13			0.32
8/11/2021	0.03					0.28
8/12/2021		0.12	0.11	0.034	0.18	
2/1/2022	0.031	0.13	0.12			0.29
2/7/2022				0.028	0.18	
8/2/2022	0.039	0.11	0.16	0.041		0.35
8/9/2022					0.2	
1/23/2023			0.13	0.057	0.21	
1/24/2023	0.033	0.088				0.28

Time Series

Constituent: Barium (mg/L) Analysis Run 5/16/2023 2:06 PM View: Time Series & Box Plot
 Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-44D (bg)	HGWA-5 (bg)	HGWA-6 (bg)	HGWC-14	HGWC-15	HGWC-16
5/19/2016		0.0519				
5/20/2016			0.174			
5/23/2016				<0.25	0.0315 (J)	0.0841
7/11/2016		0.0565	0.134			
7/12/2016				0.0214	0.0372	0.0886
8/30/2016		0.0548	0.212			
9/1/2016				0.0208	0.0364	0.0934
10/20/2016		0.0539	0.157			
10/24/2016				0.0208	0.0326	
10/25/2016						0.0991
12/7/2016				0.022	0.0301	0.101
12/8/2016		0.0496	0.162			
1/24/2017		0.0478	0.168			
1/26/2017				0.0238	0.0287	0.105
3/21/2017		0.0453	0.186			
3/22/2017						0.11
3/23/2017				0.0244	0.0329	
5/23/2017		0.0496	0.187			
5/24/2017				0.0228	0.0283	0.106
4/3/2018		0.038	0.14		0.019	0.099
4/4/2018				0.021		
6/5/2018		0.046	0.21			
6/6/2018				0.022	0.022	0.11
10/2/2018		0.047	0.19			
10/3/2018				0.02	0.025	0.11
3/12/2019		0.05	0.2			
3/14/2019				0.019	0.021	
3/15/2019						0.13
4/2/2019		0.044	0.19			
4/4/2019					0.018	0.11
4/5/2019				0.016		
9/24/2019		0.053	0.22	0.021	0.019	
9/25/2019						0.11
3/2/2020		0.053	0.19			
3/3/2020				0.018	0.018	0.12
3/25/2020			0.19			
3/26/2020		0.045			0.016	
3/30/2020				0.02		0.11
9/15/2020		0.045	0.19			
9/16/2020	0.24					
9/17/2020					0.017	0.11
9/18/2020				0.019		
11/10/2020	0.38					
12/15/2020	0.39					
1/19/2021	0.41					
2/9/2021	0.46	0.046	0.21			
2/10/2021						0.11
2/11/2021				0.02		
2/12/2021					0.014	
3/10/2021	0.26					
3/11/2021		0.044	0.21			
3/16/2021					0.012	

Time Series

Constituent: Barium (mg/L) Analysis Run 5/16/2023 2:06 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-44D (bg)	HGWA-5 (bg)	HGWA-6 (bg)	HGWC-14	HGWC-15	HGWC-16
3/17/2021				0.023		0.12
8/12/2021		0.044	0.18			
8/13/2021	0.22					
8/18/2021				0.018		
8/19/2021					0.01	0.1
2/1/2022	0.23					
2/7/2022		0.038	0.18			
2/8/2022					0.0098	0.1
2/9/2022				0.017		
8/2/2022	0.37					
8/10/2022		0.053	0.18			0.1
8/11/2022				0.017	0.015	
1/24/2023	0.18					
1/27/2023		0.044	0.2			
2/1/2023				0.017	0.021	0.11

Time Series

Constituent: Barium (mg/L) Analysis Run 5/16/2023 2:06 PM View: Time Series & Box Plot
 Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-17	HGWC-18	MW-21D	MW-22	MW-23D	MW-33
5/23/2016	0.0222 (J)					
5/24/2016		<0.2				
7/12/2016	0.0221	0.0346				
9/1/2016	0.0227	0.0336				
10/25/2016	0.0225	0.0349				
12/7/2016	0.0227					
12/8/2016		0.0339				
1/26/2017	0.0229	0.0293				
3/22/2017	0.0248					
3/23/2017		0.0313				
5/25/2017	0.0255	0.0336				
4/3/2018	0.025	0.028				
6/5/2018		0.03				
6/6/2018	0.028					
10/3/2018	0.028	0.032				
3/14/2019		0.029			0.082	
3/15/2019	0.029		0.09	0.044		
4/4/2019			0.075			
4/5/2019	0.022	0.021		0.036	0.061	
9/25/2019	0.025	0.03	0.066			
9/26/2019					0.064	
9/27/2019				0.028		
3/2/2020				0.027	0.06	
3/3/2020	0.026	0.026	0.058			
3/27/2020				0.025		
3/31/2020	0.029	0.029				
4/1/2020			0.066		0.065	0.027
6/17/2020			0.054			0.024
9/15/2020		0.03				
9/16/2020	0.025					
9/17/2020				0.02	0.057	
9/21/2020			0.049			0.024
2/11/2021	0.025	0.03	0.044			
2/12/2021					0.056	0.025
2/15/2021				0.017		
3/17/2021				0.018	0.058	
3/18/2021	0.027	0.031	0.047			0.029
8/18/2021	0.022					0.025
8/19/2021		0.031	0.042	0.018	0.05	
2/8/2022	0.021	0.02	0.033	0.014		0.02
2/10/2022					0.05	
8/10/2022	0.027	0.026				0.02 (J)
8/11/2022			0.037	0.014	0.05	
1/27/2023			0.031			0.018
1/30/2023	0.03			0.014		
2/1/2023		0.019			0.047	

Time Series

Constituent: Barium (mg/L) Analysis Run 5/16/2023 2:06 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-2

	MW-34D	MW-35	MW-37D	MW-51
6/18/2020	0.044	0.029	0.19	
9/21/2020		0.028		
9/23/2020	0.038		0.14	
2/11/2021			0.14	
2/15/2021		0.026		
3/12/2021			0.12	
3/19/2021		0.032		
8/16/2021	0.035			
8/18/2021		0.025	0.12	0.032
2/8/2022		0.023	0.11	0.046
2/9/2022	0.04			
8/10/2022	0.046		0.11	
8/11/2022		0.022 (J)		0.028
1/30/2023	0.04		0.13	
2/1/2023		0.022		0.033

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/16/2023 2:06 PM View: Time Series & Box Plot
 Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-4 (bg)	HGWA-42D (bg)	HGWA-43D (bg)
5/19/2016	<0.0005	<0.003	<0.0005	<0.003		
7/11/2016	<0.0005	0.0001 (J)		<0.003		
7/12/2016			<0.0005			
8/30/2016	<0.0005	<0.003	<0.0005	<0.003		
10/19/2016	<0.0005	0.0001 (J)	<0.0005	<0.003		
12/6/2016	<0.0005	0.0002 (J)	<0.0005	<0.003		
1/24/2017	<0.0005	0.0001 (J)	<0.0005	<0.003		
3/21/2017	<0.0005	0.0001 (J)	<0.0005	<0.003		
5/22/2017	<0.0005	0.0001 (J)	<0.0005			
5/23/2017				<0.003		
4/2/2018	<0.0005	<0.003		<0.003		
4/3/2018			<0.0005			
3/11/2019				5E-05 (J)		
3/12/2019	<0.0005	0.00017 (J)	<0.0005			
4/1/2019			<0.0005			
4/2/2019	<0.0005	0.00015 (J)		<0.003		
9/23/2019	<0.0005	0.00011 (J)	<0.0005			
9/24/2019				<0.003		
3/2/2020	<0.0005	0.00014 (J)	<0.0005	0.00019 (J)		
3/25/2020	<0.0005	0.00016 (J)	<0.0005			
3/26/2020				7.6E-05 (J)		
9/15/2020	<0.0005	0.00013 (J)	<0.0005	<0.003		
9/16/2020						<0.0005
9/17/2020				<0.0005		
11/10/2020						<0.0005
11/11/2020				<0.0005		
12/15/2020				<0.0005		<0.0005
1/19/2021						<0.0005
1/20/2021				<0.0005		
2/8/2021	<0.0005			0.00023 (J)	<0.0005	
2/9/2021		0.00014 (J)	<0.0005			<0.0005
3/10/2021	<0.0005			0.00017 (J)	<0.0005	
3/11/2021		8.6E-05 (J)	<0.0005			<0.0005
8/11/2021	<0.0005					<0.0005
8/12/2021		0.00014 (J)	<0.0005	0.00021 (J)	<0.0005	
2/1/2022	<0.0005	0.0002 (J)	<0.0005			<0.0005
2/7/2022				0.00017 (J)	<0.0005	
8/2/2022	<0.0005	0.00019 (J)	<0.0005	0.00019 (J)		<0.0005
8/9/2022					<0.0005	
1/23/2023			<0.0005	0.0001 (J)	<0.0005	
1/24/2023	<0.0005	0.00016 (J)				<0.0005

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/16/2023 2:06 PM View: Time Series & Box Plot
 Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-44D (bg)	HGWA-5 (bg)	HGWA-6 (bg)	HGWC-14	HGWC-15	HGWC-16
5/19/2016		<0.0005				
5/20/2016			<0.0005			
5/23/2016				<0.003	<0.0005	<0.0005
7/11/2016		<0.0005	<0.0005			
7/12/2016				0.0005 (J)	<0.0005	<0.0005
8/30/2016		<0.0005	<0.0005			
9/1/2016				0.0005 (J)	<0.0005	<0.0005
10/20/2016		<0.0005	<0.0005			
10/24/2016				0.0005 (J)	<0.0005	
10/25/2016						<0.0005
12/7/2016				0.0006 (J)	<0.0005	<0.0005
12/8/2016		<0.0005	<0.0005			
1/24/2017		<0.0005	<0.0005			
1/26/2017				0.0005 (J)	<0.0005	<0.0005
3/21/2017		<0.0005	<0.0005			
3/22/2017						<0.0005
3/23/2017				0.0006 (J)	<0.0005	
5/23/2017		<0.0005	<0.0005			
5/24/2017				0.0005 (J)	<0.0005	<0.0005
4/3/2018		<0.0005	<0.0005		<0.0005	<0.0005
4/4/2018				<0.003		
3/12/2019		<0.0005	<0.0005			
3/14/2019				0.00043 (J)	<0.0005	
3/15/2019						<0.0005
4/2/2019		<0.0005	<0.0005			
4/4/2019					<0.0005	<0.0005
4/5/2019				0.00027 (J)		
9/24/2019		<0.0005	<0.0005	0.00044 (J)	<0.0005	
9/25/2019						<0.0005
3/2/2020		<0.0005	<0.0005			
3/3/2020				0.00043 (J)	<0.0005	<0.0005
3/25/2020			<0.0005			
3/26/2020		<0.0005			<0.0005	
3/30/2020				0.00043 (J)		<0.0005
9/15/2020		<0.0005	<0.0005			
9/16/2020	<0.0005					
9/17/2020					<0.0005	<0.0005
9/18/2020				0.00043 (J)		
11/10/2020	<0.0005					
12/15/2020	<0.0005					
1/19/2021	<0.0005					
2/9/2021	<0.0005	<0.0005	<0.0005			
2/10/2021						<0.0005
2/11/2021				0.00044 (J)		
2/12/2021					<0.0005	
3/10/2021	<0.0005					
3/11/2021		<0.0005	<0.0005			
3/16/2021					<0.0005	
3/17/2021				0.00058		<0.0005
8/12/2021		<0.0005	<0.0005			
8/13/2021	<0.0005					
8/18/2021				0.00039 (J)		

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/16/2023 2:06 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-44D (bg)	HGWA-5 (bg)	HGWA-6 (bg)	HGWC-14	HGWC-15	HGWC-16
8/19/2021					<0.0005	<0.0005
2/1/2022	<0.0005					
2/7/2022		<0.0005	<0.0005			
2/8/2022					<0.0005	<0.0005
2/9/2022				0.00056		
8/2/2022	<0.0005					
8/10/2022		<0.0005	<0.0005			<0.0005
8/11/2022				0.00039 (J)	<0.0005	
1/24/2023	<0.0005					
1/27/2023		<0.0005	<0.0005			
2/1/2023				0.00039 (J)	<0.0005	<0.0005

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/16/2023 2:06 PM View: Time Series & Box Plot
 Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-17	HGWC-18	MW-21D	MW-22	MW-23D	MW-33
5/23/2016	<0.0005					
5/24/2016		0.00278 (J)				
7/12/2016	<0.0005	0.0032				
9/1/2016	<0.0005	0.0034				
10/25/2016	<0.0005	0.0034				
12/7/2016	<0.0005					
12/8/2016		0.0033				
1/26/2017	<0.0005	0.0034				
3/22/2017	<0.0005					
3/23/2017		0.0036				
5/25/2017	<0.0005	0.0036				
4/3/2018	<0.0005	<0.003				
3/14/2019		0.0026 (J)			<0.0005	
3/15/2019	<0.0005		<0.0005	<0.0005		
4/4/2019			<0.0005			
4/5/2019	<0.0005	0.0022 (J)		<0.0005	<0.0005	
9/25/2019	<0.0005	0.0031	<0.0005			
9/26/2019					<0.0005	
9/27/2019				<0.0005		
3/2/2020				<0.0005	<0.0005	
3/3/2020	<0.0005	0.0029 (J)	<0.0005			
3/27/2020				<0.0005		
3/31/2020	<0.0005	0.003				
4/1/2020			<0.0005		<0.0005	0.0011 (J)
6/17/2020			<0.0005			0.00099 (J)
9/15/2020		0.0033				
9/16/2020	<0.0005					
9/17/2020				4.7E-05 (J)	<0.0005	
9/21/2020			<0.0005			0.0009 (J)
2/11/2021	6.7E-05 (J)	0.0036	<0.0005			
2/12/2021					<0.0005	0.001 (J)
2/15/2021				6.2E-05 (J)		
3/17/2021				8.2E-05 (J)	<0.0005	
3/18/2021	4.8E-05 (J)	0.0038	<0.0005			0.0011
8/18/2021	<0.0005					0.00097
8/19/2021		0.0034	<0.0005	7E-05 (J)	<0.0005	
2/8/2022	<0.0005	0.0026	<0.0005	7.9E-05 (J)		0.00087 (J)
2/10/2022					<0.0005	
8/10/2022	6E-05 (J)	0.0032				0.0008
8/11/2022			<0.0005	<0.0005	<0.0005	
1/27/2023			<0.0005			0.00019 (J)
1/30/2023	5.7E-05 (J)			8.1E-05 (J)		
2/1/2023		0.002			<0.0005	

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/16/2023 2:06 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-2

	MW-34D	MW-35	MW-37D	MW-51
6/18/2020	0.00015 (J)	0.00032 (J)	0.00012 (J)	
9/21/2020		0.0004 (J)		
9/23/2020	<0.0005		<0.0005	
2/11/2021			<0.0005	
2/15/2021		0.0006 (J)		
3/12/2021			<0.0005	
3/19/2021		0.00061		
8/16/2021	<0.0005			
8/18/2021		0.00061	<0.0005	0.00042 (J)
2/8/2022		0.0007 (J)	<0.0005	0.00011 (J)
2/9/2022	6.5E-05 (J)			
8/10/2022	<0.0005		<0.0005	
8/11/2022		0.00066 (J)		0.00028 (J)
1/30/2023	<0.0005		<0.0005	
2/1/2023		0.00049 (J)		0.00028 (J)

Time Series

Constituent: Boron (mg/L) Analysis Run 5/16/2023 2:06 PM View: Time Series & Box Plot
 Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-4 (bg)	HGWA-42D (bg)	HGWA-43D (bg)
5/19/2016	0.0214 (J)	0.0321 (J)	<0.04	<0.1		
7/11/2016	0.0142 (J)	0.0337 (J)		0.0175 (J)		
7/12/2016			0.0074 (J)			
8/30/2016	0.0074 (J)	0.0173 (J)	<0.04	0.0072 (J)		
10/19/2016	0.0224 (J)	0.0341 (J)	0.0085 (J)	0.018 (J)		
12/6/2016	0.0211 (J)	0.0326 (J)	0.0085 (J)	0.0158 (J)		
1/24/2017	0.0165 (J)	0.0365 (J)	0.01 (J)	0.0145 (J)		
3/21/2017	0.0187 (J)	0.0349 (J)	0.0079 (J)	0.0101 (J)		
5/22/2017	0.0782	0.0475	0.0131 (J)			
5/23/2017				0.0159 (J)		
10/3/2017	0.0198 (J)	0.0386 (J)	0.0097 (J)	0.0162 (J)		
6/4/2018	0.02 (J)	0.036 (J)	0.017 (J)	0.014 (J)		
10/1/2018	0.013 (J)	0.035 (J)	0.0061 (J)	0.0093 (J)		
4/1/2019			0.0066 (J)			
4/2/2019	0.016 (J)	0.034 (J)		0.01 (J)		
9/23/2019	0.021 (J)	0.04 (J)	0.0081 (J)			
9/24/2019				0.013 (J)		
3/25/2020	0.025 (J)	0.039 (J)	0.0096 (J)			
3/26/2020				0.012 (J)		
9/15/2020	0.017 (J)	0.044 (J)	0.0071 (J)	0.013 (J)		
9/16/2020						0.061 (J)
9/17/2020				0.098 (J)		
11/10/2020						0.057 (J)
11/11/2020				0.058 (J)		
12/15/2020				0.043 (J)		0.052 (J)
1/19/2021						0.049 (J)
1/20/2021					0.045 (J)	
3/10/2021	0.015 (J)			0.012 (J)	0.048	
3/11/2021		0.056	0.015 (J)			0.06
8/11/2021	0.02 (J)					0.042
8/12/2021		0.044	<0.04	0.014 (J)	0.044	
2/1/2022	0.016 (J)	0.056	0.011 (J)			0.05
2/7/2022				0.017 (J)	0.047	
8/2/2022	0.012 (J)	0.047	<0.04	0.02 (J)		0.043
8/9/2022					0.055	
1/23/2023			0.012 (J)	0.023 (J)	0.052	
1/24/2023	0.015 (J)	0.046				0.037 (J)

Time Series

Constituent: Boron (mg/L) Analysis Run 5/16/2023 2:06 PM View: Time Series & Box Plot
 Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-44D (bg)	HGWA-5 (bg)	HGWA-6 (bg)	HGWC-14	HGWC-15	HGWC-16
5/19/2016		<0.04				
5/20/2016			0.0363 (J)			
5/23/2016				15.4	2.02	1.36
7/11/2016		0.0052 (J)	0.0179 (J)			
7/12/2016				16	1.65	1.62
8/30/2016		0.0068 (J)	0.014 (J)			
9/1/2016				12.3	1.93	1.31
10/20/2016		0.0135 (J)	0.0197 (J)			
10/24/2016				13.7	1.93	
10/25/2016						1.27
12/7/2016				16.5	2.23	1.42
12/8/2016		0.0083 (J)	0.0159 (J)			
1/24/2017		0.0072 (J)	<0.2			
1/26/2017				19.2	2.31	1.19
3/21/2017		<0.04	0.0166 (J)			
3/22/2017						1.32
3/23/2017				23.1	2.72	
5/23/2017		0.0095 (J)	0.0167 (J)			
5/24/2017				25.8	2.26	1.67
10/3/2017		0.0071 (J)	0.017 (J)			
10/4/2017				20.5	2	1.43
6/5/2018		0.0066 (J)	0.016 (J)			
6/6/2018				16.7	2.4	1.9
10/2/2018		0.0081 (J)	0.014 (J)			
10/3/2018				16.4	2.4	1.7
4/2/2019		0.0052 (J)	0.013 (J)			
4/4/2019					2.3	2.1
4/5/2019				12.5		
9/24/2019		0.0088 (J)	0.016 (J)	14.7	2.9	
9/25/2019						2.7
3/25/2020			0.021 (J)			
3/26/2020		0.0072 (J)			2.1	
3/30/2020				11.7		2.4
9/15/2020		0.012 (J)	0.016 (J)			
9/16/2020	0.23					
9/17/2020					2.2	2.4
9/18/2020				11		
11/10/2020	0.29					
12/15/2020	0.31					
1/19/2021	0.4					
3/10/2021	0.39					
3/11/2021		0.0075 (J)	0.018 (J)			
3/16/2021					2.4	
3/17/2021				11.8		2.7
8/12/2021		0.0092 (J)	0.014 (J)			
8/13/2021	0.31					
8/18/2021				8.6		
8/19/2021					2.1	2.5
2/1/2022	0.44					
2/7/2022		<0.04	0.019 (J)			
2/8/2022					1.9	2.6
2/9/2022				9.9		

Time Series

Constituent: Boron (mg/L) Analysis Run 5/16/2023 2:06 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-44D (bg)	HGWA-5 (bg)	HGWA-6 (bg)	HGWC-14	HGWC-15	HGWC-16
8/2/2022	0.31					
8/10/2022		0.011 (J)	0.015 (J)			2.2
8/11/2022				8.8	2.1	
1/24/2023	0.44					
1/27/2023		<0.04	0.013 (J)			
2/1/2023				7.7	2	2.8

Time Series

Constituent: Boron (mg/L) Analysis Run 5/16/2023 2:06 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-17	HGWC-18	MW-21D	MW-22	MW-23D	MW-33
5/23/2016	5.7					
5/24/2016		9.33				
7/12/2016	9.58	11.9				
9/1/2016	5.76	8.8				
10/25/2016	5.38	8.5				
12/7/2016	5.74					
12/8/2016		7.15				
1/26/2017	5.78	9.17				
3/22/2017	5.52					
3/23/2017		10.6				
5/25/2017	8.58	13.2				
10/4/2017	6.8	10				
6/5/2018		8.4				
6/6/2018	6.3					
10/3/2018	6.9	9.3				
4/4/2019			5.2			
4/5/2019	5.9	6.4		2.1	3	
9/25/2019	8.1	11.7	6.4			
9/26/2019					3.8	
9/27/2019				2.9		
1/22/2020						11.2
3/27/2020				2.4		
3/31/2020	6.9	9.4				
4/1/2020			6.3		3.5	11.6
6/17/2020			5.8			10.3
9/15/2020		9.4				
9/16/2020	6.7					
9/17/2020				2.3	2.7	
9/21/2020			5.6			9
3/17/2021				2.7	3.4	
3/18/2021	6.8	8.9	5.7			10.2
8/18/2021	5.3					9.1
8/19/2021		8.6	5.4	2.5	3.4	
2/8/2022	7.8	8.1	5.9	3.2		8.4
2/10/2022					3.2	
8/10/2022	6.9	8.4				8
8/11/2022			5	2.5	3.3	
1/27/2023			3.6			4.6
1/30/2023	6.8			2.4		
2/1/2023		5.9			3	

Time Series

Constituent: Boron (mg/L) Analysis Run 5/16/2023 2:06 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-2

	MW-34D	MW-35	MW-37D	MW-51
6/18/2020	9.4	11.9	0.14	
9/21/2020		12.3		
9/23/2020	10.2		0.12	
3/12/2021			0.15	
3/19/2021		11.9		
8/16/2021	8.2			
8/18/2021		11.2	0.2	9.7
2/8/2022		10.8	0.14	10.5
2/9/2022	9.6			
8/10/2022	10.2		0.11	
8/11/2022		9.6		8.2
1/30/2023	8		0.15	
2/1/2023		8.7		8.3

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/16/2023 2:06 PM View: Time Series & Box Plot
 Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-4 (bg)	HGWA-42D (bg)	HGWA-43D (bg)
5/19/2016	<0.0005	<0.0005	<0.0005	<0.0005		
7/11/2016	<0.0005	<0.0005		<0.0005		
7/12/2016			<0.0005			
8/30/2016	<0.0005	<0.0005	<0.0005	<0.0005		
10/19/2016	<0.0005	<0.0005	<0.0005	<0.0005		
12/6/2016	<0.0005	<0.0005	<0.0005	<0.0005		
1/24/2017	<0.0005	0.0001 (J)	<0.0005	<0.0005		
3/21/2017	<0.0005	7E-05 (J)	<0.0005	<0.0005		
5/22/2017	<0.0005	0.0001 (J)	<0.0005			
5/23/2017				<0.0005		
4/2/2018	<0.0005	<0.0005		<0.0005		
4/3/2018			<0.0005			
6/4/2018	<0.0005	0.00014 (J)	<0.0005	<0.0005		
10/1/2018	<0.0005	<0.0005	<0.0005	<0.0005		
3/11/2019				<0.0005		
3/12/2019	<0.0005	0.00013 (J)	<0.0005			
4/1/2019			<0.0005			
4/2/2019	<0.0005	0.00015 (J)		<0.0005		
9/23/2019	<0.0005	<0.0005	<0.0005			
9/24/2019				<0.0005		
3/2/2020	<0.0005	<0.0005	<0.0005	<0.0005		
3/25/2020	<0.0005	0.00014 (J)	<0.0005			
3/26/2020				<0.0005		
9/15/2020	<0.0005	0.00012 (J)	<0.0005	<0.0005		
9/16/2020						<0.0005
9/17/2020				<0.0005		
11/10/2020						<0.0005
11/11/2020				<0.0005		
12/15/2020				<0.0005		<0.0005
1/19/2021						<0.0005
1/20/2021				<0.0005		
2/8/2021	<0.0005			<0.0005	<0.0005	
2/9/2021		0.00016 (J)	<0.0005			<0.0005
3/10/2021	<0.0005			<0.0005	<0.0005	
3/11/2021		<0.0005	<0.0005			<0.0005
8/11/2021	<0.0005					<0.0005
8/12/2021		0.00014 (J)	<0.0005	<0.0005	<0.0005	
2/1/2022	<0.0005	0.00017 (J)	<0.0005			<0.0005
2/7/2022				<0.0005	<0.0005	
8/2/2022	<0.0005	0.00023 (J)	<0.0005	<0.0005		<0.0005
8/9/2022					<0.0005	
1/23/2023			<0.0005	<0.0005	<0.0005	
1/24/2023	<0.0005	0.00021 (J)				<0.0005

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/16/2023 2:06 PM View: Time Series & Box Plot
 Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-44D (bg)	HGWA-5 (bg)	HGWA-6 (bg)	HGWC-14	HGWC-15	HGWC-16
5/19/2016		<0.0005				
5/20/2016			<0.0005			
5/23/2016				0.000139 (J)	0.00271 (J)	<0.0005
7/11/2016		<0.0005	<0.0005			
7/12/2016				<0.0005	0.0019	<0.0005
8/30/2016		<0.0005	<0.0005			
9/1/2016				0.0001 (J)	0.0017	<0.0005
10/20/2016		<0.0005	<0.0005			
10/24/2016				0.0002 (J)	0.0018	
10/25/2016						<0.0005
12/7/2016				0.0001 (J)	0.0018	<0.0005
12/8/2016		<0.0005	<0.0005			
1/24/2017		<0.0005	<0.0005			
1/26/2017				0.0001 (J)	0.0013	<0.0005
3/21/2017		<0.0005	<0.0005			
3/22/2017						<0.0005
3/23/2017				0.0002 (J)	0.002	
5/23/2017		<0.0005	<0.0005			
5/24/2017				0.0001 (J)	0.0041	<0.0005
4/3/2018		<0.0005	<0.0005		0.0022	<0.0005
4/4/2018				<0.0005		
6/5/2018		<0.0005	<0.0005			
6/6/2018				0.00012 (J)	0.0021	<0.0005
10/2/2018		<0.0005	<0.0005			
10/3/2018				0.0001 (J)	0.0026	<0.0005
3/12/2019		<0.0005	<0.0005			
3/14/2019				<0.0005	0.0024	
3/15/2019						<0.0005
4/2/2019		<0.0005	<0.0005			
4/4/2019					0.0018	<0.0005
4/5/2019				7.9E-05 (J)		
9/24/2019		<0.0005	<0.0005	<0.0005	0.0014 (J)	
9/25/2019						<0.0005
3/2/2020		<0.0005	<0.0005			
3/3/2020				<0.0005	0.0015 (J)	<0.0005
3/25/2020			<0.0005			
3/26/2020		<0.0005			0.0016 (J)	
3/30/2020				<0.0005		<0.0005
9/15/2020		<0.0005	<0.0005			
9/16/2020	<0.0005					
9/17/2020					0.0016 (J)	<0.0005
9/18/2020				<0.0005		
11/10/2020	<0.0005					
12/15/2020	<0.0005					
1/19/2021	<0.0005					
2/9/2021	<0.0005	<0.0005	<0.0005			
2/10/2021						<0.0005
2/11/2021				<0.0005		
2/12/2021					0.0014 (J)	
3/10/2021	<0.0005					
3/11/2021		<0.0005	<0.0005			
3/16/2021					0.0011	

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/16/2023 2:06 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-44D (bg)	HGWA-5 (bg)	HGWA-6 (bg)	HGWC-14	HGWC-15	HGWC-16
3/17/2021				<0.0005		<0.0005
8/12/2021		<0.0005	<0.0005			
8/13/2021	<0.0005					
8/18/2021				0.00013 (J)		
8/19/2021					0.0012	<0.0005
2/1/2022	<0.0005					
2/7/2022		<0.0005	<0.0005			
2/8/2022					0.0011	<0.0005
2/9/2022				<0.0005		
8/2/2022	<0.0005					
8/10/2022		<0.0005	<0.0005			<0.0005
8/11/2022				<0.0005	0.00095	
1/24/2023	<0.0005					
1/27/2023		<0.0005	<0.0005			
2/1/2023				<0.0005	0.00088	<0.0005

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/16/2023 2:06 PM View: Time Series & Box Plot
 Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-17	HGWC-18	MW-21D	MW-22	MW-23D	MW-33
5/23/2016	<0.0005					
5/24/2016		<0.02				
7/12/2016	<0.0005	0.0022				
9/1/2016	<0.0005	0.0024				
10/25/2016	<0.0005	0.0022				
12/7/2016	<0.0005					
12/8/2016		0.0024				
1/26/2017	<0.0005	0.0025				
3/22/2017	7E-05 (J)					
3/23/2017		0.0025				
5/25/2017	<0.0005	0.0027				
4/3/2018	<0.0005	0.0022				
6/5/2018		0.0022				
6/6/2018	<0.0005					
10/3/2018	<0.0005	0.0027				
3/14/2019		0.0019			<0.0025	
3/15/2019	<0.0005		<0.0005	0.00082 (J)		
4/4/2019			<0.0005			
4/5/2019	<0.0005	0.0017		0.00064 (J)	<0.0025	
9/25/2019	<0.0005	0.0023 (J)	<0.0005			
9/26/2019					<0.0025	
9/27/2019				0.0014 (J)		
3/2/2020				0.0021 (J)	<0.0025	
3/3/2020	<0.0005	0.0021 (J)	<0.0005			
3/27/2020				0.0019 (J)		
3/31/2020	<0.0005	0.0017 (J)				
4/1/2020			<0.0005		<0.0025	0.00022 (J)
6/17/2020			<0.0005			0.00021 (J)
9/15/2020		0.0019 (J)				
9/16/2020	<0.0005					
9/17/2020				0.0021 (J)	0.0006 (J)	
9/21/2020			<0.0005			0.00016 (J)
2/11/2021	<0.0005	0.0016 (J)	<0.0005			
2/12/2021					0.00045 (J)	0.00017 (J)
2/15/2021				0.002 (J)		
3/17/2021				0.0022	0.00057	
3/18/2021	<0.0005	0.0015	<0.0005			0.00019 (J)
8/18/2021	<0.0005					0.00017 (J)
8/19/2021		0.0014	<0.0005	0.0021	0.00012 (J)	
2/8/2022	<0.0005	0.00076	<0.0005	0.002		0.00013 (J)
2/10/2022					0.00024 (J)	
8/10/2022	<0.0005	0.0017				<0.0025
8/11/2022			<0.0005	0.002	0.00021 (J)	
1/27/2023			<0.0005			0.00017 (J)
1/30/2023	<0.0005			0.0017		
2/1/2023		0.001			0.00012 (J)	

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/16/2023 2:06 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-2

	MW-34D	MW-35	MW-37D	MW-51
6/18/2020	<0.0025	0.00053 (J)	<0.0005	
9/21/2020		0.001 (J)		
9/23/2020	<0.0025		<0.0005	
2/11/2021			<0.0005	
2/15/2021		0.0017 (J)		
3/12/2021			<0.0005	
3/19/2021		0.0018		
8/16/2021	0.00023 (J)			
8/18/2021		0.0015	<0.0005	0.00094
2/8/2022		0.0015	<0.0005	0.00024 (J)
2/9/2022	0.00072			
8/10/2022	0.00041 (J)		<0.0005	
8/11/2022		0.0013 (J)		0.00045 (J)
1/30/2023	0.00047 (J)		<0.0005	
2/1/2023		0.0017		0.0016

Time Series

Constituent: Calcium (mg/L) Analysis Run 5/16/2023 2:06 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-4 (bg)	HGWA-42D (bg)	HGWA-43D (bg)
5/19/2016	138	22.9	76.2	48.4		
7/11/2016	97.2	22.3		73		
7/12/2016			61.5			
8/30/2016	97.5	26.4	65.1	85.7		
10/19/2016	99.2	21.7	73.2	89.7		
12/6/2016	105	18.2	74.9	80		
1/24/2017	95.7	18.5	69.6	30.8		
3/21/2017	106	18.6	75.7	34		
5/22/2017	107	17.8	71.5			
5/23/2017				43		
10/3/2017	102	20.2	76.3	46.9		
6/4/2018	124	19.1	73.4	81.9		
10/1/2018	108	20.5 (J)	80.9	22 (J)		
4/1/2019			80.5			
4/2/2019	132	22.5 (J)		76		
9/23/2019	118	19.5	71			
9/24/2019				36.6		
3/25/2020	127	23	89.8			
3/26/2020				14.9		
9/15/2020	103	21.1	73.1	20.4		
9/16/2020						56
9/17/2020				43.8		
11/10/2020						63.3
11/11/2020				44.4		
12/15/2020				47.3		62.6
1/19/2021						60.1
1/20/2021				41.8		
3/10/2021	111			5.9	43.4	
3/11/2021		43.8	83.8			59.6
8/11/2021	113					61
8/12/2021		21.9	84	5.4	43.6	
2/1/2022	106	27.2	85.1			55.9
2/7/2022				5.9	48.7	
8/2/2022	117	31.2	84.6	6		54.1
8/9/2022					44.1	
1/23/2023			85	24	43.7	
1/24/2023	117	29.4				56.6

Time Series

Constituent: Calcium (mg/L) Analysis Run 5/16/2023 2:06 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-44D (bg)	HGWA-5 (bg)	HGWA-6 (bg)	HGWC-14	HGWC-15	HGWC-16
5/19/2016		35.5				
5/20/2016			56.1			
5/23/2016				664	184	146
7/11/2016		35.4	49.3			
7/12/2016				528	186	142
8/30/2016		28	53.9			
9/1/2016				586	189	141
10/20/2016		26.7	50.7			
10/24/2016				564	200	
10/25/2016						138
12/7/2016				590	203	146
12/8/2016		23.5	49.2			
1/24/2017		24.5	48.3			
1/26/2017				558	212	139
3/21/2017		30.8	51.3			
3/22/2017						150
3/23/2017				652	229	
5/23/2017		24.2	49.1			
5/24/2017				617	265	153
10/3/2017		29	55.1			
10/4/2017				644	230	156
6/5/2018		27.8	54.5			
6/6/2018				606	250	177
10/2/2018		28.9	54.7			
10/3/2018				558	234	160
4/2/2019		26.3	49.7			
4/4/2019					214	196
4/5/2019				606		
9/24/2019		29.3	52.5	507	202	
9/25/2019						185
3/25/2020			58.1			
3/26/2020		27.8			240	
3/30/2020				600		208
9/15/2020		27.9	49.9			
9/16/2020	30					
9/17/2020					188	190
9/18/2020				623		
11/10/2020	33.6					
12/15/2020	28.7					
1/19/2021	33					
3/10/2021	18.3					
3/11/2021		28.3	53.1			
3/16/2021					196	
3/17/2021				572		198
8/12/2021		32	54.7			
8/13/2021	28.9					
8/18/2021				583		
8/19/2021					203	207
2/1/2022	24.8					
2/7/2022		30	53.4			
2/8/2022					186	218
2/9/2022				571		

Time Series

Constituent: Calcium (mg/L) Analysis Run 5/16/2023 2:06 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-44D (bg)	HGWA-5 (bg)	HGWA-6 (bg)	HGWC-14	HGWC-15	HGWC-16
8/2/2022	20.9					
8/10/2022		27.4	55.7			207
8/11/2022				519	210	
1/24/2023	13.2					
1/27/2023		28.5	55.4			
2/1/2023				464	174	216

Time Series

Constituent: Calcium (mg/L) Analysis Run 5/16/2023 2:06 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-17	HGWC-18	MW-21D	MW-22	MW-23D	MW-33
5/23/2016	225					
5/24/2016		403				
7/12/2016	199	328				
9/1/2016	213	379				
10/25/2016	206	362				
12/7/2016	212					
12/8/2016		366				
1/26/2017	198	394				
3/22/2017	239					
3/23/2017		440				
5/25/2017	292	492				
10/4/2017	305	470				
6/5/2018		425				
6/6/2018	299					
10/3/2018	286	421				
4/4/2019			427			
4/5/2019	340	400		178	352	
9/25/2019	305	437	420			
9/26/2019					306	
9/27/2019				202		
1/22/2020						638
3/27/2020				212		
3/31/2020	328	418				
4/1/2020			438		342	567
6/17/2020			434			561
9/15/2020		430				
9/16/2020	277					
9/17/2020				203	361	
9/21/2020			428			562
3/17/2021				200	341	
3/18/2021	266	407	382			574
8/18/2021	281					549
8/19/2021		416	365	203	307	
2/8/2022	280	418	366	221		548
2/10/2022					288	
8/10/2022	316	433				498
8/11/2022			430	198	315	
1/27/2023			281			371
1/30/2023	286			189		
2/1/2023		288			294	

Time Series

Constituent: Calcium (mg/L) Analysis Run 5/16/2023 2:06 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-2

	MW-34D	MW-35	MW-37D	MW-51
6/18/2020	584	517	165	
9/21/2020		503		
9/23/2020	556		158	
3/12/2021			170	
3/19/2021		552		
8/16/2021	554			
8/18/2021		546	180	532
2/8/2022		519	167	537
2/9/2022	557			
8/10/2022	585		113	
8/11/2022		499		521
1/30/2023	558		74.6	
2/1/2023		503		492

Time Series

Constituent: Chloride (mg/L) Analysis Run 5/16/2023 2:06 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-4 (bg)	HGWA-42D (bg)	HGWA-43D (bg)
5/19/2016	9.94	6.14	5.93	4.56		
7/11/2016	6.3	5.9		5		
7/12/2016			6.2			
8/30/2016	6	6.2	6.4	4.9		
10/19/2016	5.8	6.1	6.5	4.6		
12/6/2016	5.4	6	7.2	4.5		
1/24/2017	5.2	6.1	6.4	4.7		
3/21/2017	4.6	5.9	7.5	4.3		
5/22/2017	4.6	5.9	6.5			
5/23/2017				4.5		
10/3/2017	5.6	6.3	6.5	4.8		
6/4/2018	13.1	6.1	6.3	4.5		
10/1/2018	6.6	6.4	6.4	3.8		
4/1/2019			6.5			
4/2/2019	20.3	5.8		4.4		
9/23/2019	17.7	5.1	5.9			
9/24/2019				3.6		
3/25/2020	20.4	5.2	6.1			
3/26/2020				3.4		
9/15/2020	13.4	5	6	3.3		
9/16/2020						4.1
9/17/2020					5.8	
11/10/2020						4.4
11/11/2020					3.1	
12/15/2020					3.2	4.7
1/19/2021						4.1
1/20/2021					2.8	
3/10/2021	7.4			2.9	3	
3/11/2021		5.1	5.9			4.5
8/11/2021	9.6					3.5
8/12/2021		5.2	4.8	2.4	2.6	
2/1/2022	7.5	7	5.7			4.1
2/7/2022				2.4	3.1	
8/2/2022	14.1	7.8	5.9	2.9		4.3
8/9/2022					3.7	
1/23/2023			5.6	1.6	3.3	
1/24/2023	9	7.1				4.3

Time Series

Constituent: Chloride (mg/L) Analysis Run 5/16/2023 2:06 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-44D (bg)	HGWA-5 (bg)	HGWA-6 (bg)	HGWC-14	HGWC-15	HGWC-16
5/19/2016		1.57				
5/20/2016			1.35			
5/23/2016				659	209	25.8
7/11/2016		2	1.7			
7/12/2016				620	190	34
8/30/2016		2	1.6			
9/1/2016				510	200	34
10/20/2016		2.2	1.6			
10/24/2016				110	200	
10/25/2016						35
12/7/2016				510	240	38
12/8/2016		2	1.6			
1/24/2017		1.6	1.9			
1/26/2017				640	260	41
3/21/2017		2	1.3			
3/22/2017						41
3/23/2017				600	280	
5/23/2017		1.7	1.2			
5/24/2017				510	240	44
10/3/2017		1.7	2.1			
10/4/2017				420	210	50
6/5/2018		1.6	1.2			
6/6/2018				357	196	50.6
10/2/2018		2.4	1.7			
10/3/2018				368	200	49.9
4/2/2019		1.7	1.6			
4/4/2019					138	76.8
4/5/2019				227		
9/24/2019		1.7	1.3	188	120	
9/25/2019						84.4
3/25/2020			1.2			
3/26/2020		1.4			142	
3/30/2020				236		80.2
9/15/2020		1.7	1.2			
9/16/2020	7.2					
9/17/2020					108	99.3
9/18/2020				288		
11/10/2020	7.8					
12/15/2020	9.4					
1/19/2021	9.5					
3/10/2021	12.3					
3/11/2021		1.4	1.2			
3/16/2021					103	
3/17/2021				233		93.8
8/12/2021		1.4	0.94 (J)			
8/13/2021	39.9					
8/18/2021				141		
8/19/2021					89.9	90.1
2/1/2022	44.8					
2/7/2022		1.4	1.1			
2/8/2022					76.6	96.4
2/9/2022				174		

Time Series

Constituent: Chloride (mg/L) Analysis Run 5/16/2023 2:06 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-44D (bg)	HGWA-5 (bg)	HGWA-6 (bg)	HGWC-14	HGWC-15	HGWC-16
8/2/2022	19.8					
8/10/2022		2.1	1.3			98.3
8/11/2022				147	89.2	
1/24/2023	24.9					
1/27/2023		1.6	1.4			
2/1/2023				108	85	112

Time Series

Constituent: Chloride (mg/L) Analysis Run 5/16/2023 2:06 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-17	HGWC-18	MW-21D	MW-22	MW-23D	MW-33
5/23/2016	94					
5/24/2016		280				
7/12/2016	100	300				
9/1/2016	95	270				
10/25/2016	98	290				
12/7/2016	89					
12/8/2016		300				
1/26/2017	99	340				
3/22/2017	100					
3/23/2017		350				
5/25/2017	99	290				
10/4/2017	130	260				
6/5/2018		261				
6/6/2018	166					
10/3/2018	193	302				
4/4/2019			299			
4/5/2019	195	217		131	195	
9/25/2019	139	181	245			
9/26/2019					204	
9/27/2019				176		
1/22/2020						231
3/27/2020				141		
3/31/2020	161	126				
4/1/2020			236		166	242
6/17/2020			223			250
9/15/2020		150				
9/16/2020	156					
9/17/2020				153	171	
9/21/2020			236			273
3/17/2021				127	151	
3/18/2021	138	90.2	208			199
8/18/2021	90.7					118
8/19/2021		95.8	173	118	137	
2/8/2022	117	105	196	110		166
2/10/2022					138	
8/10/2022	148	95.2				120
8/11/2022			216	125	124	
1/27/2023			167			83.4
1/30/2023	154			109		
2/1/2023		92.7			137	

Time Series

Constituent: Chloride (mg/L) Analysis Run 5/16/2023 2:06 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-2

	MW-34D	MW-35	MW-37D	MW-51
6/18/2020	259	229	151	
9/21/2020		257		
9/23/2020	294		166	
3/12/2021			124	
3/19/2021		250		
8/16/2021	264			
8/18/2021		149	122	123
2/8/2022		202	151	194
2/9/2022	251			
8/10/2022	185		84.8	
8/11/2022		172		144
1/30/2023	173		49.2	
2/1/2023		189		158

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/16/2023 2:06 PM View: Time Series & Box Plot
 Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-4 (bg)	HGWA-42D (bg)	HGWA-43D (bg)
5/19/2016	<0.005	<0.005	<0.005	<0.005		
7/11/2016	<0.005	<0.005		<0.005		
7/12/2016			<0.005			
8/30/2016	<0.005	<0.005	<0.005	<0.005		
10/19/2016	<0.005	<0.005	<0.005	<0.005		
12/6/2016	<0.005	<0.005	<0.005	<0.005		
1/24/2017	<0.005	<0.005	<0.005	<0.005		
3/21/2017	0.0005 (J)	<0.005	<0.005	0.0004 (J)		
5/22/2017	<0.005	<0.005	0.0007 (J)			
5/23/2017				<0.005		
4/2/2018	<0.005	<0.005		<0.005		
4/3/2018			<0.005			
3/11/2019				<0.005		
3/12/2019	<0.005	<0.005	<0.005			
4/1/2019			<0.005			
4/2/2019	<0.005	0.0079 (J)		0.019		
9/23/2019	<0.005	0.00058 (J)	<0.005			
9/24/2019				<0.005		
3/2/2020	<0.005	0.00041 (J)	<0.005	0.0004 (J)		
3/25/2020	0.00072 (J)	<0.005	<0.005			
3/26/2020				<0.005		
9/15/2020	<0.005	<0.005	<0.005	<0.005		
9/16/2020						<0.005
9/17/2020				<0.005		
11/10/2020						<0.005
11/11/2020					0.00063 (J)	
12/15/2020					0.0025 (J)	<0.005
1/19/2021						<0.005
1/20/2021					<0.005	
2/8/2021	<0.005			<0.005	0.00078 (J)	
2/9/2021		<0.005	<0.005			0.00095 (J)
3/10/2021	<0.005			<0.005	<0.005	
3/11/2021		<0.005	<0.005			<0.005
8/11/2021	<0.005					<0.005
8/12/2021		<0.005	<0.005	<0.005	<0.005	
2/1/2022	<0.005	<0.005	<0.005			<0.005
2/7/2022				<0.005	<0.005	
8/2/2022	<0.005	<0.005	<0.005	<0.005		<0.005
8/9/2022					<0.005	
1/23/2023			<0.005	<0.005	<0.005	
1/24/2023	<0.005	<0.005				<0.005

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/16/2023 2:06 PM View: Time Series & Box Plot
 Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-44D (bg)	HGWA-5 (bg)	HGWA-6 (bg)	HGWC-14	HGWC-15	HGWC-16
5/19/2016		<0.005				
5/20/2016			<0.005			
5/23/2016				<0.025	<0.025	<0.025
7/11/2016		<0.005	<0.005			
7/12/2016				<0.025	<0.025	<0.025
8/30/2016		<0.005	<0.005			
9/1/2016				<0.025	<0.025	<0.025
10/20/2016		<0.005	<0.005			
10/24/2016				<0.025	<0.025	
10/25/2016						<0.025
12/7/2016				<0.025	<0.025	<0.025
12/8/2016		<0.005	<0.005			
1/24/2017		<0.005	<0.005			
1/26/2017				<0.025	<0.025	<0.025
3/21/2017		<0.005	0.0007 (J)			
3/22/2017						0.0021 (J)
3/23/2017				<0.025	0.0005 (J)	
5/23/2017		<0.005	<0.005			
5/24/2017				<0.025	<0.025	<0.025
4/3/2018		<0.005	<0.005		<0.025	<0.025
4/4/2018				<0.025		
3/12/2019		<0.005	<0.005			
3/14/2019				<0.025	<0.025	
3/15/2019						<0.025
4/2/2019		<0.005	<0.005			
4/4/2019					<0.025	<0.025
4/5/2019				<0.025		
9/24/2019		<0.005	<0.005	<0.025	0.00041 (J)	
9/25/2019						<0.025
3/2/2020		0.0005 (J)	<0.005			
3/3/2020				0.00042 (J)	<0.025	0.00071 (J)
3/25/2020			<0.005			
3/26/2020		<0.005			<0.025	
3/30/2020				0.00066 (J)		0.0004 (J)
9/15/2020		<0.005	<0.005			
9/16/2020	0.0012 (J)					
9/17/2020					<0.025	<0.025
9/18/2020				<0.025		
11/10/2020	0.00089 (J)					
12/15/2020	0.00072 (J)					
1/19/2021	0.0011 (J)					
2/9/2021	0.00066 (J)	<0.005	<0.005			
2/10/2021						<0.025
2/11/2021				<0.025		
2/12/2021					<0.025	
3/10/2021	<0.005					
3/11/2021		0.0011 (J)	<0.005			
3/16/2021					0.0012 (J)	
3/17/2021				<0.025		<0.025
8/12/2021		<0.005	<0.005			
8/13/2021	0.0016 (J)					
8/18/2021				<0.025		

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/16/2023 2:06 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-44D (bg)	HGWA-5 (bg)	HGWA-6 (bg)	HGWC-14	HGWC-15	HGWC-16
8/19/2021					<0.025	<0.025
2/1/2022	0.0013 (J)					
2/7/2022		<0.005	<0.005			
2/8/2022					<0.025	<0.025
2/9/2022				<0.025		
8/2/2022	<0.005					
8/10/2022		<0.005	<0.005			<0.025
8/11/2022				<0.025	<0.025	
1/24/2023	<0.005					
1/27/2023		<0.005	<0.005			
2/1/2023				<0.025	<0.025	<0.025

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/16/2023 2:06 PM View: Time Series & Box Plot
 Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-17	HGWC-18	MW-21D	MW-22	MW-23D	MW-33
5/23/2016	<0.005					
5/24/2016		<0.025				
7/12/2016	<0.005	<0.025				
9/1/2016	<0.005	<0.025				
10/25/2016	<0.005	<0.025				
12/7/2016	<0.005					
12/8/2016		<0.025				
1/26/2017	<0.005	<0.025				
3/22/2017	<0.005					
3/23/2017		0.0005 (J)				
5/25/2017	<0.005	<0.025				
4/3/2018	<0.005	<0.025				
3/14/2019		<0.025			<0.025	
3/15/2019	<0.005		<0.005	<0.005		
4/4/2019			<0.005			
4/5/2019	<0.005	<0.025		<0.005	<0.025	
9/25/2019	<0.005	<0.025	<0.005			
9/26/2019					<0.025	
9/27/2019				0.0004 (J)		
3/2/2020				<0.005	<0.025	
3/3/2020	0.0018 (J)	0.0004 (J)	<0.005			
3/27/2020				<0.005		
3/31/2020	<0.005	<0.025				
4/1/2020			<0.005		0.00086 (J)	0.00069 (J)
6/17/2020			0.00057 (J)			<0.005
9/15/2020		0.00063 (J)				
9/16/2020	<0.005					
9/17/2020				<0.005	<0.025	
9/21/2020			<0.005			<0.005
2/11/2021	0.00074 (J)	<0.025	<0.005			
2/12/2021					<0.025	<0.005
2/15/2021				<0.005		
3/17/2021				0.00075 (J)	0.00083 (J)	
3/18/2021	0.00069 (J)	<0.025	0.00074 (J)			<0.005
8/18/2021	<0.005					<0.005
8/19/2021		<0.025	<0.005	<0.005	<0.025	
2/8/2022	<0.005	<0.025	<0.005	<0.005		<0.005
2/10/2022					<0.025	
8/10/2022	<0.005	<0.025				<0.005
8/11/2022			<0.005	<0.005	<0.025	
1/27/2023			<0.005			<0.005
1/30/2023	<0.005			<0.005		
2/1/2023		<0.025			<0.025	

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/16/2023 2:06 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-2

	MW-34D	MW-35	MW-37D	MW-51
6/18/2020	0.0059 (J)	<0.025	0.0048 (J)	
9/21/2020		0.00079 (J)		
9/23/2020	<0.005		<0.005	
2/11/2021			0.0014 (J)	
2/15/2021		<0.025		
3/12/2021			<0.005	
3/19/2021		0.00083 (J)		
8/16/2021	<0.005			
8/18/2021		<0.025	<0.005	<0.025
2/8/2022		<0.025	<0.005	<0.025
2/9/2022	<0.005			
8/10/2022	<0.005		<0.005	
8/11/2022		<0.025		<0.025
1/30/2023	<0.005		<0.005	
2/1/2023		<0.025		<0.025

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/16/2023 2:06 PM View: Time Series & Box Plot
 Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-4 (bg)	HGWA-42D (bg)	HGWA-43D (bg)
5/19/2016	<0.005	0.0293	<0.005	<0.005		
7/11/2016	0.0004 (J)	0.0267		<0.005		
7/12/2016			<0.005			
8/30/2016	<0.005	0.028	<0.005	<0.005		
10/19/2016	<0.005	0.0201	<0.005	<0.005		
12/6/2016	<0.005	0.0184	<0.005	<0.005		
1/24/2017	<0.005	0.0206	<0.005	<0.005		
3/21/2017	<0.005	0.0251	<0.005	<0.005		
5/22/2017	<0.005	0.0263	<0.005			
5/23/2017				<0.005		
4/2/2018	<0.005	0.019		<0.005		
4/3/2018			<0.005			
6/4/2018	<0.005	0.025	<0.005	<0.005		
10/1/2018	<0.005	0.026	<0.005	<0.005		
3/11/2019				<0.005		
3/12/2019	<0.005	0.017	<0.005			
4/1/2019			<0.005			
4/2/2019	<0.005	0.019		<0.005		
9/23/2019	<0.005	0.038	<0.005			
9/24/2019				<0.005		
3/2/2020	<0.005	0.019	<0.005	0.00063 (J)		
3/25/2020	<0.005	0.02	<0.005			
3/26/2020				0.00058 (J)		
9/15/2020	<0.005	0.021	<0.005	<0.005		
9/16/2020						<0.005
9/17/2020				<0.005		
11/10/2020						<0.005
11/11/2020				<0.005		
12/15/2020				0.00049 (J)		<0.005
1/19/2021						<0.005
1/20/2021				<0.005		
2/8/2021	<0.005			0.00074 (J)	<0.005	
2/9/2021		0.02	<0.005			<0.005
3/10/2021	<0.005			0.00065 (J)	<0.005	
3/11/2021		0.013	<0.005			<0.005
8/11/2021	<0.005					<0.005
8/12/2021		0.022	<0.005	0.0007 (J)	<0.005	
2/1/2022	<0.005	0.025	<0.005			<0.005
2/7/2022				0.00068 (J)	<0.005	
8/2/2022	0.00054 (J)	0.024	<0.005	0.00066 (J)		<0.005
8/9/2022					<0.005	
1/23/2023			<0.005	0.00049 (J)	<0.005	
1/24/2023	<0.005	0.024				<0.005

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/16/2023 2:06 PM View: Time Series & Box Plot
 Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-44D (bg)	HGWA-5 (bg)	HGWA-6 (bg)	HGWC-14	HGWC-15	HGWC-16
5/19/2016		<0.005				
5/20/2016			<0.005			
5/23/2016				<0.25	0.0419 (J)	<0.005
7/11/2016		0.001 (J)	<0.005			
7/12/2016				0.0232	0.0393	<0.005
8/30/2016		0.001 (J)	<0.005			
9/1/2016				0.0248	0.045	<0.005
10/20/2016		0.0008 (J)	<0.005			
10/24/2016				0.0253	0.0557	
10/25/2016						<0.005
12/7/2016				0.0269	0.0536	<0.005
12/8/2016		0.0006 (J)	<0.005			
1/24/2017		0.0006 (J)	<0.005			
1/26/2017				0.0294	0.055	<0.005
3/21/2017		0.0008 (J)	<0.005			
3/22/2017						<0.005
3/23/2017				0.0311	0.0715	
5/23/2017		0.0006 (J)	<0.005			
5/24/2017				0.0279	0.0446	<0.005
4/3/2018		<0.005	<0.005		0.032	<0.005
4/4/2018				0.025		
6/5/2018		<0.005	<0.005			
6/6/2018				0.027	0.032	<0.005
10/2/2018		<0.005	<0.005			
10/3/2018				0.023	0.051	<0.005
3/12/2019		0.00099 (J)	<0.005			
3/14/2019				0.025	0.038	
3/15/2019						<0.005
4/2/2019		0.0012 (J)	<0.005			
4/4/2019					0.035	0.00028 (J)
4/5/2019				0.021		
9/24/2019		0.00063 (J)	<0.005	0.026	0.022	
9/25/2019						<0.005
3/2/2020		0.00093 (J)	<0.005			
3/3/2020				0.029	0.03	0.00037 (J)
3/25/2020			<0.005			
3/26/2020		0.0013 (J)			0.022	
3/30/2020				0.028		<0.005
9/15/2020		0.00047 (J)	<0.005			
9/16/2020	<0.005					
9/17/2020					0.026	<0.005
9/18/2020				0.027		
11/10/2020	<0.005					
12/15/2020	<0.005					
1/19/2021	<0.005					
2/9/2021	<0.005	0.00071 (J)	<0.005			
2/10/2021						<0.005
2/11/2021				0.033		
2/12/2021					0.019	
3/10/2021	<0.005					
3/11/2021		0.0013 (J)	<0.005			
3/16/2021					0.018	

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/16/2023 2:06 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-44D (bg)	HGWA-5 (bg)	HGWA-6 (bg)	HGWC-14	HGWC-15	HGWC-16
3/17/2021				0.034		<0.005
8/12/2021		<0.005	<0.005			
8/13/2021	<0.005					
8/18/2021				0.033		
8/19/2021					0.011	<0.005
2/1/2022	<0.005					
2/7/2022		0.00055 (J)	<0.005			
2/8/2022					0.0081	<0.005
2/9/2022				0.038		
8/2/2022	<0.005					
8/10/2022		<0.005	<0.005			<0.005
8/11/2022				0.037	0.0088	
1/24/2023	<0.005					
1/27/2023		0.00063 (J)	<0.005			
2/1/2023				0.035	0.0091	<0.005

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/16/2023 2:06 PM View: Time Series & Box Plot
 Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-17	HGWC-18	MW-21D	MW-22	MW-23D	MW-33
5/23/2016	0.0167					
5/24/2016		0.17 (J)				
7/12/2016	0.0148	0.168				
9/1/2016	0.0151	0.18				
10/25/2016	0.0141	0.188				
12/7/2016	0.0141					
12/8/2016		0.206				
1/26/2017	0.0154	0.195				
3/22/2017	0.0169					
3/23/2017		0.223				
5/25/2017	0.0154	0.209				
4/3/2018	0.016	0.19				
6/5/2018		0.19				
6/6/2018	0.018					
10/3/2018	0.016	0.19				
3/14/2019		0.16			0.0013 (J)	
3/15/2019	0.017		<0.005	0.028		
4/4/2019			0.00034 (J)			
4/5/2019	0.016	0.14		0.022	0.0012 (J)	
9/25/2019	0.015	0.18	<0.005			
9/26/2019					0.00098 (J)	
9/27/2019				0.035		
1/22/2020						0.052
3/2/2020				0.043	0.0011 (J)	
3/3/2020	0.016	0.15	<0.005			
3/27/2020				0.025		
3/31/2020	0.016	0.16				
4/1/2020			<0.005		0.0011 (J)	0.058
6/17/2020			<0.005			0.053
9/15/2020		0.16				
9/16/2020	0.013					
9/17/2020				0.029	0.00096 (J)	
9/21/2020			<0.005			0.047
2/11/2021	0.012	0.14	<0.005			
2/12/2021					0.001 (J)	0.055
2/15/2021				0.038		
3/17/2021				0.039	0.0011 (J)	
3/18/2021	0.012	0.14	<0.005			0.057
8/18/2021	0.009					0.054
8/19/2021		0.15	<0.005	0.022	0.00089 (J)	
2/8/2022	0.0066	0.16	<0.005	0.034		0.048
2/10/2022					0.001 (J)	
8/10/2022	0.012	0.16				0.046
8/11/2022			<0.005	0.015	0.00088 (J)	
1/27/2023			<0.005			0.034
1/30/2023	0.011			0.027		
2/1/2023		0.11			0.00081 (J)	

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/16/2023 2:06 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-2

	MW-34D	MW-35	MW-37D	MW-51
6/18/2020	0.011	0.091	0.0015 (J)	
9/21/2020		0.084		
9/23/2020	0.0056		<0.005	
2/11/2021			0.00048 (J)	
2/15/2021		0.095		
3/12/2021			<0.005	
3/19/2021		0.1		
8/16/2021	0.0093			
8/18/2021		0.085	<0.005	0.03
2/8/2022		0.09	<0.005	0.031
2/9/2022	0.0065			
8/10/2022	0.0066		<0.005	
8/11/2022		0.082		0.027
1/30/2023	0.0071		<0.005	
2/1/2023		0.088		0.021 (J)

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/16/2023 2:06 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-4 (bg)	HGWA-42D (bg)	HGWA-43D (bg)
5/19/2016	0.397 (U)	0.627 (U)	0.342 (U)	0.662 (U)		
7/11/2016	0.738 (U)	1.38		1.19		
7/12/2016			0.499 (U)			
8/30/2016	0.581 (U)	1.05 (U)	0.976 (U)	0.847 (U)		
10/19/2016	0.213 (U)	1.11 (U)	0.626 (U)	2.34		
12/6/2016	0.444 (U)	0.741 (U)	0.805 (U)	0.925 (U)		
1/24/2017	0.373 (U)	0.908 (U)	0.336 (U)	0.607 (U)		
3/21/2017	0.816 (U)	0.567 (U)	0.358 (U)	0.074 (U)		
5/22/2017	0.554 (U)	0.638 (U)	0.744 (U)			
5/23/2017				0.55 (U)		
4/2/2018	0.405 (U)	0.761 (U)		0.371 (U)		
4/3/2018			0.684 (U)			
6/4/2018	1.13 (U)	0.975 (U)	0.0291 (U)	0.622 (U)		
10/1/2018	0.132 (U)	0.434 (U)	0.781 (U)	0.132 (U)		
3/11/2019				0.781 (U)		
3/12/2019	0.327 (U)	0.454 (U)	1.01 (U)			
4/1/2019			0.76 (U)			
4/2/2019	0.739 (U)	0.651 (U)		0.494 (U)		
9/24/2019				0.455 (U)		
9/30/2019	0.306 (U)	1.04 (U)	0.384 (U)			
3/2/2020	0.61 (U)	1.58	0.249 (U)	0.937 (U)		
3/25/2020	4.36	0.621 (U)	0.833 (U)			
3/26/2020				0.578 (U)		
9/15/2020	0.748 (U)	0.124 (U)	0.161 (U)	0.179 (U)		
9/16/2020						0.531 (U)
9/17/2020				0.665 (U)		
11/10/2020						0.788 (U)
11/11/2020				1.28		
12/15/2020				0.261 (U)		1.04 (U)
1/19/2021						0.685 (U)
1/20/2021				0.845 (U)		
2/8/2021	0.223 (U)			0.558 (U)	0.429 (U)	
2/9/2021		0.721 (U)	0.447 (U)			0.138 (U)
3/10/2021	0 (U)			0.281 (U)	1.21	
3/11/2021		0.737 (U)	0.128 (U)			1.51 (U)
8/11/2021	0.115 (U)					0.394 (U)
8/12/2021		0.746 (U)	0.389 (U)	0.359 (U)	0.11 (U)	
2/1/2022	0.143 (U)	0.588 (U)	0.266 (U)			1.12
2/7/2022				0.0978 (U)	0.066 (U)	
8/2/2022	0.203 (U)	0.861 (U)	0.4 (U)	0.963 (U)		0.662 (U)
1/23/2023			0.311 (U)	0.961	1.12	
1/24/2023	0.549 (U)	0.829 (U)				1.25

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/16/2023 2:06 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-44D (bg)	HGWA-5 (bg)	HGWA-6 (bg)	HGWC-14	HGWC-15	HGWC-16
5/19/2016		0.685 (U)				
5/20/2016			0.843 (U)			
5/23/2016				0.568 (U)	0.171 (U)	
7/1/2016						0 (U)
7/11/2016		1.68	0.494 (U)			
7/12/2016				1.31	0.611 (U)	0.182 (U)
8/30/2016		2.42	0.946 (U)			
9/1/2016				1.64	0.766 (U)	1.23
10/20/2016		0.351 (U)	0.664 (U)			
10/24/2016				1.88	0.969	
10/25/2016						1.05 (U)
12/7/2016				1.35	0.302 (U)	1.11 (U)
12/8/2016		0.905 (U)	0.421 (U)			
1/24/2017		0.0774 (U)	0.965 (U)			
1/26/2017				2.1	0.626 (U)	1.29 (U)
3/21/2017		0.0599 (U)	0.139 (U)			
3/22/2017						0.453 (U)
3/23/2017				1.17	0.662 (U)	
5/23/2017		0.477 (U)	0.308 (U)			
5/24/2017				1 (U)	0.202 (U)	1.05 (U)
4/3/2018		0.858 (U)	0.828 (U)		0.384 (U)	0.783 (U)
4/4/2018				1.72		
6/5/2018		0.767 (U)	0.424 (U)			
6/6/2018				1.31 (U)	1.32 (U)	0.595 (U)
10/2/2018		0.489 (U)	0.643 (U)			
10/3/2018				1.48	0.858 (U)	1.03 (U)
3/12/2019		0.833 (U)	0.982 (U)			
3/14/2019				1.5	0.462 (U)	
3/15/2019						0.591 (U)
4/2/2019		1.07 (U)	0.621 (U)			
4/4/2019					0.512 (U)	0.96 (U)
4/5/2019				1.43 (U)		
9/24/2019		0.201 (U)	0.874 (U)	1.17	0.582 (U)	
9/25/2019						0.643 (U)
3/2/2020		0.547 (U)	0.676 (U)			
3/3/2020				1.84	1.43	1.32 (U)
3/25/2020			0.509 (U)			
3/26/2020		0.907 (U)			0.855 (U)	
3/30/2020				1.08 (U)		0.288 (U)
9/15/2020		0.601 (U)	1.36 (U)			
9/16/2020	0.422 (U)					
9/17/2020					0.395 (U)	1.1 (U)
9/18/2020				1.8 (U)		
11/10/2020	0.293 (U)					
12/15/2020	0.7 (U)					
1/19/2021	0.79 (U)					
2/9/2021	0.486 (U)	0.37 (U)	0.324 (U)			
2/10/2021						0.773 (U)
2/11/2021				0.73 (U)		
2/12/2021					1.65	
3/10/2021	0.811 (U)					
3/11/2021		1.07 (U)	0.601 (U)			

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/16/2023 2:06 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-44D (bg)	HGWA-5 (bg)	HGWA-6 (bg)	HGWC-14	HGWC-15	HGWC-16
3/16/2021					0.801 (U)	
3/17/2021				1.84		0.228 (U)
8/12/2021		0.922 (U)	0.0804 (U)			
8/13/2021	1.2					
8/18/2021				0.858 (U)		
8/19/2021					0.527 (U)	0.668 (U)
2/1/2022	0.665 (U)					
2/7/2022		0.106 (U)	0.346 (U)			
2/8/2022					0.0242 (U)	0.168 (U)
2/9/2022				0.346 (U)		
8/2/2022	0.952 (U)					
8/10/2022		0.568 (U)	0.648 (U)			
8/11/2022				1.31	0.656 (U)	0.249 (U)
1/24/2023	0.421 (U)					
1/27/2023		1.47 (U)	0.801 (U)			
2/1/2023				1.13	0.626 (U)	0.757 (U)

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/16/2023 2:06 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-17	HGWC-18	MW-21D	MW-22	MW-23D	MW-33
5/23/2016	0.618 (U)					
5/24/2016		1.82				
7/12/2016	0.867	1.76				
9/1/2016	0.857 (U)	1.51				
10/25/2016	1.11 (U)	2.69				
12/7/2016	0.964 (U)					
12/8/2016		2.21				
1/26/2017	0.612 (U)	2.26				
3/22/2017	0.437 (U)					
3/23/2017		1.81				
5/25/2017	1.21 (U)	1.63				
4/3/2018	0.409 (U)	2.53				
6/5/2018		1.91				
6/6/2018	0.772 (U)					
10/3/2018	1.08 (U)	2.22				
3/14/2019		1.37 (U)			0.872 (U)	
3/15/2019	0.917 (U)		0.972 (U)	0.977		
4/4/2019			0.791 (U)			
4/5/2019	1.07 (U)	2.22		1.06 (U)	0.932 (U)	
9/25/2019	1.54	2.77	0.751 (U)			
9/26/2019					1.25	
9/27/2019				1.44 (U)		
3/2/2020				0.872 (U)	0.964 (U)	
3/3/2020	1.33	2.35	1.94			
3/27/2020				0.96 (U)		
3/31/2020	0.591 (U)	2.7				
4/1/2020			0.758 (U)		0.914 (U)	2.57
6/17/2020			0.691 (U)			1.43 (U)
9/15/2020		1.65				
9/16/2020	0.295 (U)					
9/17/2020				0.0879 (U)	0.32 (U)	
9/21/2020			0.436 (U)			2.53
2/11/2021	0.831 (U)	1.11	0.317 (U)			
2/12/2021					1.21 (U)	2.26
2/15/2021				0.215 (U)		
3/17/2021				0.981 (U)	0.579 (U)	
3/18/2021	0.856 (U)	1.63	0.5 (U)			0.733 (U)
8/18/2021	0.548 (U)					1.77
8/19/2021		1.45	1.17	0.689 (U)	0.69 (U)	
2/8/2022	1 (U)	0.93 (U)	0.463 (U)	0.0657 (U)		0.967 (U)
2/10/2022					0.919 (U)	
8/11/2022	0.361 (U)	1.46	0.691 (U)	0.789 (U)	0.39 (U)	1.52
1/27/2023			0.256 (U)			1.44 (U)
1/30/2023	0.5 (U)			0.621 (U)		
2/1/2023		0.871			0.406 (U)	

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/16/2023 2:06 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-2

	MW-34D	MW-35	MW-37D	MW-51
6/18/2020	1.36	2.02	1.79	
9/21/2020		3.85		
9/23/2020	0.563 (U)		0.98 (U)	
2/11/2021			0.12 (U)	
2/15/2021		1.52		
3/12/2021			0.578 (U)	
3/19/2021		0.524 (U)		
8/16/2021	0.693 (U)			
8/18/2021		1.67	1.31	0.973 (U)
2/8/2022		1.38	0.345 (U)	0.431 (U)
2/9/2022	0.297 (U)			
8/11/2022	1.05	1.71	0.505 (U)	1.02
1/30/2023	0.689 (U)		0.309 (U)	
2/1/2023		1.24		0.82 (U)

Time Series

Constituent: Field pH (s.u.) Analysis Run 5/16/2023 2:06 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-4 (bg)	HGWA-42D (bg)	HGWA-43D (bg)
5/19/2016	7.27	5.81	7.45	6.51		
7/11/2016	7.06	5.68		6.65		
7/12/2016			7.32			
8/30/2016	7.28	5.63	7.43	7.14		
10/19/2016	7.02	5.46	7.03	7.08		
12/6/2016	7.09	5.38	7.08	7		
1/24/2017	7.2	5.37	7.39	6.16		
3/21/2017	7.01	4.9	6.83	6.07		
5/22/2017	7.11	5.2	7.02			
5/23/2017				6.28		
10/3/2017	7.21	5.3	7.47	6.45		
4/2/2018	7.1	5.4		6.23		
4/3/2018			7.38			
6/4/2018	7.06	5.27	7.38	6.82		
10/1/2018	7.09	5.31	7.13	5.73		
3/11/2019				6.27		
3/12/2019	7.03	5.42	7.29			
4/1/2019			7.16			
4/2/2019	6.86	5.41		6.66		
9/23/2019	7.02	5.33	7.3			
9/24/2019				6.16		
3/2/2020	7.1	5.43	7.12	5.63		
3/25/2020	6.95	5.36	7.4			
3/26/2020				5.77		
9/15/2020	7.15	5.22	7.29	5.75		
9/16/2020						7.52
9/17/2020				7.62		
11/10/2020						7.27
11/11/2020				7.68		
12/15/2020				7.64		7.39
1/19/2021						7.39
1/20/2021					7.68	
2/8/2021	7.11			4.94	7.64	
2/9/2021		5.42	7.23			7.44
3/10/2021	6.95			5.28	7.7	
3/11/2021		5.8	7.33			7.46
8/11/2021	6.98					7.4
8/12/2021		5.05	7.31	5.26	7.7	
2/1/2022	7.19	5.24	7.45			7.52
2/7/2022				5.24	7.85	
8/2/2022	7.03	4.57	7.02	4.86		7.15
8/9/2022					7.58	
1/23/2023			7.32	5.62	7.55	
1/24/2023	6.76	5.22				7.56

Time Series

Constituent: Field pH (s.u.) Analysis Run 5/16/2023 2:06 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-44D (bg)	HGWA-5 (bg)	HGWA-6 (bg)	HGWC-14	HGWC-15	HGWC-16
5/19/2016		6.62				
5/20/2016			7.58			
5/23/2016				4.56	6.17	7.15
7/11/2016		6.54	7.32			
7/12/2016				4.49	6.17	7.1
8/30/2016		6.38	7.69			
9/1/2016				4.54	6.22	7.29
10/20/2016		6.52	7.43			
10/24/2016				4.63	5.97	
10/25/2016						7.03
12/7/2016				4.6	5.87	6.85
12/8/2016		6.5	7.56			
1/24/2017		6.59	7.52			
1/26/2017				4.8	6.05	7.07
3/21/2017		6.55	7.4			
3/22/2017						7.15
3/23/2017				4.57	5.79	
5/23/2017		6.5	7.53			
5/24/2017				4.61	6.01	7.11
10/3/2017		6.63	7.51			
10/4/2017				4.74	5.82	7.17
4/3/2018		6.59	7.53		5.98	7.07
4/4/2018				4.5		
6/5/2018		6.44	7.37			
6/6/2018				4.49	6.12	7
10/2/2018		6.35	7.36			
10/3/2018				4.67	5.92	6.94
3/12/2019		6.42	7.5			
3/14/2019				4.66	5.71	
3/15/2019						7.09
4/2/2019		6.38	7.46			
4/4/2019					5.66	6.95
4/5/2019				4.67		
9/24/2019		6.4	7.41	4.77	6.33	
9/25/2019						6.92
3/2/2020		6.8	7.67			
3/3/2020				4.77	6	7.1
3/25/2020			7.39			
3/26/2020		6.38			6.03	
3/30/2020				4.57		7.09
9/15/2020		6.33	7.37			
9/16/2020	7.83					
9/17/2020					6.11	7.11
9/18/2020				4.88		
11/10/2020	7.84					
12/15/2020	7.87					
1/19/2021	7.86					
2/9/2021	7.84	6.35	7.4			
2/10/2021						7.08
2/11/2021				4.84		
2/12/2021					5.99	
3/10/2021	7.92					

Time Series

Constituent: Field pH (s.u.) Analysis Run 5/16/2023 2:06 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-44D (bg)	HGWA-5 (bg)	HGWA-6 (bg)	HGWC-14	HGWC-15	HGWC-16
3/11/2021		6.48	7.56			
3/16/2021					6.08	
3/17/2021				4.72		7.19
8/12/2021		6.46	7.47			
8/13/2021	7.77					
8/18/2021				4.9		
8/19/2021					6.18	7.04
2/1/2022	8.25					
2/7/2022		6.51	7.65			
2/8/2022					6.04	7.18
2/9/2022				4.97		
8/2/2022	7.9					
8/10/2022		6.22	7.53			7.09
8/11/2022				4.93	6.29	
1/24/2023	8.22					
1/27/2023		6.52	7.66			
2/1/2023				4.93	6.22	7.15

Time Series

Constituent: Field pH (s.u.) Analysis Run 5/16/2023 2:06 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-17	HGWC-18	MW-21D	MW-22	MW-23D	MW-33
5/23/2016	6.4					
5/24/2016		4.83				
7/12/2016	6.09	4.58				
9/1/2016	6.35	4.51				
10/25/2016	6.23	4.53				
12/7/2016	6.23					
12/8/2016		4.56				
1/26/2017	6.24	4.61				
3/22/2017	6.25					
3/23/2017		4.63				
5/25/2017	6.27	4.69				
10/4/2017	6.18	4.58				
4/3/2018	6.22	4.54				
6/5/2018		4.57				
6/6/2018	6.22					
10/3/2018	6.23	4.41				
3/14/2019		4.39			6.68	
3/15/2019	6.32		6.81	5.95		
4/4/2019			6.7			
4/5/2019	6.26	4.5		5.96	6.66	
9/25/2019	6.28	4.54	6.54			
9/26/2019					6.64	
9/27/2019				5.81		
3/2/2020				5.97	7.05	
3/3/2020	6.35	4.55	6.72			
3/27/2020				5.71		
3/31/2020	6.28	4.43				
4/1/2020			6.9		6.8	4.35
6/17/2020			6.47			4.36
9/15/2020		4.47				
9/16/2020	6.35					
9/17/2020				5.66	6.71	
9/21/2020			6.92			4.48
2/11/2021	6.31	4.53	6.87			
2/12/2021					6.8	4.4
2/15/2021				5.48		
3/17/2021				5.57	6.86	
3/18/2021	6.43	4.54	6.95			4.27
8/18/2021	6.43					4.42
8/19/2021		4.43	6.85	6.05	6.72	
2/8/2022	6.42	4.59	7.09	5.37		4.42
2/10/2022					6.87	
8/10/2022	6.29	4.41				4.36
8/11/2022			6.96	5.3	6.57	
1/27/2023			7.31			5.61
1/30/2023	6.44			5.47		
2/1/2023		4.66			6.69	

Time Series

Constituent: Field pH (s.u.) Analysis Run 5/16/2023 2:06 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-2

	MW-34D	MW-35	MW-37D	MW-51
6/17/2020	7.35	5.46	7.78	
9/21/2020		5.4		
9/23/2020	7.05		7.62	
2/11/2021			7.42	
2/15/2021		4.82		
3/12/2021			7.5	
3/19/2021		4.89		
8/16/2021	7.05			
8/18/2021		4.89	7.52	6.19
2/8/2022		4.86	7.63	6.57
2/9/2022	7.21			
8/10/2022	7		7.47	
8/11/2022		4.86		6.37
1/30/2023	6.99		7.56	
2/1/2023		4.89		6.37

Time Series

Constituent: Fluoride (mg/L) Analysis Run 5/16/2023 2:06 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-4 (bg)	HGWA-42D (bg)	HGWA-43D (bg)
5/19/2016	0.105 (J)	0.0303 (J)	0.0513 (J)	0.036 (J)		
7/11/2016	0.16 (J)	0.05 (J)		0.09 (J)		
7/12/2016			0.12 (J)			
8/30/2016	0.09 (J)	0.06 (J)	0.09 (J)	0.06 (J)		
10/19/2016	0.1 (J)	0.04 (J)	0.1 (J)	0.07 (J)		
12/6/2016	0.11 (J)	0.36	0.21 (J)	0.07 (J)		
1/24/2017	0.09 (J)	<0.1	0.06 (J)	<0.1		
3/21/2017	0.13 (J)	<0.1	0.005 (J)	<0.1		
5/22/2017	0.12 (J)	<0.1	0.05 (J)			
5/23/2017				0.01 (J)		
10/3/2017	0.13 (J)	<0.1	0.13 (J)	<0.1		
4/2/2018	<0.3	<0.1		<0.1		
4/3/2018			<0.1			
6/4/2018	0.074 (J)	<0.1	<0.1	0.097 (J)		
10/1/2018	<0.3	<0.1	<0.1	<0.1		
3/11/2019				0.035 (J)		
3/12/2019	0.29 (J)	0.038 (J)	0.072 (J)			
4/1/2019			0.029 (J)			
4/2/2019	0.1 (J)	0.071 (J)		<0.1		
9/23/2019	0.078 (J)	<0.1	<0.1			
9/24/2019				<0.1		
3/2/2020	0.076 (J)	<0.1	<0.1	<0.1		
3/25/2020	0.098 (J)	<0.1	<0.1			
3/26/2020				<0.1		
9/15/2020	0.082 (J)	<0.1	<0.1	<0.1		
9/16/2020						0.22
9/17/2020				0.2		
11/10/2020						0.19
11/11/2020				0.1		
12/15/2020				0.11		0.21
1/19/2021						0.16
1/20/2021					0.082 (J)	
2/8/2021	0.078 (J)			<0.1	0.096 (J)	
2/9/2021		<0.1	0.074 (J)			0.19
3/10/2021	0.079 (J)			<0.1	0.11	
3/11/2021		0.1	<0.1			0.2
8/11/2021	0.058 (J)					0.15
8/12/2021		<0.1	<0.1	<0.1	0.079 (J)	
2/1/2022	0.064 (J)	<0.1	<0.1			0.19
2/7/2022				<0.1	0.085 (J)	
8/2/2022	0.09 (J)	0.053 (J)	0.067 (J)	0.076 (J)		0.22
8/9/2022					0.12	
1/23/2023			0.061 (J)	0.12	0.11	
1/24/2023	0.089 (J)	0.053 (J)				0.23

Time Series

Constituent: Fluoride (mg/L) Analysis Run 5/16/2023 2:06 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-44D (bg)	HGWA-5 (bg)	HGWA-6 (bg)	HGWC-14	HGWC-15	HGWC-16
5/19/2016		0.08 (J)				
5/20/2016			0.065 (J)			
5/23/2016				<0.1	<0.1	0.038 (J)
7/11/2016		0.09 (J)	0.13 (J)			
7/12/2016				0.2 (J)	0.09 (J)	0.26 (J)
8/30/2016		0.08 (J)	0.07 (J)			
9/1/2016				0.08 (J)	0.22 (J)	0.42
10/20/2016		0.1 (J)	0.06 (J)			
10/24/2016				0.04 (J)	0.07 (J)	
10/25/2016						0.25 (J)
12/7/2016				0.11 (J)	0.23 (J)	0.23 (J)
12/8/2016		0.08 (J)	0.06 (J)			
1/24/2017		0.09 (J)	0.02 (J)			
1/26/2017				0.13 (J)	<0.1	0.02 (J)
3/21/2017		0.04 (J)	0.08 (J)			
3/22/2017						0.3
3/23/2017				0.28 (J)	0.12 (J)	
5/23/2017		0.04 (J)	0.006 (J)			
5/24/2017				0.32	0.31	0.46
10/3/2017		0.06 (J)	<0.1			
10/4/2017				0.52	0.6	<0.1
4/3/2018		<0.1	<0.1		<0.1	<0.1
4/4/2018				<0.1		
6/5/2018		0.083 (J)	0.055 (J)			
6/6/2018				0.25 (J)	0.17 (J)	<0.1
10/2/2018		<0.1	0.076 (J)			
10/3/2018				0.21 (J)	<0.1	<0.1
3/12/2019		0.079 (J)	0.061 (J)			
3/14/2019				0.24 (J)	<0.1	
3/15/2019						<0.1
4/2/2019		0.12 (J)	<0.1			
4/4/2019					0.066 (J)	<0.1
4/5/2019				0.66		
9/24/2019		0.058 (J)	<0.1	0.053 (J)	0.12 (J)	
9/25/2019						<0.1
3/2/2020		0.053 (J)	<0.1			
3/3/2020				<0.1	0.064 (J)	<0.1
3/25/2020			<0.1			
3/26/2020		0.066 (J)			<0.1	
3/30/2020				0.092 (J)		0.059 (J)
9/15/2020		0.061 (J)	<0.1			
9/16/2020	0.52					
9/17/2020					<0.1	<0.1
9/18/2020				<0.1		
11/10/2020	0.59					
12/15/2020	0.67					
1/19/2021	0.74					
2/9/2021	0.44	0.053 (J)	<0.1			
2/10/2021						0.21
2/11/2021				0.059 (J)		
2/12/2021					0.053 (J)	
3/10/2021	0.65					

Time Series

Constituent: Fluoride (mg/L) Analysis Run 5/16/2023 2:06 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-44D (bg)	HGWA-5 (bg)	HGWA-6 (bg)	HGWC-14	HGWC-15	HGWC-16
3/11/2021		0.06 (J)	0.17			
3/16/2021					<0.1	
3/17/2021				0.076 (J)		<0.1
8/12/2021		<0.1	<0.1			
8/13/2021	0.87					
8/18/2021				<0.1		
8/19/2021					<0.1	<0.1
2/1/2022	0.96					
2/7/2022		<0.1	<0.1			
2/8/2022					<0.1	<0.1
2/9/2022				0.053 (J)		
8/2/2022	0.8					
8/10/2022		0.078 (J)	0.067 (J)			0.054 (J)
8/11/2022				0.085 (J)	0.097 (J)	
1/24/2023	1.3					
1/27/2023		0.088 (J)	0.067 (J)			
2/1/2023				0.094 (J)	0.086 (J)	0.053 (J)

Time Series

Constituent: Fluoride (mg/L) Analysis Run 5/16/2023 2:06 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-17	HGWC-18	MW-21D	MW-22	MW-23D	MW-33
5/23/2016	<0.3					
5/24/2016		<0.3				
7/12/2016	0.09 (J)	0.54				
9/1/2016	0.03 (J)	0.49				
10/25/2016	0.07 (J)	0.58				
12/7/2016	0.54					
12/8/2016		0.63				
1/26/2017	<0.3	0.71				
3/22/2017	0.07 (J)					
3/23/2017		0.57				
5/25/2017	0.42	0.54				
10/4/2017	0.93	0.95				
4/3/2018	<0.3	0.33				
6/5/2018		0.66				
6/6/2018	0.23 (J)					
10/3/2018	<0.3	0.32				
3/14/2019		0.88			<0.1	
3/15/2019	<0.3		<0.1	<0.1		
4/4/2019			0.1 (J)			
4/5/2019	0.16 (J)	0.37		0.13 (J)	0.14 (J)	
9/25/2019	0.081 (J)	0.73	<0.1			
9/26/2019					0.16 (J)	
9/27/2019				0.28 (J)		
1/22/2020						0.18 (J)
3/2/2020				<0.1	<0.1	
3/3/2020	<0.3	0.34	<0.1			
3/27/2020				<0.1		
3/31/2020	<0.3	0.45				
4/1/2020			<0.1		<0.1	0.15 (J)
6/17/2020			<0.1			0.25
9/15/2020		0.31				
9/16/2020	0.058 (J)					
9/17/2020				<0.1	<0.1	
9/21/2020			<0.1			0.14
2/11/2021	0.058 (J)	0.71	<0.1			
2/12/2021					<0.1	0.25
2/15/2021				<0.1		
3/17/2021				<0.1	<0.1	
3/18/2021	0.057 (J)	0.64	<0.1			0.4
8/18/2021	0.062 (J)					0.16
8/19/2021		0.31	<0.1	<0.1	<0.1	
2/8/2022	0.055 (J)	0.19	<0.1	<0.1		0.14
2/10/2022					<0.1	
8/10/2022	0.086 (J)	0.3				0.21
8/11/2022			0.056 (J)	0.063 (J)	0.06 (J)	
1/27/2023			0.05 (J)			0.087 (J)
1/30/2023	0.097 (J)			0.064 (J)		
2/1/2023		0.21			0.074 (J)	

Time Series

Constituent: Fluoride (mg/L) Analysis Run 5/16/2023 2:06 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-2

	MW-34D	MW-35	MW-37D	MW-51
6/18/2020	0.082 (J)	0.053 (J)	0.1	
9/21/2020		<0.1		
9/23/2020	<0.1		0.065 (J)	
2/11/2021			0.077 (J)	
2/15/2021		0.093 (J)		
3/12/2021			0.061 (J)	
3/19/2021		0.082 (J)		
8/16/2021	0.066 (J)			
8/18/2021		0.052 (J)	0.05 (J)	0.072 (J)
2/8/2022		0.065 (J)	0.055 (J)	0.078 (J)
2/9/2022	0.051 (J)			
8/10/2022	0.081 (J)		0.084 (J)	
8/11/2022		0.088 (J)		0.11
1/30/2023	0.089 (J)		0.092 (J)	
2/1/2023		0.1		0.18

Time Series

Constituent: Lead (mg/L) Analysis Run 5/16/2023 2:06 PM View: Time Series & Box Plot
 Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-4 (bg)	HGWA-42D (bg)	HGWA-43D (bg)
5/19/2016	<0.001	<0.001	<0.001	<0.001		
7/11/2016	<0.001	<0.001		<0.001		
7/12/2016			0.0001 (J)			
8/30/2016	<0.001	<0.001	<0.001	<0.001		
10/19/2016	<0.001	<0.001	<0.001	<0.001		
12/6/2016	<0.001	<0.001	<0.001	0.0002 (J)		
1/24/2017	<0.001	<0.001	<0.001	<0.001		
3/21/2017	<0.001	6E-05 (J)	0.0001 (J)	<0.001		
5/22/2017	<0.001	9E-05 (J)	<0.001			
5/23/2017				<0.001		
4/2/2018	<0.001	<0.001		<0.001		
4/3/2018			<0.001			
3/11/2019				<0.001		
3/12/2019	<0.001	<0.001	<0.001			
4/1/2019			<0.001			
4/2/2019	<0.001	<0.001		<0.001		
9/23/2019	7.8E-05 (J)	9.2E-05 (J)	<0.001			
9/24/2019				<0.001		
3/2/2020	4.8E-05 (J)	9.5E-05 (J)	<0.001	0.00026 (J)		
3/25/2020	<0.001	0.00011 (J)	<0.001			
3/26/2020				5.9E-05 (J)		
9/15/2020	<0.001	8E-05 (J)	4.2E-05 (J)	4.9E-05 (J)		
9/16/2020						5E-05 (J)
9/17/2020				6.2E-05 (J)		
11/10/2020						6.9E-05 (J)
11/11/2020				8.4E-05 (J)		
12/15/2020				0.00045 (J)		8.2E-05 (J)
1/19/2021						4.4E-05 (J)
1/20/2021				<0.001		
2/8/2021	5.8E-05 (J)			0.00024 (J)	8.1E-05 (J)	
2/9/2021		9.4E-05 (J)	<0.001			0.00029 (J)
3/10/2021	<0.001			0.00016 (J)	<0.001	
3/11/2021		7.6E-05 (J)	<0.001			9.4E-05 (J)
8/11/2021	<0.001					<0.001
8/12/2021		<0.001	<0.001	<0.001	<0.001	
2/1/2022	<0.001	<0.001	<0.001			<0.001
2/7/2022				<0.001	<0.001	
8/2/2022	<0.001	<0.001	<0.001	<0.001		<0.001
8/9/2022					<0.001	
1/23/2023			<0.001	<0.001	<0.001	
1/24/2023	<0.001	<0.001				<0.001

Time Series

Constituent: Lead (mg/L) Analysis Run 5/16/2023 2:06 PM View: Time Series & Box Plot
 Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-44D (bg)	HGWA-5 (bg)	HGWA-6 (bg)	HGWC-14	HGWC-15	HGWC-16
5/19/2016		<0.001				
5/20/2016			<0.001			
5/23/2016				0.00182 (J)	<0.001	<0.001
7/11/2016		<0.001	<0.001			
7/12/2016				0.0015 (J)	<0.001	<0.001
8/30/2016		<0.001	<0.001			
9/1/2016				0.0016 (J)	<0.001	<0.001
10/20/2016		0.0002 (J)	<0.001			
10/24/2016				0.0016 (J)	<0.001	
10/25/2016						<0.001
12/7/2016				0.0018 (J)	<0.001	<0.001
12/8/2016		<0.001	<0.001			
1/24/2017		<0.001	<0.001			
1/26/2017				0.002 (J)	<0.001	0.0001 (J)
3/21/2017		<0.001	<0.001			
3/22/2017						0.0002 (J)
3/23/2017				0.0019 (J)	0.001 (J)	
5/23/2017		9E-05 (J)	0.0003 (J)			
5/24/2017				0.0016 (J)	0.0001 (J)	0.0001 (J)
4/3/2018		<0.001	<0.001		<0.001	<0.001
4/4/2018				<0.001		
3/12/2019		<0.001	<0.001			
3/14/2019				0.0014 (J)	<0.001	
3/15/2019						<0.001
4/2/2019		<0.001	<0.001			
4/4/2019					7.2E-05 (J)	0.00016 (J)
4/5/2019				0.0012 (J)		
9/24/2019		<0.001	7.1E-05 (J)	0.0013 (J)	0.0002 (J)	
9/25/2019						<0.001
3/2/2020		<0.001	<0.001			
3/3/2020				0.0017 (J)	5.3E-05 (J)	0.00016 (J)
3/25/2020			<0.001			
3/26/2020		<0.001			<0.001	
3/30/2020				0.0015 (J)		7.3E-05 (J)
9/15/2020		<0.001	<0.001			
9/16/2020	0.00021 (J)					
9/17/2020					<0.001	7.8E-05 (J)
9/18/2020				0.0012 (J)		
11/10/2020	0.0002 (J)					
12/15/2020	0.00011 (J)					
1/19/2021	0.00019 (J)					
2/9/2021	0.0001 (J)	<0.001	<0.001			
2/10/2021						9.4E-05 (J)
2/11/2021				0.0015 (J)		
2/12/2021					<0.001	
3/10/2021	<0.001					
3/11/2021		<0.001	<0.001			
3/16/2021					<0.001	
3/17/2021				0.0019		5.8E-05 (J)
8/12/2021		<0.001	<0.001			
8/13/2021	<0.001					
8/18/2021				0.0015		

Time Series

Constituent: Lead (mg/L) Analysis Run 5/16/2023 2:06 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-44D (bg)	HGWA-5 (bg)	HGWA-6 (bg)	HGWC-14	HGWC-15	HGWC-16
8/19/2021					<0.001	<0.001
2/1/2022	<0.001					
2/7/2022		<0.001	<0.001			
2/8/2022					<0.001	<0.001
2/9/2022				0.0014		
8/2/2022	<0.001					
8/10/2022		<0.001	<0.001			<0.001
8/11/2022				<0.001	<0.001	
1/24/2023	<0.001					
1/27/2023		<0.001	<0.001			
2/1/2023				0.0011	<0.001	<0.001

Time Series

Constituent: Lead (mg/L) Analysis Run 5/16/2023 2:06 PM View: Time Series & Box Plot
 Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-17	HGWC-18	MW-21D	MW-22	MW-23D	MW-33
5/23/2016	<0.001					
5/24/2016		0.00154 (J)				
7/12/2016	<0.001	0.0012 (J)				
9/1/2016	<0.001	0.0014 (J)				
10/25/2016	<0.001	0.0015 (J)				
12/7/2016	<0.001					
12/8/2016		0.0017 (J)				
1/26/2017	<0.001	0.0013 (J)				
3/22/2017	0.0001 (J)					
3/23/2017		0.001 (J)				
5/25/2017	<0.001	0.0012 (J)				
4/3/2018	<0.001	<0.001				
3/14/2019		0.0015 (J)			<0.001	
3/15/2019	<0.001		<0.001	<0.001		
4/4/2019			<0.001			
4/5/2019	7.6E-05 (J)	0.0015 (J)		<0.001	<0.001	
9/25/2019	8.9E-05 (J)	0.0015 (J)	<0.001			
9/26/2019					<0.001	
9/27/2019				0.0001 (J)		
3/2/2020				9.4E-05 (J)	5.1E-05 (J)	
3/3/2020	0.00013 (J)	0.0013 (J)	4.7E-05 (J)			
3/27/2020				<0.001		
3/31/2020	7.7E-05 (J)	0.0014 (J)				
4/1/2020			4.8E-05 (J)		<0.001	0.0017 (J)
6/17/2020			<0.001			0.0017 (J)
9/15/2020		0.0014 (J)				
9/16/2020	6.5E-05 (J)					
9/17/2020				<0.001	0.00016 (J)	
9/21/2020			<0.001			0.0017 (J)
2/11/2021	0.00018 (J)	0.00098 (J)	0.00066 (J)			
2/12/2021					<0.001	0.0018 (J)
2/15/2021				3.6E-05 (J)		
3/17/2021				<0.001	<0.001	
3/18/2021	8.8E-05 (J)	0.00096 (J)	7.3E-05 (J)			0.0017
8/18/2021	<0.001					0.0016
8/19/2021		0.0013	<0.001	<0.001	<0.001	
2/8/2022	<0.001	0.0009 (J)	<0.001	<0.001		0.0014
2/10/2022					<0.001	
8/10/2022	<0.001	0.0011				<0.001
8/11/2022			<0.001	<0.001	<0.001	
1/27/2023			<0.001			<0.001
1/30/2023	<0.001			<0.001		
2/1/2023		<0.001			<0.001	

Time Series

Constituent: Lead (mg/L) Analysis Run 5/16/2023 2:06 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-2

	MW-34D	MW-35	MW-37D	MW-51
6/18/2020	0.00087 (J)	0.00016 (J)	0.0017 (J)	
9/21/2020		0.00099 (J)		
9/23/2020	<0.001		8.2E-05 (J)	
2/11/2021			0.00039 (J)	
2/15/2021		0.00055 (J)		
3/12/2021			<0.001	
3/19/2021		0.00066 (J)		
8/16/2021	<0.001			
8/18/2021		<0.001	<0.001	<0.001
2/8/2022		<0.001	<0.001	<0.001
2/9/2022	<0.001			
8/10/2022	<0.001		<0.001	
8/11/2022		<0.001		<0.001
1/30/2023	<0.001		<0.001	
2/1/2023		<0.001		<0.001

Time Series

Constituent: Lithium (mg/L) Analysis Run 5/16/2023 2:06 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-4 (bg)	HGWA-42D (bg)	HGWA-43D (bg)
5/19/2016	<0.03	<0.03	<0.03	<0.03		
7/11/2016	<0.03	0.0014 (J)		0.0015 (J)		
7/12/2016			0.0024 (J)			
8/30/2016	<0.03	<0.03	0.0025 (J)	0.0027 (J)		
10/19/2016	<0.03	<0.03	0.003 (J)	0.0042 (J)		
12/6/2016	<0.03	<0.03	0.0033 (J)	0.0046 (J)		
1/24/2017	<0.03	<0.03	0.003 (J)	<0.03		
3/21/2017	<0.03	0.0012 (J)	0.0034 (J)	<0.03		
5/22/2017	<0.03	<0.03	0.003 (J)			
5/23/2017				<0.03		
4/2/2018	<0.03	0.0015 (J)		<0.03		
4/3/2018			0.003 (J)			
6/4/2018	0.001 (J)	0.0016 (J)	0.0027 (J)	0.00097 (J)		
10/1/2018	0.00099 (J)	0.0013 (J)	0.0032 (J)	<0.03		
3/11/2019				<0.03		
3/12/2019	0.001 (J)	0.0018 (J)	0.0032 (J)			
4/1/2019			0.0032 (J)			
4/2/2019	0.001 (J)	0.0018 (J)		0.00098 (J)		
9/23/2019	0.0011 (J)	0.0016 (J)	0.0029 (J)			
9/24/2019				<0.03		
3/2/2020	0.0012 (J)	0.0017 (J)	0.0037 (J)	0.0012 (J)		
3/25/2020	0.00083 (J)	0.0017 (J)	0.0035 (J)			
3/26/2020				0.00095 (J)		
9/15/2020	0.00087 (J)	0.0015 (J)	0.0026 (J)	<0.03		
9/16/2020						0.0018 (J)
9/17/2020				0.0039 (J)		
11/10/2020						0.0013 (J)
11/11/2020				0.0086 (J)		
12/15/2020				0.008 (J)		0.0019 (J)
1/19/2021						0.0025 (J)
1/20/2021				0.01 (J)		
2/8/2021	0.00086 (J)			0.0013 (J)	0.0098 (J)	
2/9/2021		0.0012 (J)	0.0032 (J)			0.0026 (J)
3/10/2021	0.0009 (J)			0.0011 (J)	0.0094 (J)	
3/11/2021		0.0011 (J)	0.0035 (J)			0.0022 (J)
8/11/2021	0.00078 (J)					0.0024 (J)
8/12/2021		0.0012 (J)	0.0028 (J)	0.0013 (J)	0.0096 (J)	
2/1/2022	0.0011 (J)	0.0017 (J)	0.0037 (J)			0.0024 (J)
2/7/2022				0.0013 (J)	0.0097 (J)	
8/2/2022	<0.03	0.0013 (J)	0.003 (J)	0.0011 (J)		0.0019 (J)
8/9/2022					0.011 (J)	
1/23/2023			0.003 (J)	<0.03	0.0097 (J)	
1/24/2023	0.00092 (J)	0.0014 (J)				0.002 (J)

Time Series

Constituent: Lithium (mg/L) Analysis Run 5/16/2023 2:06 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-44D (bg)	HGWA-5 (bg)	HGWA-6 (bg)	HGWC-14	HGWC-15	HGWC-16
5/19/2016		<0.03				
5/20/2016			<0.03			
5/23/2016				<0.03	<0.03	<0.03
7/11/2016		0.0034 (J)	0.01 (J)			
7/12/2016				<0.03	<0.03	0.0037 (J)
8/30/2016		0.003 (J)	0.0095 (J)			
9/1/2016				<0.03	0.0021 (J)	0.0033 (J)
10/20/2016		0.0031 (J)	0.0105 (J)			
10/24/2016				<0.03	<0.03	
10/25/2016						0.0029 (J)
12/7/2016				<0.03	<0.03	0.0029 (J)
12/8/2016		0.0027 (J)	0.01 (J)			
1/24/2017		0.0028 (J)	0.0108 (J)			
1/26/2017				<0.03	<0.03	0.0028 (J)
3/21/2017		0.0037 (J)	0.0115 (J)			
3/22/2017						0.0025 (J)
3/23/2017				<0.03	0.0016 (J)	
5/23/2017		0.0033 (J)	0.011 (J)			
5/24/2017				<0.03	0.0029 (J)	0.0029 (J)
4/3/2018		0.0033 (J)	0.012 (J)		0.0026 (J)	0.0028 (J)
4/4/2018				<0.03		
6/5/2018		0.0034 (J)	0.011 (J)			
6/6/2018				<0.03	0.0013 (J)	0.0031 (J)
10/2/2018		0.0035 (J)	0.01 (J)			
10/3/2018				<0.03	0.0017 (J)	0.0026 (J)
3/12/2019		0.0032 (J)	0.011 (J)			
3/14/2019				<0.03	<0.03	
3/15/2019						0.0041 (J)
4/2/2019		0.0028 (J)	0.0095 (J)			
4/4/2019					0.0009 (J)	0.0032 (J)
4/5/2019				<0.03		
9/24/2019		0.0035 (J)	0.011 (J)	<0.03	0.0012 (J)	
9/25/2019						0.0038 (J)
3/2/2020		0.0036 (J)	0.012			
3/3/2020				<0.03	0.0084 (J)	0.0047 (J)
3/25/2020			0.011 (J)			
3/26/2020		0.0029 (J)			0.0061 (J)	
3/30/2020				<0.03		0.0041 (J)
9/15/2020		0.003 (J)	0.0095 (J)			
9/16/2020	0.014 (J)					
9/17/2020					0.0094 (J)	0.0043 (J)
9/18/2020				<0.03		
11/10/2020	0.025 (J)					
12/15/2020	0.028 (J)					
1/19/2021	0.034					
2/9/2021	0.026 (J)	0.003 (J)	0.01 (J)			
2/10/2021						0.0038 (J)
2/11/2021				<0.03		
2/12/2021					0.036	
3/10/2021	0.03					
3/11/2021		0.0037 (J)	0.012 (J)			
3/16/2021					0.032	

Time Series

Constituent: Lithium (mg/L) Analysis Run 5/16/2023 2:06 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-44D (bg)	HGWA-5 (bg)	HGWA-6 (bg)	HGWC-14	HGWC-15	HGWC-16
3/17/2021				<0.03		0.0048 (J)
8/12/2021		0.0032 (J)	0.0094 (J)			
8/13/2021	0.032					
8/18/2021				<0.03		
8/19/2021					0.0058 (J)	0.0042 (J)
2/1/2022	0.048					
2/7/2022		0.0029 (J)	0.0097 (J)			
2/8/2022					0.014 (J)	0.0034 (J)
2/9/2022				<0.03		
8/2/2022	0.041					
8/11/2022				<0.03	0.0025 (J)	
1/24/2023	0.064					
1/27/2023		0.003 (J)	0.0096 (J)			
2/1/2023				<0.03	0.016 (J)	0.0036 (J)

Time Series

Constituent: Lithium (mg/L) Analysis Run 5/16/2023 2:06 PM View: Time Series & Box Plot
 Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-17	HGWC-18	MW-21D	MW-22	MW-23D	MW-33
5/23/2016	<0.03					
5/24/2016		0.0142 (J)				
7/12/2016	<0.03	0.0141 (J)				
9/1/2016	<0.03	0.0158 (J)				
10/25/2016	<0.03	0.016 (J)				
12/7/2016	<0.03					
12/8/2016		0.0144 (J)				
1/26/2017	<0.03	0.0136 (J)				
3/22/2017	<0.03					
3/23/2017		0.0151 (J)				
5/25/2017	0.0011 (J)	0.0154 (J)				
4/3/2018	<0.03	0.013 (J)				
6/5/2018		0.013 (J)				
6/6/2018	<0.03					
10/3/2018	<0.03	0.015 (J)				
3/14/2019		0.011 (J)			0.0028 (J)	
3/15/2019	0.0011 (J)		0.025 (J)	0.002 (J)		
4/4/2019			0.019 (J)			
4/5/2019	0.00074 (J)	0.0084 (J)		0.0013 (J)	0.0021 (J)	
9/25/2019	0.0011 (J)	0.015 (J)	0.024 (J)			
9/26/2019					0.0023 (J)	
9/27/2019				0.0013 (J)		
3/2/2020				0.0015 (J)	0.0025 (J)	
3/3/2020	0.0012 (J)	0.012 (J)	0.026 (J)			
3/27/2020				0.0013 (J)		
3/31/2020	0.0009 (J)	0.012 (J)				
4/1/2020			0.026 (J)		0.0024 (J)	0.0011 (J)
6/17/2020			0.023 (J)			0.00097 (J)
9/15/2020		0.014 (J)				
9/16/2020	0.0012 (J)					
9/17/2020				0.0011 (J)	0.0021 (J)	
9/21/2020			0.022 (J)			0.00086 (J)
2/11/2021	0.0013 (J)	0.011 (J)	0.021 (J)			
2/12/2021					0.0023 (J)	0.0011 (J)
2/15/2021				0.0011 (J)		
3/17/2021				0.0012 (J)	0.0024 (J)	
3/18/2021	0.0014 (J)	0.013 (J)	0.026 (J)			0.0012 (J)
8/18/2021	0.0012 (J)					0.00097 (J)
8/19/2021		0.013 (J)	0.022 (J)	0.0012 (J)	0.0022 (J)	
2/8/2022	0.0014 (J)	0.01 (J)	0.022 (J)	0.0011 (J)		0.001 (J)
2/10/2022					0.0029 (J)	
8/11/2022			0.022 (J)	0.0011 (J)	0.002 (J)	
1/27/2023			0.018 (J)			<0.03
1/30/2023	0.0014 (J)			0.0011 (J)		
2/1/2023		0.0093 (J)			0.0019 (J)	

Time Series

Constituent: Lithium (mg/L) Analysis Run 5/16/2023 2:06 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-2

	MW-34D	MW-35	MW-37D	MW-51
6/18/2020	0.0021 (J)	0.0046 (J)	0.038 (J)	
9/21/2020		0.0036 (J)		
9/23/2020	0.0011 (J)		0.031	
2/11/2021			0.034	
2/15/2021		0.0043 (J)		
3/12/2021			0.035	
3/19/2021		0.0045 (J)		
8/16/2021	0.001 (J)			
8/18/2021		0.0036 (J)	0.03	0.0022 (J)
2/8/2022		0.0039 (J)	0.029 (J)	0.001 (J)
2/9/2022	0.0022 (J)			
8/11/2022		<0.03		0.0014 (J)
1/30/2023	0.0013 (J)		0.021 (J)	
2/1/2023		0.0034 (J)		0.0015 (J)

Time Series

Constituent: Mercury (mg/L) Analysis Run 5/16/2023 2:06 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-4 (bg)	HGWA-42D (bg)	HGWA-43D (bg)
5/19/2016	<0.0002	<0.0002	<0.0002	<0.0002		
7/11/2016	<0.0002	<0.0002		<0.0002		
7/12/2016			<0.0002			
8/30/2016	4E-05 (J)	4E-05 (J)	<0.0002	5E-05 (J)		
10/19/2016	<0.0002	<0.0002	<0.0002	<0.0002		
12/6/2016	<0.0002	<0.0002	<0.0002	5E-05 (J)		
1/24/2017	<0.0002	<0.0002	<0.0002	0.0001 (J)		
3/21/2017	<0.0002	<0.0002	<0.0002	0.00016 (J)		
5/22/2017	<0.0002	<0.0002	<0.0002			
5/23/2017				5E-05 (J)		
4/2/2018	<0.0002	<0.0002		<0.0002		
4/3/2018			<0.0002			
3/11/2019				<0.0002		
3/12/2019	<0.0002	<0.0002	<0.0002			
3/2/2020	<0.0002	<0.0002	<0.0002	<0.0002		
9/16/2020						<0.0002
9/17/2020					<0.0002	
11/10/2020						<0.0002
11/11/2020					<0.0002	
12/15/2020					<0.0002	<0.0002
1/19/2021						<0.0002
1/20/2021					<0.0002	
2/8/2021	<0.0002			<0.0002	<0.0002	
2/9/2021		<0.0002	<0.0002			<0.0002
2/1/2022	<0.0002	<0.0002	<0.0002			<0.0002
2/7/2022				<0.0002	<0.0002	
8/2/2022	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002
8/9/2022					<0.0002	
1/23/2023			<0.0002	<0.0002	<0.0002	
1/24/2023	<0.0002	<0.0002				<0.0002

Time Series

Constituent: Mercury (mg/L) Analysis Run 5/16/2023 2:06 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-44D (bg)	HGWA-5 (bg)	HGWA-6 (bg)	HGWC-14	HGWC-15	HGWC-16
5/19/2016		<0.0002				
5/20/2016			<0.0002			
5/23/2016				<0.0002	<0.0002	<0.0002
7/11/2016		<0.0002	<0.0002			
7/12/2016				<0.0002	<0.0002	<0.0002
8/30/2016		<0.0002	4.4E-05 (J)			
9/1/2016				<0.0002	<0.0002	<0.0002
10/20/2016		<0.0002	<0.0002			
10/24/2016				<0.0002	<0.0002	
10/25/2016						<0.0002
12/7/2016				<0.0002	<0.0002	<0.0002
12/8/2016		<0.0002	<0.0002			
1/24/2017		<0.0002	<0.0002			
1/26/2017				<0.0002	<0.0002	<0.0002
3/21/2017		<0.0002	<0.0002			
3/22/2017						<0.0002
3/23/2017				<0.0002	<0.0002	
5/23/2017		<0.0002	<0.0002			
5/24/2017				<0.0002	<0.0002	<0.0002
4/3/2018		<0.0002	<0.0002		<0.0002	<0.0002
4/4/2018				<0.0002		
3/12/2019		<0.0002	<0.0002			
3/14/2019				<0.0002	<0.0002	
3/15/2019						<0.0002
3/2/2020		<0.0002	<0.0002			
3/3/2020				<0.0002	<0.0002	<0.0002
9/16/2020	<0.0002					
11/10/2020	<0.0002					
12/15/2020	<0.0002					
1/19/2021	<0.0002					
2/9/2021	<0.0002	<0.0002	<0.0002			
2/10/2021						<0.0002
2/11/2021				<0.0002		
2/12/2021					<0.0002	
2/1/2022	<0.0002					
2/7/2022		<0.0002	<0.0002			
2/8/2022					<0.0002	<0.0002
2/9/2022				<0.0002		
8/2/2022	<0.0002					
8/11/2022				<0.0002	<0.0002	
1/24/2023	<0.0002					
1/27/2023		<0.0002	<0.0002			
2/1/2023				<0.0002	<0.0002	<0.0002

Time Series

Constituent: Mercury (mg/L) Analysis Run 5/16/2023 2:06 PM View: Time Series & Box Plot
 Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-17	HGWC-18	MW-21D	MW-22	MW-23D	MW-33
5/23/2016	<0.0002					
5/24/2016		<0.0002				
7/12/2016	<0.0002	<0.0002				
9/1/2016	<0.0002	6E-05 (J)				
10/25/2016	<0.0002	4E-05 (J)				
12/7/2016	<0.0002					
12/8/2016		<0.0002				
1/26/2017	<0.0002	8E-05 (J)				
3/22/2017	<0.0002					
3/23/2017		9E-05 (J)				
5/25/2017	<0.0002	8E-05 (J)				
4/3/2018	<0.0002	<0.0002				
3/14/2019		<0.0002			<0.0002	
3/15/2019	<0.0002		<0.0002	<0.0002		
3/2/2020				<0.0002	<0.0002	
3/3/2020	<0.0002	<0.0002	<0.0002			
2/11/2021	<0.0002	<0.0002	<0.0002			
2/12/2021					<0.0002	<0.0002
2/15/2021				<0.0002		
2/8/2022	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002
2/10/2022					<0.0002	
8/11/2022			<0.0002	0.00016 (J)	0.00017 (J)	
1/27/2023			<0.0002			<0.0002
1/30/2023	<0.0002			<0.0002		
2/1/2023		<0.0002			<0.0002	

Time Series

Constituent: Mercury (mg/L) Analysis Run 5/16/2023 2:06 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-2

	MW-34D	MW-35	MW-37D	MW-51
2/11/2021			<0.0002	
2/15/2021		<0.0005		
2/8/2022		0.00014 (J)	<0.0002	<0.0002
2/9/2022	<0.0002			
8/11/2022		0.00014 (J)		0.00013 (J)
1/30/2023	<0.0002		<0.0002	
2/1/2023		0.00084		<0.0002

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/16/2023 2:06 PM View: Time Series & Box Plot
 Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-4 (bg)	HGWA-42D (bg)	HGWA-43D (bg)
5/19/2016	<0.01	<0.01	<0.01	<0.01		
7/11/2016	<0.01	<0.01		<0.01		
7/12/2016			<0.01			
8/30/2016	<0.01	<0.01	<0.01	<0.01		
10/19/2016	<0.01	<0.01	<0.01	<0.01		
12/6/2016	<0.01	<0.01	<0.01	<0.01		
1/24/2017	<0.01	<0.01	<0.01	<0.01		
3/21/2017	<0.01	<0.01	<0.01	<0.01		
5/22/2017	<0.01	<0.01	<0.01			
5/23/2017				<0.01		
4/2/2018	<0.01	<0.01		<0.01		
4/3/2018			<0.01			
3/11/2019				<0.01		
3/12/2019	<0.01	<0.01	<0.01			
4/1/2019			<0.01			
4/2/2019	<0.01	<0.01		<0.01		
9/23/2019	<0.01	<0.01	<0.01			
9/24/2019				<0.01		
3/2/2020	<0.01	<0.01	<0.01	<0.01		
3/25/2020	<0.01	<0.01	<0.01			
3/26/2020				<0.01		
9/15/2020	<0.01	<0.01	<0.01	<0.01		
9/16/2020						0.0044 (J)
9/17/2020					0.0037 (J)	
11/10/2020						0.0072 (J)
11/11/2020					<0.01	
12/15/2020					0.00082 (J)	0.0044 (J)
1/19/2021						0.0038 (J)
1/20/2021					<0.01	
2/8/2021	<0.01			<0.01	<0.01	
2/9/2021		<0.01	<0.01			0.0045 (J)
3/10/2021	<0.01			<0.01	<0.01	
3/11/2021		<0.01	<0.01			0.0064 (J)
8/11/2021	<0.01					0.0034 (J)
8/12/2021		<0.01	<0.01	<0.01	<0.01	
2/1/2022	<0.01	<0.01	<0.01			0.0036 (J)
2/7/2022				<0.01	0.00099 (J)	
8/2/2022	<0.01	<0.01	<0.01	<0.01		0.0042 (J)
8/9/2022					<0.01	
1/23/2023			<0.01	<0.01	<0.01	
1/24/2023	<0.01	<0.01				0.0027 (J)

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/16/2023 2:06 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-44D (bg)	HGWA-5 (bg)	HGWA-6 (bg)	HGWC-14	HGWC-15	HGWC-16
5/19/2016		<0.01				
5/20/2016			<0.01			
5/23/2016				<0.01	<0.01	<0.01
7/11/2016		<0.01	0.0008 (J)			
7/12/2016				<0.01	0.0007 (J)	<0.01
8/30/2016		<0.01	<0.01			
9/1/2016				<0.01	<0.01	<0.01
10/20/2016		<0.01	<0.01			
10/24/2016				<0.01	<0.01	
10/25/2016						<0.01
12/7/2016				<0.01	<0.01	<0.01
12/8/2016		<0.01	<0.01			
1/24/2017		<0.01	<0.01			
1/26/2017				<0.01	<0.01	<0.01
3/21/2017		<0.01	0.0002 (J)			
3/22/2017						<0.01
3/23/2017				<0.01	<0.01	
5/23/2017		<0.01	<0.01			
5/24/2017				<0.01	<0.01	<0.01
4/3/2018		<0.01	<0.01		<0.01	<0.01
4/4/2018				<0.01		
3/12/2019		<0.01	<0.01			
3/14/2019				<0.01	<0.01	
3/15/2019						<0.01
4/2/2019		<0.01	<0.01			
4/4/2019					<0.01	<0.01
4/5/2019				<0.01		
9/24/2019		<0.01	<0.01	<0.01	<0.01	
9/25/2019						<0.01
3/2/2020		<0.01	<0.01			
3/3/2020				<0.01	<0.01	<0.01
3/25/2020			<0.01			
3/26/2020		<0.01			<0.01	
3/30/2020				<0.01		<0.01
9/15/2020		<0.01	<0.01			
9/16/2020	0.0019 (J)					
9/17/2020					<0.01	<0.01
9/18/2020				<0.01		
11/10/2020	0.0018 (J)					
12/15/2020	0.0019 (J)					
1/19/2021	0.0035 (J)					
2/9/2021	0.0038 (J)	<0.01	<0.01			
2/10/2021						<0.01
2/11/2021				<0.01		
2/12/2021					<0.01	
3/10/2021	0.0019 (J)					
3/11/2021		<0.01	<0.01			
3/16/2021					<0.01	
3/17/2021				<0.01		<0.01
8/12/2021		<0.01	<0.01			
8/13/2021	0.0051 (J)					
8/18/2021				<0.01		

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/16/2023 2:06 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-44D (bg)	HGWA-5 (bg)	HGWA-6 (bg)	HGWC-14	HGWC-15	HGWC-16
8/19/2021					<0.01	<0.01
2/1/2022	0.0055 (J)					
2/7/2022		<0.01	<0.01			
2/8/2022					<0.01	<0.01
2/9/2022				<0.01		
8/2/2022	0.002 (J)					
8/11/2022				<0.01	<0.01	
1/24/2023	0.0026 (J)					
1/27/2023		<0.01	<0.01			
2/1/2023				<0.01	<0.01	<0.01

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/16/2023 2:06 PM View: Time Series & Box Plot
 Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-17	HGWC-18	MW-21D	MW-22	MW-23D	MW-33
5/23/2016	<0.01					
5/24/2016		<0.01				
7/12/2016	<0.01	<0.01				
9/1/2016	<0.01	<0.01				
10/25/2016	<0.01	<0.01				
12/7/2016	<0.01					
12/8/2016		<0.01				
1/26/2017	<0.01	<0.01				
3/22/2017	<0.01					
3/23/2017		<0.01				
5/25/2017	<0.01	<0.01				
4/3/2018	<0.01	<0.01				
3/14/2019		<0.01			<0.01	
3/15/2019	<0.01		0.045	<0.01		
4/4/2019			0.033			
4/5/2019	<0.01	<0.01		0.00013 (J)	0.0014 (J)	
9/25/2019	<0.01	<0.01	0.038			
9/26/2019					0.0025 (J)	
9/27/2019				<0.01		
3/2/2020				<0.01	0.003 (J)	
3/3/2020	<0.01	<0.01	0.025			
3/27/2020				<0.01		
3/31/2020	<0.01	<0.01				
4/1/2020			0.024		0.0032 (J)	<0.01
6/17/2020			0.019			<0.01
9/15/2020		<0.01				
9/16/2020	<0.01					
9/17/2020				<0.01	0.0026 (J)	
9/21/2020			0.017			<0.01
2/11/2021	<0.01	<0.01	0.016			
2/12/2021					0.0039 (J)	<0.01
2/15/2021				<0.01		
3/17/2021				<0.01	0.0034 (J)	
3/18/2021	<0.01	<0.01	0.016			<0.01
8/18/2021	<0.01					<0.01
8/19/2021		<0.01	0.018	<0.01	0.0034 (J)	
2/8/2022	<0.01	<0.01	0.016	<0.01		<0.01
2/10/2022					0.0034 (J)	
8/11/2022			0.023	<0.01	0.0039 (J)	
1/27/2023			0.028			<0.01
1/30/2023	<0.01			<0.01		
2/1/2023		<0.01			0.0041 (J)	

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/16/2023 2:06 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-2

	MW-34D	MW-35	MW-37D	MW-51
6/18/2020	<0.01	<0.01	0.023	
9/21/2020		<0.01		
9/23/2020	<0.01		0.015	
2/11/2021			0.019	
2/15/2021		<0.01		
3/12/2021			0.014	
3/19/2021		<0.01		
8/16/2021	<0.01			
8/18/2021		<0.01	0.0083 (J)	<0.01
2/8/2022		<0.01	0.007 (J)	<0.01
2/9/2022	<0.01			
8/11/2022		<0.01		<0.01
1/30/2023	<0.01		0.0063 (J)	
2/1/2023		<0.01		<0.01

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/16/2023 2:06 PM View: Time Series & Box Plot
 Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-4 (bg)	HGWA-42D (bg)	HGWA-43D (bg)
5/19/2016	<0.005	<0.005	<0.005	<0.005		
7/11/2016	<0.005	<0.005		<0.005		
7/12/2016			<0.005			
8/30/2016	<0.005	<0.005	<0.005	<0.005		
10/19/2016	<0.005	<0.005	<0.005	<0.005		
12/6/2016	<0.005	<0.005	<0.005	<0.005		
1/24/2017	<0.005	<0.005	<0.005	<0.005		
3/21/2017	<0.005	<0.005	<0.005	<0.005		
5/22/2017	<0.005	<0.005	<0.005			
5/23/2017				<0.005		
4/2/2018	<0.005	<0.005		<0.005		
4/3/2018			<0.005			
6/4/2018	<0.005	<0.005	<0.005	<0.005		
10/1/2018	<0.005	<0.005	<0.005	<0.005		
3/11/2019				<0.005		
3/12/2019	<0.005	<0.005	<0.005			
4/1/2019			<0.005			
4/2/2019	<0.005	<0.005		<0.005		
9/23/2019	<0.005	<0.005	<0.005			
9/24/2019				<0.005		
3/2/2020	<0.005	<0.005	<0.005	<0.005		
3/25/2020	<0.005	<0.005	<0.005			
3/26/2020				<0.005		
9/15/2020	<0.005	<0.005	<0.005	<0.005		
9/16/2020						<0.005
9/17/2020				<0.005		
11/10/2020						<0.005
11/11/2020				<0.005		
12/15/2020				<0.005		<0.005
1/19/2021						<0.005
1/20/2021					<0.005	
2/8/2021	<0.005			<0.005	<0.005	
2/9/2021		<0.005	<0.005			<0.005
3/10/2021	0.0047 (J)			<0.005	<0.005	
3/11/2021		<0.005	<0.005			<0.005
8/11/2021	<0.005					<0.005
8/12/2021		<0.005	<0.005	<0.005	<0.005	
2/1/2022	<0.005	<0.005	<0.005			<0.005
2/7/2022				<0.005	<0.005	
8/2/2022	<0.005	0.0014 (J)	<0.005	<0.005		<0.005
8/9/2022					<0.005	
1/23/2023			<0.005	<0.005	<0.005	
1/24/2023	<0.005	<0.005				<0.005

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/16/2023 2:06 PM View: Time Series & Box Plot
 Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-44D (bg)	HGWA-5 (bg)	HGWA-6 (bg)	HGWC-14	HGWC-15	HGWC-16
5/19/2016		<0.005				
5/20/2016			<0.005			
5/23/2016				0.017	<0.005	<0.005
7/11/2016		<0.005	<0.005			
7/12/2016				0.0146	<0.005	<0.005
8/30/2016		<0.005	<0.005			
9/1/2016				0.0137	<0.005	<0.005
10/20/2016		<0.005	<0.005			
10/24/2016				0.0135	0.0012 (J)	
10/25/2016						<0.005
12/7/2016				0.01 (J)	0.0041 (J)	<0.005
12/8/2016		<0.005	<0.005			
1/24/2017		0.0011 (J)	<0.005			
1/26/2017				0.0214	<0.005	<0.005
3/21/2017		<0.005	<0.005			
3/22/2017						<0.005
3/23/2017				0.0167	0.0016 (J)	
5/23/2017		<0.005	<0.005			
5/24/2017				0.0083 (J)	<0.005	<0.005
4/3/2018		<0.005	<0.005		<0.005	<0.005
4/4/2018				0.012		
6/5/2018		<0.005	<0.005			
6/6/2018				0.014	<0.005	<0.005
10/2/2018		<0.005	<0.005			
10/3/2018				0.0056 (J)	<0.005	<0.005
3/12/2019		<0.005	<0.005			
3/14/2019				0.0048 (J)	<0.005	
3/15/2019						<0.005
4/2/2019		<0.005	<0.005			
4/4/2019					0.00021 (J)	8.9E-05 (J)
4/5/2019				0.00091 (J)		
9/24/2019		<0.005	<0.005	0.0064 (J)	<0.005	
9/25/2019						<0.005
3/2/2020		<0.005	<0.005			
3/3/2020				0.0045 (J)	<0.005	<0.005
3/25/2020			<0.005			
3/26/2020		<0.005			<0.005	
3/30/2020				0.0049 (J)		<0.005
9/15/2020		<0.005	<0.005			
9/16/2020	<0.005					
9/17/2020					<0.005	<0.005
9/18/2020				0.0045 (J)		
11/10/2020	<0.005					
12/15/2020	<0.005					
1/19/2021	<0.005					
2/9/2021	<0.005	<0.005	<0.005			
2/10/2021						<0.005
2/11/2021				0.0072 (J)		
2/12/2021					<0.005	
3/10/2021	<0.005					
3/11/2021		<0.005	<0.005			
3/16/2021					<0.005	

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/16/2023 2:06 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-44D (bg)	HGWA-5 (bg)	HGWA-6 (bg)	HGWC-14	HGWC-15	HGWC-16
3/17/2021				0.01 (J)		<0.005
8/12/2021		<0.005	<0.005			
8/13/2021	<0.005					
8/18/2021				0.0077		
8/19/2021					<0.005	<0.005
2/1/2022	<0.005					
2/7/2022		<0.005	<0.005			
2/8/2022					<0.005	<0.005
2/9/2022				0.0047 (J)		
8/2/2022	<0.005					
8/10/2022		<0.005	<0.005			<0.005
8/11/2022				0.0037 (J)	<0.005	
1/24/2023	<0.005					
1/27/2023		<0.005	<0.005			
2/1/2023				0.0036 (J)	<0.005	<0.005

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/16/2023 2:06 PM View: Time Series & Box Plot
 Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-17	HGWC-18	MW-21D	MW-22	MW-23D	MW-33
5/23/2016	<0.005					
5/24/2016		<0.2				
7/12/2016	<0.005	0.036				
9/1/2016	0.0014 (J)	0.0347				
10/25/2016	<0.005	0.0282				
12/7/2016	0.0023 (J)					
12/8/2016		0.0373				
1/26/2017	<0.005	0.0385				
3/22/2017	<0.005					
3/23/2017		0.0414				
5/25/2017	<0.005	0.019				
4/3/2018	<0.005	0.029				
6/5/2018		0.038				
6/6/2018	<0.005					
10/3/2018	<0.005	0.017				
3/14/2019		0.016			<0.005	
3/15/2019	<0.005		<0.005	<0.005		
4/4/2019			<0.005			
4/5/2019	9.3E-05 (J)	0.0018 (J)		<0.005	<0.005	
9/25/2019	<0.005	0.02	<0.005			
9/26/2019					<0.005	
9/27/2019				<0.005		
3/2/2020				<0.005	<0.005	
3/3/2020	<0.005	0.014	<0.005			
3/27/2020				<0.005		
3/31/2020	<0.005	0.019				
4/1/2020			<0.005		<0.005	0.011
6/17/2020			<0.005			0.014
9/15/2020		0.059				
9/16/2020	<0.005					
9/17/2020				0.002 (J)	<0.005	
9/21/2020			<0.005			0.041
2/11/2021	<0.005	0.023	<0.005			
2/12/2021					<0.005	0.011
2/15/2021				<0.005		
3/17/2021				<0.005	<0.005	
3/18/2021	<0.005	0.019 (J)	<0.005			0.028
8/18/2021	<0.005					0.014
8/19/2021		0.01	<0.005	<0.005	<0.005	
2/8/2022	<0.005	0.0082	<0.005	<0.005		0.0078
2/10/2022					<0.005	
8/10/2022	<0.005	0.0096				0.007 (J)
8/11/2022			<0.005	<0.005	<0.005	
1/27/2023			<0.005			0.015
1/30/2023	<0.005			<0.005		
2/1/2023		0.0054			<0.005	

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/16/2023 2:06 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-2

	MW-34D	MW-35	MW-37D	MW-51
6/18/2020	0.0025 (J)	0.014	<0.005	
9/21/2020		0.037		
9/23/2020	<0.005		<0.005	
2/11/2021			<0.005	
2/15/2021		0.01		
3/12/2021			<0.005	
3/19/2021		0.016 (J)		
8/16/2021	<0.005			
8/18/2021		0.014	<0.005	0.004 (J)
2/8/2022		0.0083	<0.005	<0.005
2/9/2022	<0.005			
8/10/2022	<0.005		<0.005	
8/11/2022		0.0089 (J)		0.0023 (J)
1/30/2023	0.0016 (J)		<0.005	
2/1/2023		0.0063		0.0021 (J)

Time Series

Constituent: Sulfate (mg/L) Analysis Run 5/16/2023 2:06 PM View: Time Series & Box Plot
 Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-4 (bg)	HGWA-42D (bg)	HGWA-43D (bg)
5/19/2016	66.9	48.6	42.3	1.22		
7/11/2016	41	45		3.7		
7/12/2016			44			
8/30/2016	36	42	40	6.8		
10/19/2016	46	44	43	11		
12/6/2016	59	44	43	13		
1/24/2017	46	46	48	5.7		
3/21/2017	63	46	45	1.7		
5/22/2017	77	48	46			
5/23/2017				1.5		
10/3/2017	42	47	48	1.3		
6/4/2018	71.8	47.8	46.6	4.9		
10/1/2018	49.1	48.1	48.6	0.59 (J)		
4/1/2019			50.4			
4/2/2019	84.3	48.7		4.9		
9/23/2019	70.2	47.2	43.9			
9/24/2019				<1		
3/25/2020	85.9	46.3	50.5			
3/26/2020				<1		
9/15/2020	47.3	51.5	44.7	<1		
9/16/2020						43
9/17/2020					10.9	
11/10/2020						39
11/11/2020					9.4	
12/15/2020					10.9	38.8
1/19/2021						37.3
1/20/2021					9.8	
3/10/2021	49.6			1.2	10.8	
3/11/2021		52.9	50.4			38.6
8/11/2021	48.9					30.5
8/12/2021		47.4	38.6	1.1	7.8	
2/1/2022	43.7	67.1	46			37.5
2/7/2022				2.9	10.4	
8/2/2022	58.1	86.9	43.5	4.9		37
8/9/2022					11.2	
1/23/2023			39.5	42.5	11.1	
1/24/2023	48.3	79.7				34.7

Time Series

Constituent: Sulfate (mg/L) Analysis Run 5/16/2023 2:06 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-44D (bg)	HGWA-5 (bg)	HGWA-6 (bg)	HGWC-14	HGWC-15	HGWC-16
5/19/2016		25				
5/20/2016			34.4			
5/23/2016				1070	424	203
7/11/2016		27	34			
7/12/2016				1300	440	220
8/30/2016		23	36			
9/1/2016				1300	440	220
10/20/2016		19	36			
10/24/2016				280	420	
10/25/2016						230
12/7/2016				1300	450	220
12/8/2016		20	36			
1/24/2017		20	37			
1/26/2017				1400	490	250
3/21/2017		23	37			
3/22/2017						240
3/23/2017				1500	530	
5/23/2017		21	38			
5/24/2017				1400	500	230
10/3/2017		21	38			
10/4/2017				1400	560	220
6/5/2018		22.9	38			
6/6/2018				1520	469	233
10/2/2018		20.3	38.5			
10/3/2018				1550	600	215
4/2/2019		23.8	35.5			
4/4/2019					528	251
4/5/2019				1520		
9/24/2019		20.7	35.4	1110	382	
9/25/2019						223
3/25/2020			35.1			
3/26/2020		21.6			438	
3/30/2020				1150		223
9/15/2020		21.2	35.3			
9/16/2020	6.9					
9/17/2020					416	254
9/18/2020				1260		
11/10/2020	6.3					
12/15/2020	6.7					
1/19/2021	7.4					
3/10/2021	<1					
3/11/2021		22.7	35.5			
3/16/2021					379	
3/17/2021				1300		250
8/12/2021		17.4	28.6			
8/13/2021	56.1					
8/18/2021				768		
8/19/2021					223	228
2/1/2022	56.3					
2/7/2022		20.6	33			
2/8/2022					360	238
2/9/2022				1190		

Time Series

Constituent: Sulfate (mg/L) Analysis Run 5/16/2023 2:06 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-44D (bg)	HGWA-5 (bg)	HGWA-6 (bg)	HGWC-14	HGWC-15	HGWC-16
8/2/2022	13.2					
8/10/2022		19.7	34			206
8/11/2022				1200	365	
1/24/2023	10.1					
1/27/2023		22.7	35			
2/1/2023				1060	341	257

Time Series

Constituent: Sulfate (mg/L) Analysis Run 5/16/2023 2:06 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-17	HGWC-18	MW-21D	MW-22	MW-23D	MW-33
5/23/2016	395					
5/24/2016		834				
7/12/2016	460	930				
9/1/2016	430	890				
10/25/2016	440	950				
12/7/2016	410					
12/8/2016		910				
1/26/2017	440	970				
3/22/2017	460					
3/23/2017		980				
5/25/2017	430	920				
10/4/2017	490	870				
6/5/2018		962				
6/6/2018	520					
10/3/2018	651	1170				
4/4/2019			915			
4/5/2019	642	1030		392	585	
9/25/2019	434	920	767			
9/26/2019					556	
9/27/2019				520		
1/22/2020						1250
3/27/2020				419		
3/31/2020	484	934				
4/1/2020			889		478	1210
6/17/2020			901			1210
9/15/2020		1080				
9/16/2020	467					
9/17/2020				468	490	
9/21/2020			1010			1290
3/17/2021				461	486	
3/18/2021	447	1050	829			1360
8/18/2021	280					740
8/19/2021		934	724	412 (M1)	432	
2/8/2022	364	960	779	449		1220
2/10/2022					430	
8/10/2022	423	946				1010
8/11/2022			910	472	389	
1/27/2023			646			895
1/30/2023	451			445		
2/1/2023		776			438	

Time Series

Constituent: Sulfate (mg/L) Analysis Run 5/16/2023 2:06 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-2

	MW-34D	MW-35	MW-37D	MW-51
6/18/2020	1100	1160	286	
9/21/2020		1220		
9/23/2020	1080		256	
3/12/2021			237	
3/19/2021		1220		
8/16/2021	987			
8/18/2021		789	207	757
2/8/2022		1190	248	1150
2/9/2022	1050			
8/10/2022	1040		122	
8/11/2022		1020		979
1/30/2023	1120		85.2	
2/1/2023		1190		1110

Time Series

Constituent: Thallium (mg/L) Analysis Run 5/16/2023 2:06 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-4 (bg)	HGWA-42D (bg)	HGWA-43D (bg)
5/19/2016	<0.001	<0.001	<0.001	<0.001		
7/11/2016	<0.001	<0.001		<0.001		
7/12/2016			<0.001			
8/30/2016	<0.001	<0.001	<0.001	<0.001		
10/19/2016	<0.001	<0.001	<0.001	<0.001		
12/6/2016	<0.001	<0.001	<0.001	<0.001		
1/24/2017	<0.001	<0.001	<0.001	<0.001		
3/21/2017	<0.001	3E-05 (J)	<0.001	<0.001		
5/22/2017	<0.001	<0.001	<0.001			
5/23/2017				<0.001		
4/2/2018	<0.001	<0.001		<0.001		
4/3/2018			<0.001			
6/4/2018	<0.001	<0.001	<0.001	<0.001		
10/1/2018	<0.001	<0.001	<0.001	<0.001		
3/11/2019				<0.001		
3/12/2019	<0.001	<0.001	<0.001			
4/1/2019			<0.001			
4/2/2019	<0.001	<0.001		<0.001		
9/23/2019	<0.001	<0.001	<0.001			
9/24/2019				<0.001		
3/2/2020	<0.001	<0.001	<0.001	<0.001		
3/25/2020	<0.001	<0.001	<0.001			
3/26/2020				<0.001		
9/15/2020	<0.001	<0.001	<0.001	<0.001		
9/16/2020						<0.001
9/17/2020				<0.001		
11/10/2020						<0.001
11/11/2020				<0.001		
12/15/2020				<0.001		<0.001
1/19/2021						<0.001
1/20/2021					<0.001	
2/8/2021	<0.001			<0.001	<0.001	
2/9/2021		<0.001	<0.001			<0.001
3/10/2021	<0.001			<0.001	<0.001	
3/11/2021		<0.001	<0.001			<0.001
8/11/2021	<0.001					<0.001
8/12/2021		<0.001	<0.001	<0.001	<0.001	
2/1/2022	<0.001	<0.001	<0.001			<0.001
2/7/2022				<0.001	<0.001	
8/2/2022	<0.001	<0.001	<0.001	<0.001		<0.001
8/9/2022					<0.001	
1/23/2023			<0.001	<0.001	<0.001	
1/24/2023	<0.001	<0.001				<0.001

Time Series

Constituent: Thallium (mg/L) Analysis Run 5/16/2023 2:06 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-44D (bg)	HGWA-5 (bg)	HGWA-6 (bg)	HGWC-14	HGWC-15	HGWC-16
5/19/2016		<0.001				
5/20/2016			<0.001			
5/23/2016				0.000306 (J)	<0.001	<0.001
7/11/2016		<0.001	<0.001			
7/12/2016				0.0003 (J)	<0.001	<0.001
8/30/2016		<0.001	<0.001			
9/1/2016				0.0003 (J)	<0.001	<0.001
10/20/2016		<0.001	<0.001			
10/24/2016				0.0004	<0.001	
10/25/2016						<0.001
12/7/2016				0.0003 (J)	<0.001	<0.001
12/8/2016		<0.001	<0.001			
1/24/2017		<0.001	<0.001			
1/26/2017				0.0003 (J)	<0.001	<0.001
3/21/2017		<0.001	<0.001			
3/22/2017						<0.001
3/23/2017				0.0003 (J)	<0.001	
5/23/2017		<0.001	<0.001			
5/24/2017				0.0003 (J)	<0.001	<0.001
4/3/2018		<0.001	<0.001		<0.001	<0.001
4/4/2018				0.00028 (J)		
6/5/2018		<0.001	<0.001			
6/6/2018				0.00029 (J)	<0.001	<0.001
10/2/2018		<0.001	<0.001			
10/3/2018				0.00029 (J)	<0.001	<0.001
3/12/2019		<0.001	<0.001			
3/14/2019				0.00028 (J)	<0.001	
3/15/2019						<0.001
4/2/2019		<0.001	<0.001			
4/4/2019					<0.001	<0.001
4/5/2019				0.00028 (J)		
9/24/2019		<0.001	<0.001	0.0003 (J)	<0.001	
9/25/2019						<0.001
3/2/2020		<0.001	<0.001			
3/3/2020				0.00026 (J)	<0.001	<0.001
3/25/2020			5.7E-05 (J)			
3/26/2020		<0.001			<0.001	
3/30/2020				0.00028 (J)		<0.001
9/15/2020		<0.001	<0.001			
9/16/2020	<0.001					
9/17/2020					<0.001	<0.001
9/18/2020				0.00028 (J)		
11/10/2020	<0.001					
12/15/2020	<0.001					
1/19/2021	<0.001					
2/9/2021	<0.001	<0.001	<0.001			
2/10/2021						<0.001
2/11/2021				0.00026 (J)		
2/12/2021					<0.001	
3/10/2021	<0.001					
3/11/2021		<0.001	<0.001			
3/16/2021					<0.001	

Time Series

Constituent: Thallium (mg/L) Analysis Run 5/16/2023 2:06 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-44D (bg)	HGWA-5 (bg)	HGWA-6 (bg)	HGWC-14	HGWC-15	HGWC-16
3/17/2021				0.00034 (J)		<0.001
8/12/2021		<0.001	<0.001			
8/13/2021	<0.001					
8/18/2021				0.00027 (J)		
8/19/2021					<0.001	<0.001
2/1/2022	<0.001					
2/7/2022		<0.001	<0.001			
2/8/2022					<0.001	<0.001
2/9/2022				0.00025 (J)		
8/2/2022	<0.001					
8/10/2022		<0.001	<0.001			<0.001
8/11/2022				0.00024 (J)	<0.001	
1/24/2023	<0.001					
1/27/2023		<0.001	<0.001			
2/1/2023				0.00047 (J)	0.00022 (J)	<0.001

Time Series

Constituent: Thallium (mg/L) Analysis Run 5/16/2023 2:06 PM View: Time Series & Box Plot
 Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-17	HGWC-18	MW-21D	MW-22	MW-23D	MW-33
5/23/2016	<0.001					
5/24/2016		<0.001				
7/12/2016	0.0001 (J)	0.0002 (J)				
9/1/2016	<0.001	<0.001				
10/25/2016	<0.001	<0.001				
12/7/2016	<0.001					
12/8/2016		<0.001				
1/26/2017	<0.001	<0.001				
3/22/2017	0.0001 (J)					
3/23/2017		0.0002 (J)				
5/25/2017	0.0001 (J)	0.0002 (J)				
4/3/2018	<0.001	0.00014 (J)				
6/5/2018		0.00016 (J)				
6/6/2018	<0.001					
10/3/2018	<0.001	<0.001				
3/14/2019		<0.001			<0.001	
3/15/2019	<0.001		<0.001	<0.001		
4/4/2019			<0.001			
4/5/2019	0.00013 (J)	0.00014 (J)		<0.001	<0.001	
9/25/2019	0.00012 (J)	0.00019 (J)	<0.001			
9/26/2019					<0.001	
9/27/2019				<0.001		
3/2/2020				<0.001	<0.001	
3/3/2020	0.00011 (J)	0.00013 (J)	<0.001			
3/27/2020				<0.001		
3/31/2020	0.00014 (J)	0.00015 (J)				
4/1/2020			<0.001		<0.001	0.00029 (J)
6/17/2020			<0.001			0.00028 (J)
9/15/2020		0.00016 (J)				
9/16/2020	<0.001					
9/17/2020				<0.001	<0.001	
9/21/2020			<0.001			0.00029 (J)
2/11/2021	<0.001	<0.001	<0.001			
2/12/2021					<0.001	0.00025 (J)
2/15/2021				<0.001		
3/17/2021				<0.001	<0.001	
3/18/2021	<0.001	0.00016 (J)	<0.001			0.00031 (J)
8/18/2021	<0.001					0.0004 (J)
8/19/2021		0.0002 (J)	<0.001	<0.001	<0.001	
2/8/2022	<0.001	<0.001	<0.001	<0.001		0.00025 (J)
2/10/2022					<0.001	
8/10/2022	<0.001	<0.001				<0.005
8/11/2022			<0.001	<0.001	<0.001	
1/27/2023			<0.001			0.00021 (J)
1/30/2023	0.00025 (J)			<0.001		
2/1/2023		<0.001			<0.001	

Time Series

Constituent: Thallium (mg/L) Analysis Run 5/16/2023 2:06 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-2

	MW-34D	MW-35	MW-37D	MW-51
6/18/2020	0.00015 (J)	0.00013 (J)	<0.001	
9/21/2020		<0.001		
9/23/2020	<0.001		<0.001	
2/11/2021			<0.001	
2/15/2021		<0.001		
3/12/2021			<0.001	
3/19/2021		<0.001		
8/16/2021	<0.001			
8/18/2021		<0.001	<0.001	<0.001
2/8/2022		<0.001	<0.001	<0.001
2/9/2022	<0.001			
8/10/2022	<0.001		<0.001	
8/11/2022		<0.001		<0.001
1/30/2023	<0.001		<0.001	
2/1/2023		<0.001		<0.001

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/16/2023 2:06 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-4 (bg)	HGWA-42D (bg)	HGWA-43D (bg)
5/19/2016	421	143	267	165		
7/11/2016	363	125		266		
7/12/2016			249			
8/30/2016	330	168	254	292		
10/19/2016	380	176	357	338		
12/6/2016	377	145	285	356		
1/24/2017	342	129	300	131		
3/21/2017	340	103	288	132		
5/22/2017	338	92	263			
5/23/2017				183		
10/3/2017	343	127	300	161		
6/4/2018	415	140	266	240		
10/1/2018	354	135	291	106		
4/1/2019			284			
4/2/2019	452	133		230		
9/23/2019	442	129	268			
9/24/2019				131		
3/25/2020	496	138	284			
3/26/2020				69		
9/15/2020	265	124	258	93		
9/16/2020						272
9/17/2020				188		
11/10/2020						307
11/11/2020				175		
12/15/2020				193		289
1/19/2021						270
1/20/2021				158		
3/10/2021	348			53	163	
3/11/2021		169	267			279
8/11/2021	366					277
8/12/2021		118	265	55	179	
2/1/2022	270	156	350			156
2/7/2022				54	190	
8/2/2022	400	196	287	48		278
8/9/2022					182	
1/23/2023			293	128	168	
1/24/2023	369	164				271

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/16/2023 2:06 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-44D (bg)	HGWA-5 (bg)	HGWA-6 (bg)	HGWC-14	HGWC-15	HGWC-16
5/19/2016		168				
5/20/2016			223			
5/23/2016				4130	1270	570
7/11/2016		158	225			
7/12/2016				3140	1100	585
8/30/2016		141	232			
9/1/2016				3200	1180	625
10/20/2016		99	225			
10/24/2016				2920	1090	
10/25/2016						563
12/7/2016				2740	1040	561
12/8/2016		116	235			
1/24/2017		156	272			
1/26/2017				3080	1260	608
3/21/2017		144	222			
3/22/2017						599
3/23/2017				3060	1360	
5/23/2017		134	231			
5/24/2017				3140	1320	598
10/3/2017		147	243			
10/4/2017				3210	1340	626
6/5/2018		152	235			
6/6/2018				2620	1120	678
10/2/2018		146	228			
10/3/2018				2430	1140	700
4/2/2019		144	238			
4/4/2019					926	704
4/5/2019				2310		
9/24/2019		133	222	2470	1140	
9/25/2019						813
3/25/2020			240			
3/26/2020		104			1000	
3/30/2020				2590		787
9/15/2020		116	217			
9/16/2020	270					
9/17/2020					956	804
9/18/2020				2440		
11/10/2020	287					
12/15/2020	295					
1/19/2021	278					
3/10/2021	289					
3/11/2021		118	215			
3/16/2021					92	
3/17/2021				1640		768
8/12/2021		158	229			
8/13/2021	436					
8/18/2021				2350		
8/19/2021					958	816
2/1/2022	444					
2/7/2022		135	224			
2/8/2022					866	852
2/9/2022				2310		

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/16/2023 2:06 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-44D (bg)	HGWA-5 (bg)	HGWA-6 (bg)	HGWC-14	HGWC-15	HGWC-16
8/2/2022	311					
8/10/2022		134	217			894
8/11/2022				1060	940	
1/24/2023	363					
1/27/2023		182	229			
2/1/2023				1950	892	1030

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/16/2023 2:06 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-17	HGWC-18	MW-21D	MW-22	MW-23D	MW-33
5/23/2016	1010					
5/24/2016		1900				
7/12/2016	976	1950				
9/1/2016	1060	2000				
10/25/2016	<25	1870				
12/7/2016	866					
12/8/2016		1930				
1/26/2017	1000	1950				
3/22/2017	1080					
3/23/2017		2080				
5/25/2017	1080	1970				
10/4/2017	1210	2200				
6/5/2018		1880				
6/6/2018	1180					
10/3/2018	1250	2180				
4/4/2019			1800			
4/5/2019	1260	1610		890	1400	
9/25/2019	1280	1960	1970			
9/26/2019					1400	
9/27/2019				1110		
1/22/2020						2310
3/27/2020				1100		
3/31/2020	1310	1860				
4/1/2020			1940		1530	2590
6/17/2020			2100			2540
9/15/2020		1890				
9/16/2020	1220					
9/17/2020				1090	1360	
9/21/2020			2060			2340
3/17/2021				998	990	
3/18/2021	1020	1390	1390			1790
8/18/2021	1290					3690
8/19/2021		1750	1920	1030	1440	
2/8/2022	1160	1770	1810	1070		2480
2/10/2022					1260	
8/10/2022	1390	1890				2050
8/11/2022			356	960	2700	
1/27/2023			1420			1570
1/30/2023	1320			961		
2/1/2023		1430			1320	

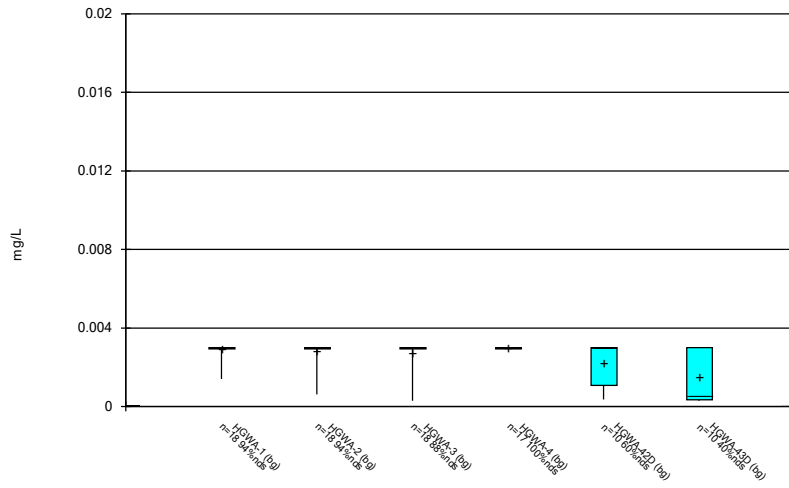
Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/16/2023 2:06 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-2

	MW-34D	MW-35	MW-37D	MW-51
6/18/2020	2320	2310	888	
9/21/2020		2210		
9/23/2020	2430		894	
3/12/2021			890	
3/19/2021		1690		
8/16/2021	2340			
8/18/2021		2390	950	2610
2/8/2022		2410	882	2430
2/9/2022	2260			
8/10/2022	2310		2770	
8/11/2022		1070		2080
1/30/2023	2230		226	
2/1/2023		2410		2090

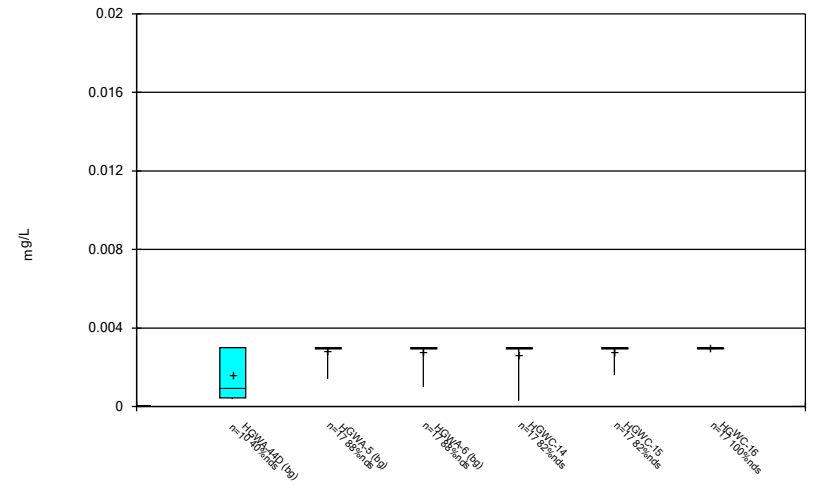
FIGURE B.

Box & Whiskers Plot



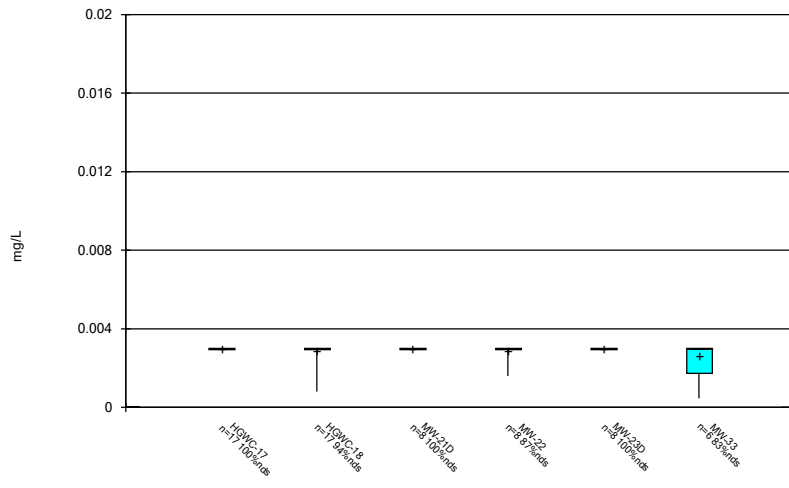
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Plant Hammond Client: Southern Company Data: Hammond AP-2

Box & Whiskers Plot



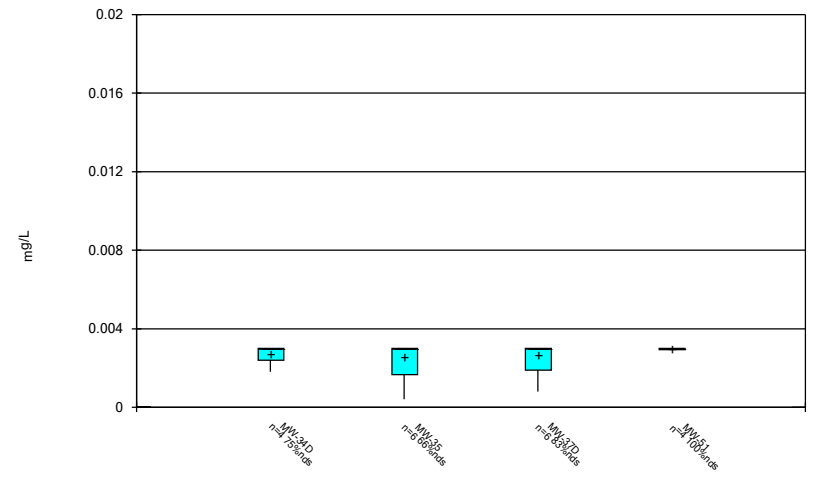
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Plant Hammond Client: Southern Company Data: Hammond AP-2

Box & Whiskers Plot



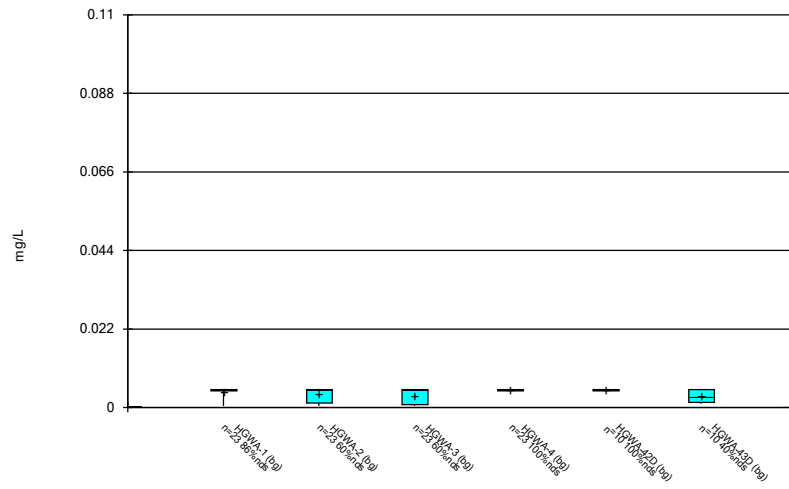
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Plant Hammond Client: Southern Company Data: Hammond AP-2

Box & Whiskers Plot



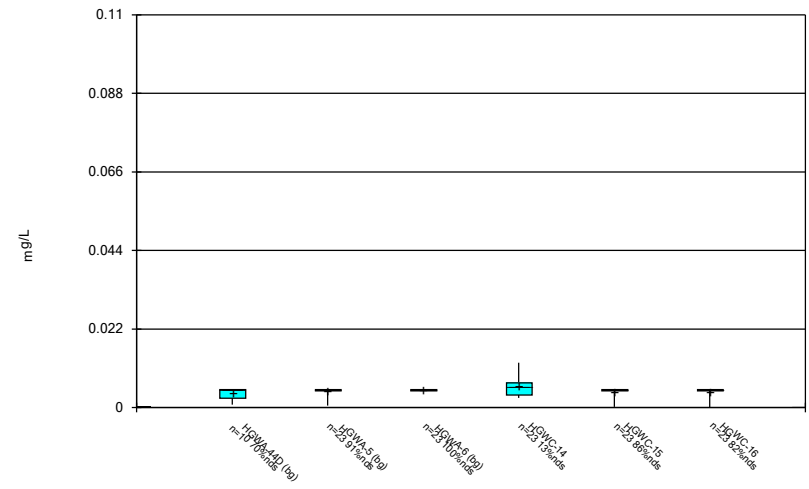
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Box & Whiskers Plot



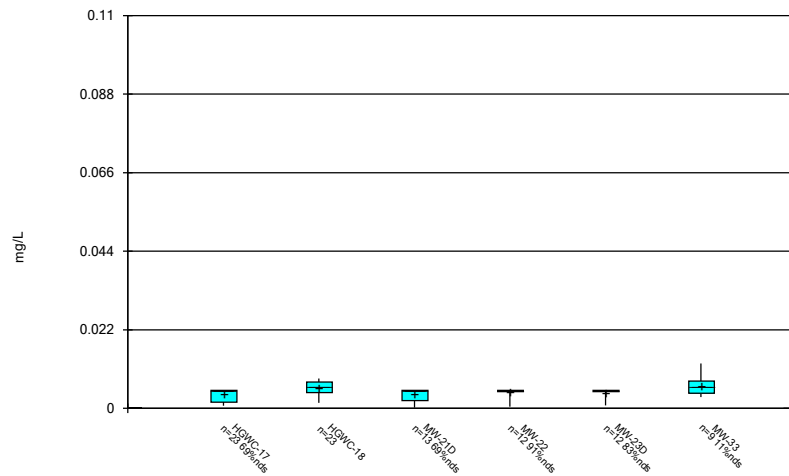
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 Plant Hammond Client: Southern Company Data: Hammond AP-2

Box & Whiskers Plot



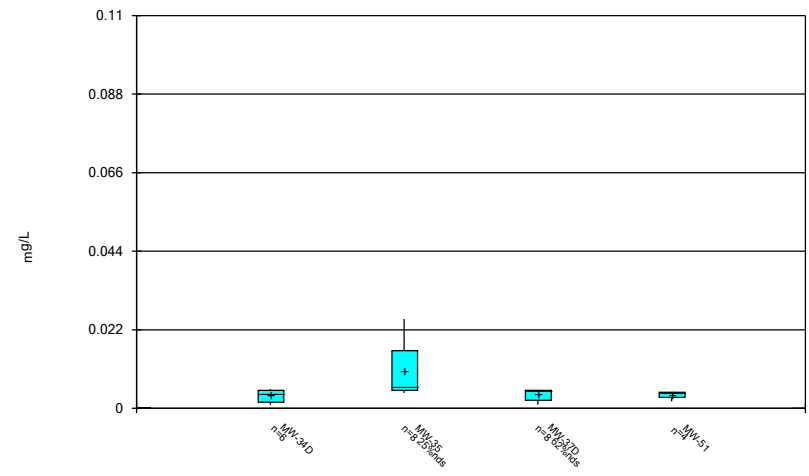
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 Plant Hammond Client: Southern Company Data: Hammond AP-2

Box & Whiskers Plot



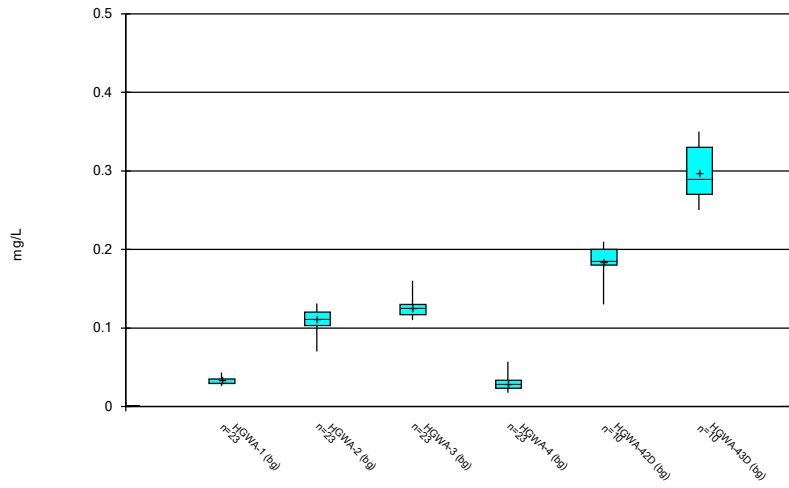
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 Plant Hammond Client: Southern Company Data: Hammond AP-2

Box & Whiskers Plot



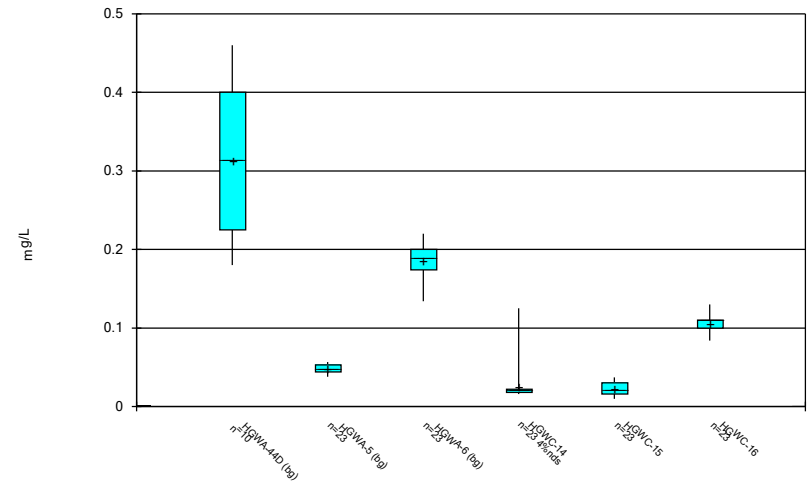
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Box & Whiskers Plot



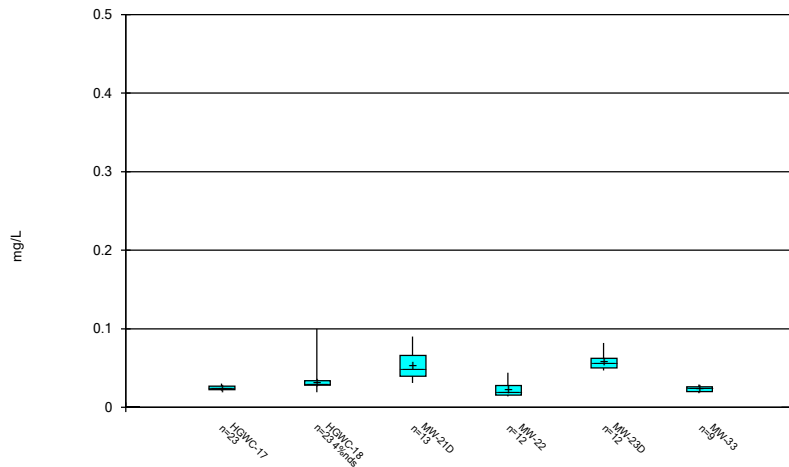
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Box & Whiskers Plot



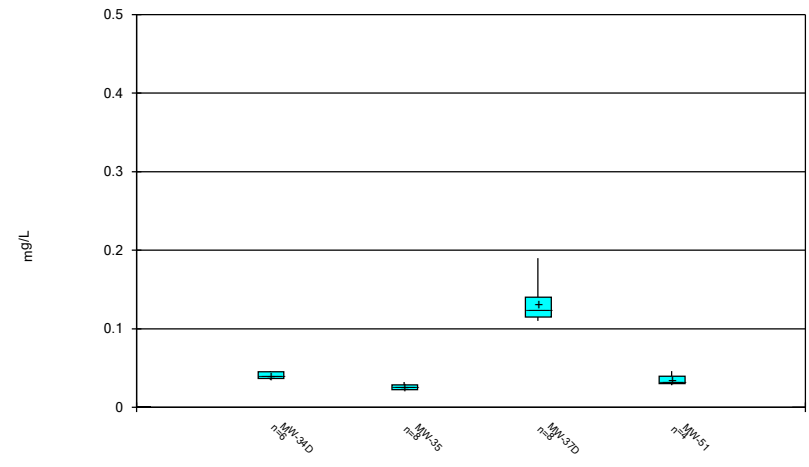
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Box & Whiskers Plot



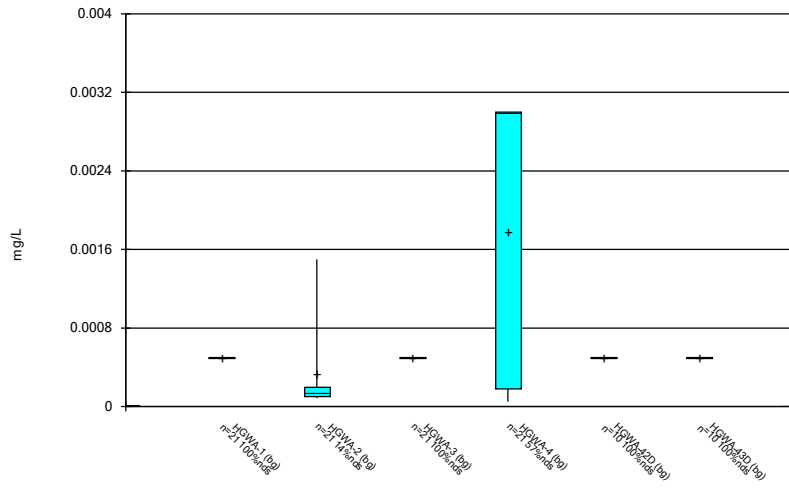
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 Plant Hammond Client: Southern Company Data: Hammond AP-2

Box & Whiskers Plot



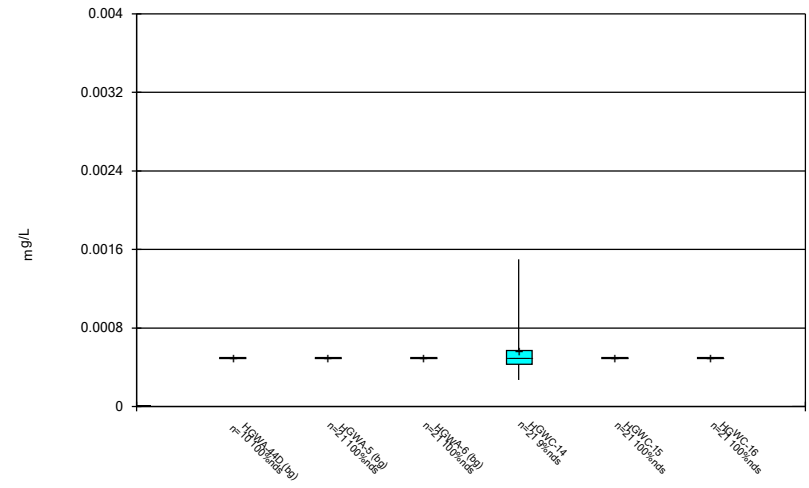
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 Plant Hammond Client: Southern Company Data: Hammond AP-2

Box & Whiskers Plot



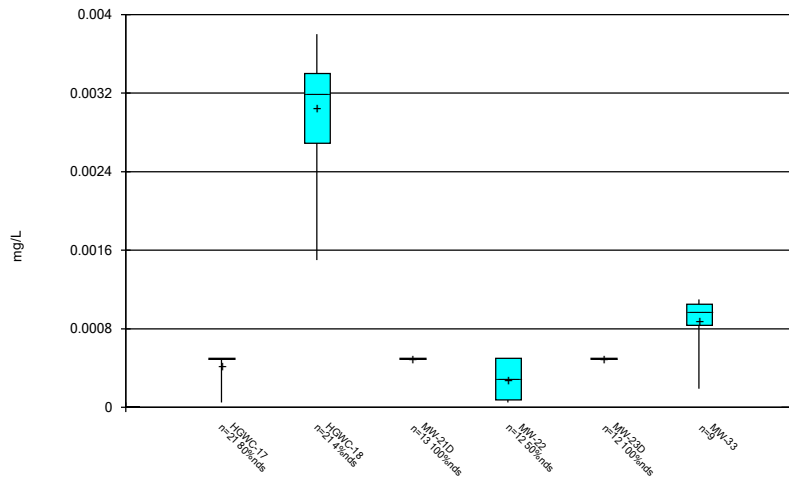
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 Plant Hammond Client: Southern Company Data: Hammond AP-2

Box & Whiskers Plot



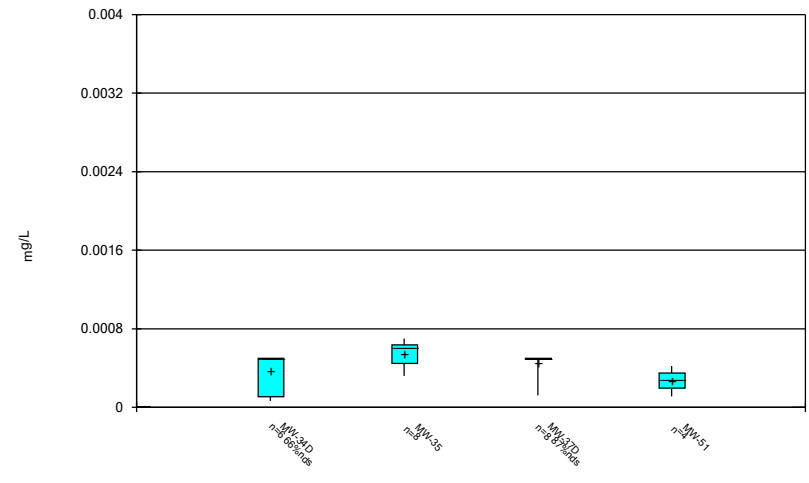
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 Plant Hammond Client: Southern Company Data: Hammond AP-2

Box & Whiskers Plot



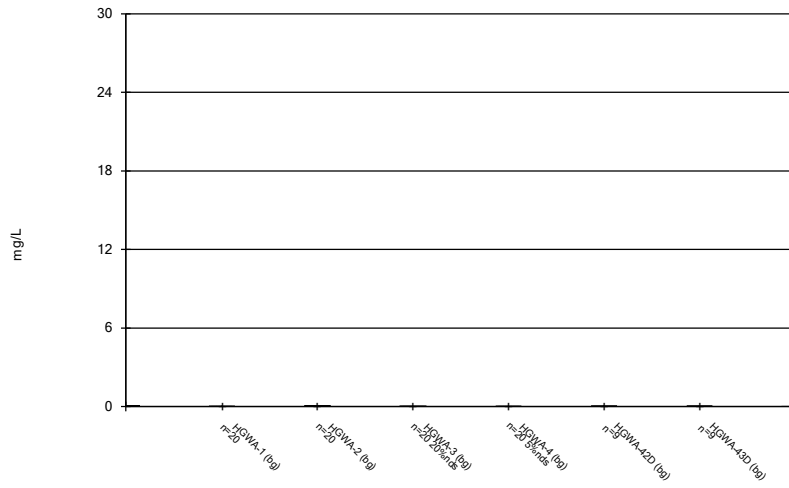
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 Plant Hammond Client: Southern Company Data: Hammond AP-2

Box & Whiskers Plot



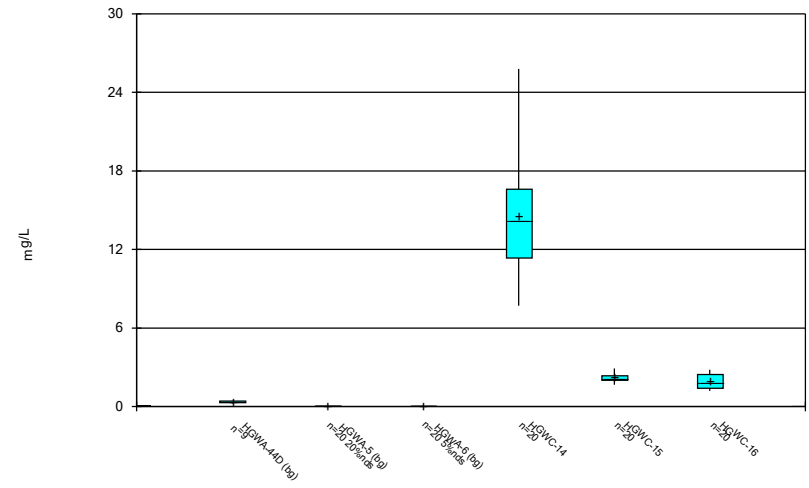
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Box & Whiskers Plot



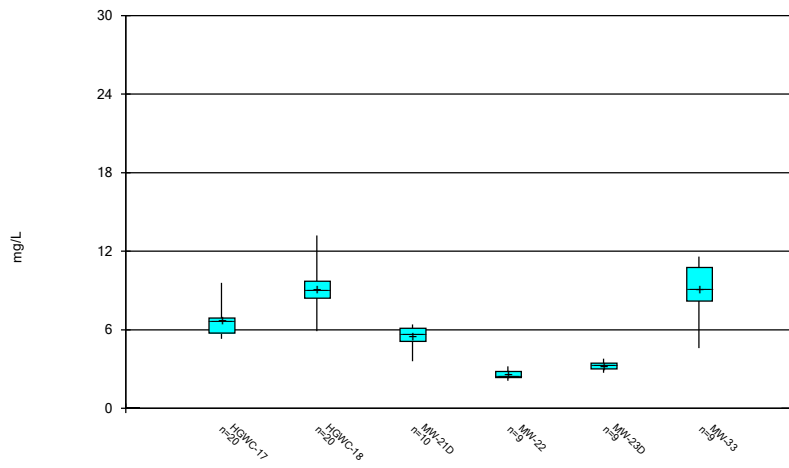
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 Plant Hammond Client: Southern Company Data: Hammond AP-2

Box & Whiskers Plot



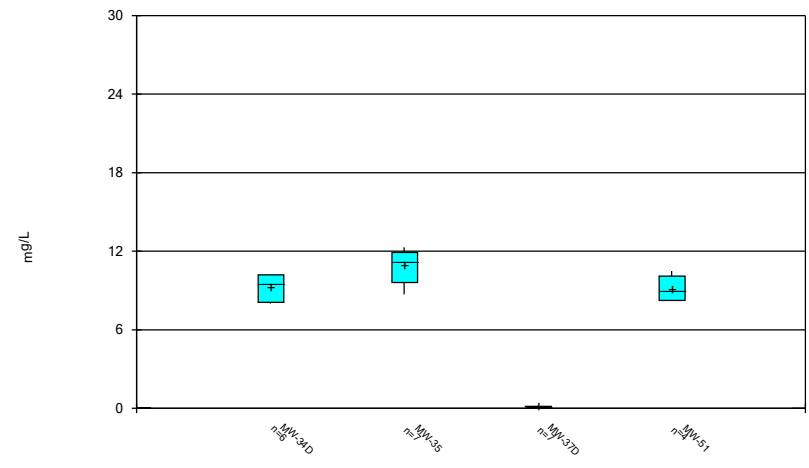
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 Plant Hammond Client: Southern Company Data: Hammond AP-2

Box & Whiskers Plot



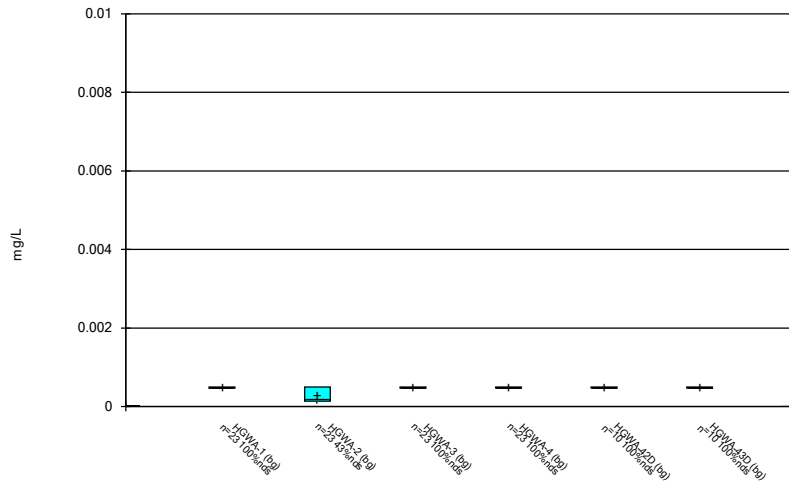
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 Plant Hammond Client: Southern Company Data: Hammond AP-2

Box & Whiskers Plot



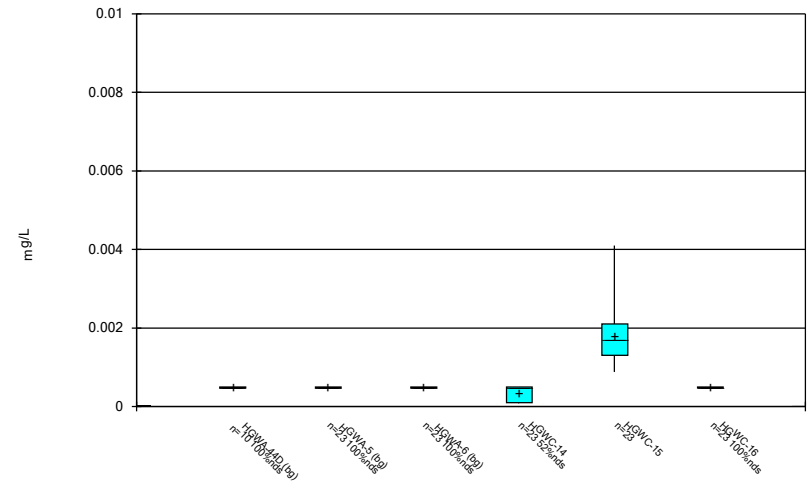
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 Plant Hammond Client: Southern Company Data: Hammond AP-2

Box & Whiskers Plot



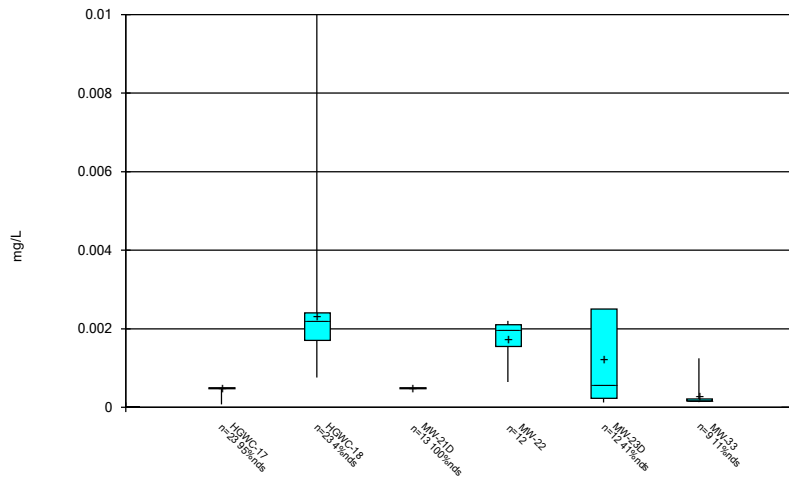
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 Plant Hammond Client: Southern Company Data: Hammond AP-2

Box & Whiskers Plot



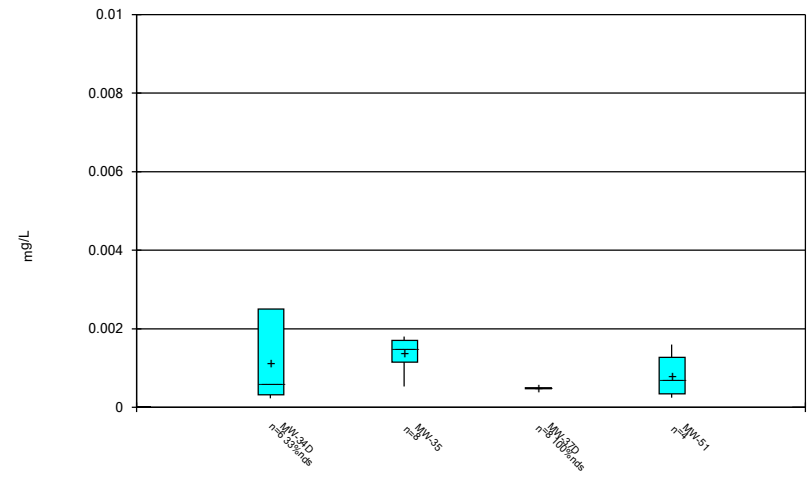
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 Plant Hammond Client: Southern Company Data: Hammond AP-2

Box & Whiskers Plot



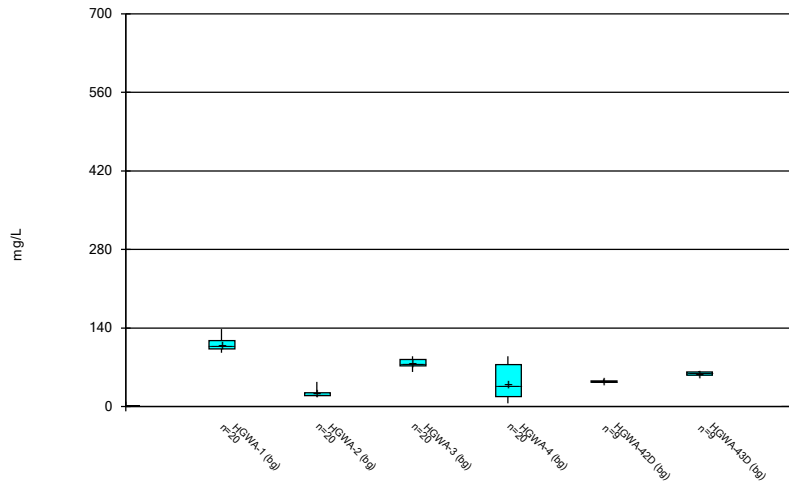
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 Plant Hammond Client: Southern Company Data: Hammond AP-2

Box & Whiskers Plot



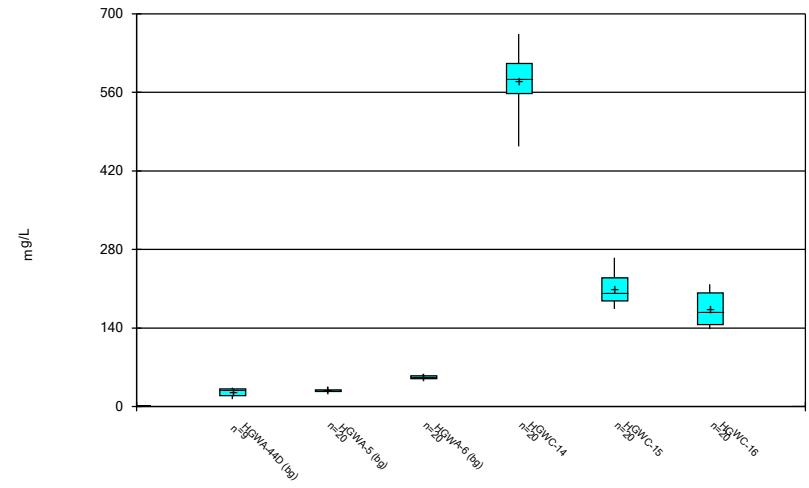
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 Plant Hammond Client: Southern Company Data: Hammond AP-2

Box & Whiskers Plot



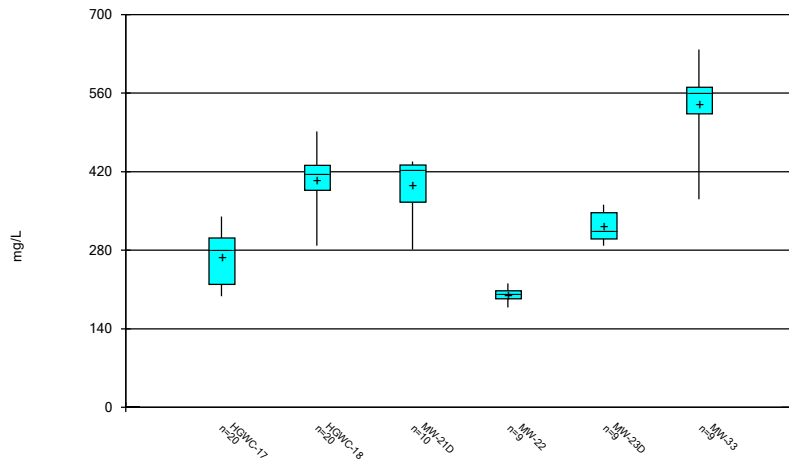
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 Plant Hammond Client: Southern Company Data: Hammond AP-2

Box & Whiskers Plot



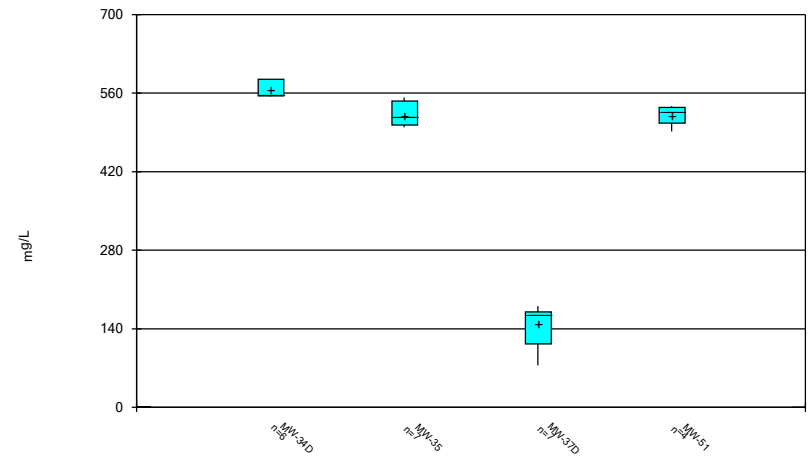
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 Plant Hammond Client: Southern Company Data: Hammond AP-2

Box & Whiskers Plot



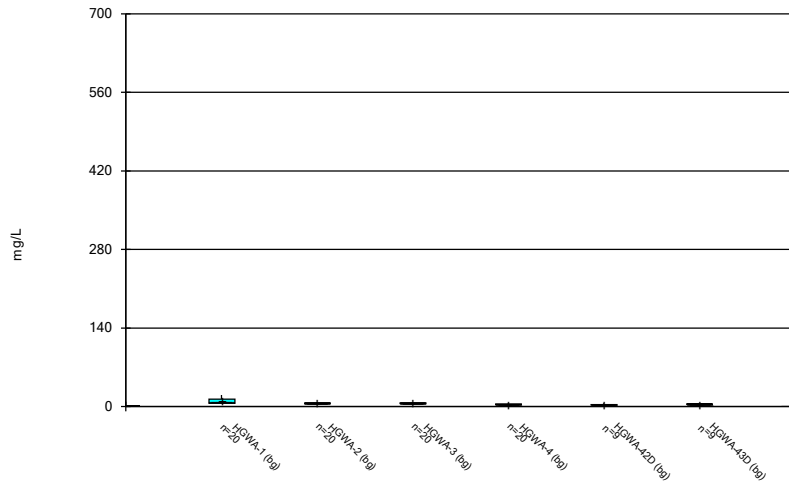
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Box & Whiskers Plot



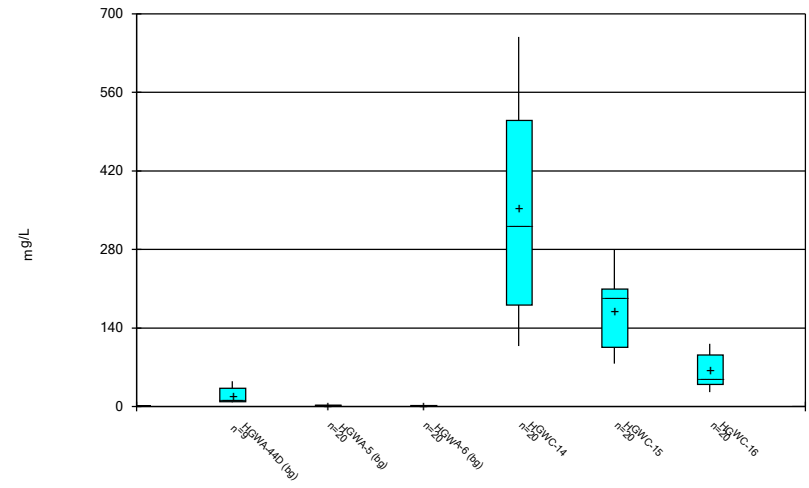
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 Plant Hammond Client: Southern Company Data: Hammond AP-2

Box & Whiskers Plot



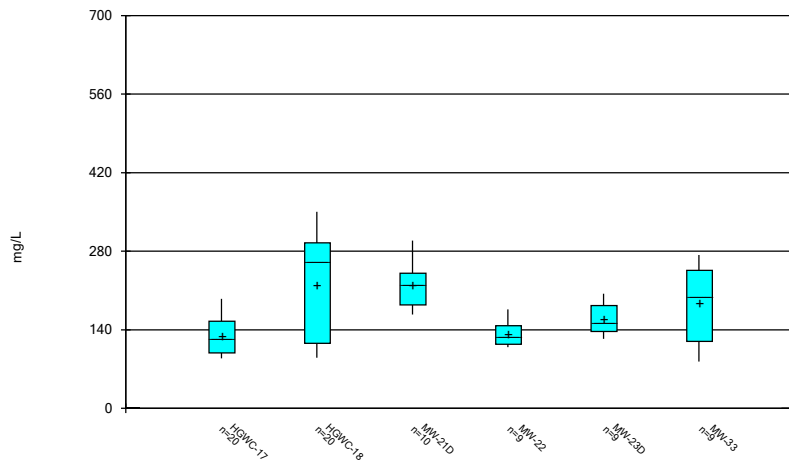
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Plant Hammond Client: Southern Company Data: Hammond AP-2

Box & Whiskers Plot



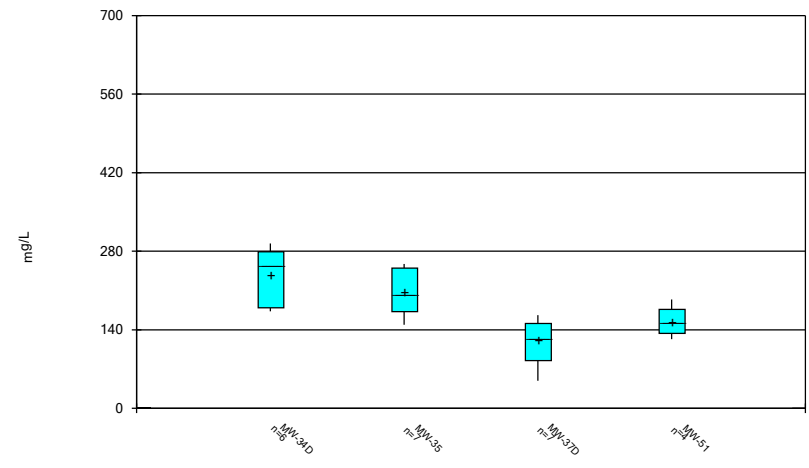
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Plant Hammond Client: Southern Company Data: Hammond AP-2

Box & Whiskers Plot



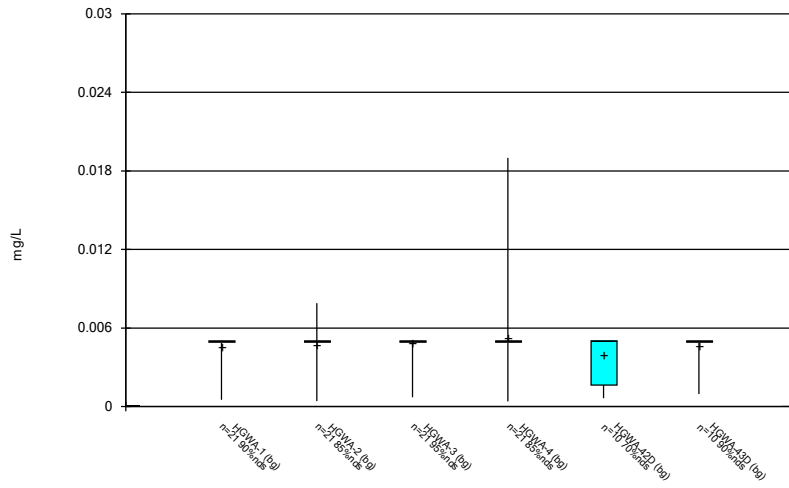
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Plant Hammond Client: Southern Company Data: Hammond AP-2

Box & Whiskers Plot



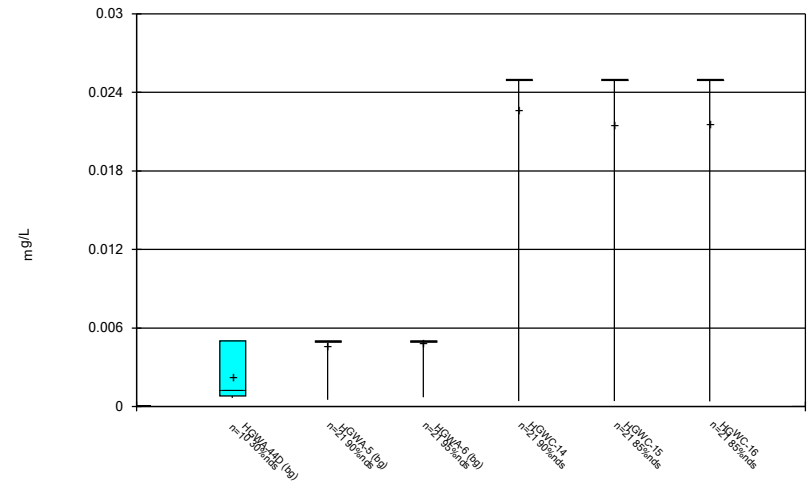
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Plant Hammond Client: Southern Company Data: Hammond AP-2

Box & Whiskers Plot



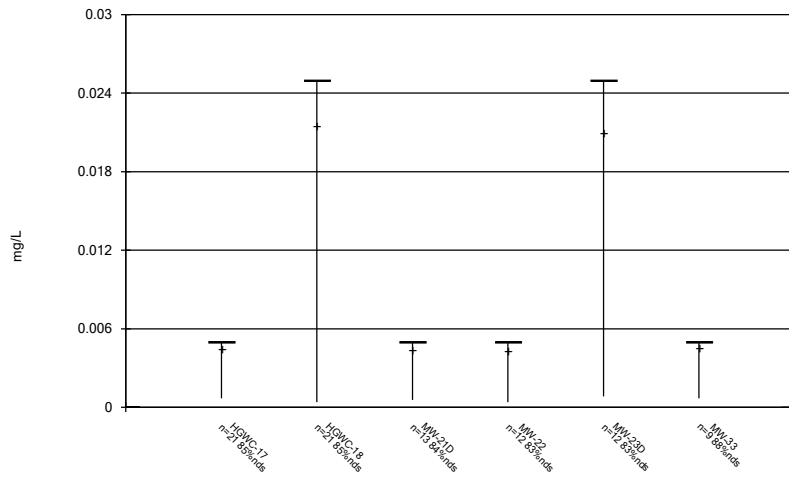
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 Plant Hammond Client: Southern Company Data: Hammond AP-2

Box & Whiskers Plot



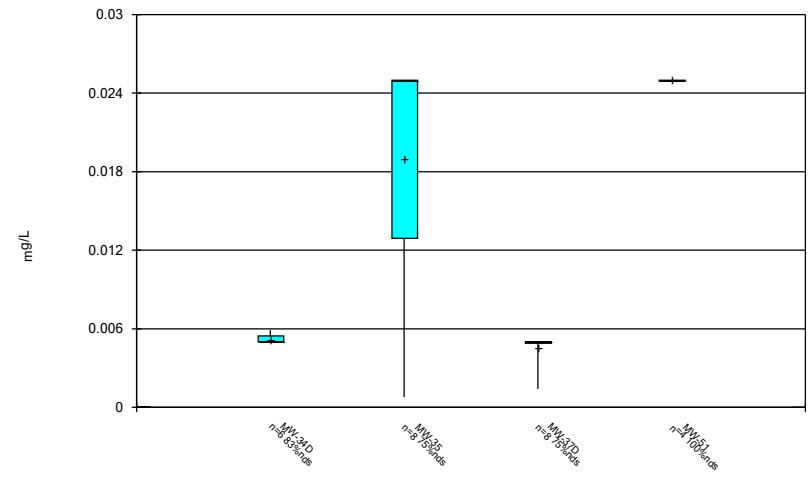
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 Plant Hammond Client: Southern Company Data: Hammond AP-2

Box & Whiskers Plot



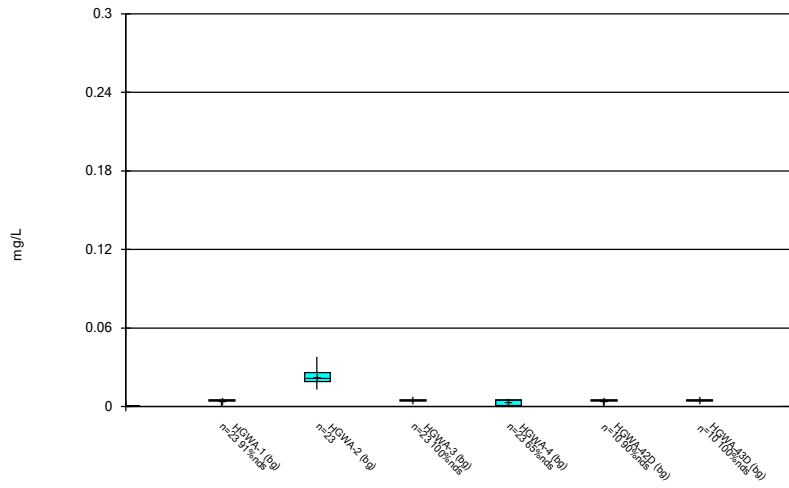
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 Plant Hammond Client: Southern Company Data: Hammond AP-2

Box & Whiskers Plot



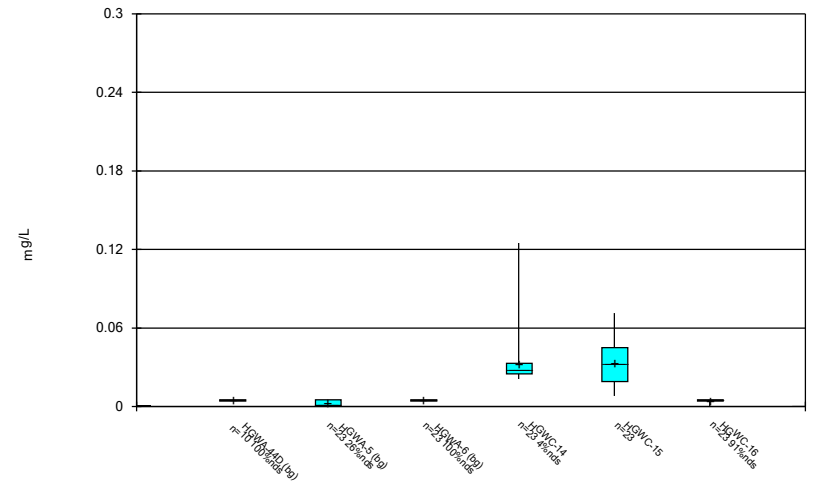
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 Plant Hammond Client: Southern Company Data: Hammond AP-2

Box & Whiskers Plot



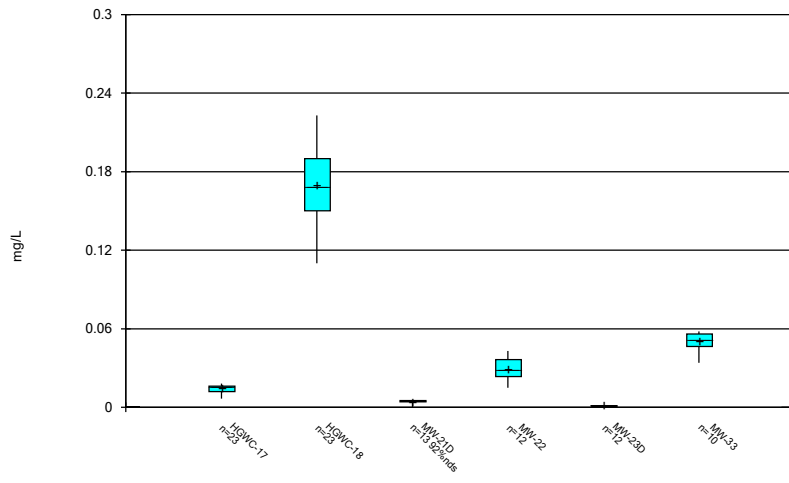
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Box & Whiskers Plot



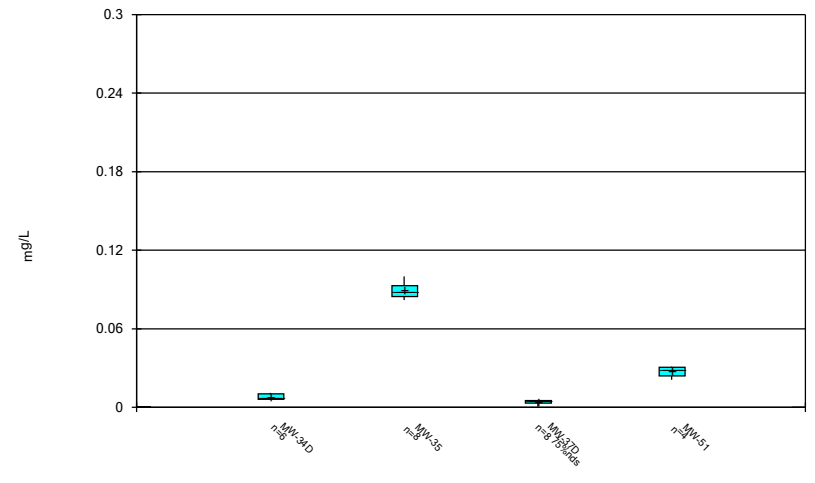
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Box & Whiskers Plot



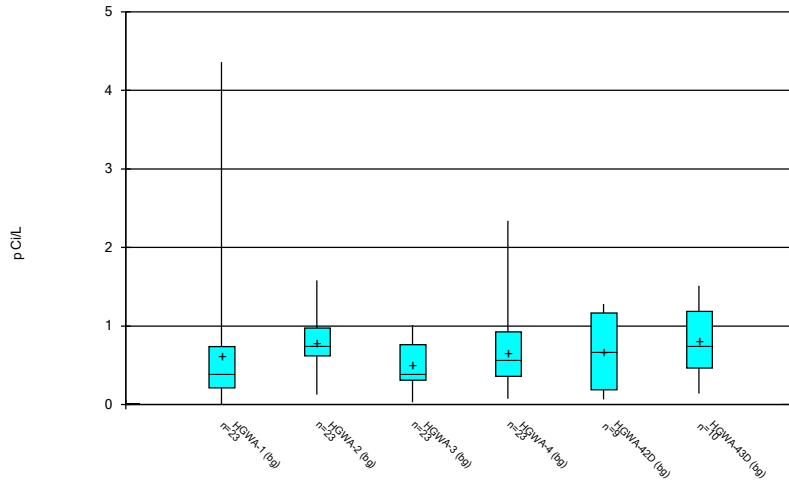
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Box & Whiskers Plot



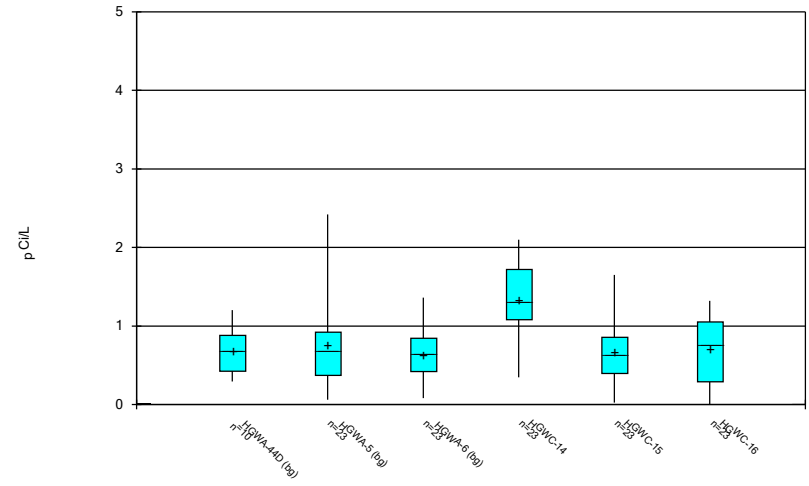
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Box & Whiskers Plot



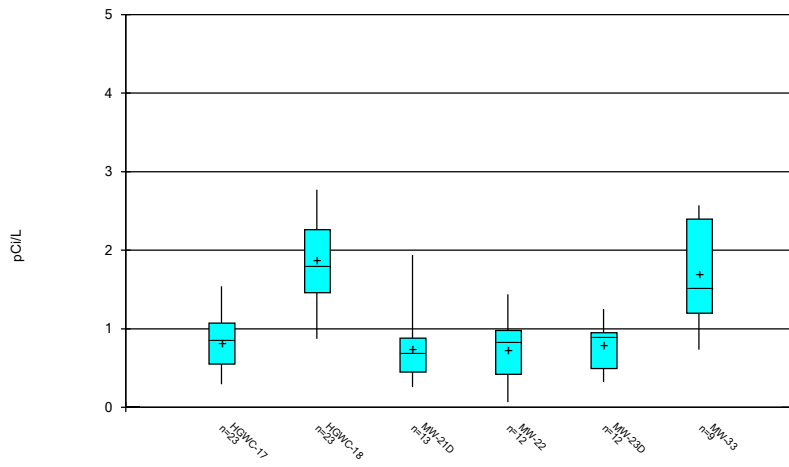
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 Plant Hammond Client: Southern Company Data: Hammond AP-2

Box & Whiskers Plot



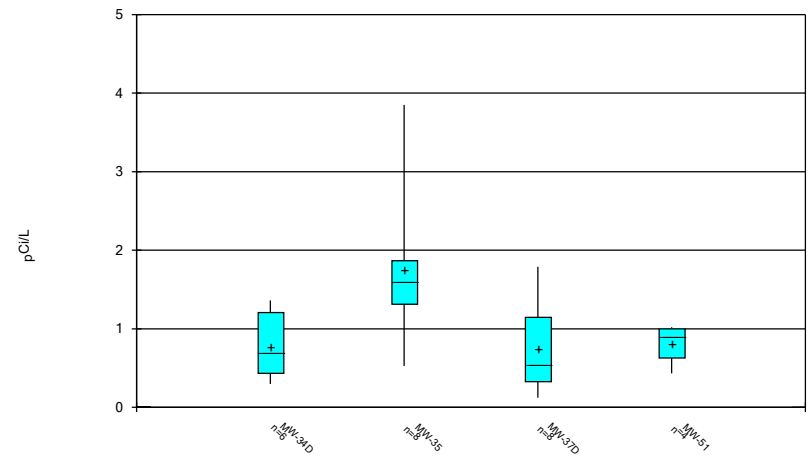
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 Plant Hammond Client: Southern Company Data: Hammond AP-2

Box & Whiskers Plot



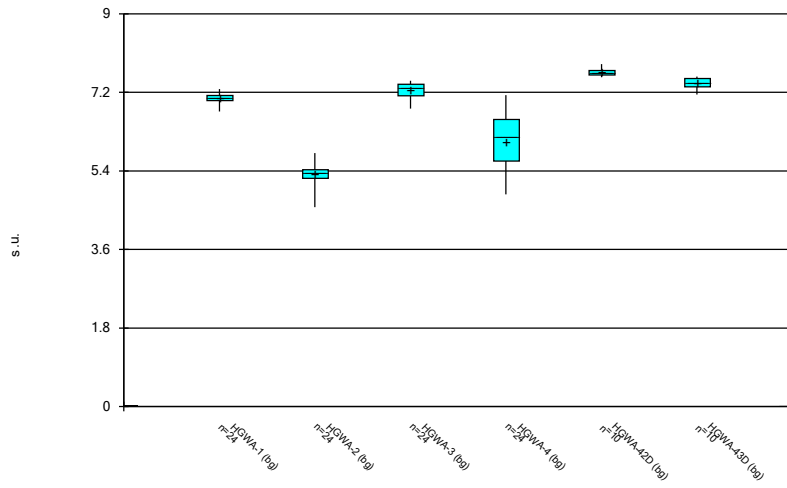
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 Plant Hammond Client: Southern Company Data: Hammond AP-2

Box & Whiskers Plot



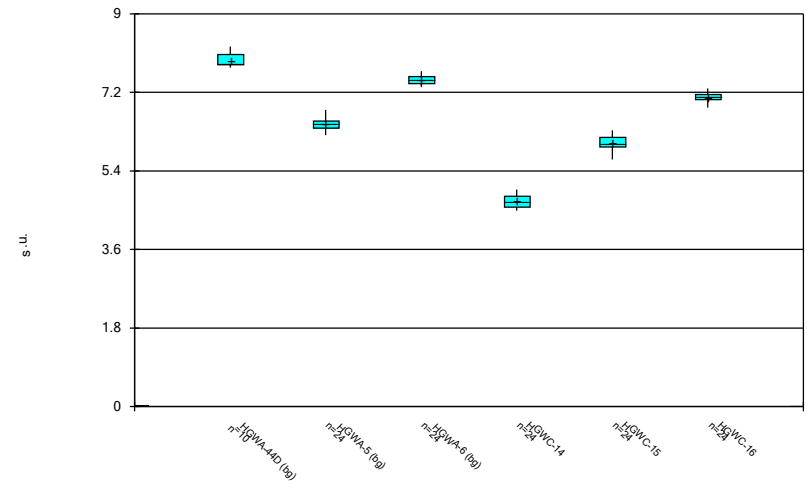
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 Plant Hammond Client: Southern Company Data: Hammond AP-2

Box & Whiskers Plot



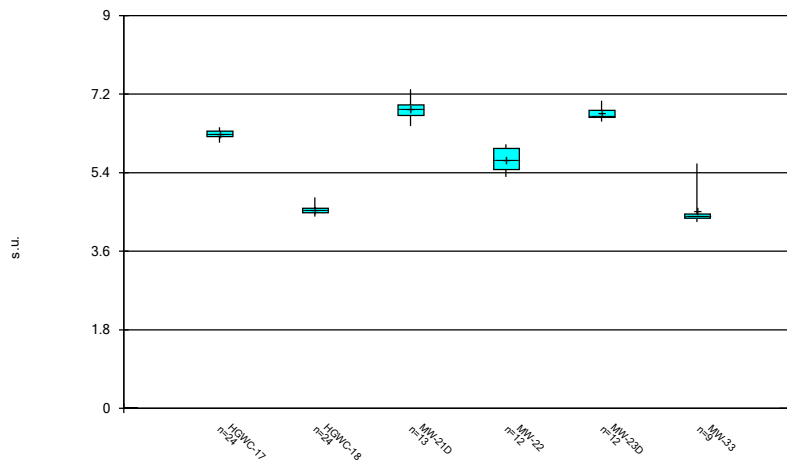
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Plant Hammond Client: Southern Company Data: Hammond AP-2

Box & Whiskers Plot



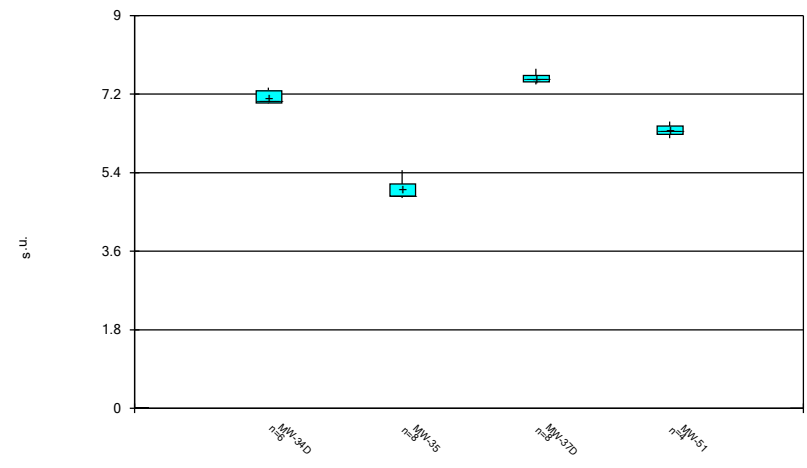
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Box & Whiskers Plot



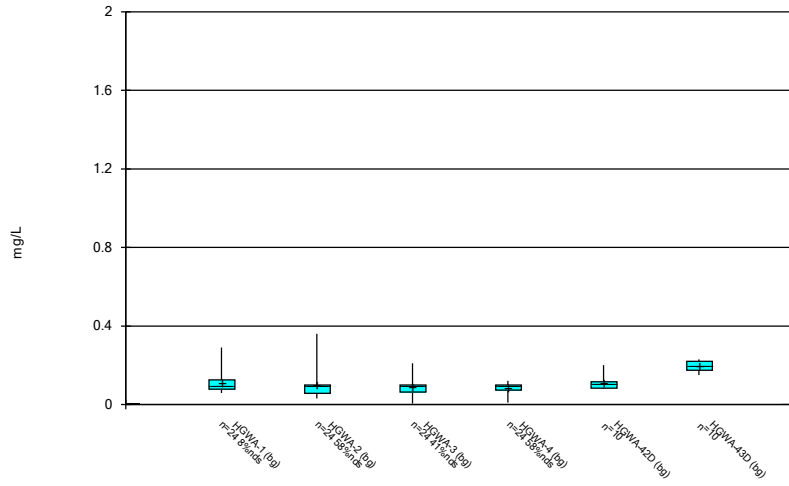
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Plant Hammond Client: Southern Company Data: Hammond AP-2

Box & Whiskers Plot



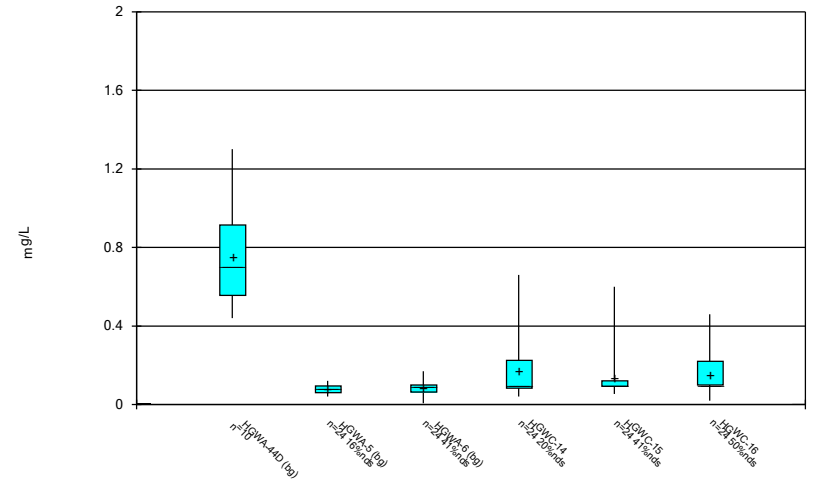
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Box & Whiskers Plot



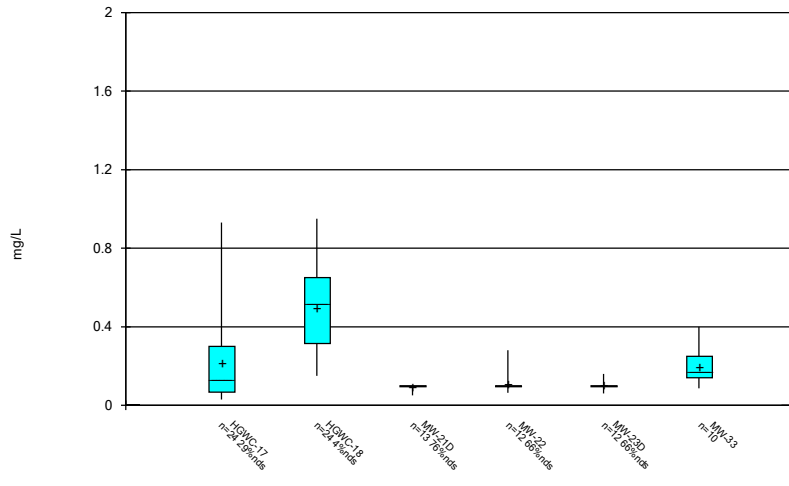
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Box & Whiskers Plot



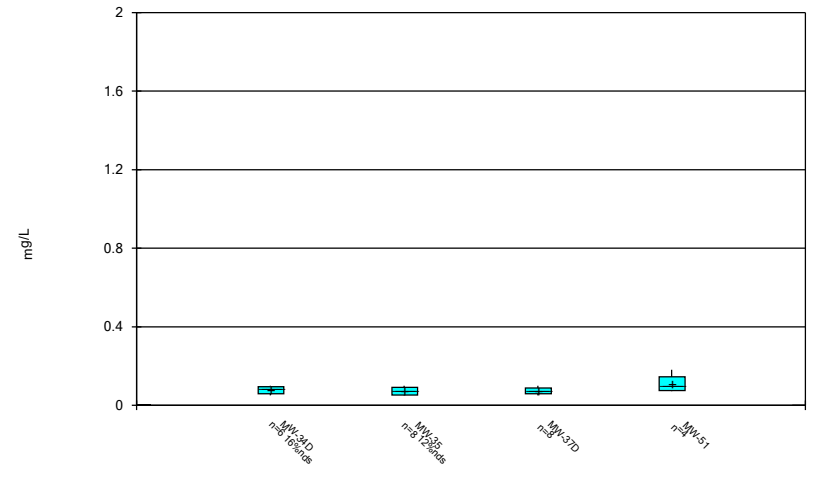
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Box & Whiskers Plot



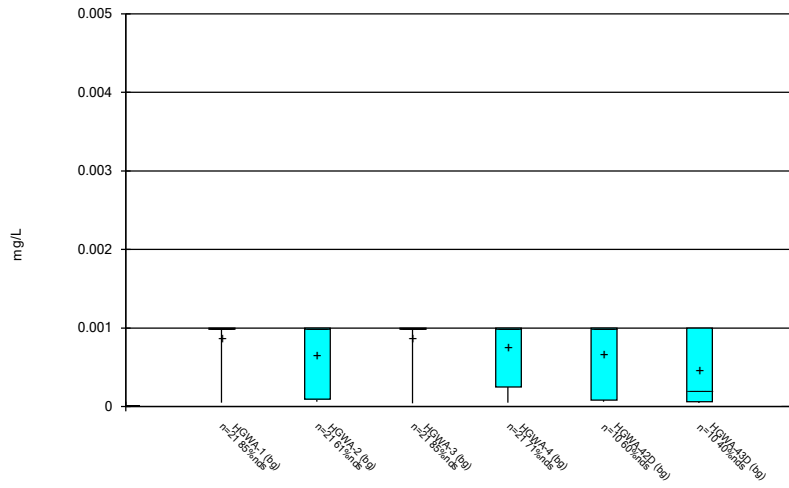
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Box & Whiskers Plot



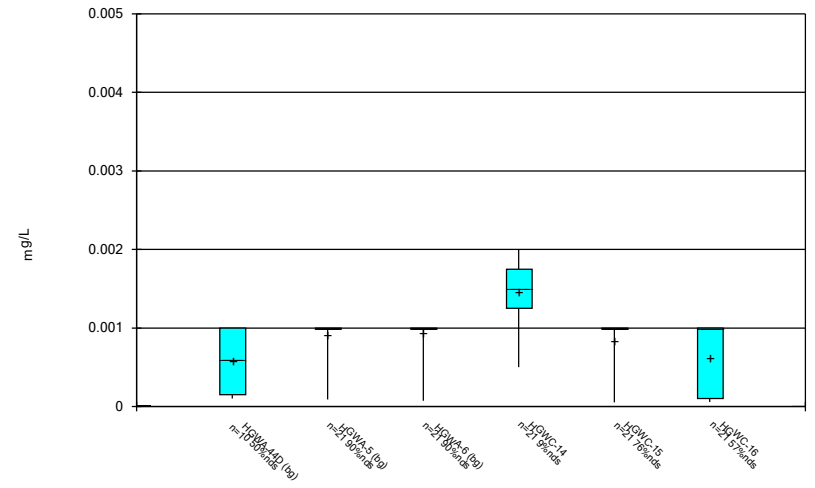
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Box & Whiskers Plot



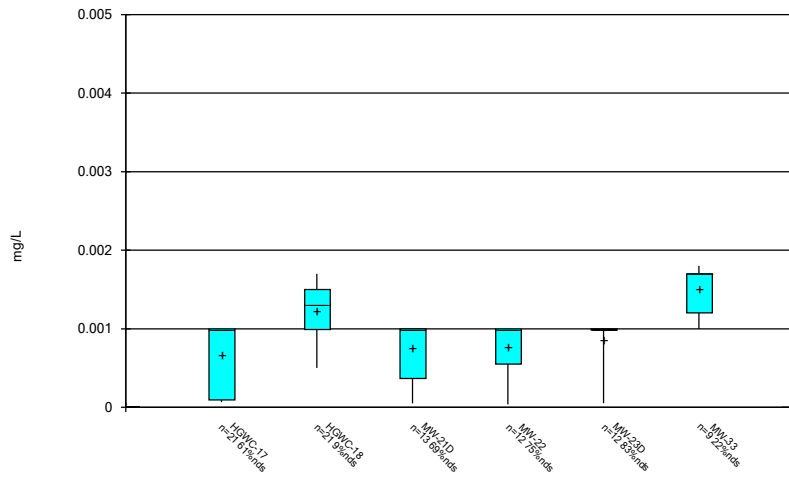
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Box & Whiskers Plot



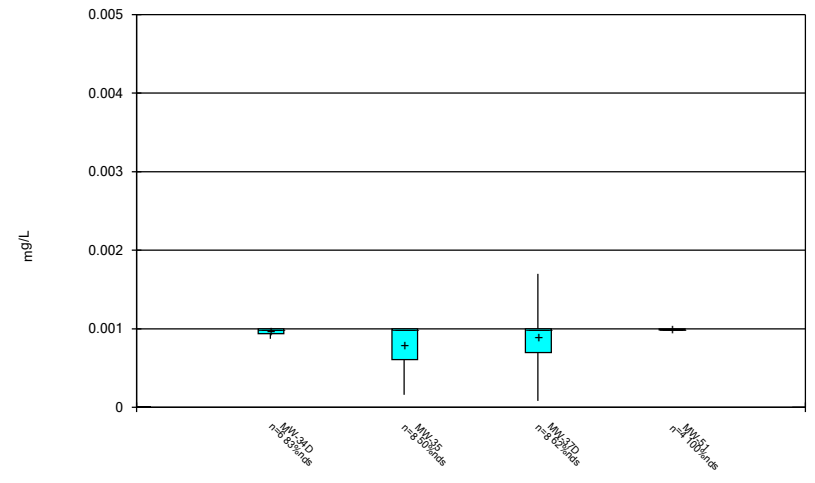
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Box & Whiskers Plot



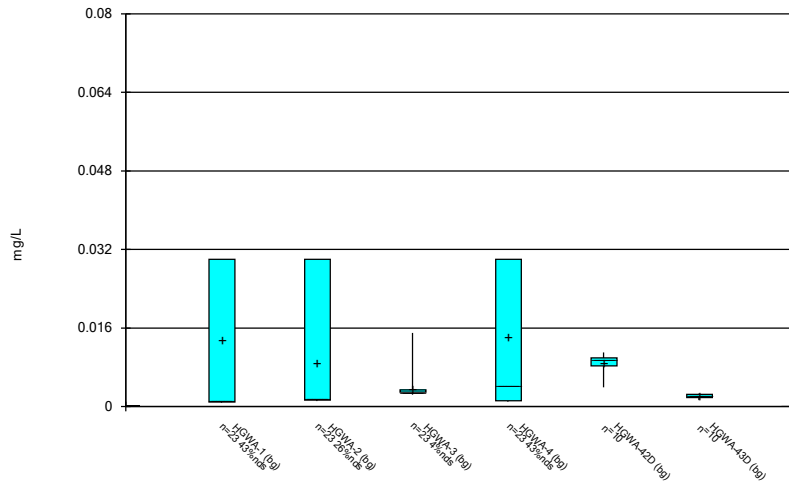
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Box & Whiskers Plot



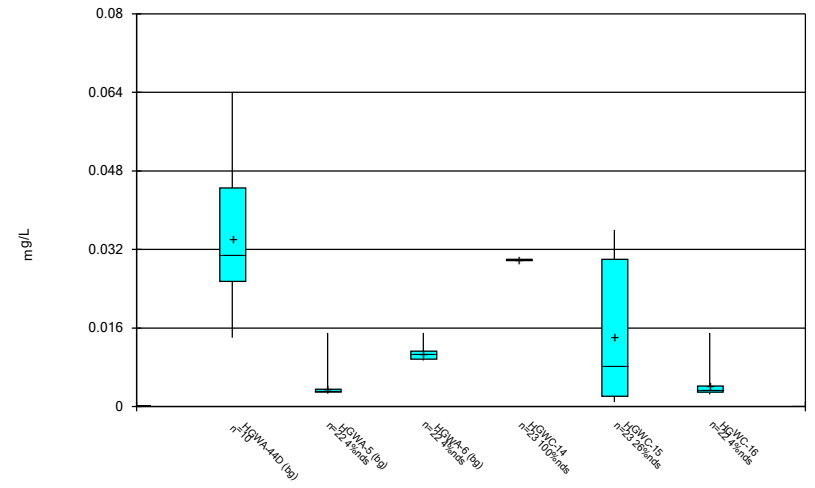
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Box & Whiskers Plot



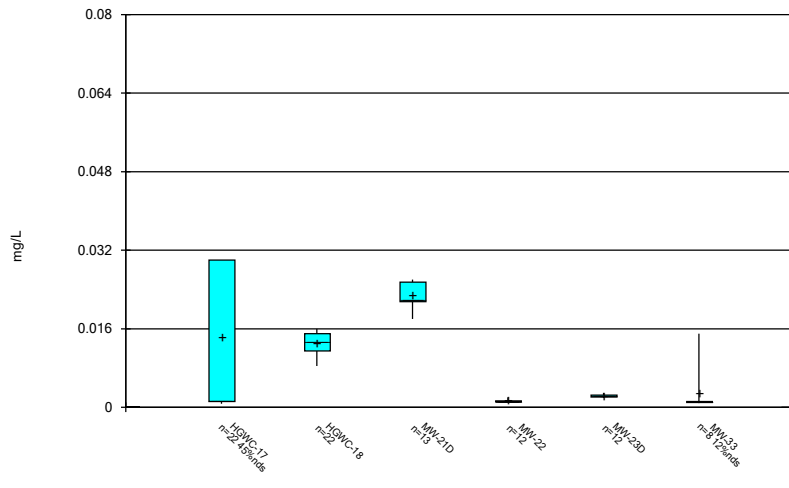
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Box & Whiskers Plot



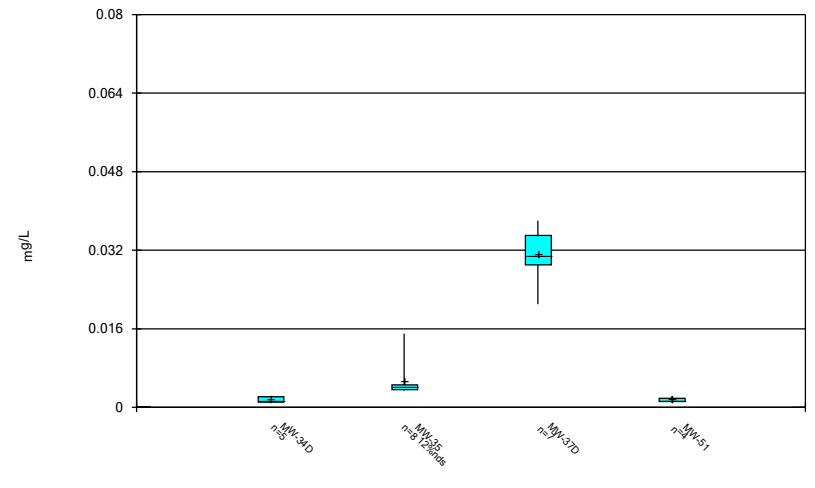
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 Plant Hammond Client: Southern Company Data: Hammond AP-2

Box & Whiskers Plot



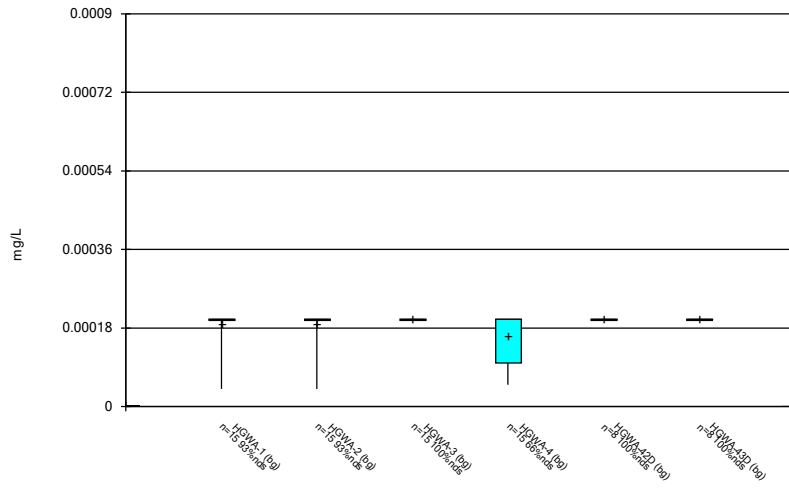
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Box & Whiskers Plot



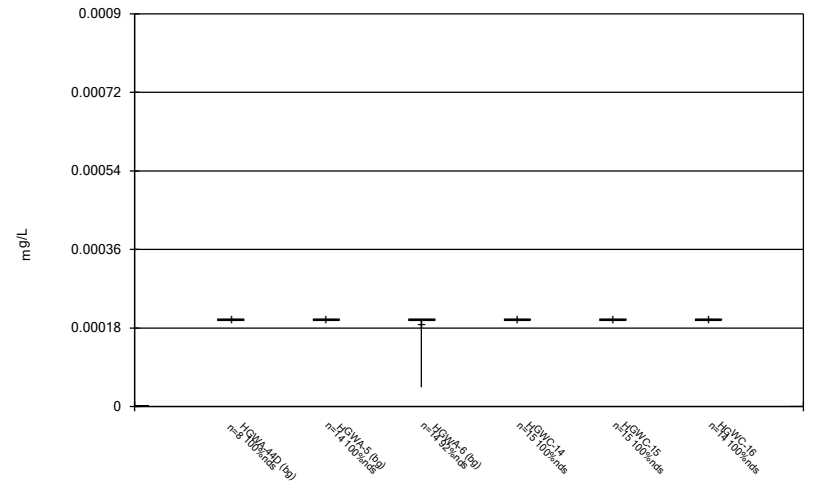
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Box & Whiskers Plot



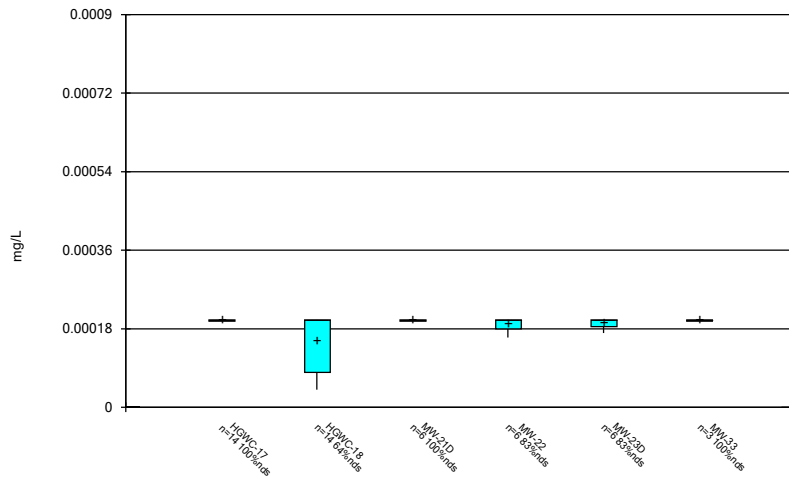
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 Plant Hammond Client: Southern Company Data: Hammond AP-2

Box & Whiskers Plot



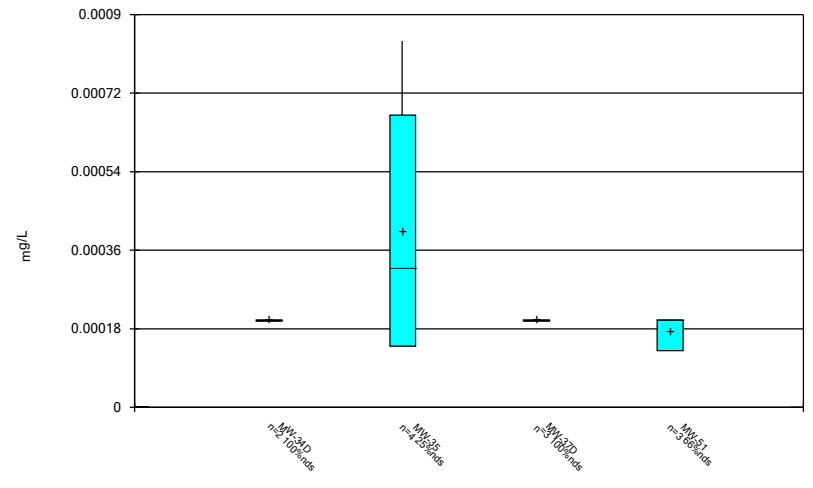
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Box & Whiskers Plot



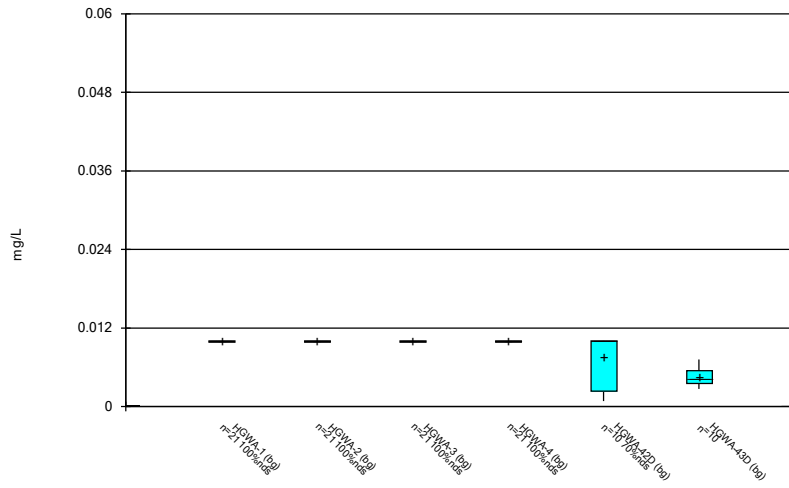
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 Plant Hammond Client: Southern Company Data: Hammond AP-2

Box & Whiskers Plot



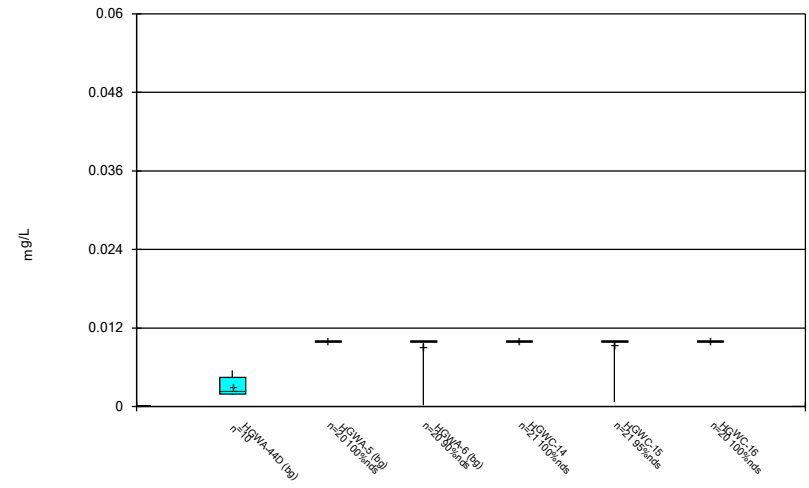
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 Plant Hammond Client: Southern Company Data: Hammond AP-2

Box & Whiskers Plot



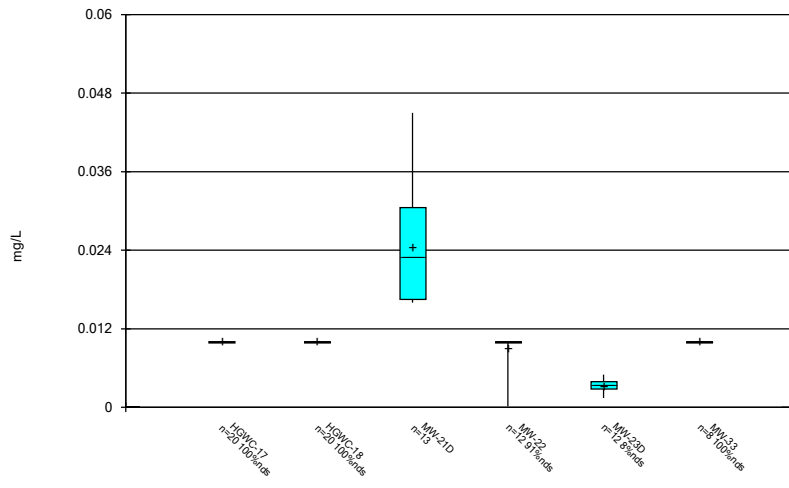
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 Plant Hammond Client: Southern Company Data: Hammond AP-2

Box & Whiskers Plot



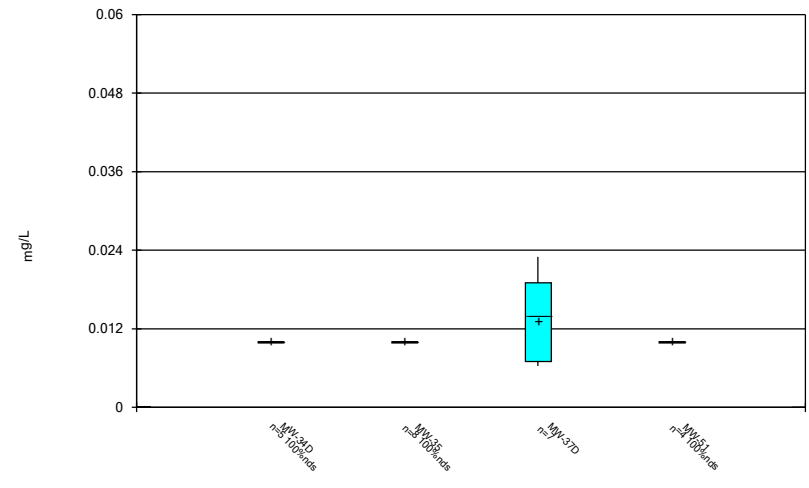
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Box & Whiskers Plot



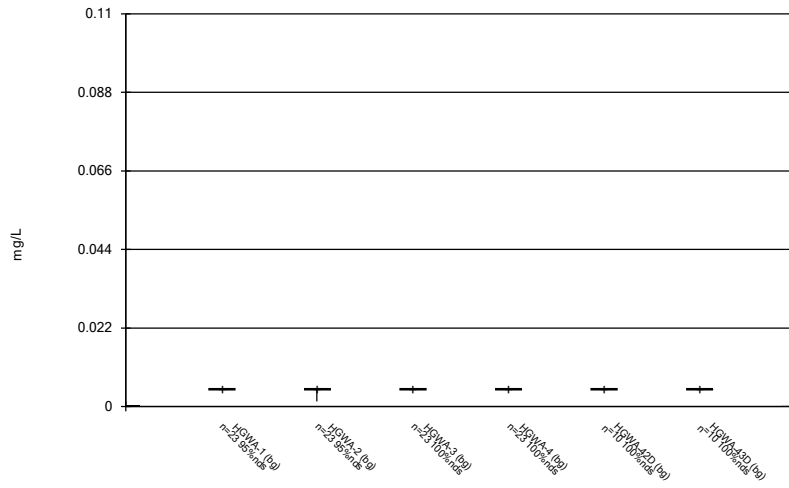
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Box & Whiskers Plot



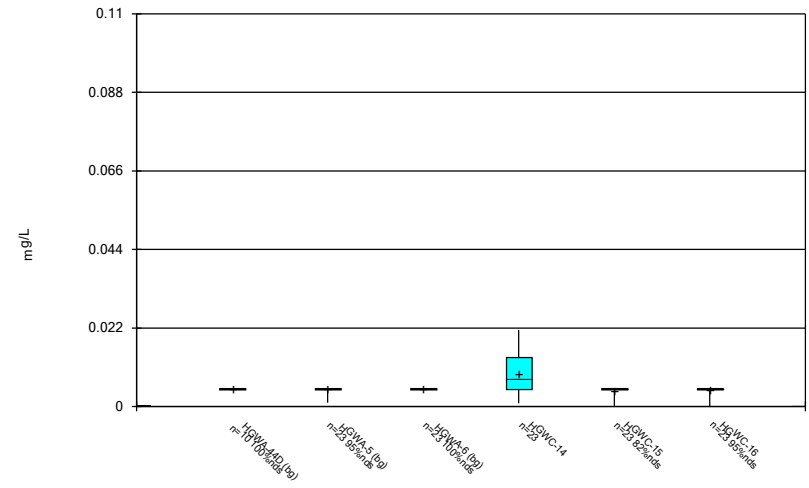
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 Plant Hammond Client: Southern Company Data: Hammond AP-2

Box & Whiskers Plot



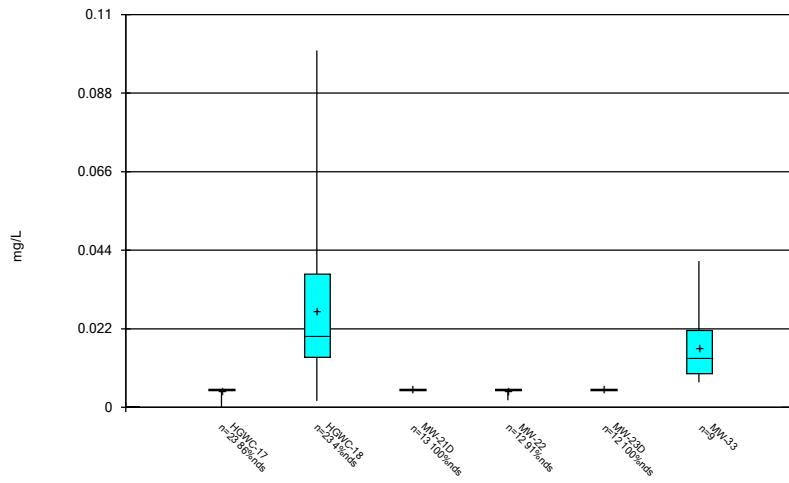
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Box & Whiskers Plot



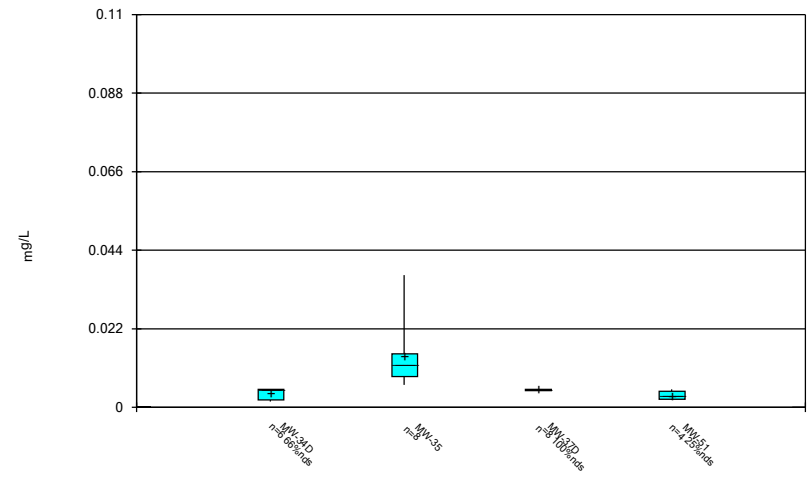
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 Plant Hammond Client: Southern Company Data: Hammond AP-2

Box & Whiskers Plot



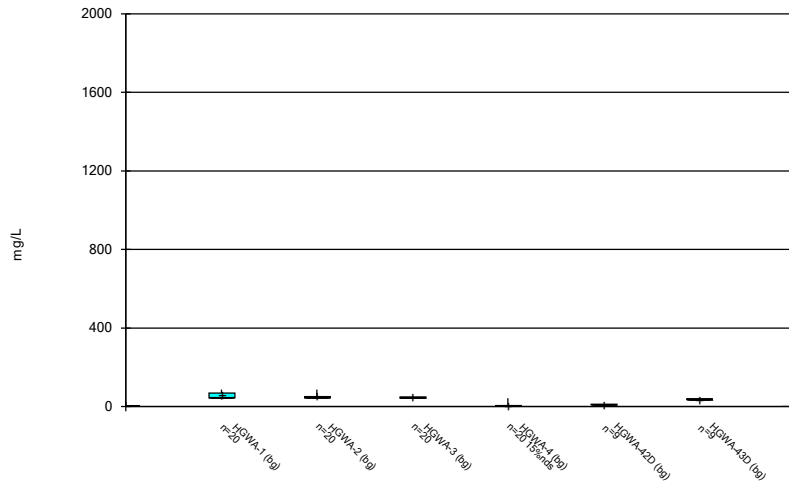
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Box & Whiskers Plot



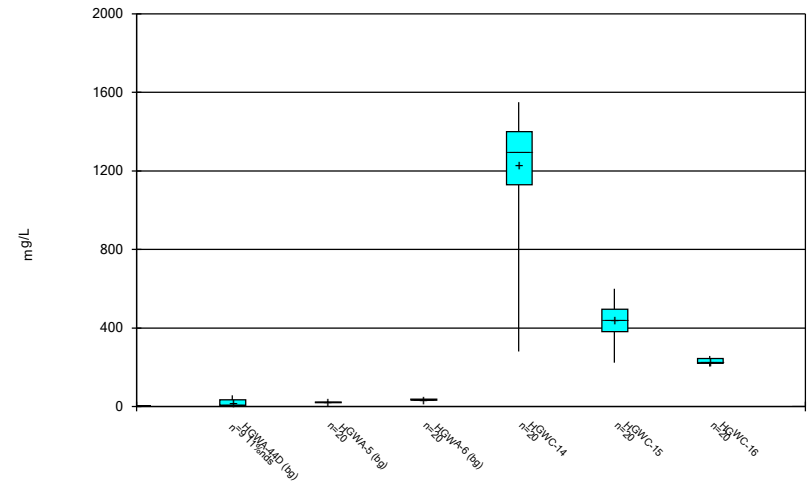
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Box & Whiskers Plot



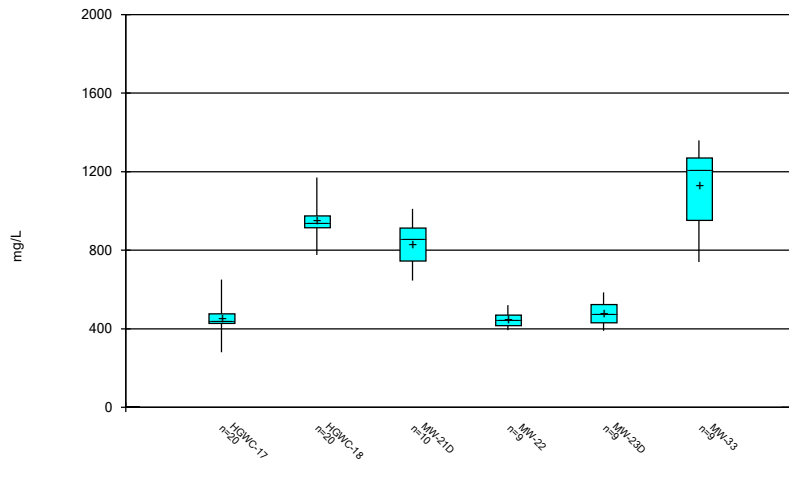
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Box & Whiskers Plot



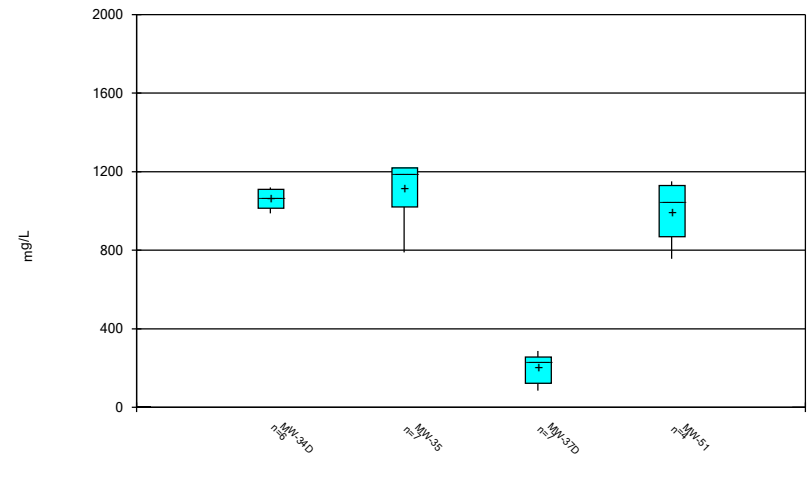
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Box & Whiskers Plot



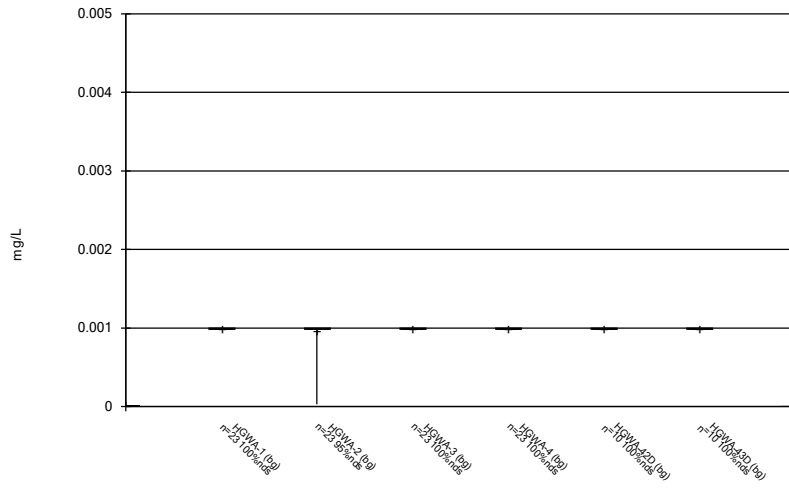
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Plant Hammond Client: Southern Company Data: Hammond AP-2

Box & Whiskers Plot



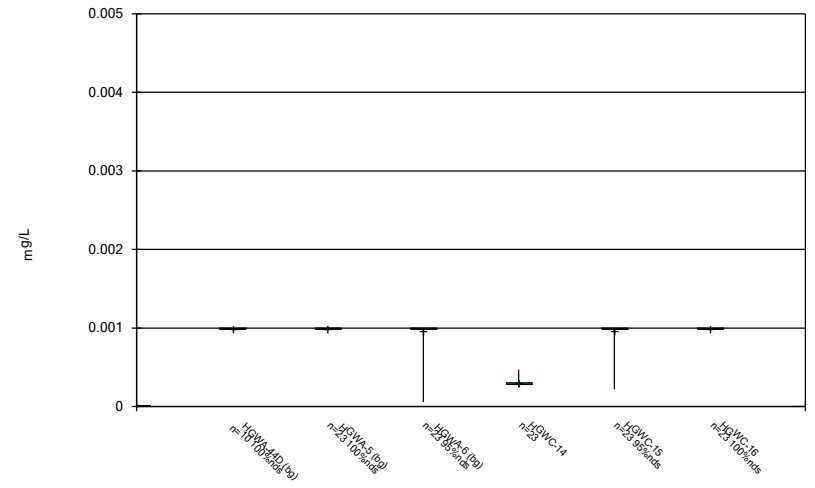
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Plant Hammond Client: Southern Company Data: Hammond AP-2

Box & Whiskers Plot



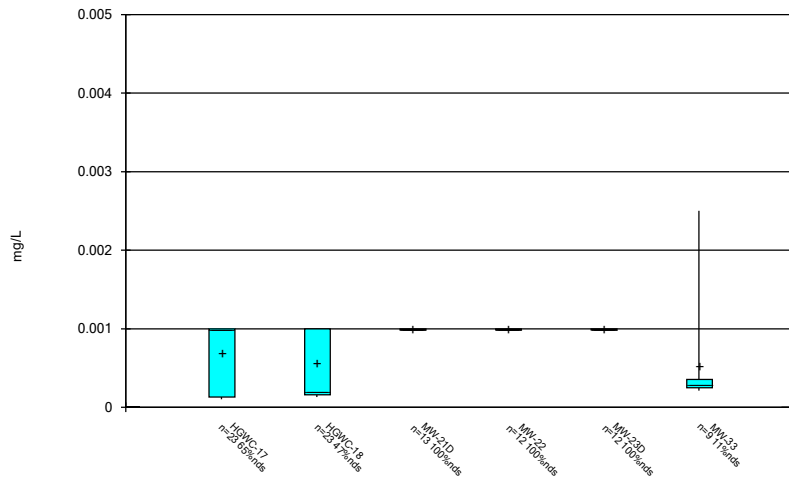
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Box & Whiskers Plot



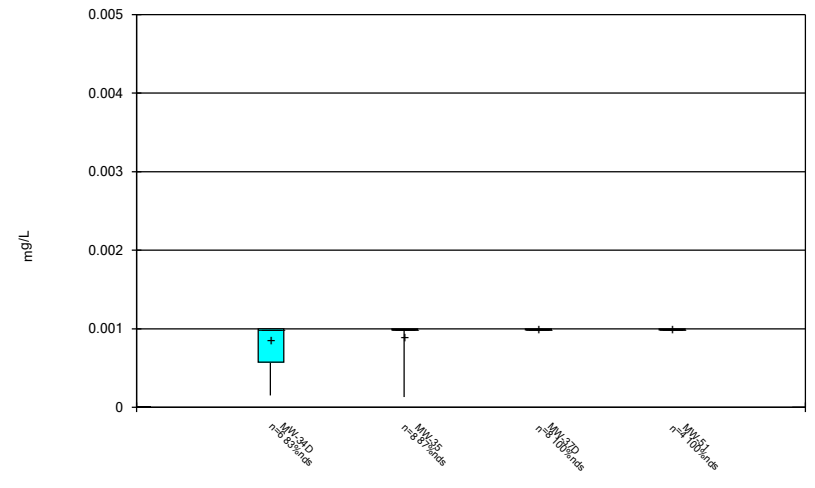
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Box & Whiskers Plot



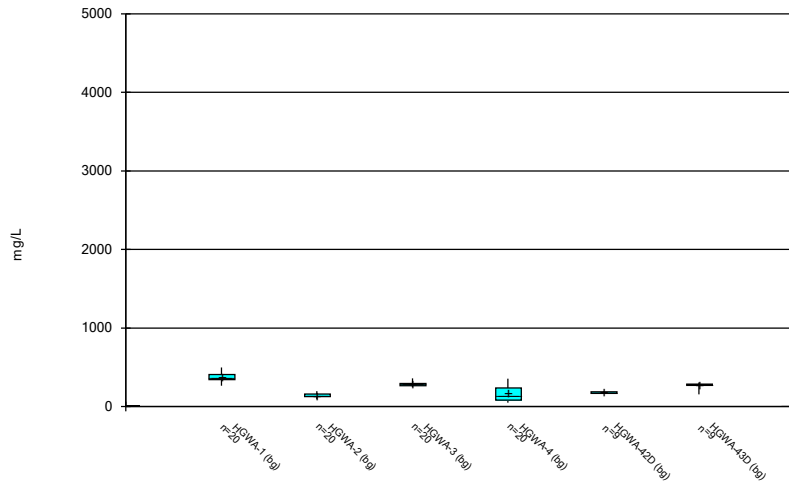
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Box & Whiskers Plot



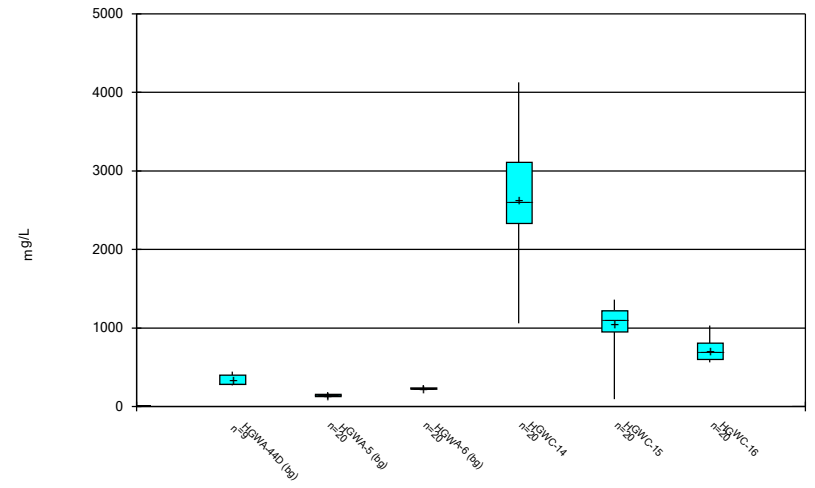
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 Plant Hammond Client: Southern Company Data: Hammond AP-2

Box & Whiskers Plot



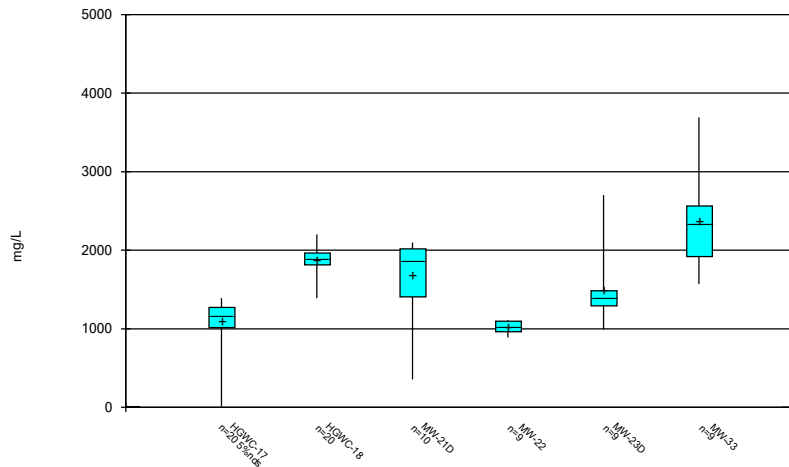
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 Plant Hammond Client: Southern Company Data: Hammond AP-2

Box & Whiskers Plot



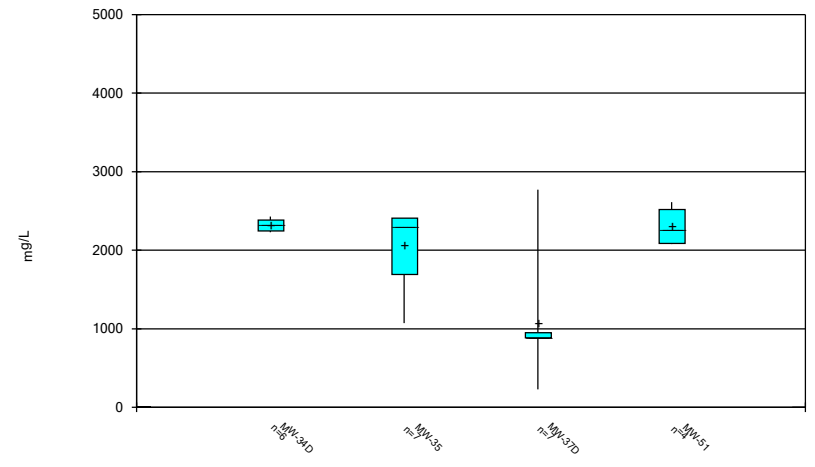
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 Plant Hammond Client: Southern Company Data: Hammond AP-2

Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 5/16/2023 2:08 PM View: Time Series & Box Plot
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 5/16/2023 2:08 PM View: Time Series & Box Plot
 Plant Hammond Client: Southern Company Data: Hammond AP-2

FIGURE C.

Outlier Summary

Plant Hammond Client: Southern Company Data: Hammond AP-2 Printed 5/12/2023, 1:08 PM

No values were flagged as outliers.

FIGURE D.

Interwell Prediction Limits - Significant Results

Plant Hammond Client: Southern Company Data: Hammond AP-2 Printed 5/12/2023, 1:14 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Obsrv.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	HGWC-14	0.44	n/a	2/1/2023	7.7	Yes	147	n/a	n/a	6.803	n/a	n/a	0.00009158	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-15	0.44	n/a	2/1/2023	2	Yes	147	n/a	n/a	6.803	n/a	n/a	0.00009158	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-16	0.44	n/a	2/1/2023	2.8	Yes	147	n/a	n/a	6.803	n/a	n/a	0.00009158	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-17	0.44	n/a	1/30/2023	6.8	Yes	147	n/a	n/a	6.803	n/a	n/a	0.00009158	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-18	0.44	n/a	2/1/2023	5.9	Yes	147	n/a	n/a	6.803	n/a	n/a	0.00009158	NP Inter (normality) 1 of 2
Calcium (mg/L)	HGWC-14	138	n/a	2/1/2023	464	Yes	147	n/a	n/a	0	n/a	n/a	0.00009158	NP Inter (normality) 1 of 2
Calcium (mg/L)	HGWC-15	138	n/a	2/1/2023	174	Yes	147	n/a	n/a	0	n/a	n/a	0.00009158	NP Inter (normality) 1 of 2
Calcium (mg/L)	HGWC-16	138	n/a	2/1/2023	216	Yes	147	n/a	n/a	0	n/a	n/a	0.00009158	NP Inter (normality) 1 of 2
Calcium (mg/L)	HGWC-17	138	n/a	1/30/2023	286	Yes	147	n/a	n/a	0	n/a	n/a	0.00009158	NP Inter (normality) 1 of 2
Calcium (mg/L)	HGWC-18	138	n/a	2/1/2023	288	Yes	147	n/a	n/a	0	n/a	n/a	0.00009158	NP Inter (normality) 1 of 2
Chloride (mg/L)	HGWC-14	44.8	n/a	2/1/2023	108	Yes	147	n/a	n/a	0	n/a	n/a	0.00009158	NP Inter (normality) 1 of 2
Chloride (mg/L)	HGWC-15	44.8	n/a	2/1/2023	85	Yes	147	n/a	n/a	0	n/a	n/a	0.00009158	NP Inter (normality) 1 of 2
Chloride (mg/L)	HGWC-16	44.8	n/a	2/1/2023	112	Yes	147	n/a	n/a	0	n/a	n/a	0.00009158	NP Inter (normality) 1 of 2
Chloride (mg/L)	HGWC-17	44.8	n/a	1/30/2023	154	Yes	147	n/a	n/a	0	n/a	n/a	0.00009158	NP Inter (normality) 1 of 2
Chloride (mg/L)	HGWC-18	44.8	n/a	2/1/2023	92.7	Yes	147	n/a	n/a	0	n/a	n/a	0.00009158	NP Inter (normality) 1 of 2
Sulfate (mg/L)	HGWC-14	86.9	n/a	2/1/2023	1060	Yes	147	n/a	n/a	2.721	n/a	n/a	0.00009158	NP Inter (normality) 1 of 2
Sulfate (mg/L)	HGWC-15	86.9	n/a	2/1/2023	341	Yes	147	n/a	n/a	2.721	n/a	n/a	0.00009158	NP Inter (normality) 1 of 2
Sulfate (mg/L)	HGWC-16	86.9	n/a	2/1/2023	257	Yes	147	n/a	n/a	2.721	n/a	n/a	0.00009158	NP Inter (normality) 1 of 2
Sulfate (mg/L)	HGWC-17	86.9	n/a	1/30/2023	451	Yes	147	n/a	n/a	2.721	n/a	n/a	0.00009158	NP Inter (normality) 1 of 2
Sulfate (mg/L)	HGWC-18	86.9	n/a	2/1/2023	776	Yes	147	n/a	n/a	2.721	n/a	n/a	0.00009158	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	HGWC-14	496	n/a	2/1/2023	1950	Yes	147	n/a	n/a	0	n/a	n/a	0.00009158	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	HGWC-15	496	n/a	2/1/2023	892	Yes	147	n/a	n/a	0	n/a	n/a	0.00009158	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	HGWC-16	496	n/a	2/1/2023	1030	Yes	147	n/a	n/a	0	n/a	n/a	0.00009158	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	HGWC-17	496	n/a	1/30/2023	1320	Yes	147	n/a	n/a	0	n/a	n/a	0.00009158	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	HGWC-18	496	n/a	2/1/2023	1430	Yes	147	n/a	n/a	0	n/a	n/a	0.00009158	NP Inter (normality) 1 of 2

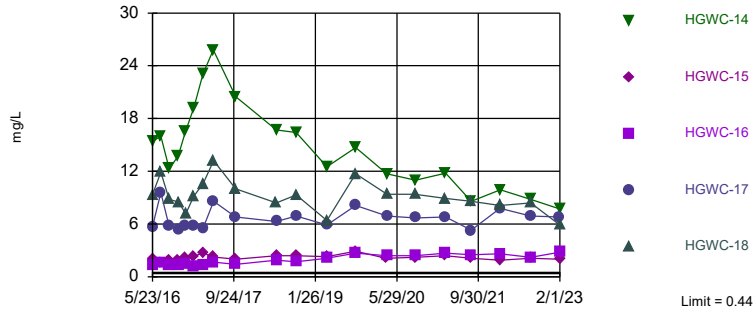
Interwell Prediction Limits - All Results

Plant Hammond Client: Southern Company Data: Hammond AP-2 Printed 5/12/2023, 1:14 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	HGWC-14	0.44	n/a	2/1/2023	7.7	Yes	147	n/a	n/a	6.803	n/a	n/a	0.00009158	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-15	0.44	n/a	2/1/2023	2	Yes	147	n/a	n/a	6.803	n/a	n/a	0.00009158	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-16	0.44	n/a	2/1/2023	2.8	Yes	147	n/a	n/a	6.803	n/a	n/a	0.00009158	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-17	0.44	n/a	1/30/2023	6.8	Yes	147	n/a	n/a	6.803	n/a	n/a	0.00009158	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-18	0.44	n/a	2/1/2023	5.9	Yes	147	n/a	n/a	6.803	n/a	n/a	0.00009158	NP Inter (normality) 1 of 2
Calcium (mg/L)	HGWC-14	138	n/a	2/1/2023	464	Yes	147	n/a	n/a	0	n/a	n/a	0.00009158	NP Inter (normality) 1 of 2
Calcium (mg/L)	HGWC-15	138	n/a	2/1/2023	174	Yes	147	n/a	n/a	0	n/a	n/a	0.00009158	NP Inter (normality) 1 of 2
Calcium (mg/L)	HGWC-16	138	n/a	2/1/2023	216	Yes	147	n/a	n/a	0	n/a	n/a	0.00009158	NP Inter (normality) 1 of 2
Calcium (mg/L)	HGWC-17	138	n/a	1/30/2023	286	Yes	147	n/a	n/a	0	n/a	n/a	0.00009158	NP Inter (normality) 1 of 2
Calcium (mg/L)	HGWC-18	138	n/a	2/1/2023	288	Yes	147	n/a	n/a	0	n/a	n/a	0.00009158	NP Inter (normality) 1 of 2
Chloride (mg/L)	HGWC-14	44.8	n/a	2/1/2023	108	Yes	147	n/a	n/a	0	n/a	n/a	0.00009158	NP Inter (normality) 1 of 2
Chloride (mg/L)	HGWC-15	44.8	n/a	2/1/2023	85	Yes	147	n/a	n/a	0	n/a	n/a	0.00009158	NP Inter (normality) 1 of 2
Chloride (mg/L)	HGWC-16	44.8	n/a	2/1/2023	112	Yes	147	n/a	n/a	0	n/a	n/a	0.00009158	NP Inter (normality) 1 of 2
Chloride (mg/L)	HGWC-17	44.8	n/a	1/30/2023	154	Yes	147	n/a	n/a	0	n/a	n/a	0.00009158	NP Inter (normality) 1 of 2
Chloride (mg/L)	HGWC-18	44.8	n/a	2/1/2023	92.7	Yes	147	n/a	n/a	0	n/a	n/a	0.00009158	NP Inter (normality) 1 of 2
Field pH (s.u.)	HGWC-14	8.25	4.57	2/1/2023	4.93	No	174	n/a	n/a	0	n/a	n/a	0.0001308	NP Inter (normality) 1 of 2
Field pH (s.u.)	HGWC-15	8.25	4.57	2/1/2023	6.22	No	174	n/a	n/a	0	n/a	n/a	0.0001308	NP Inter (normality) 1 of 2
Field pH (s.u.)	HGWC-16	8.25	4.57	2/1/2023	7.15	No	174	n/a	n/a	0	n/a	n/a	0.0001308	NP Inter (normality) 1 of 2
Field pH (s.u.)	HGWC-17	8.25	4.57	1/30/2023	6.44	No	174	n/a	n/a	0	n/a	n/a	0.0001308	NP Inter (normality) 1 of 2
Field pH (s.u.)	HGWC-18	8.25	4.57	2/1/2023	4.66	No	174	n/a	n/a	0	n/a	n/a	0.0001308	NP Inter (normality) 1 of 2
Fluoride (mg/L)	HGWC-14	1.3	n/a	2/1/2023	0.094J	No	174	n/a	n/a	31.03	n/a	n/a	0.00006541	NP Inter (normality) 1 of 2
Fluoride (mg/L)	HGWC-15	1.3	n/a	2/1/2023	0.086J	No	174	n/a	n/a	31.03	n/a	n/a	0.00006541	NP Inter (normality) 1 of 2
Fluoride (mg/L)	HGWC-16	1.3	n/a	2/1/2023	0.053J	No	174	n/a	n/a	31.03	n/a	n/a	0.00006541	NP Inter (normality) 1 of 2
Fluoride (mg/L)	HGWC-17	1.3	n/a	1/30/2023	0.097J	No	174	n/a	n/a	31.03	n/a	n/a	0.00006541	NP Inter (normality) 1 of 2
Fluoride (mg/L)	HGWC-18	1.3	n/a	2/1/2023	0.21	No	174	n/a	n/a	31.03	n/a	n/a	0.00006541	NP Inter (normality) 1 of 2
Sulfate (mg/L)	HGWC-14	86.9	n/a	2/1/2023	1060	Yes	147	n/a	n/a	2.721	n/a	n/a	0.00009158	NP Inter (normality) 1 of 2
Sulfate (mg/L)	HGWC-15	86.9	n/a	2/1/2023	341	Yes	147	n/a	n/a	2.721	n/a	n/a	0.00009158	NP Inter (normality) 1 of 2
Sulfate (mg/L)	HGWC-16	86.9	n/a	2/1/2023	257	Yes	147	n/a	n/a	2.721	n/a	n/a	0.00009158	NP Inter (normality) 1 of 2
Sulfate (mg/L)	HGWC-17	86.9	n/a	1/30/2023	451	Yes	147	n/a	n/a	2.721	n/a	n/a	0.00009158	NP Inter (normality) 1 of 2
Sulfate (mg/L)	HGWC-18	86.9	n/a	2/1/2023	776	Yes	147	n/a	n/a	2.721	n/a	n/a	0.00009158	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	HGWC-14	496	n/a	2/1/2023	1950	Yes	147	n/a	n/a	0	n/a	n/a	0.00009158	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	HGWC-15	496	n/a	2/1/2023	892	Yes	147	n/a	n/a	0	n/a	n/a	0.00009158	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	HGWC-16	496	n/a	2/1/2023	1030	Yes	147	n/a	n/a	0	n/a	n/a	0.00009158	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	HGWC-17	496	n/a	1/30/2023	1320	Yes	147	n/a	n/a	0	n/a	n/a	0.00009158	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	HGWC-18	496	n/a	2/1/2023	1430	Yes	147	n/a	n/a	0	n/a	n/a	0.00009158	NP Inter (normality) 1 of 2

Exceeds Limit: HGWC-14, HGWC-15, HGWC-16, HGWC-17, HGWC-18

Prediction Limit
Interwell Non-parametric

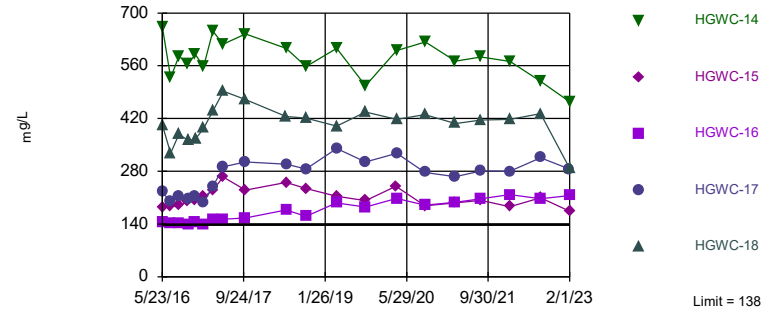


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 147 background values. 6.803% NDs. Annual per-constituent alpha = 0.0009155. Individual comparison alpha = 0.00009158 (1 of 2). Comparing 5 points to limit.

Constituent: Boron Analysis Run 5/12/2023 1:12 PM View: Prediction Limits
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Exceeds Limit: HGWC-14, HGWC-15, HGWC-16, HGWC-17, HGWC-18

Prediction Limit
Interwell Non-parametric

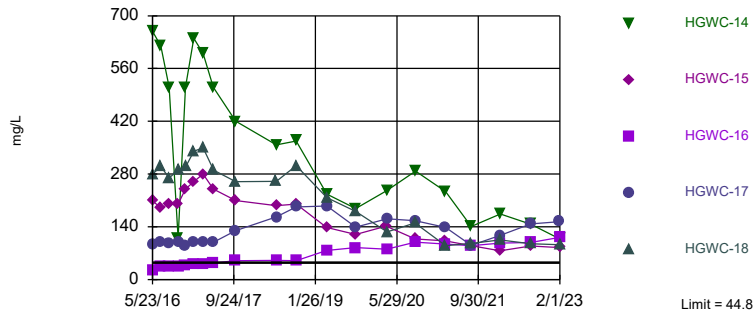


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 147 background values. Annual per-constituent alpha = 0.0009155. Individual comparison alpha = 0.00009158 (1 of 2). Comparing 5 points to limit.

Constituent: Calcium Analysis Run 5/12/2023 1:12 PM View: Prediction Limits
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Exceeds Limit: HGWC-14, HGWC-15, HGWC-16, HGWC-17, HGWC-18

Prediction Limit
Interwell Non-parametric

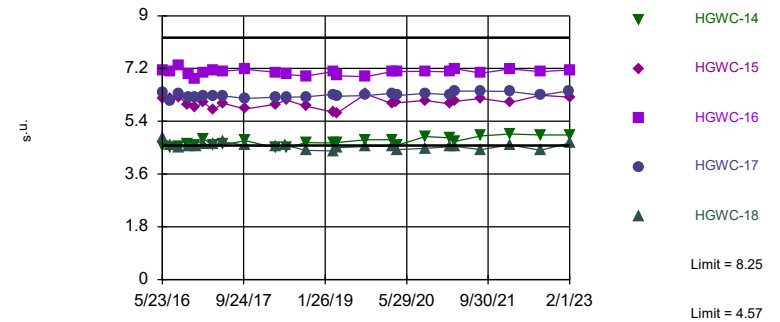


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 147 background values. Annual per-constituent alpha = 0.0009155. Individual comparison alpha = 0.00009158 (1 of 2). Comparing 5 points to limit.

Constituent: Chloride Analysis Run 5/12/2023 1:12 PM View: Prediction Limits
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Within Limits

Prediction Limit
Interwell Non-parametric

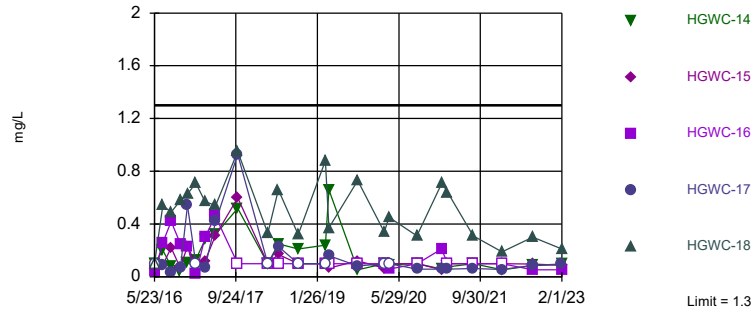


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 174 background values. Annual per-constituent alpha = 0.001308. Individual comparison alpha = 0.0001308 (1 of 2). Comparing 5 points to limit.

Constituent: Field pH Analysis Run 5/12/2023 1:12 PM View: Prediction Limits
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Within Limit

Prediction Limit
 Interwell Non-parametric

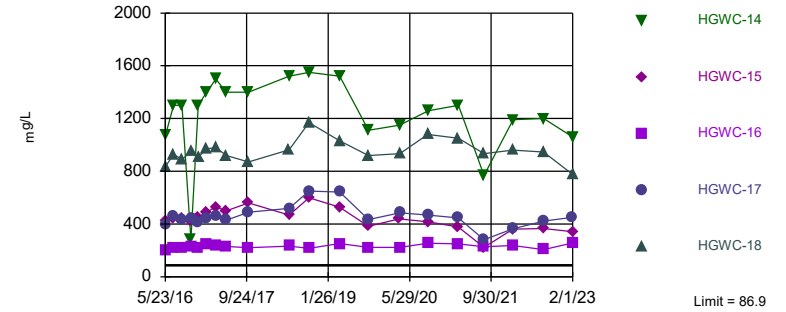


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 174 background values. 31.03% NDs. Annual per-constituent alpha = 0.0006539. Individual comparison alpha = 0.00006541 (1 of 2). Comparing 5 points to limit.

Constituent: Fluoride Analysis Run 5/12/2023 1:12 PM View: Prediction Limits
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Exceeds Limit: HGWC-14, HGWC-15,
 HGWC-16, HGWC-17, HGWC-18

Prediction Limit
 Interwell Non-parametric

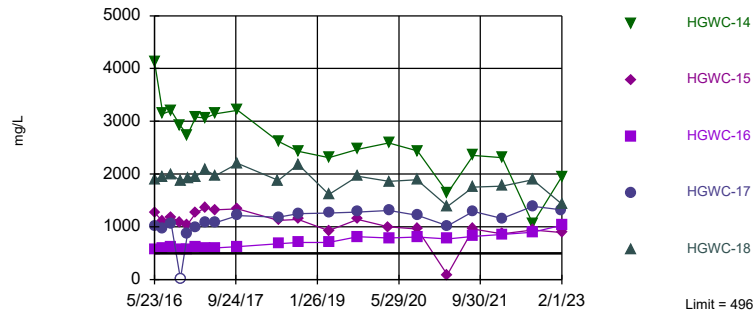


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 147 background values. 2.721% NDs. Annual per-constituent alpha = 0.0009155. Individual comparison alpha = 0.00009158 (1 of 2). Comparing 5 points to limit.

Constituent: Sulfate Analysis Run 5/12/2023 1:12 PM View: Prediction Limits
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Exceeds Limit: HGWC-14, HGWC-15,
 HGWC-16, HGWC-17, HGWC-18

Prediction Limit
 Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 147 background values. Annual per-constituent alpha = 0.0009155. Individual comparison alpha = 0.00009158 (1 of 2). Comparing 5 points to limit.

Constituent: Total Dissolved Solids Analysis Run 5/12/2023 1:12 PM View: Prediction Limits
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/12/2023 1:14 PM View: Prediction Limits

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-4 (bg)	HGWA-5 (bg)	HGWA-6 (bg)	HGWC-14	HGWC-15	HGWC-16
5/19/2016	0.0214 (J)	0.0321 (J)	<0.04	<0.04	<0.04				
5/20/2016						0.0363 (J)			
5/23/2016							15.4	2.02	1.36
5/24/2016									
7/11/2016	0.0142 (J)	0.0337 (J)		0.0175 (J)	0.0052 (J)	0.0179 (J)			
7/12/2016			0.0074 (J)				16	1.65	1.62
8/30/2016	0.0074 (J)	0.0173 (J)	<0.04	0.0072 (J)	0.0068 (J)	0.014 (J)			
9/1/2016							12.3	1.93	1.31
10/19/2016	0.0224 (J)	0.0341 (J)	0.0085 (J)	0.018 (J)					
10/20/2016					0.0135 (J)	0.0197 (J)			
10/24/2016							13.7	1.93	
10/25/2016									1.27
12/6/2016	0.0211 (J)	0.0326 (J)	0.0085 (J)	0.0158 (J)					
12/7/2016							16.5	2.23	1.42
12/8/2016					0.0083 (J)	0.0159 (J)			
1/24/2017	0.0165 (J)	0.0365 (J)	0.01 (J)	0.0145 (J)	0.0072 (J)	<0.04			
1/26/2017							19.2	2.31	1.19
3/21/2017	0.0187 (J)	0.0349 (J)	0.0079 (J)	0.0101 (J)	<0.04	0.0166 (J)			
3/22/2017									1.32
3/23/2017							23.1	2.72	
5/22/2017	0.0782	0.0475	0.0131 (J)						
5/23/2017				0.0159 (J)	0.0095 (J)	0.0167 (J)			
5/24/2017							25.8	2.26	1.67
5/25/2017									
10/3/2017	0.0198 (J)	0.0386 (J)	0.0097 (J)	0.0162 (J)	0.0071 (J)	0.017 (J)			
10/4/2017							20.5	2	1.43
6/4/2018	0.02 (J)	0.036 (J)	0.017 (J)	0.014 (J)					
6/5/2018					0.0066 (J)	0.016 (J)			
6/6/2018							16.7	2.4	1.9
10/1/2018	0.013 (J)	0.035 (J)	0.0061 (J)	0.0093 (J)					
10/2/2018					0.0081 (J)	0.014 (J)			
10/3/2018							16.4	2.4	1.7
4/1/2019			0.0066 (J)						
4/2/2019	0.016 (J)	0.034 (J)		0.01 (J)	0.0052 (J)	0.013 (J)			
4/4/2019								2.3	2.1
4/5/2019							12.5		
9/23/2019	0.021 (J)	0.04 (J)	0.0081 (J)						
9/24/2019				0.013 (J)	0.0088 (J)	0.016 (J)	14.7	2.9	
9/25/2019									2.7
3/25/2020	0.025 (J)	0.039 (J)	0.0096 (J)			0.021 (J)			
3/26/2020				0.012 (J)	0.0072 (J)			2.1	
3/30/2020							11.7		2.4
3/31/2020									
9/15/2020	0.017 (J)	0.044 (J)	0.0071 (J)	0.013 (J)	0.012 (J)	0.016 (J)			
9/16/2020									
9/17/2020								2.2	2.4
9/18/2020							11		
11/10/2020									
11/11/2020									
12/15/2020									
1/19/2021									
1/20/2021									

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/12/2023 1:14 PM View: Prediction Limits
 Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-4 (bg)	HGWA-5 (bg)	HGWA-6 (bg)	HGWC-14	HGWC-15	HGWC-16
3/10/2021	0.015 (J)			0.012 (J)					
3/11/2021		0.056	0.015 (J)		0.0075 (J)	0.018 (J)			
3/16/2021								2.4	
3/17/2021							11.8		2.7
3/18/2021									
8/11/2021	0.02 (J)								
8/12/2021		0.044	<0.04	0.014 (J)	0.0092 (J)	0.014 (J)			
8/13/2021									
8/18/2021							8.6		
8/19/2021								2.1	2.5
2/1/2022	0.016 (J)	0.056	0.011 (J)						
2/7/2022				0.017 (J)	<0.04	0.019 (J)			
2/8/2022								1.9	2.6
2/9/2022							9.9		
8/2/2022	0.012 (J)	0.047	<0.04	0.02 (J)					
8/9/2022									
8/10/2022					0.011 (J)	0.015 (J)			2.2
8/11/2022							8.8	2.1	
1/23/2023			0.012 (J)	0.023 (J)					
1/24/2023	0.015 (J)	0.046							
1/27/2023					<0.04	0.013 (J)			
1/30/2023									
2/1/2023							7.7	2	2.8

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/12/2023 1:14 PM View: Prediction Limits
 Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-17	HGWC-18	HGWA-44D (bg)	HGWA-43D (bg)	HGWA-42D (bg)
5/19/2016					
5/20/2016					
5/23/2016	5.7				
5/24/2016		9.33			
7/11/2016					
7/12/2016	9.58	11.9			
8/30/2016					
9/1/2016	5.76	8.8			
10/19/2016					
10/20/2016					
10/24/2016					
10/25/2016	5.38	8.5			
12/6/2016					
12/7/2016	5.74				
12/8/2016		7.15			
1/24/2017					
1/26/2017	5.78	9.17			
3/21/2017					
3/22/2017	5.52				
3/23/2017		10.6			
5/22/2017					
5/23/2017					
5/24/2017					
5/25/2017	8.58	13.2			
10/3/2017					
10/4/2017	6.8	10			
6/4/2018					
6/5/2018		8.4			
6/6/2018	6.3				
10/1/2018					
10/2/2018					
10/3/2018	6.9	9.3			
4/1/2019					
4/2/2019					
4/4/2019					
4/5/2019	5.9	6.4			
9/23/2019					
9/24/2019					
9/25/2019	8.1	11.7			
3/25/2020					
3/26/2020					
3/30/2020					
3/31/2020	6.9	9.4			
9/15/2020		9.4			
9/16/2020	6.7		0.23	0.061 (J)	
9/17/2020					0.098 (J)
9/18/2020					
11/10/2020			0.29	0.057 (J)	
11/11/2020					0.058 (J)
12/15/2020			0.31	0.052 (J)	0.043 (J)
1/19/2021			0.4	0.049 (J)	
1/20/2021					0.045 (J)

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/12/2023 1:14 PM View: Prediction Limits
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-17	HGWC-18	HGWA-44D (bg)	HGWA-43D (bg)	HGWA-42D (bg)
3/10/2021			0.39		0.048
3/11/2021				0.06	
3/16/2021					
3/17/2021					
3/18/2021	6.8	8.9			
8/11/2021				0.042	
8/12/2021					0.044
8/13/2021			0.31		
8/18/2021	5.3				
8/19/2021		8.6			
2/1/2022			0.44	0.05	
2/7/2022					0.047
2/8/2022	7.8	8.1			
2/9/2022					
8/2/2022			0.31	0.043	
8/9/2022					0.055
8/10/2022	6.9	8.4			
8/11/2022					
1/23/2023					0.052
1/24/2023			0.44	0.037 (J)	
1/27/2023					
1/30/2023	6.8				
2/1/2023		5.9			

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/12/2023 1:14 PM View: Prediction Limits
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-4 (bg)	HGWA-5 (bg)	HGWA-6 (bg)	HGWC-14	HGWC-15	HGWC-16
3/10/2021	111			5.9					
3/11/2021		43.8	83.8		28.3	53.1			
3/16/2021								196	
3/17/2021							572		198
3/18/2021									
8/11/2021	113								
8/12/2021		21.9	84	5.4	32	54.7			
8/13/2021									
8/18/2021							583		
8/19/2021								203	207
2/1/2022	106	27.2	85.1						
2/7/2022				5.9	30	53.4			
2/8/2022								186	218
2/9/2022							571		
8/2/2022	117	31.2	84.6	6					
8/9/2022									
8/10/2022					27.4	55.7			207
8/11/2022							519	210	
1/23/2023			85	24					
1/24/2023	117	29.4							
1/27/2023					28.5	55.4			
1/30/2023									
2/1/2023							464	174	216

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/12/2023 1:14 PM View: Prediction Limits
 Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-17	HGWC-18	HGWA-44D (bg)	HGWA-43D (bg)	HGWA-42D (bg)
5/19/2016					
5/20/2016					
5/23/2016	225				
5/24/2016		403			
7/11/2016					
7/12/2016	199	328			
8/30/2016					
9/1/2016	213	379			
10/19/2016					
10/20/2016					
10/24/2016					
10/25/2016	206	362			
12/6/2016					
12/7/2016	212				
12/8/2016		366			
1/24/2017					
1/26/2017	198	394			
3/21/2017					
3/22/2017	239				
3/23/2017		440			
5/22/2017					
5/23/2017					
5/24/2017					
5/25/2017	292	492			
10/3/2017					
10/4/2017	305	470			
6/4/2018					
6/5/2018		425			
6/6/2018	299				
10/1/2018					
10/2/2018					
10/3/2018	286	421			
4/1/2019					
4/2/2019					
4/4/2019					
4/5/2019	340	400			
9/23/2019					
9/24/2019					
9/25/2019	305	437			
3/25/2020					
3/26/2020					
3/30/2020					
3/31/2020	328	418			
9/15/2020		430			
9/16/2020	277		30	56	
9/17/2020					43.8
9/18/2020					
11/10/2020			33.6	63.3	
11/11/2020					44.4
12/15/2020			28.7	62.6	47.3
1/19/2021			33	60.1	
1/20/2021					41.8

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/12/2023 1:14 PM View: Prediction Limits
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-17	HGWC-18	HGWA-44D (bg)	HGWA-43D (bg)	HGWA-42D (bg)
3/10/2021			18.3		43.4
3/11/2021				59.6	
3/16/2021					
3/17/2021					
3/18/2021	266	407			
8/11/2021				61	
8/12/2021					43.6
8/13/2021			28.9		
8/18/2021	281				
8/19/2021		416			
2/1/2022			24.8	55.9	
2/7/2022					48.7
2/8/2022	280	418			
2/9/2022					
8/2/2022			20.9	54.1	
8/9/2022					44.1
8/10/2022	316	433			
8/11/2022					
1/23/2023					43.7
1/24/2023			13.2	56.6	
1/27/2023					
1/30/2023	286				
2/1/2023		288			

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/12/2023 1:14 PM View: Prediction Limits
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-4 (bg)	HGWA-5 (bg)	HGWA-6 (bg)	HGWC-14	HGWC-15	HGWC-16
3/10/2021	7.4			2.9					
3/11/2021		5.1	5.9		1.4	1.2			
3/16/2021								103	
3/17/2021							233		93.8
3/18/2021									
8/11/2021	9.6								
8/12/2021		5.2	4.8	2.4	1.4	0.94 (J)			
8/13/2021									
8/18/2021							141		
8/19/2021								89.9	90.1
2/1/2022	7.5	7	5.7						
2/7/2022				2.4	1.4	1.1			
2/8/2022								76.6	96.4
2/9/2022							174		
8/2/2022	14.1	7.8	5.9	2.9					
8/9/2022									
8/10/2022					2.1	1.3			98.3
8/11/2022							147	89.2	
1/23/2023			5.6	1.6					
1/24/2023	9	7.1							
1/27/2023					1.6	1.4			
1/30/2023									
2/1/2023							108	85	112

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/12/2023 1:14 PM View: Prediction Limits
 Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-17	HGWC-18	HGWA-44D (bg)	HGWA-43D (bg)	HGWA-42D (bg)
5/19/2016					
5/20/2016					
5/23/2016	94				
5/24/2016		280			
7/11/2016					
7/12/2016	100	300			
8/30/2016					
9/1/2016	95	270			
10/19/2016					
10/20/2016					
10/24/2016					
10/25/2016	98	290			
12/6/2016					
12/7/2016	89				
12/8/2016		300			
1/24/2017					
1/26/2017	99	340			
3/21/2017					
3/22/2017	100				
3/23/2017		350			
5/22/2017					
5/23/2017					
5/24/2017					
5/25/2017	99	290			
10/3/2017					
10/4/2017	130	260			
6/4/2018					
6/5/2018		261			
6/6/2018	166				
10/1/2018					
10/2/2018					
10/3/2018	193	302			
4/1/2019					
4/2/2019					
4/4/2019					
4/5/2019	195	217			
9/23/2019					
9/24/2019					
9/25/2019	139	181			
3/25/2020					
3/26/2020					
3/30/2020					
3/31/2020	161	126			
9/15/2020		150			
9/16/2020	156		7.2	4.1	
9/17/2020					5.8
9/18/2020					
11/10/2020			7.8	4.4	
11/11/2020					3.1
12/15/2020			9.4	4.7	3.2
1/19/2021			9.5	4.1	
1/20/2021					2.8

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/12/2023 1:14 PM View: Prediction Limits
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-17	HGWC-18	HGWA-44D (bg)	HGWA-43D (bg)	HGWA-42D (bg)
3/10/2021			12.3		3
3/11/2021				4.5	
3/16/2021					
3/17/2021					
3/18/2021	138	90.2			
8/11/2021				3.5	
8/12/2021					2.6
8/13/2021			39.9		
8/18/2021	90.7				
8/19/2021		95.8			
2/1/2022			44.8	4.1	
2/7/2022					3.1
2/8/2022	117	105			
2/9/2022					
8/2/2022			19.8	4.3	
8/9/2022					3.7
8/10/2022	148	95.2			
8/11/2022					
1/23/2023					3.3
1/24/2023			24.9	4.3	
1/27/2023					
1/30/2023	154				
2/1/2023		92.7			

Prediction Limit

Constituent: Field pH (s.u.) Analysis Run 5/12/2023 1:14 PM View: Prediction Limits
 Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-1 (bg)	HGWA-4 (bg)	HGWA-2 (bg)	HGWA-5 (bg)	HGWA-3 (bg)	HGWA-6 (bg)	HGWC-14	HGWC-15	HGWC-16
9/15/2020	7.15	5.75	5.22	6.33	7.29	7.37			
9/16/2020									
9/17/2020								6.11	7.11
9/18/2020							4.88		
11/10/2020									
11/11/2020									
12/15/2020									
1/19/2021									
1/20/2021									
2/8/2021	7.11	4.94							
2/9/2021			5.42	6.35	7.23	7.4			
2/10/2021									7.08
2/11/2021							4.84		
2/12/2021								5.99	
3/10/2021	6.95	5.28							
3/11/2021			5.8	6.48	7.33	7.56			
3/16/2021								6.08	
3/17/2021							4.72		7.19
3/18/2021									
8/11/2021	6.98								
8/12/2021		5.26	5.05	6.46	7.31	7.47			
8/13/2021									
8/18/2021							4.9		
8/19/2021								6.18	7.04
2/1/2022	7.19		5.24		7.45				
2/7/2022		5.24		6.51		7.65			
2/8/2022								6.04	7.18
2/9/2022							4.97		
8/2/2022	7.03	4.86	4.57		7.02				
8/9/2022									
8/10/2022				6.22		7.53			7.09
8/11/2022							4.93	6.29	
1/23/2023		5.62			7.32				
1/24/2023	6.76		5.22						
1/27/2023				6.52		7.66			
1/30/2023									
2/1/2023							4.93	6.22	7.15

Prediction Limit

Constituent: Field pH (s.u.) Analysis Run: 5/12/2023 1:14 PM View: Prediction Limits
Plant: Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-17	HGWC-18	HGWA-43D (bg)	HGWA-44D (bg)	HGWA-42D (bg)
5/19/2016					
5/20/2016					
5/23/2016	6.4				
5/24/2016		4.83			
7/11/2016					
7/12/2016	6.09	4.58			
8/30/2016					
9/1/2016	6.35	4.51			
10/19/2016					
10/20/2016					
10/24/2016					
10/25/2016	6.23	4.53			
12/6/2016					
12/7/2016	6.23				
12/8/2016		4.56			
1/24/2017					
1/26/2017	6.24	4.61			
3/21/2017					
3/22/2017	6.25				
3/23/2017		4.63			
5/22/2017					
5/23/2017					
5/24/2017					
5/25/2017	6.27	4.69			
10/3/2017					
10/4/2017	6.18	4.58			
4/2/2018					
4/3/2018	6.22	4.54			
4/4/2018					
6/4/2018					
6/5/2018		4.57			
6/6/2018	6.22				
10/1/2018					
10/2/2018					
10/3/2018	6.23	4.41			
3/11/2019					
3/12/2019					
3/14/2019		4.39			
3/15/2019	6.32				
4/1/2019					
4/2/2019					
4/4/2019					
4/5/2019	6.26	4.5			
9/23/2019					
9/24/2019					
9/25/2019	6.28	4.54			
3/2/2020					
3/3/2020	6.35	4.55			
3/25/2020					
3/26/2020					
3/30/2020					
3/31/2020	6.28	4.43			

Prediction Limit

Constituent: Field pH (s.u.) Analysis Run 5/12/2023 1:14 PM View: Prediction Limits
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-17	HGWC-18	HGWA-43D (bg)	HGWA-44D (bg)	HGWA-42D (bg)
9/15/2020		4.47			
9/16/2020	6.35		7.52	7.83	
9/17/2020					7.62
9/18/2020					
11/10/2020			7.27	7.84	
11/11/2020					7.68
12/15/2020			7.39	7.87	7.64
1/19/2021			7.39	7.86	
1/20/2021					7.68
2/8/2021					7.64
2/9/2021			7.44	7.84	
2/10/2021					
2/11/2021	6.31	4.53			
2/12/2021					
3/10/2021				7.92	7.7
3/11/2021			7.46		
3/16/2021					
3/17/2021					
3/18/2021	6.43	4.54			
8/11/2021			7.4		
8/12/2021					7.7
8/13/2021				7.77	
8/18/2021	6.43				
8/19/2021		4.43			
2/1/2022			7.52	8.25	
2/7/2022					7.85
2/8/2022	6.42	4.59			
2/9/2022					
8/2/2022			7.15	7.9	
8/9/2022					7.58
8/10/2022	6.29	4.41			
8/11/2022					
1/23/2023					7.55
1/24/2023			7.56	8.22	
1/27/2023					
1/30/2023	6.44				
2/1/2023		4.66			

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/12/2023 1:14 PM View: Prediction Limits

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-1 (bg)	HGWA-4 (bg)	HGWA-2 (bg)	HGWA-5 (bg)	HGWA-3 (bg)	HGWA-6 (bg)	HGWC-14	HGWC-15	HGWC-16
5/19/2016	0.105 (J)	0.036 (J)	0.0303 (J)	0.08 (J)	0.0513 (J)				
5/20/2016						0.065 (J)			
5/23/2016							<0.1	<0.1	0.038 (J)
5/24/2016									
7/11/2016	0.16 (J)	0.09 (J)	0.05 (J)	0.09 (J)		0.13 (J)			
7/12/2016					0.12 (J)		0.2 (J)	0.09 (J)	0.26 (J)
8/30/2016	0.09 (J)	0.06 (J)	0.06 (J)	0.08 (J)	0.09 (J)	0.07 (J)			
9/1/2016							0.08 (J)	0.22 (J)	0.42
10/19/2016	0.1 (J)	0.07 (J)	0.04 (J)		0.1 (J)				
10/20/2016				0.1 (J)		0.06 (J)			
10/24/2016							0.04 (J)	0.07 (J)	
10/25/2016									0.25 (J)
12/6/2016	0.11 (J)	0.07 (J)	0.36		0.21 (J)				
12/7/2016							0.11 (J)	0.23 (J)	0.23 (J)
12/8/2016				0.08 (J)		0.06 (J)			
1/24/2017	0.09 (J)	<0.1	<0.1	0.09 (J)	0.06 (J)	0.02 (J)			
1/26/2017							0.13 (J)	<0.1	0.02 (J)
3/21/2017	0.13 (J)	<0.1	<0.1	0.04 (J)	0.005 (J)	0.08 (J)			
3/22/2017									0.3
3/23/2017							0.28 (J)	0.12 (J)	
5/22/2017	0.12 (J)		<0.1		0.05 (J)				
5/23/2017		0.01 (J)		0.04 (J)		0.006 (J)			
5/24/2017							0.32	0.31	0.46
5/25/2017									
10/3/2017	0.13 (J)	<0.1	<0.1	0.06 (J)	0.13 (J)	<0.1			
10/4/2017							0.52	0.6	<0.1
4/2/2018	<0.1	<0.1	<0.1						
4/3/2018				<0.1	<0.1	<0.1		<0.1	<0.1
4/4/2018							<0.1		
6/4/2018	0.074 (J)	0.097 (J)	<0.1		<0.1				
6/5/2018				0.083 (J)		0.055 (J)			
6/6/2018							0.25 (J)	0.17 (J)	<0.1
10/1/2018	<0.1	<0.1	<0.1		<0.1				
10/2/2018				<0.1		0.076 (J)			
10/3/2018							0.21 (J)	<0.1	<0.1
3/11/2019		0.035 (J)							
3/12/2019	0.29 (J)		0.038 (J)	0.079 (J)	0.072 (J)	0.061 (J)			
3/14/2019							0.24 (J)	<0.1	
3/15/2019									<0.1
4/1/2019					0.029 (J)				
4/2/2019	0.1 (J)	<0.1	0.071 (J)	0.12 (J)		<0.1			
4/4/2019								0.066 (J)	<0.1
4/5/2019							0.66		
9/23/2019	0.078 (J)		<0.1		<0.1				
9/24/2019		<0.1		0.058 (J)		<0.1	0.053 (J)	0.12 (J)	
9/25/2019									<0.1
3/2/2020	0.076 (J)	<0.1	<0.1	0.053 (J)	<0.1	<0.1			
3/3/2020							<0.1	0.064 (J)	<0.1
3/25/2020	0.098 (J)		<0.1		<0.1	<0.1			
3/26/2020		<0.1		0.066 (J)				<0.1	
3/30/2020							0.092 (J)		0.059 (J)
3/31/2020									

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/12/2023 1:14 PM View: Prediction Limits
 Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-1 (bg)	HGWA-4 (bg)	HGWA-2 (bg)	HGWA-5 (bg)	HGWA-3 (bg)	HGWA-6 (bg)	HGWC-14	HGWC-15	HGWC-16
9/15/2020	0.082 (J)	<0.1	<0.1	0.061 (J)	<0.1	<0.1			
9/16/2020									
9/17/2020								<0.1	<0.1
9/18/2020							<0.1		
11/10/2020									
11/11/2020									
12/15/2020									
1/19/2021									
1/20/2021									
2/8/2021	0.078 (J)	<0.1							
2/9/2021			<0.1	0.053 (J)	0.074 (J)	<0.1			
2/10/2021									0.21
2/11/2021							0.059 (J)		
2/12/2021								0.053 (J)	
3/10/2021	0.079 (J)	<0.1							
3/11/2021			0.1	0.06 (J)	<0.1	0.17			
3/16/2021								<0.1	
3/17/2021							0.076 (J)		<0.1
3/18/2021									
8/11/2021	0.058 (J)								
8/12/2021		<0.1	<0.1	<0.1	<0.1	<0.1			
8/13/2021									
8/18/2021							<0.1		
8/19/2021								<0.1	<0.1
2/1/2022	0.064 (J)		<0.1		<0.1				
2/7/2022		<0.1		<0.1		<0.1			
2/8/2022								<0.1	<0.1
2/9/2022							0.053 (J)		
8/2/2022	0.09 (J)	0.076 (J)	0.053 (J)		0.067 (J)				
8/9/2022									
8/10/2022				0.078 (J)		0.067 (J)			0.054 (J)
8/11/2022							0.085 (J)	0.097 (J)	
1/23/2023		0.12			0.061 (J)				
1/24/2023	0.089 (J)		0.053 (J)						
1/27/2023				0.088 (J)		0.067 (J)			
1/30/2023									
2/1/2023							0.094 (J)	0.086 (J)	0.053 (J)

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/12/2023 1:14 PM View: Prediction Limits
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-17	HGWC-18	HGWA-43D (bg)	HGWA-44D (bg)	HGWA-42D (bg)
5/19/2016					
5/20/2016					
5/23/2016	<0.1				
5/24/2016		<0.1			
7/11/2016					
7/12/2016	0.09 (J)	0.54			
8/30/2016					
9/1/2016	0.03 (J)	0.49			
10/19/2016					
10/20/2016					
10/24/2016					
10/25/2016	0.07 (J)	0.58			
12/6/2016					
12/7/2016	0.54				
12/8/2016		0.63			
1/24/2017					
1/26/2017	<0.1	0.71			
3/21/2017					
3/22/2017	0.07 (J)				
3/23/2017		0.57			
5/22/2017					
5/23/2017					
5/24/2017					
5/25/2017	0.42	0.54			
10/3/2017					
10/4/2017	0.93	0.95			
4/2/2018					
4/3/2018	<0.1	0.33			
4/4/2018					
6/4/2018					
6/5/2018		0.66			
6/6/2018	0.23 (J)				
10/1/2018					
10/2/2018					
10/3/2018	<0.1	0.32			
3/11/2019					
3/12/2019					
3/14/2019		0.88			
3/15/2019	<0.1				
4/1/2019					
4/2/2019					
4/4/2019					
4/5/2019	0.16 (J)	0.37			
9/23/2019					
9/24/2019					
9/25/2019	0.081 (J)	0.73			
3/2/2020					
3/3/2020	<0.1	0.34			
3/25/2020					
3/26/2020					
3/30/2020					
3/31/2020	<0.1	0.45			

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/12/2023 1:14 PM View: Prediction Limits
 Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-17	HGWC-18	HGWA-43D (bg)	HGWA-44D (bg)	HGWA-42D (bg)
9/15/2020		0.31			
9/16/2020	0.058 (J)		0.22	0.52	
9/17/2020					0.2
9/18/2020					
11/10/2020			0.19	0.59	
11/11/2020					0.1
12/15/2020			0.21	0.67	0.11
1/19/2021			0.16	0.74	
1/20/2021					0.082 (J)
2/8/2021					0.096 (J)
2/9/2021			0.19	0.44	
2/10/2021					
2/11/2021	0.058 (J)	0.71			
2/12/2021					
3/10/2021				0.65	0.11
3/11/2021			0.2		
3/16/2021					
3/17/2021					
3/18/2021	0.057 (J)	0.64			
8/11/2021			0.15		
8/12/2021					0.079 (J)
8/13/2021				0.87	
8/18/2021	0.062 (J)				
8/19/2021		0.31			
2/1/2022			0.19	0.96	
2/7/2022					0.085 (J)
2/8/2022	0.055 (J)	0.19			
2/9/2022					
8/2/2022			0.22	0.8	
8/9/2022					0.12
8/10/2022	0.086 (J)	0.3			
8/11/2022					
1/23/2023					0.11
1/24/2023			0.23	1.3	
1/27/2023					
1/30/2023	0.097 (J)				
2/1/2023		0.21			

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/12/2023 1:14 PM View: Prediction Limits

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-4 (bg)	HGWA-5 (bg)	HGWA-6 (bg)	HGWC-14	HGWC-15	HGWC-16
5/19/2016	66.9	48.6	42.3	1.22	25				
5/20/2016						34.4			
5/23/2016							1070	424	203
5/24/2016									
7/11/2016	41	45		3.7	27	34			
7/12/2016			44				1300	440	220
8/30/2016	36	42	40	6.8	23	36			
9/1/2016							1300	440	220
10/19/2016	46	44	43	11					
10/20/2016					19	36			
10/24/2016							280	420	
10/25/2016									230
12/6/2016	59	44	43	13					
12/7/2016							1300	450	220
12/8/2016					20	36			
1/24/2017	46	46	48	5.7	20	37			
1/26/2017							1400	490	250
3/21/2017	63	46	45	1.7	23	37			
3/22/2017									240
3/23/2017							1500	530	
5/22/2017	77	48	46						
5/23/2017				1.5	21	38			
5/24/2017							1400	500	230
5/25/2017									
10/3/2017	42	47	48	1.3	21	38			
10/4/2017							1400	560	220
6/4/2018	71.8	47.8	46.6	4.9					
6/5/2018					22.9	38			
6/6/2018							1520	469	233
10/1/2018	49.1	48.1	48.6	0.59 (J)					
10/2/2018					20.3	38.5			
10/3/2018							1550	600	215
4/1/2019			50.4						
4/2/2019	84.3	48.7		4.9	23.8	35.5			
4/4/2019								528	251
4/5/2019							1520		
9/23/2019	70.2	47.2	43.9						
9/24/2019				<1	20.7	35.4	1110	382	
9/25/2019									223
3/25/2020	85.9	46.3	50.5			35.1			
3/26/2020				<1	21.6			438	
3/30/2020							1150		223
3/31/2020									
9/15/2020	47.3	51.5	44.7	<1	21.2	35.3			
9/16/2020									
9/17/2020								416	254
9/18/2020							1260		
11/10/2020									
11/11/2020									
12/15/2020									
1/19/2021									
1/20/2021									

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/12/2023 1:14 PM View: Prediction Limits
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-4 (bg)	HGWA-5 (bg)	HGWA-6 (bg)	HGWC-14	HGWC-15	HGWC-16
3/10/2021	49.6			1.2					
3/11/2021		52.9	50.4		22.7	35.5			
3/16/2021								379	
3/17/2021							1300		250
3/18/2021									
8/11/2021	48.9								
8/12/2021		47.4	38.6	1.1	17.4	28.6			
8/13/2021									
8/18/2021							768		
8/19/2021								223	228
2/1/2022	43.7	67.1	46						
2/7/2022				2.9	20.6	33			
2/8/2022								360	238
2/9/2022							1190		
8/2/2022	58.1	86.9	43.5	4.9					
8/9/2022									
8/10/2022					19.7	34			206
8/11/2022							1200	365	
1/23/2023			39.5	42.5					
1/24/2023	48.3	79.7							
1/27/2023					22.7	35			
1/30/2023									
2/1/2023							1060	341	257

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/12/2023 1:14 PM View: Prediction Limits
 Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-17	HGWC-18	HGWA-44D (bg)	HGWA-43D (bg)	HGWA-42D (bg)
5/19/2016					
5/20/2016					
5/23/2016	395				
5/24/2016		834			
7/11/2016					
7/12/2016	460	930			
8/30/2016					
9/1/2016	430	890			
10/19/2016					
10/20/2016					
10/24/2016					
10/25/2016	440	950			
12/6/2016					
12/7/2016	410				
12/8/2016		910			
1/24/2017					
1/26/2017	440	970			
3/21/2017					
3/22/2017	460				
3/23/2017		980			
5/22/2017					
5/23/2017					
5/24/2017					
5/25/2017	430	920			
10/3/2017					
10/4/2017	490	870			
6/4/2018					
6/5/2018		962			
6/6/2018	520				
10/1/2018					
10/2/2018					
10/3/2018	651	1170			
4/1/2019					
4/2/2019					
4/4/2019					
4/5/2019	642	1030			
9/23/2019					
9/24/2019					
9/25/2019	434	920			
3/25/2020					
3/26/2020					
3/30/2020					
3/31/2020	484	934			
9/15/2020		1080			
9/16/2020	467		6.9	43	
9/17/2020					10.9
9/18/2020					
11/10/2020			6.3	39	
11/11/2020					9.4
12/15/2020			6.7	38.8	10.9
1/19/2021			7.4	37.3	
1/20/2021					9.8

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/12/2023 1:14 PM View: Prediction Limits
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-17	HGWC-18	HGWA-44D (bg)	HGWA-43D (bg)	HGWA-42D (bg)
3/10/2021			<1		10.8
3/11/2021				38.6	
3/16/2021					
3/17/2021					
3/18/2021	447	1050			
8/11/2021				30.5	
8/12/2021					7.8
8/13/2021			56.1		
8/18/2021	280				
8/19/2021		934			
2/1/2022			56.3	37.5	
2/7/2022					10.4
2/8/2022	364	960			
2/9/2022					
8/2/2022			13.2	37	
8/9/2022					11.2
8/10/2022	423	946			
8/11/2022					
1/23/2023					11.1
1/24/2023			10.1	34.7	
1/27/2023					
1/30/2023	451				
2/1/2023		776			

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/12/2023 1:14 PM View: Prediction Limits
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-4 (bg)	HGWA-5 (bg)	HGWA-6 (bg)	HGWC-14	HGWC-15	HGWC-16
3/10/2021	348			53					
3/11/2021		169	267		118	215			
3/16/2021								92	
3/17/2021							1640		768
3/18/2021									
8/11/2021	366								
8/12/2021		118	265	55	158	229			
8/13/2021									
8/18/2021							2350		
8/19/2021								958	816
2/1/2022	270	156	350						
2/7/2022				54	135	224			
2/8/2022								866	852
2/9/2022							2310		
8/2/2022	400	196	287	48					
8/9/2022									
8/10/2022					134	217			894
8/11/2022							1060	940	
1/23/2023			293	128					
1/24/2023	369	164							
1/27/2023					182	229			
1/30/2023									
2/1/2023							1950	892	1030

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/12/2023 1:14 PM View: Prediction Limits
 Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-17	HGWC-18	HGWA-44D (bg)	HGWA-43D (bg)	HGWA-42D (bg)
5/19/2016					
5/20/2016					
5/23/2016	1010				
5/24/2016		1900			
7/11/2016					
7/12/2016	976	1950			
8/30/2016					
9/1/2016	1060	2000			
10/19/2016					
10/20/2016					
10/24/2016					
10/25/2016	<25	1870			
12/6/2016					
12/7/2016	866				
12/8/2016		1930			
1/24/2017					
1/26/2017	1000	1950			
3/21/2017					
3/22/2017	1080				
3/23/2017		2080			
5/22/2017					
5/23/2017					
5/24/2017					
5/25/2017	1080	1970			
10/3/2017					
10/4/2017	1210	2200			
6/4/2018					
6/5/2018		1880			
6/6/2018	1180				
10/1/2018					
10/2/2018					
10/3/2018	1250	2180			
4/1/2019					
4/2/2019					
4/4/2019					
4/5/2019	1260	1610			
9/23/2019					
9/24/2019					
9/25/2019	1280	1960			
3/25/2020					
3/26/2020					
3/30/2020					
3/31/2020	1310	1860			
9/15/2020		1890			
9/16/2020	1220		270	272	
9/17/2020					188
9/18/2020					
11/10/2020			287	307	
11/11/2020					175
12/15/2020			295	289	193
1/19/2021			278	270	
1/20/2021					158

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/12/2023 1:14 PM View: Prediction Limits
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-17	HGWC-18	HGWA-44D (bg)	HGWA-43D (bg)	HGWA-42D (bg)
3/10/2021			289		163
3/11/2021				279	
3/16/2021					
3/17/2021					
3/18/2021	1020	1390			
8/11/2021				277	
8/12/2021					179
8/13/2021			436		
8/18/2021	1290				
8/19/2021		1750			
2/1/2022			444	156	
2/7/2022					190
2/8/2022	1160	1770			
2/9/2022					
8/2/2022			311	278	
8/9/2022					182
8/10/2022	1390	1890			
8/11/2022					
1/23/2023					168
1/24/2023			363	271	
1/27/2023					
1/30/2023	1320				
2/1/2023		1430			

FIGURE E.

Appendix III Trend Test - Prediction Limit Exceedances - Significant Results

Plant Hammond Client: Southern Company Data: Hammond AP-2 Printed 5/12/2023, 1:20 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Xform</u>	<u>Alpha</u>	<u>Method</u>
Boron (mg/L)	HGWA-2 (bg)	0.002417	122	81	Yes	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWC-14	-1.327	-96	-81	Yes	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWC-16	0.2302	130	81	Yes	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWA-3 (bg)	2.246	106	81	Yes	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWA-4 (bg)	-8.577	-103	-81	Yes	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWC-16	12.23	150	81	Yes	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWA-3 (bg)	-0.1264	-88	-81	Yes	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWA-4 (bg)	-0.4126	-149	-81	Yes	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWA-44D (bg)	8.893	28	25	Yes	9	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWC-14	-76.22	-127	-81	Yes	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWC-15	-23.23	-122	-81	Yes	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWC-16	12.44	172	81	Yes	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWC-18	-35.39	-120	-81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWA-2 (bg)	1.847	118	81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWA-43D (bg)	-2.015	-26	-25	Yes	9	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWA-4 (bg)	-25.27	-113	-81	Yes	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWC-14	-209.1	-132	-81	Yes	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWC-15	-55.89	-95	-81	Yes	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWC-16	53.83	154	81	Yes	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWC-17	57.88	121	81	Yes	20	5	n/a	n/a	0.01	NP

Appendix III Trend Test - Prediction Limit Exceedances - All Results

Plant Hammond Client: Southern Company Data: Hammond AP-2 Printed 5/12/2023, 1:20 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	HGWA-1 (bg)	-0.000535	-35	-81	No	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWA-2 (bg)	0.002417	122	81	Yes	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWA-3 (bg)	0.0003333	19	81	No	20	20	n/a	n/a	0.01	NP
Boron (mg/L)	HGWA-4 (bg)	0	-1	-81	No	20	5	n/a	n/a	0.01	NP
Boron (mg/L)	HGWA-42D (bg)	-0.001407	-2	-25	No	9	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWA-43D (bg)	-0.009889	-24	-25	No	9	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWA-44D (bg)	0.06482	20	25	No	9	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWA-5 (bg)	0.0004577	38	81	No	20	20	n/a	n/a	0.01	NP
Boron (mg/L)	HGWA-6 (bg)	-0.0005014	-49	-81	No	20	5	n/a	n/a	0.01	NP
Boron (mg/L)	HGWC-14	-1.327	-96	-81	Yes	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWC-15	0.01406	14	81	No	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWC-16	0.2302	130	81	Yes	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWC-17	0.171	42	81	No	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWC-18	-0.242	-54	-81	No	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWA-1 (bg)	2.181	64	81	No	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWA-2 (bg)	0.8789	66	81	No	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWA-3 (bg)	2.246	106	81	Yes	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWA-4 (bg)	-8.577	-103	-81	Yes	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWA-42D (bg)	0.1137	2	25	No	9	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWA-43D (bg)	-3.051	-16	-25	No	9	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWA-44D (bg)	-7.217	-22	-25	No	9	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWA-5 (bg)	0.07208	5	81	No	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWA-6 (bg)	0.4785	53	81	No	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWC-14	-9.752	-50	-81	No	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWC-15	0.4138	4	81	No	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWC-16	12.23	150	81	Yes	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWC-17	14.13	76	81	No	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWC-18	4.792	29	81	No	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWA-1 (bg)	0.5676	55	81	No	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWA-2 (bg)	-0.02813	-10	-81	No	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWA-3 (bg)	-0.1264	-88	-81	Yes	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWA-4 (bg)	-0.4126	-149	-81	Yes	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWA-42D (bg)	-0.04356	-1	-25	No	9	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWA-43D (bg)	0	-2	-25	No	9	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWA-44D (bg)	8.893	28	25	Yes	9	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWA-5 (bg)	-0.06171	-55	-81	No	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWA-6 (bg)	-0.06887	-72	-81	No	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWC-14	-76.22	-127	-81	Yes	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWC-15	-23.23	-122	-81	Yes	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWC-16	12.44	172	81	Yes	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWC-17	8.913	72	81	No	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWC-18	-35.39	-120	-81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWA-1 (bg)	0.7253	21	81	No	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWA-2 (bg)	1.847	118	81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWA-3 (bg)	0.4639	28	81	No	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWA-4 (bg)	-0.1234	-28	-81	No	20	15	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWA-42D (bg)	0.1593	7	25	No	9	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWA-43D (bg)	-2.015	-26	-25	Yes	9	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWA-44D (bg)	3.569	14	25	No	9	11.11	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWA-5 (bg)	-0.2023	-36	-81	No	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWA-6 (bg)	-0.1893	-43	-81	No	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWC-14	-12.73	-18	-81	No	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWC-15	-15.03	-65	-81	No	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWC-16	2.285	55	81	No	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWC-17	1.633	7	81	No	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWC-18	8.948	36	81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWA-1 (bg)	1.455	8	81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWA-2 (bg)	2.559	17	81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWA-3 (bg)	1.02	19	81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWA-4 (bg)	-25.27	-113	-81	Yes	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWA-42D (bg)	-2.891	-2	-25	No	9	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWA-43D (bg)	-6.294	-12	-25	No	9	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWA-44D (bg)	39.45	22	25	No	9	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWA-5 (bg)	-1.947	-18	-81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWA-6 (bg)	-1.109	-29	-81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWC-14	-209.1	-132	-81	Yes	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWC-15	-55.89	-95	-81	Yes	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWC-16	53.83	154	81	Yes	20	0	n/a	n/a	0.01	NP

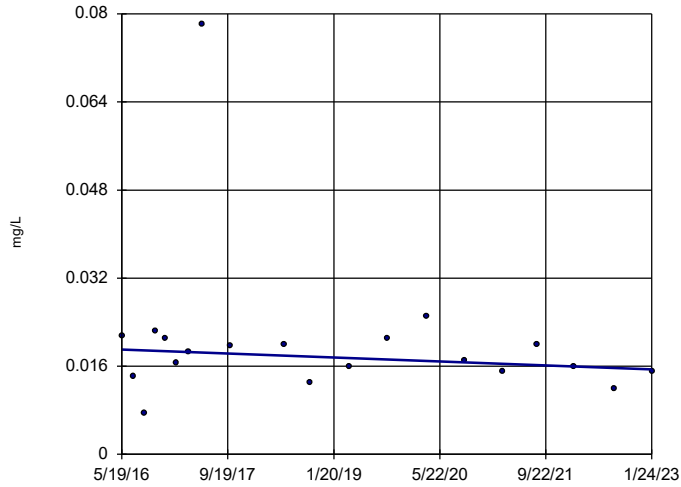
Appendix III Trend Test - Prediction Limit Exceedances - All Results Page 2

Plant Hammond Client: Southern Company Data: Hammond AP-2 Printed 5/12/2023, 1:20 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Xform</u>	<u>Alpha</u>	<u>Method</u>
Total Dissolved Solids (mg/L)	HGWC-17	57.88	121	81	Yes	20	5	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWC-18	-34.41	-64	-81	No	20	0	n/a	n/a	0.01	NP

Sen's Slope Estimator

HGWA-1 (bg)

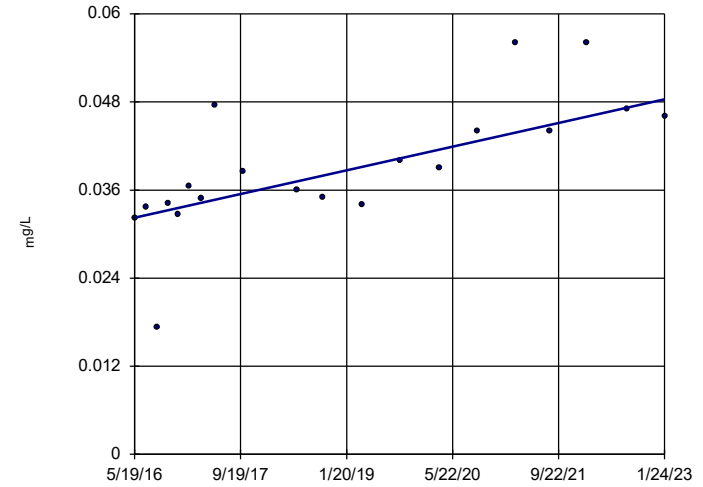


n = 20
 Slope = -0.000535 units per year.
 Mann-Kendall statistic = -35
 critical = -81
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/12/2023 1:17 PM View: A3 Trend Test
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWA-2 (bg)

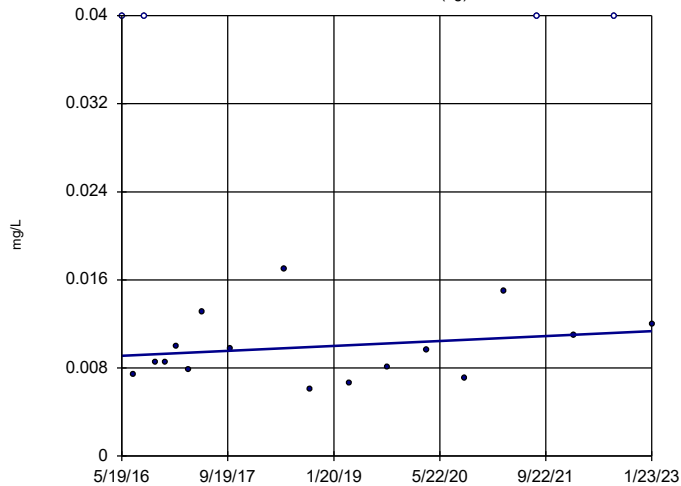


n = 20
 Slope = 0.002417 units per year.
 Mann-Kendall statistic = 122
 critical = 81
 Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/12/2023 1:17 PM View: A3 Trend Test
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWA-3 (bg)

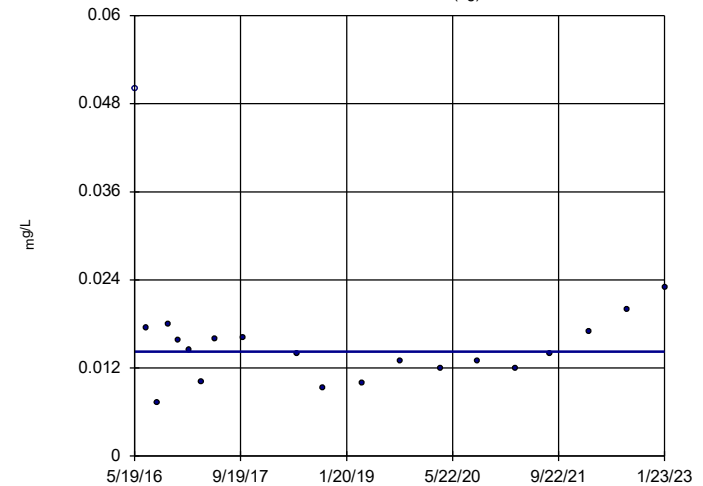


n = 20
 Slope = 0.0003333 units per year.
 Mann-Kendall statistic = 19
 critical = 81
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/12/2023 1:17 PM View: A3 Trend Test
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWA-4 (bg)

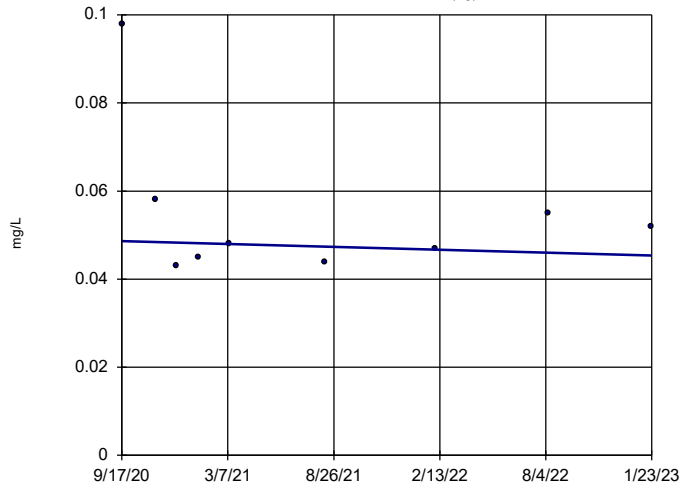


n = 20
 Slope = 0 units per year.
 Mann-Kendall statistic = -1
 critical = -81
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/12/2023 1:17 PM View: A3 Trend Test
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWA-42D (bg)

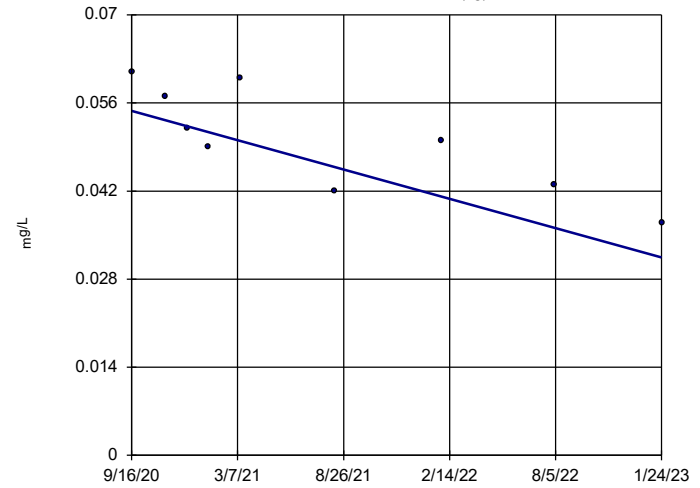


n = 9
 Slope = -0.001407 units per year.
 Mann-Kendall statistic = -2
 critical = -25
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/12/2023 1:17 PM View: A3 Trend Test
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWA-43D (bg)

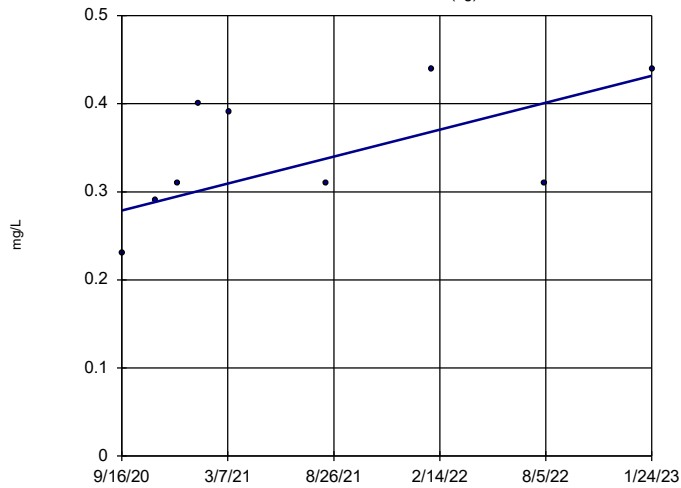


n = 9
 Slope = -0.009889 units per year.
 Mann-Kendall statistic = -24
 critical = -25
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/12/2023 1:17 PM View: A3 Trend Test
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWA-44D (bg)



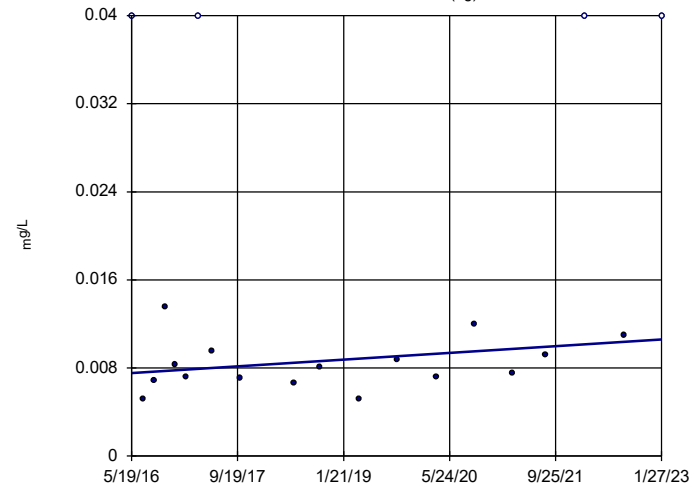
n = 9
 Slope = 0.06482 units per year.
 Mann-Kendall statistic = 20
 critical = 25
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/12/2023 1:17 PM View: A3 Trend Test
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Hollow symbols indicate censored values.

Sen's Slope Estimator

HGWA-5 (bg)

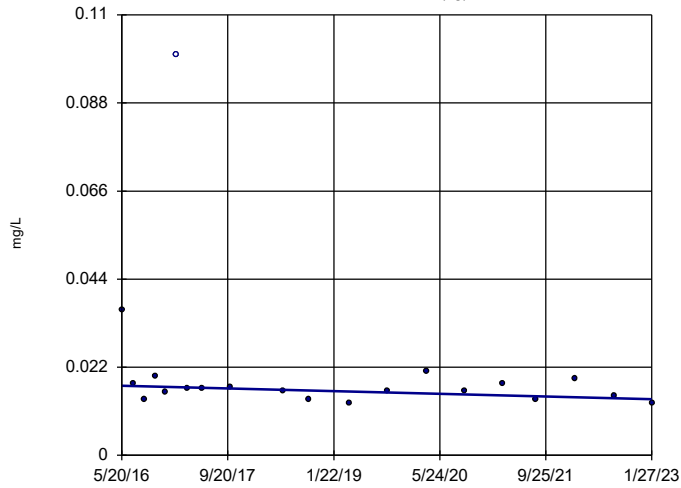


n = 20
 Slope = 0.0004577 units per year.
 Mann-Kendall statistic = 38
 critical = 81
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/12/2023 1:17 PM View: A3 Trend Test
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWA-6 (bg)

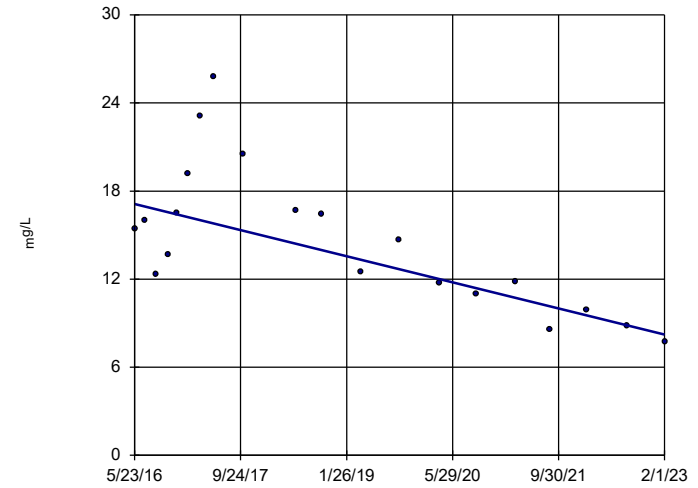


n = 20
 Slope = -0.0005014
 units per year.
 Mann-Kendall
 statistic = -49
 critical = -81
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron Analysis Run 5/12/2023 1:17 PM View: A3 Trend Test
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWC-14

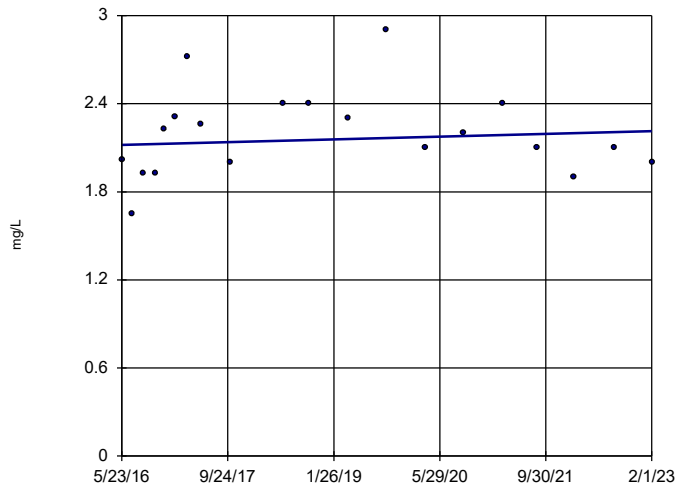


n = 20
 Slope = -1.327
 units per year.
 Mann-Kendall
 statistic = -96
 critical = -81
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron Analysis Run 5/12/2023 1:17 PM View: A3 Trend Test
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWC-15

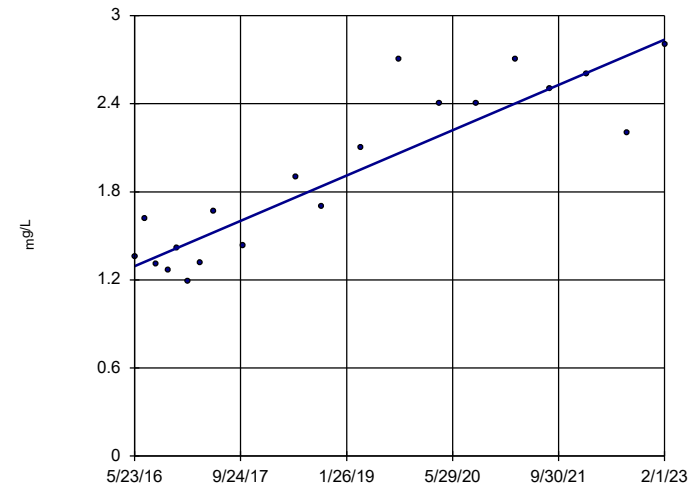


n = 20
 Slope = 0.01406
 units per year.
 Mann-Kendall
 statistic = 14
 critical = 81
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron Analysis Run 5/12/2023 1:17 PM View: A3 Trend Test
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWC-16

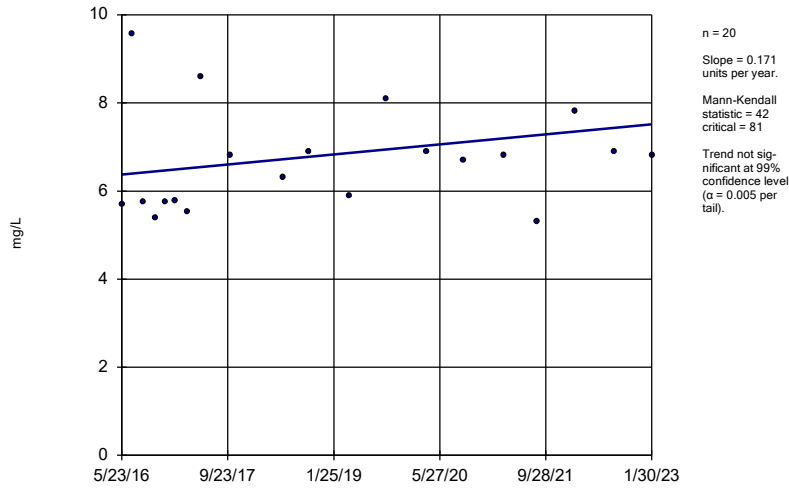


n = 20
 Slope = 0.2302
 units per year.
 Mann-Kendall
 statistic = 130
 critical = 81
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron Analysis Run 5/12/2023 1:17 PM View: A3 Trend Test
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

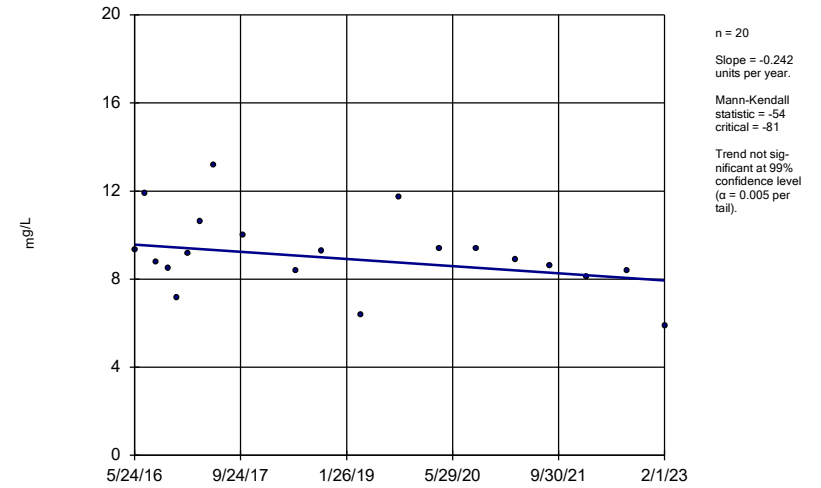
HGWC-17



Constituent: Boron Analysis Run 5/12/2023 1:17 PM View: A3 Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

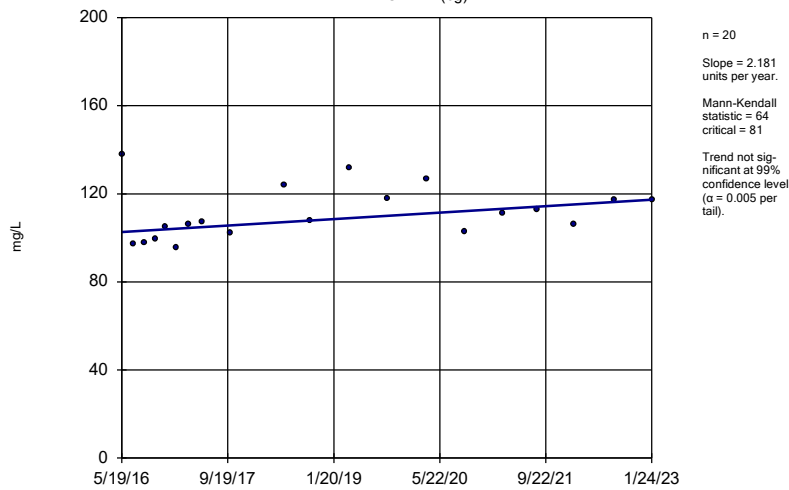
HGWC-18



Constituent: Boron Analysis Run 5/12/2023 1:17 PM View: A3 Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

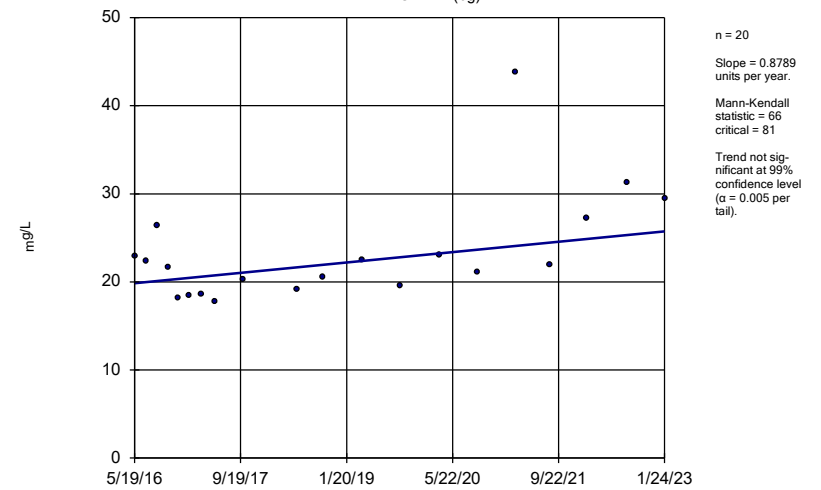
HGWA-1 (bg)



Constituent: Calcium Analysis Run 5/12/2023 1:17 PM View: A3 Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

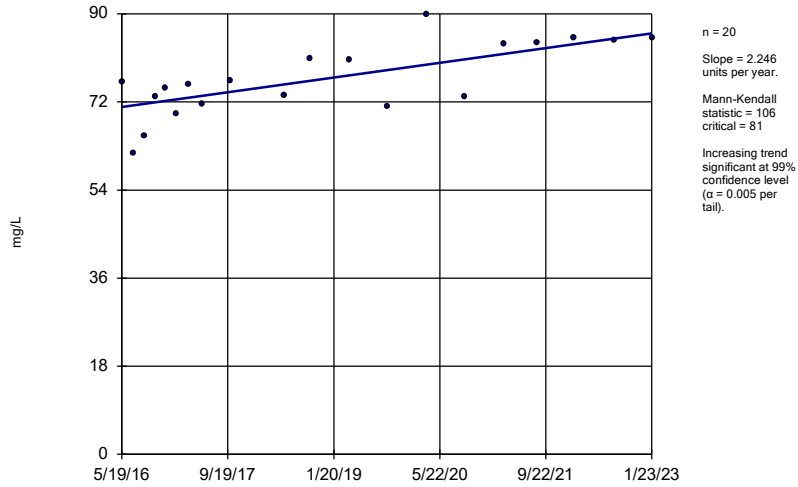
HGWA-2 (bg)



Constituent: Calcium Analysis Run 5/12/2023 1:17 PM View: A3 Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

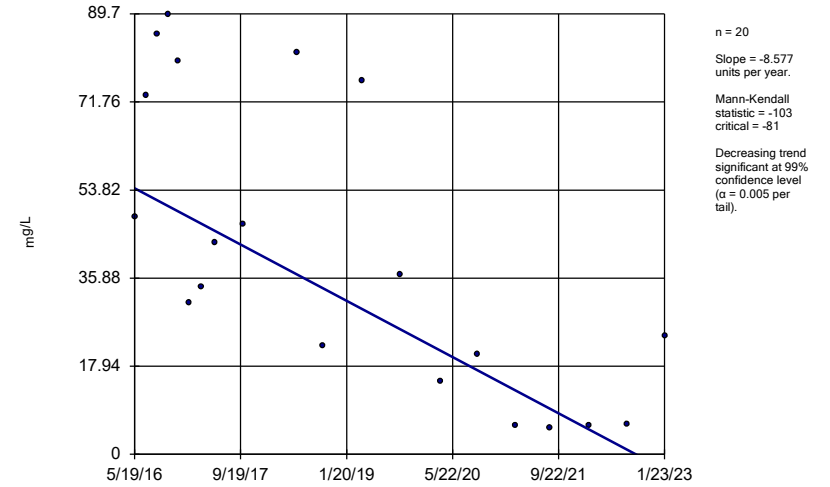
HGWA-3 (bg)



Constituent: Calcium Analysis Run 5/12/2023 1:17 PM View: A3 Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

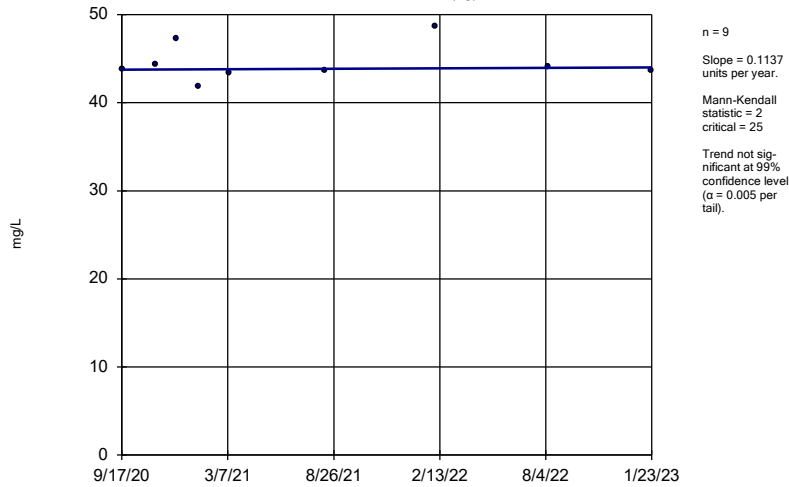
HGWA-4 (bg)



Constituent: Calcium Analysis Run 5/12/2023 1:17 PM View: A3 Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

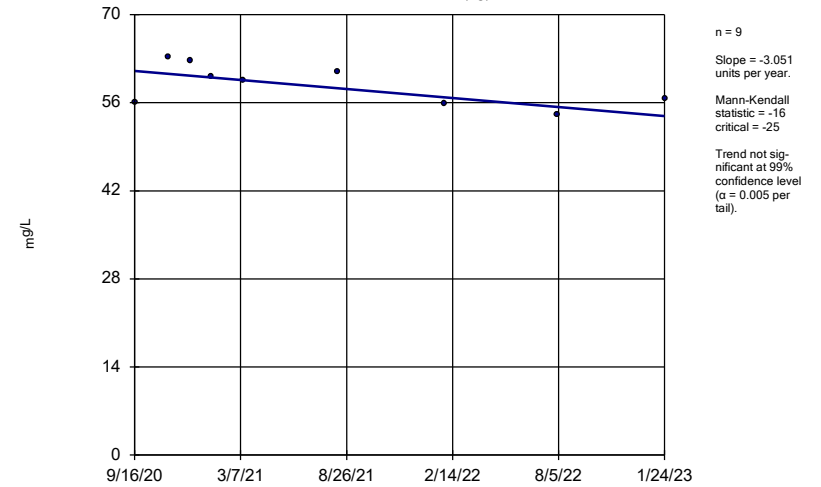
HGWA-42D (bg)



Constituent: Calcium Analysis Run 5/12/2023 1:17 PM View: A3 Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

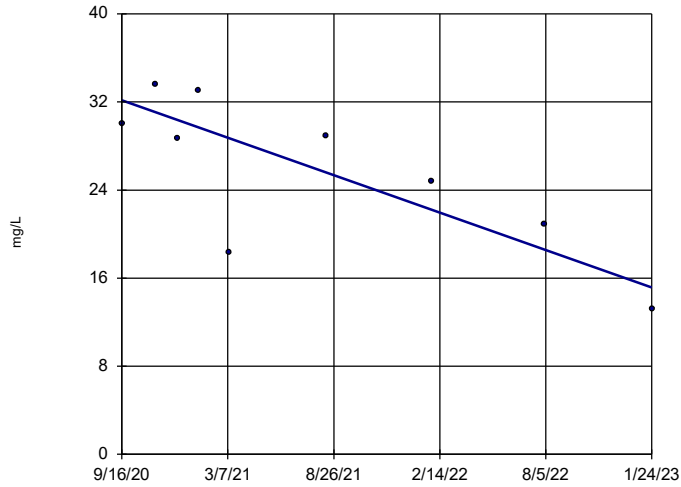
HGWA-43D (bg)



Constituent: Calcium Analysis Run 5/12/2023 1:17 PM View: A3 Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWA-44D (bg)

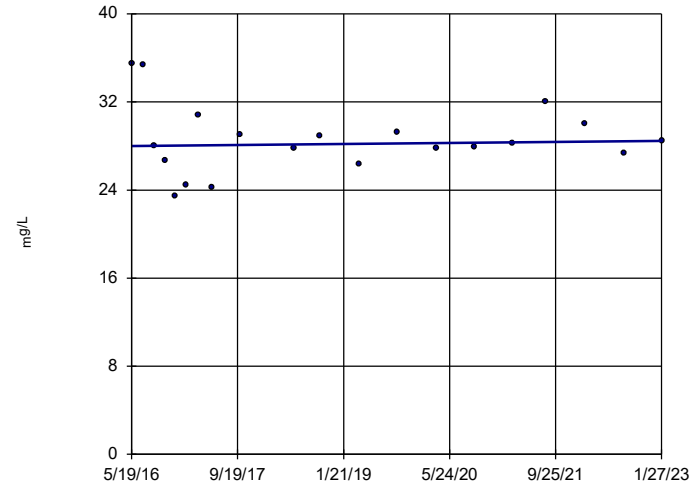


n = 9
 Slope = -7.217
 units per year.
 Mann-Kendall
 statistic = -22
 critical = -25
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 5/12/2023 1:17 PM View: A3 Trend Test
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWA-5 (bg)

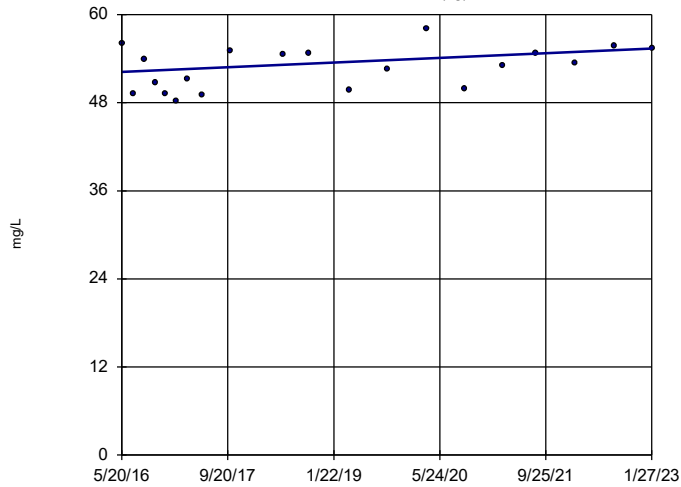


n = 20
 Slope = 0.07208
 units per year.
 Mann-Kendall
 statistic = 5
 critical = 81
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 5/12/2023 1:17 PM View: A3 Trend Test
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWA-6 (bg)

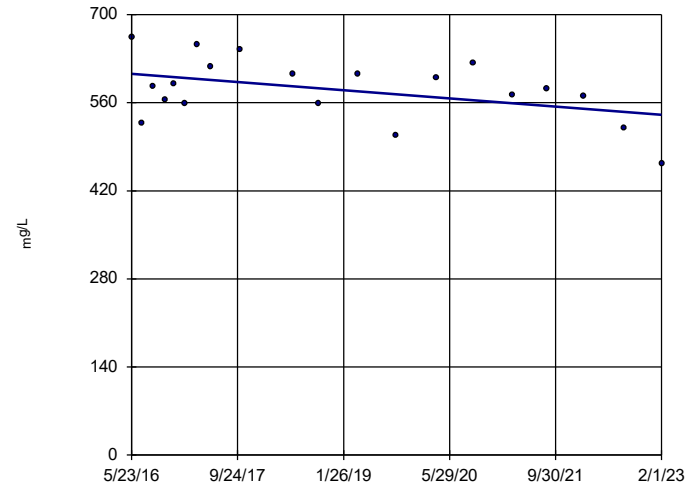


n = 20
 Slope = 0.4785
 units per year.
 Mann-Kendall
 statistic = 53
 critical = 81
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 5/12/2023 1:17 PM View: A3 Trend Test
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWC-14

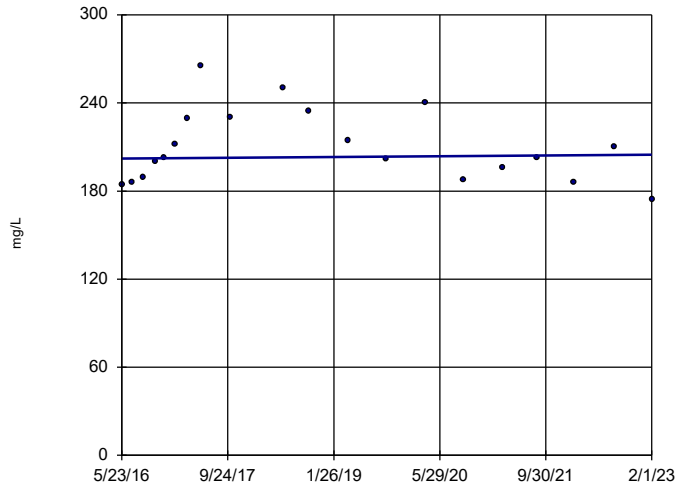


n = 20
 Slope = -9.752
 units per year.
 Mann-Kendall
 statistic = -50
 critical = -81
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 5/12/2023 1:17 PM View: A3 Trend Test
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

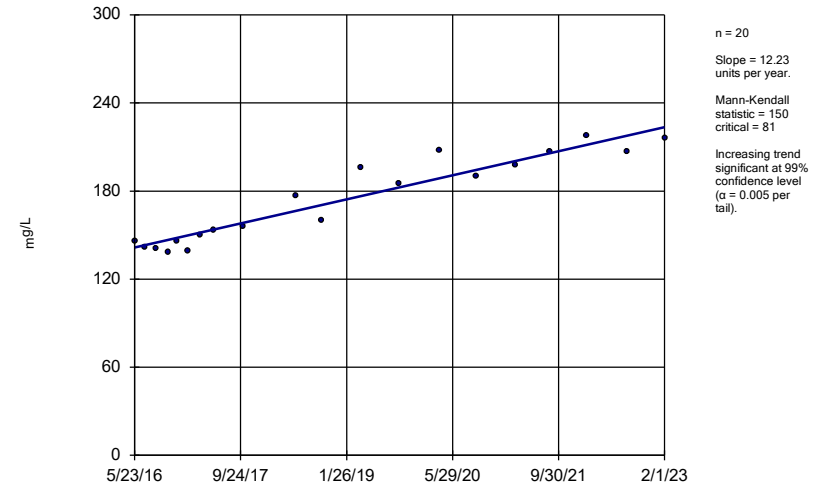
HGWC-15



Constituent: Calcium Analysis Run 5/12/2023 1:17 PM View: A3 Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

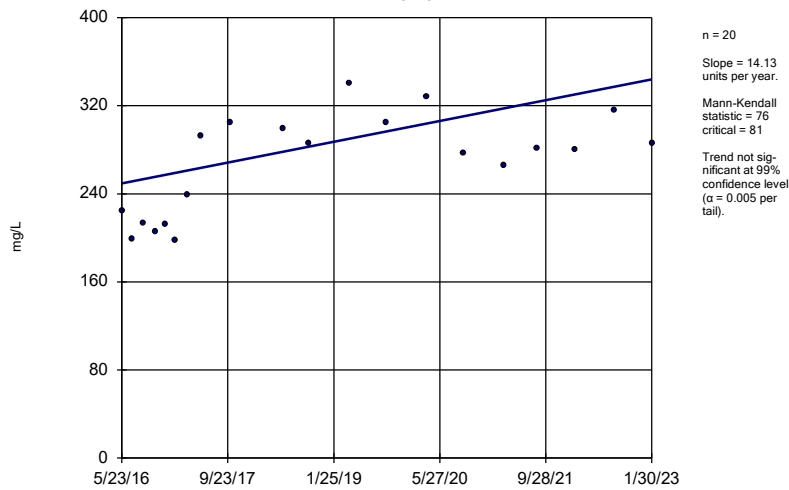
HGWC-16



Constituent: Calcium Analysis Run 5/12/2023 1:17 PM View: A3 Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

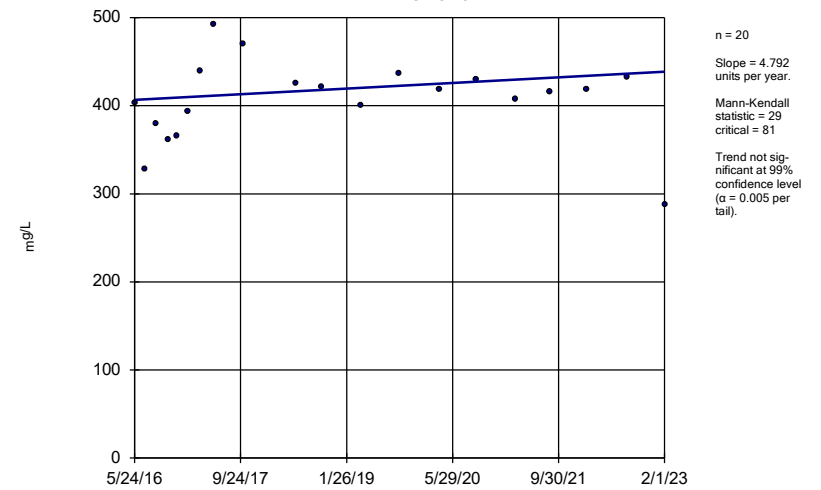
HGWC-17



Constituent: Calcium Analysis Run 5/12/2023 1:17 PM View: A3 Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

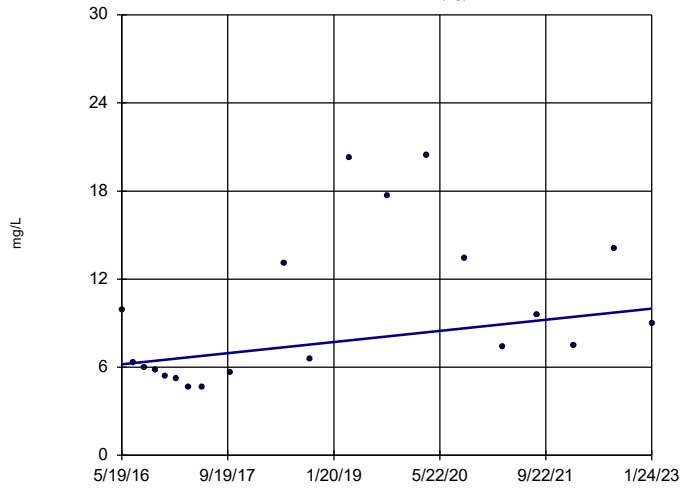
HGWC-18



Constituent: Calcium Analysis Run 5/12/2023 1:17 PM View: A3 Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWA-1 (bg)

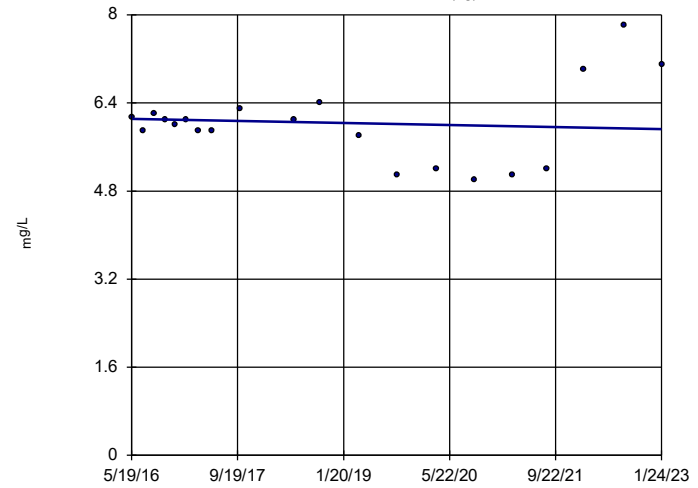


n = 20
 Slope = 0.5676 units per year.
 Mann-Kendall statistic = 55
 critical = 81
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 5/12/2023 1:17 PM View: A3 Trend Test
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWA-2 (bg)

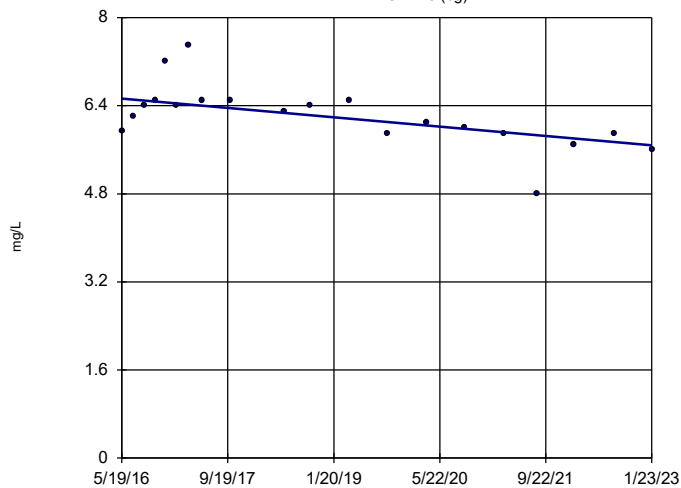


n = 20
 Slope = -0.02813 units per year.
 Mann-Kendall statistic = -10
 critical = -81
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 5/12/2023 1:17 PM View: A3 Trend Test
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWA-3 (bg)

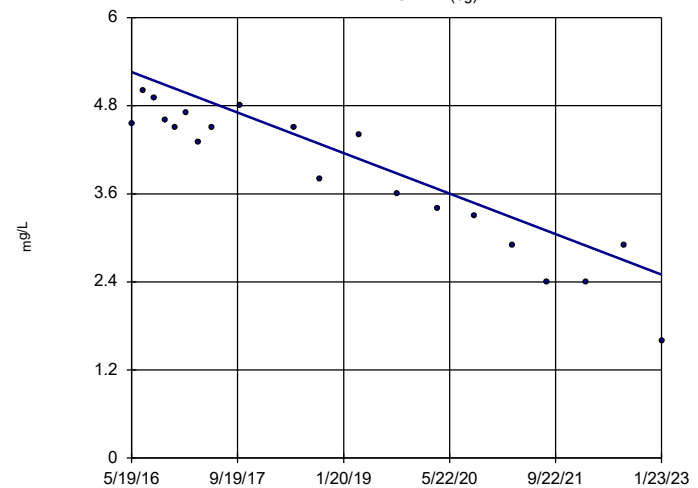


n = 20
 Slope = -0.1264 units per year.
 Mann-Kendall statistic = -88
 critical = -81
 Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 5/12/2023 1:17 PM View: A3 Trend Test
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWA-4 (bg)

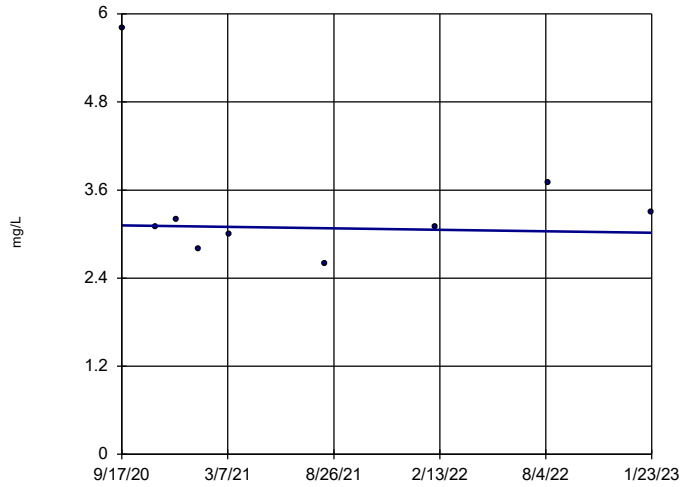


n = 20
 Slope = -0.4126 units per year.
 Mann-Kendall statistic = -149
 critical = -81
 Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 5/12/2023 1:17 PM View: A3 Trend Test
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWA-42D (bg)

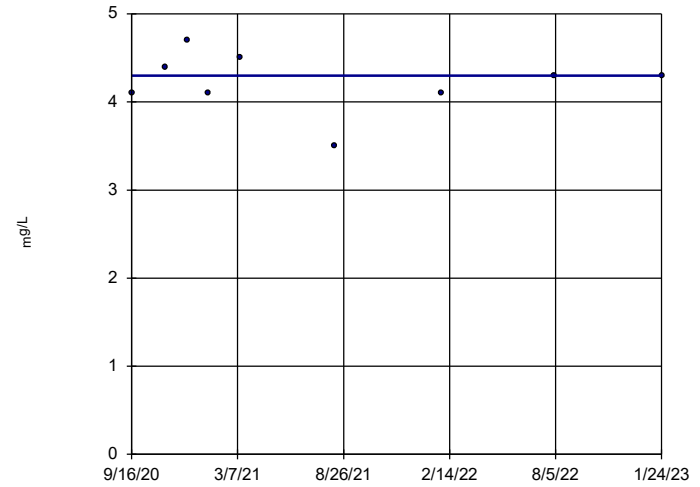


n = 9
 Slope = -0.04356 units per year.
 Mann-Kendall statistic = -1
 critical = -25
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 5/12/2023 1:17 PM View: A3 Trend Test
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWA-43D (bg)

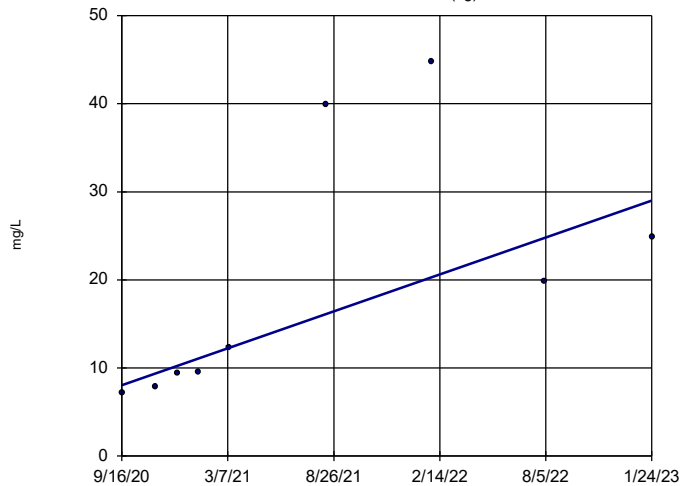


n = 9
 Slope = 0 units per year.
 Mann-Kendall statistic = -2
 critical = -25
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 5/12/2023 1:17 PM View: A3 Trend Test
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWA-44D (bg)

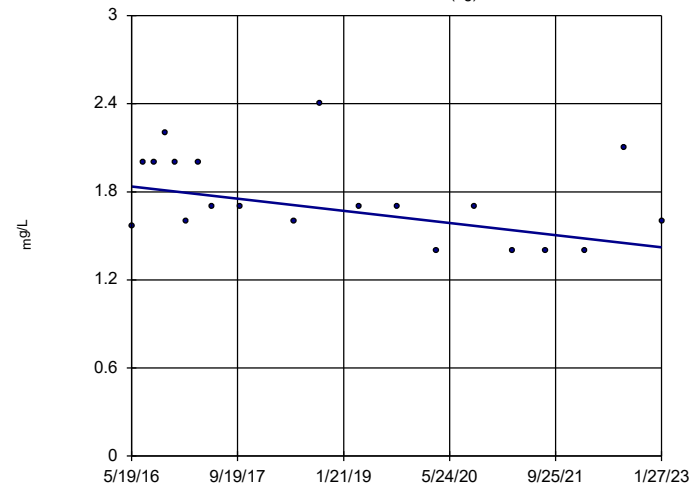


n = 9
 Slope = 8.893 units per year.
 Mann-Kendall statistic = 28
 critical = 25
 Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 5/12/2023 1:17 PM View: A3 Trend Test
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWA-5 (bg)

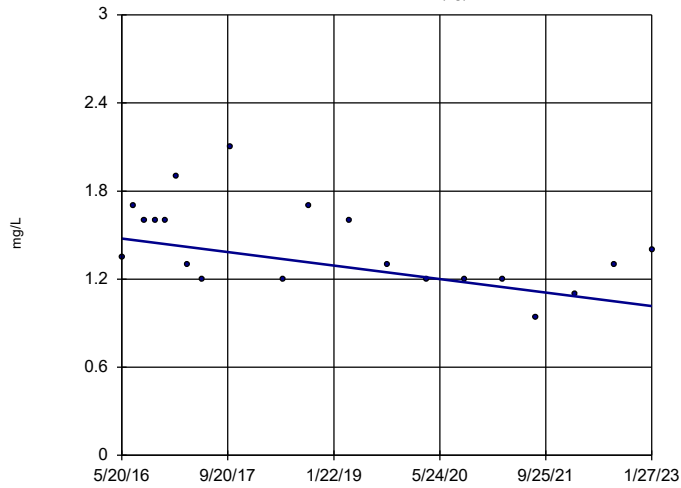


n = 20
 Slope = -0.06171 units per year.
 Mann-Kendall statistic = -55
 critical = -81
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 5/12/2023 1:17 PM View: A3 Trend Test
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

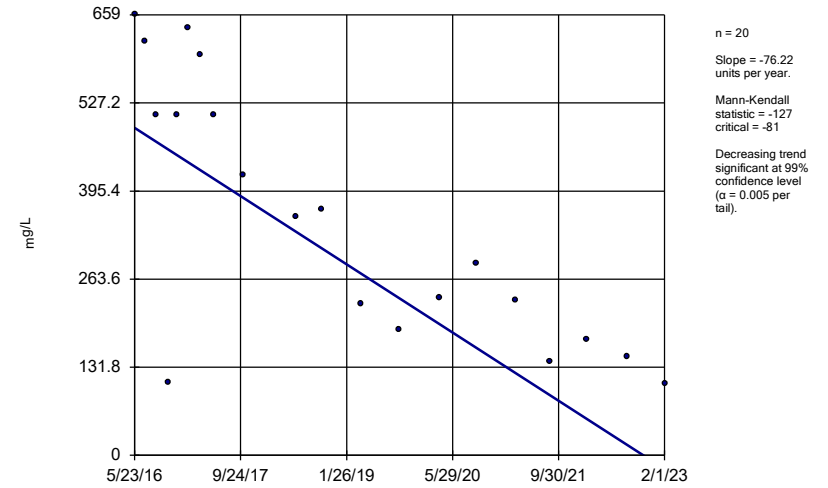
HGWA-6 (bg)



Constituent: Chloride Analysis Run 5/12/2023 1:18 PM View: A3 Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

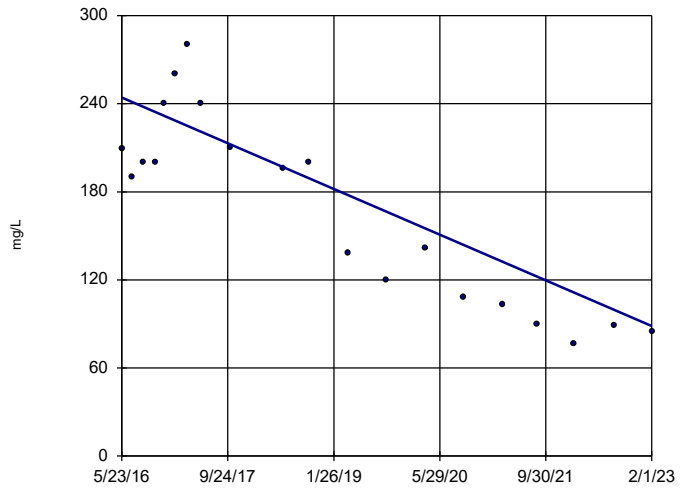
HGWC-14



Constituent: Chloride Analysis Run 5/12/2023 1:18 PM View: A3 Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

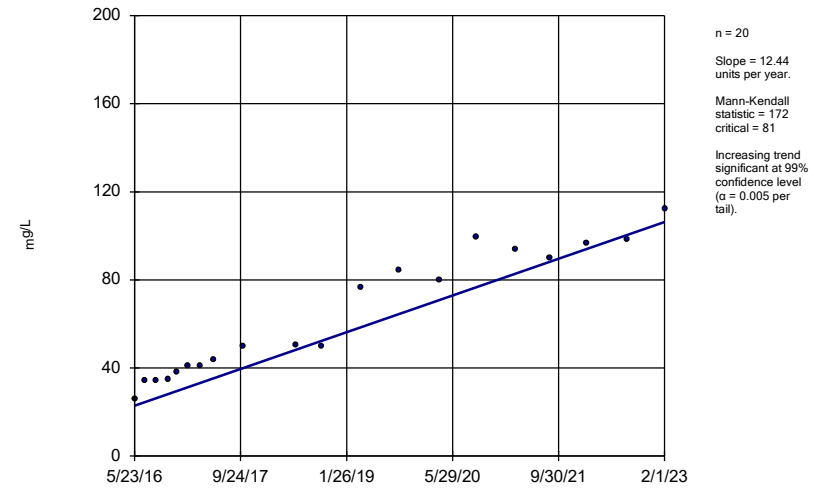
HGWC-15



Constituent: Chloride Analysis Run 5/12/2023 1:18 PM View: A3 Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

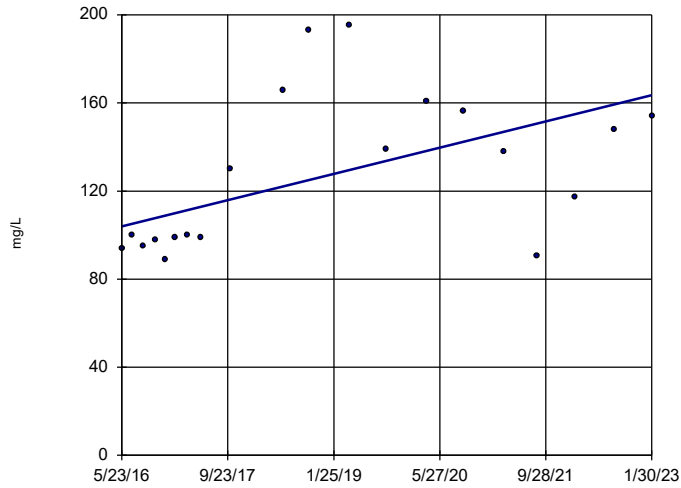
HGWC-16



Constituent: Chloride Analysis Run 5/12/2023 1:18 PM View: A3 Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWC-17

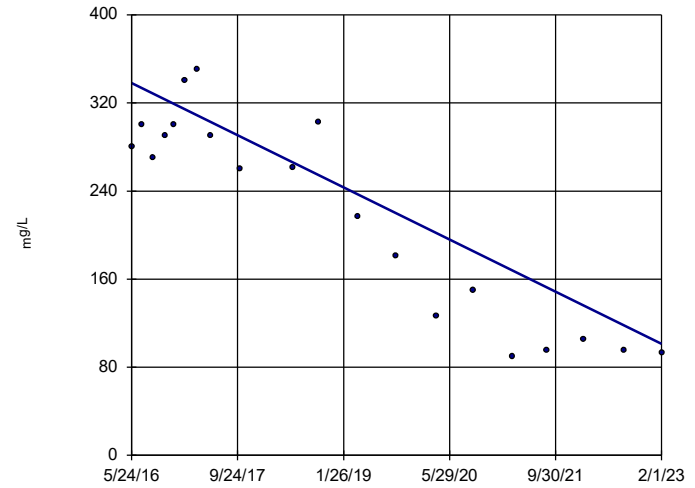


n = 20
 Slope = 8.913
 units per year.
 Mann-Kendall
 statistic = 72
 critical = 81
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride Analysis Run 5/12/2023 1:18 PM View: A3 Trend Test
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWC-18

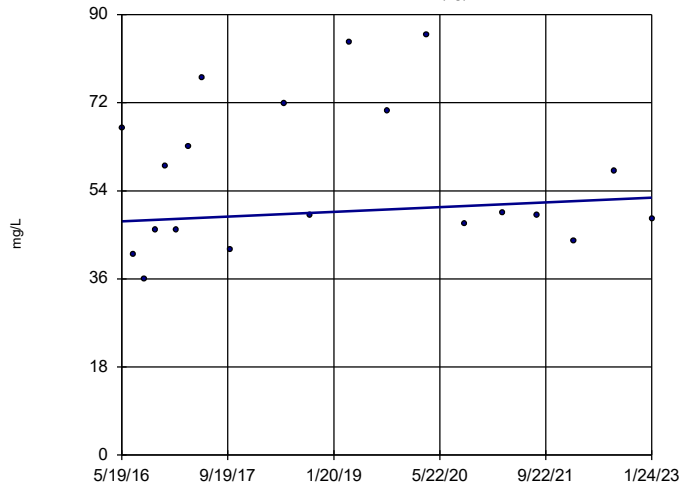


n = 20
 Slope = -35.39
 units per year.
 Mann-Kendall
 statistic = -120
 critical = -81
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride Analysis Run 5/12/2023 1:18 PM View: A3 Trend Test
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWA-1 (bg)

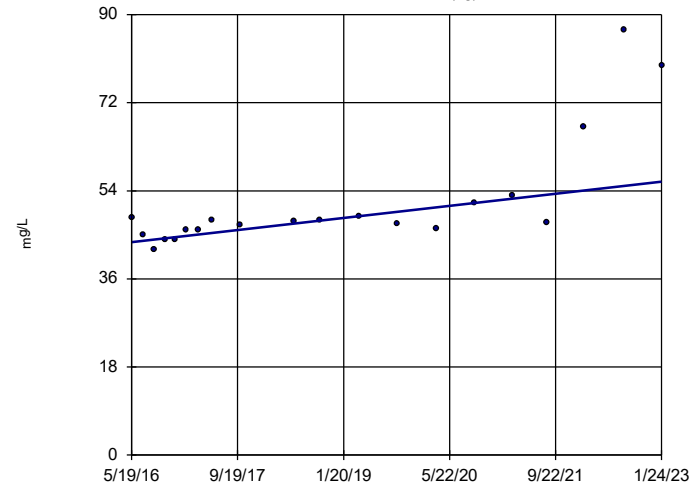


n = 20
 Slope = 0.7253
 units per year.
 Mann-Kendall
 statistic = 21
 critical = 81
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate Analysis Run 5/12/2023 1:18 PM View: A3 Trend Test
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWA-2 (bg)

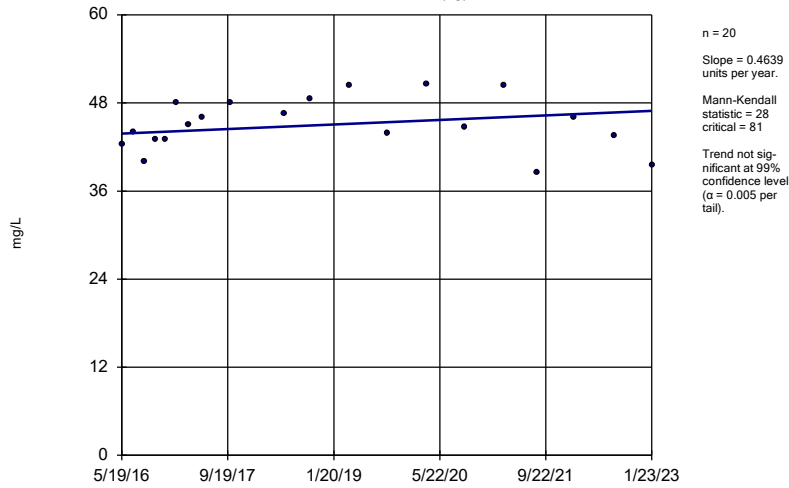


n = 20
 Slope = 1.847
 units per year.
 Mann-Kendall
 statistic = 118
 critical = 81
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate Analysis Run 5/12/2023 1:18 PM View: A3 Trend Test
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWA-3 (bg)

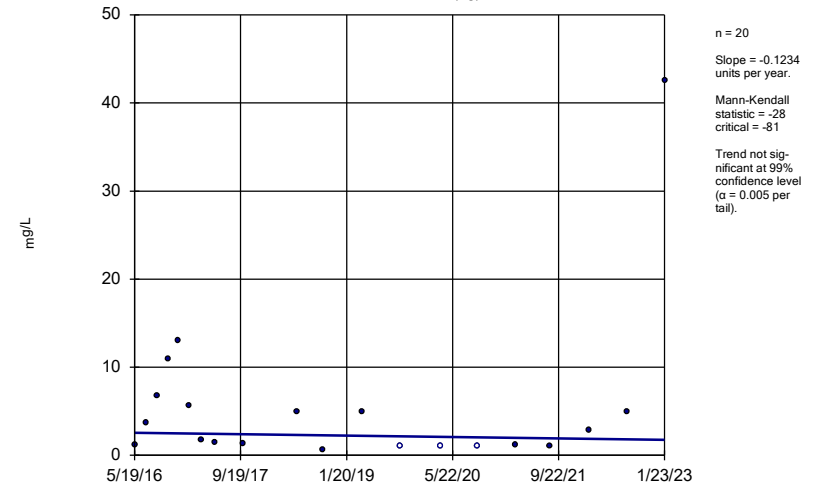


Constituent: Sulfate Analysis Run 5/12/2023 1:18 PM View: A3 Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-2

Hollow symbols indicate censored values.

Sen's Slope Estimator

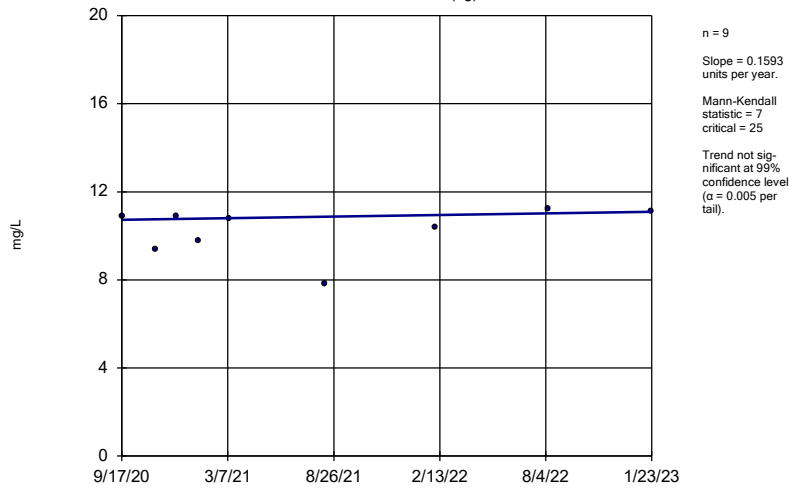
HGWA-4 (bg)



Constituent: Sulfate Analysis Run 5/12/2023 1:18 PM View: A3 Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

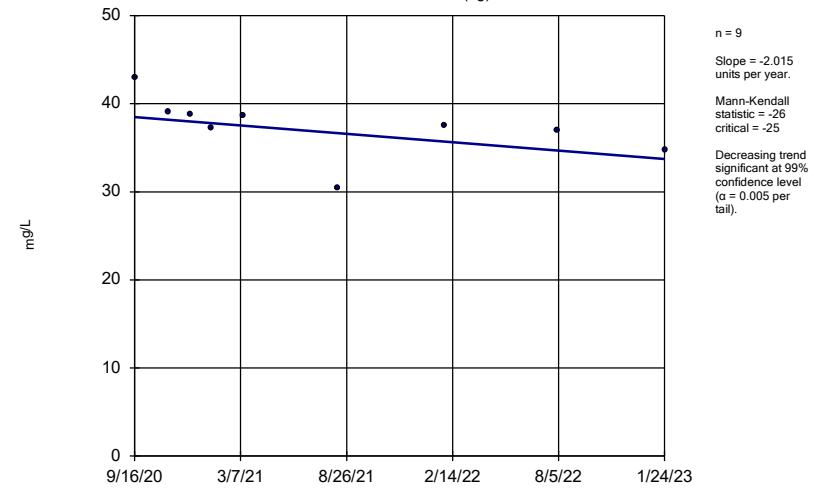
HGWA-42D (bg)



Constituent: Sulfate Analysis Run 5/12/2023 1:18 PM View: A3 Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

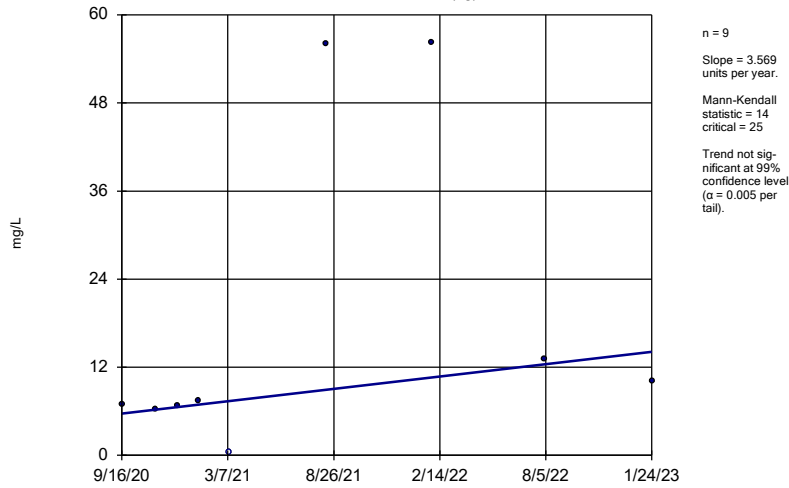
HGWA-43D (bg)



Constituent: Sulfate Analysis Run 5/12/2023 1:18 PM View: A3 Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

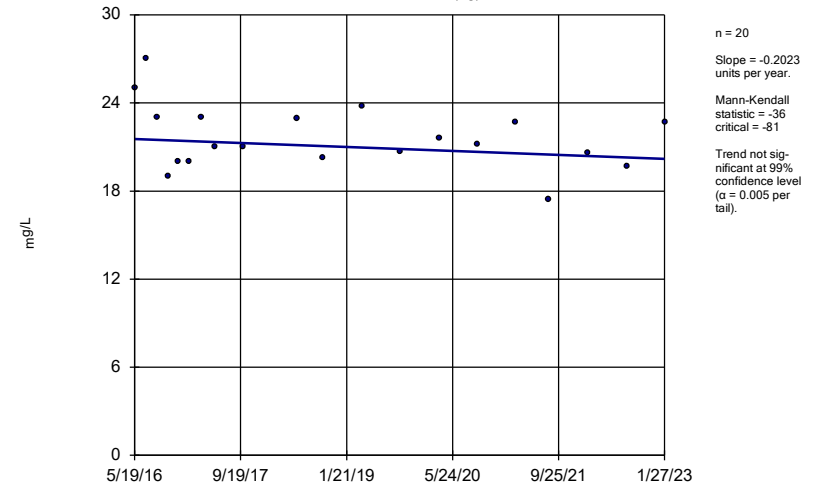
HGWA-44D (bg)



Constituent: Sulfate Analysis Run 5/12/2023 1:18 PM View: A3 Trend Test
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

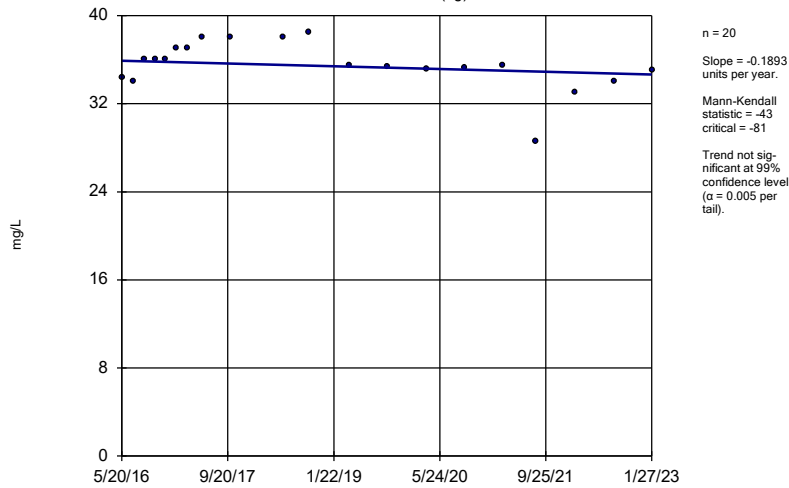
HGWA-5 (bg)



Constituent: Sulfate Analysis Run 5/12/2023 1:18 PM View: A3 Trend Test
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

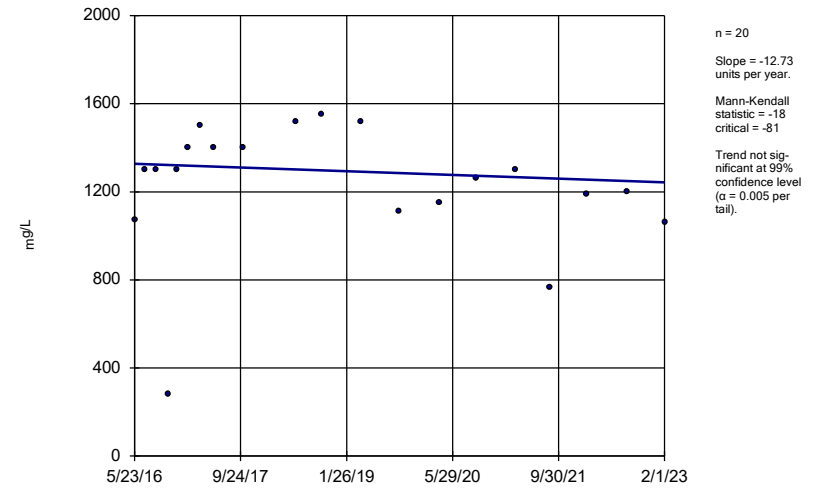
HGWA-6 (bg)



Constituent: Sulfate Analysis Run 5/12/2023 1:18 PM View: A3 Trend Test
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

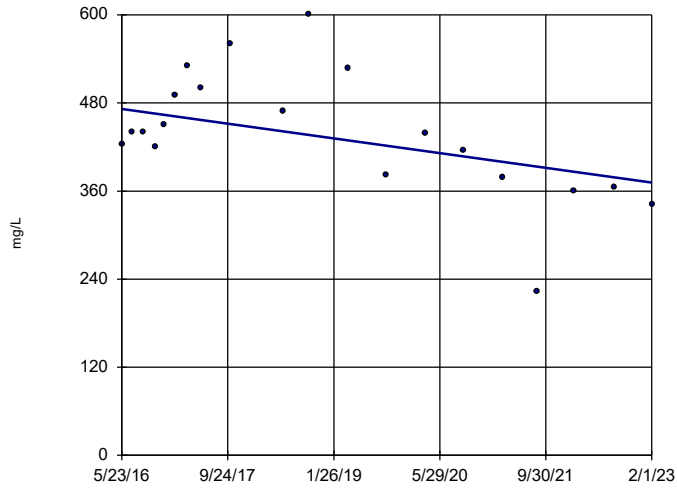
HGWC-14



Constituent: Sulfate Analysis Run 5/12/2023 1:18 PM View: A3 Trend Test
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWC-15

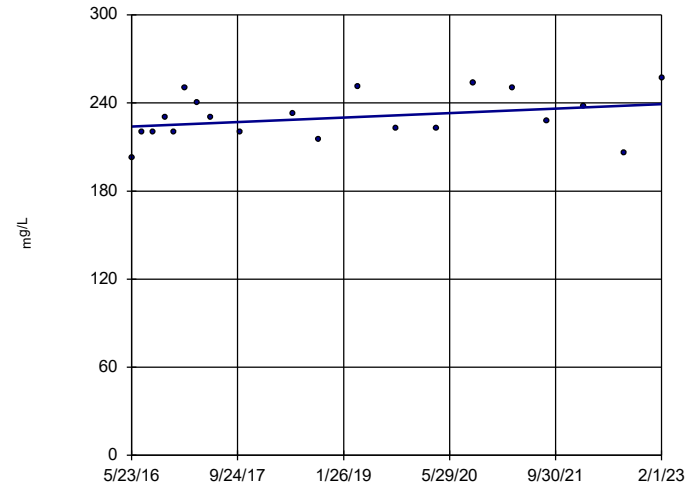


n = 20
 Slope = -15.03
 units per year.
 Mann-Kendall
 statistic = -65
 critical = -81
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate Analysis Run 5/12/2023 1:18 PM View: A3 Trend Test
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWC-16

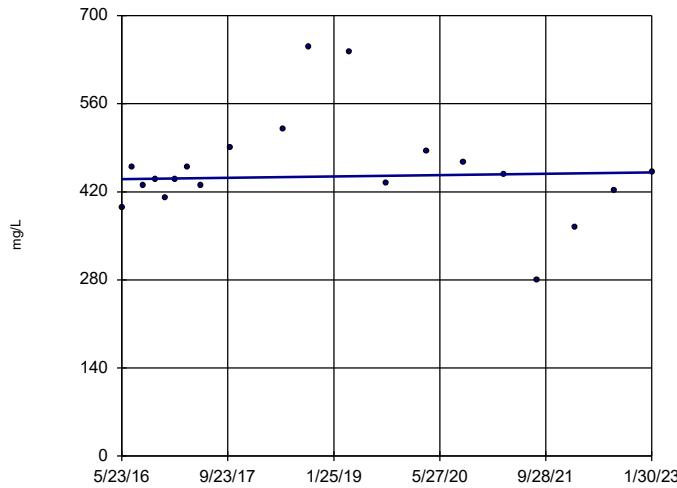


n = 20
 Slope = 2.285
 units per year.
 Mann-Kendall
 statistic = 55
 critical = 81
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate Analysis Run 5/12/2023 1:18 PM View: A3 Trend Test
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWC-17

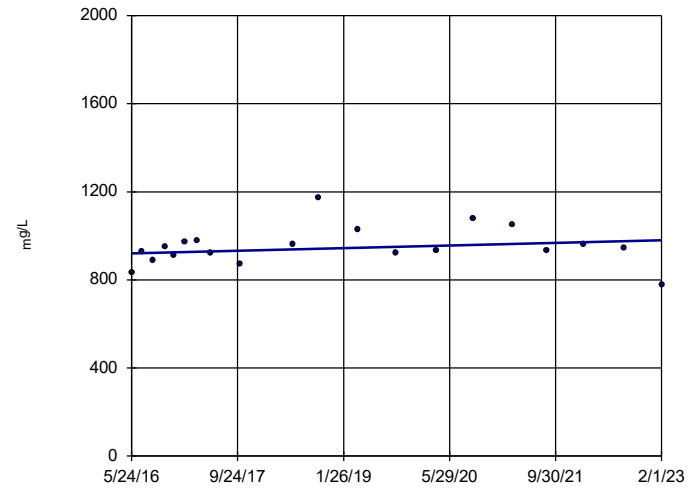


n = 20
 Slope = 1.633
 units per year.
 Mann-Kendall
 statistic = 7
 critical = 81
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate Analysis Run 5/12/2023 1:18 PM View: A3 Trend Test
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWC-18

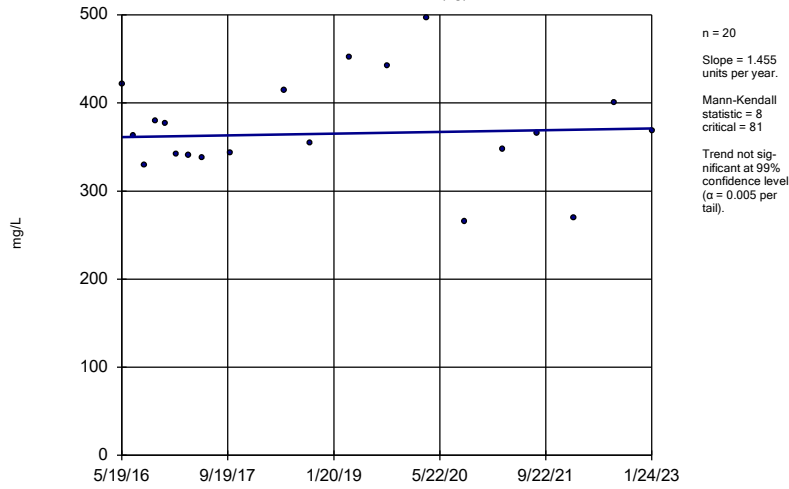


n = 20
 Slope = 8.948
 units per year.
 Mann-Kendall
 statistic = 36
 critical = 81
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate Analysis Run 5/12/2023 1:18 PM View: A3 Trend Test
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

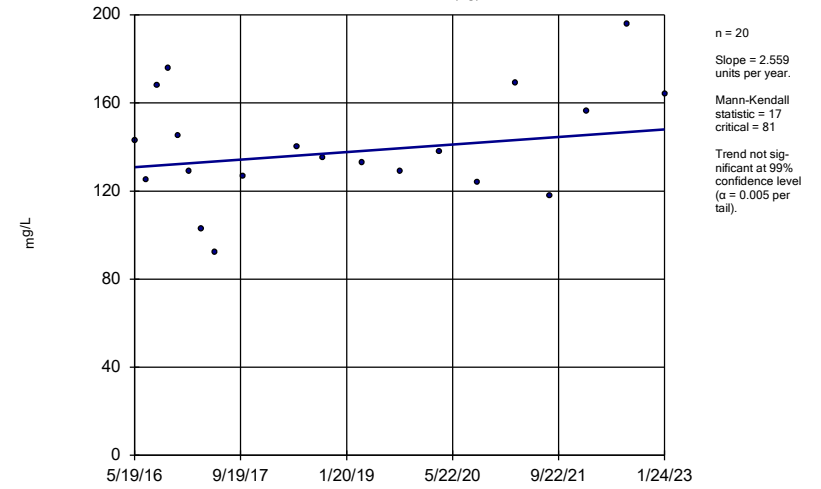
HGWA-1 (bg)



Constituent: Total Dissolved Solids Analysis Run 5/12/2023 1:18 PM View: A3 Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

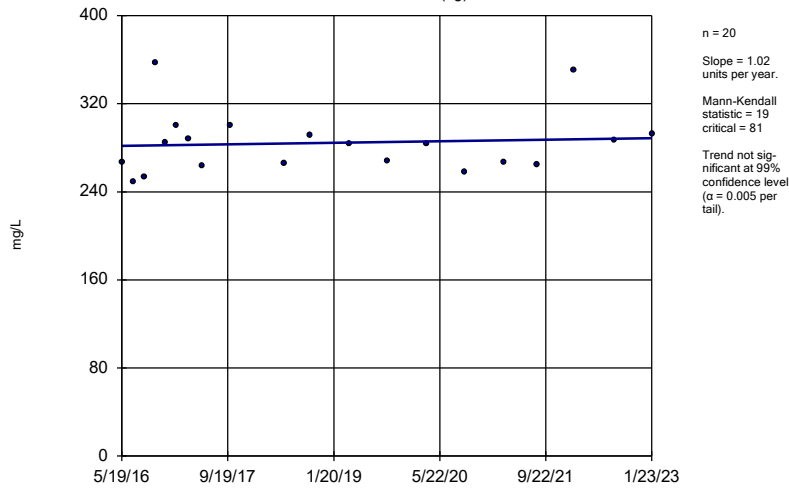
HGWA-2 (bg)



Constituent: Total Dissolved Solids Analysis Run 5/12/2023 1:18 PM View: A3 Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

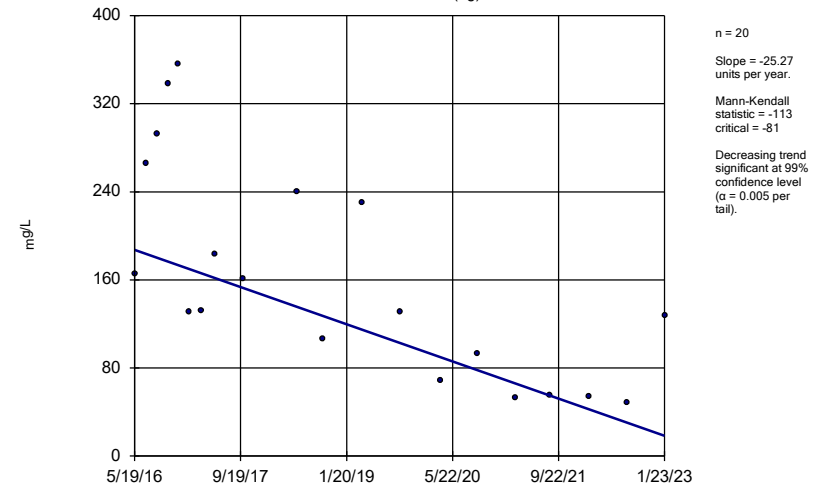
HGWA-3 (bg)



Constituent: Total Dissolved Solids Analysis Run 5/12/2023 1:18 PM View: A3 Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

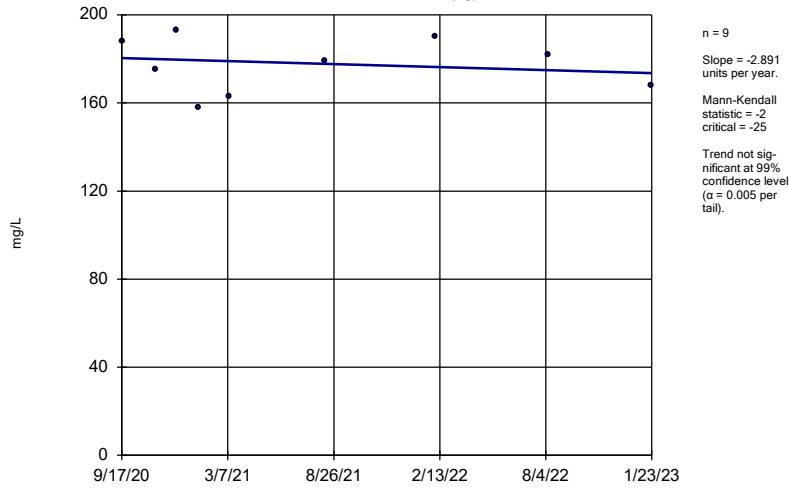
HGWA-4 (bg)



Constituent: Total Dissolved Solids Analysis Run 5/12/2023 1:18 PM View: A3 Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

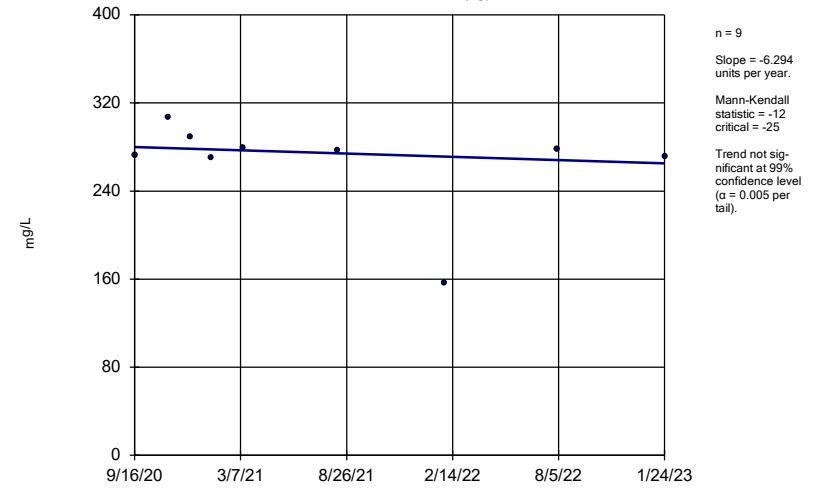
HGWA-42D (bg)



Constituent: Total Dissolved Solids Analysis Run 5/12/2023 1:18 PM View: A3 Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

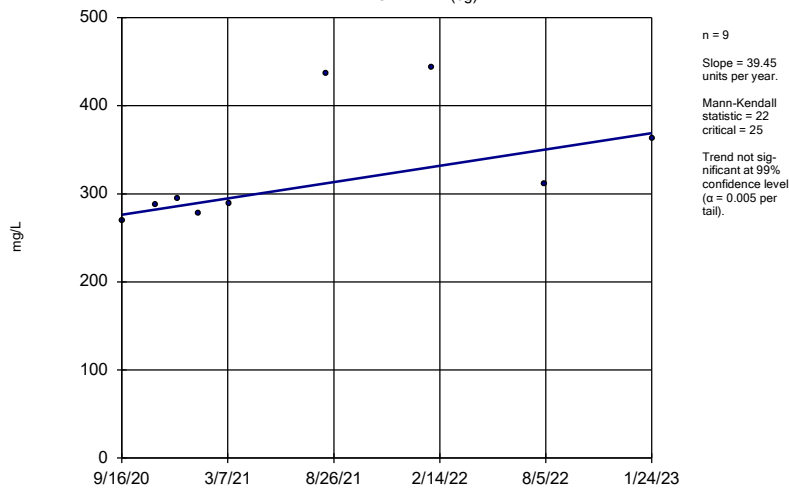
HGWA-43D (bg)



Constituent: Total Dissolved Solids Analysis Run 5/12/2023 1:18 PM View: A3 Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

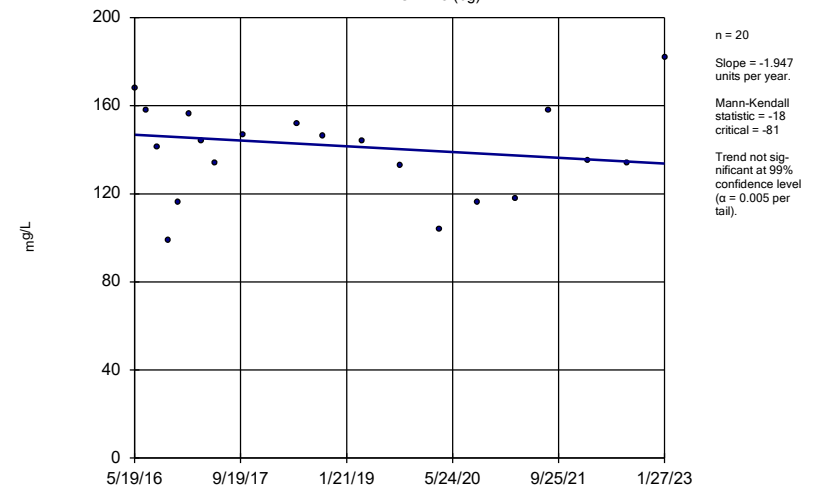
HGWA-44D (bg)



Constituent: Total Dissolved Solids Analysis Run 5/12/2023 1:18 PM View: A3 Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

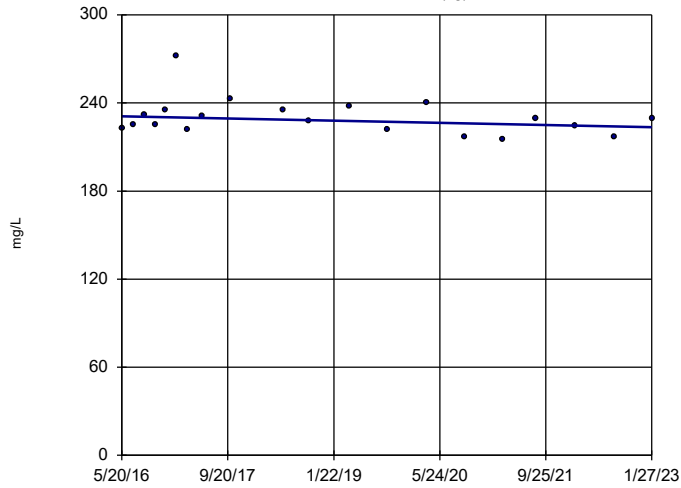
HGWA-5 (bg)



Constituent: Total Dissolved Solids Analysis Run 5/12/2023 1:18 PM View: A3 Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWA-6 (bg)

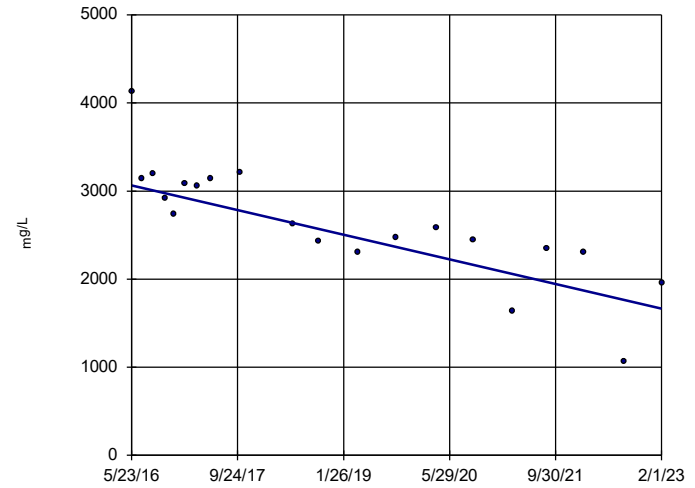


n = 20
 Slope = -1.109
 units per year.
 Mann-Kendall
 statistic = -29
 critical = -81
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Total Dissolved Solids Analysis Run 5/12/2023 1:18 PM View: A3 Trend Test
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWC-14

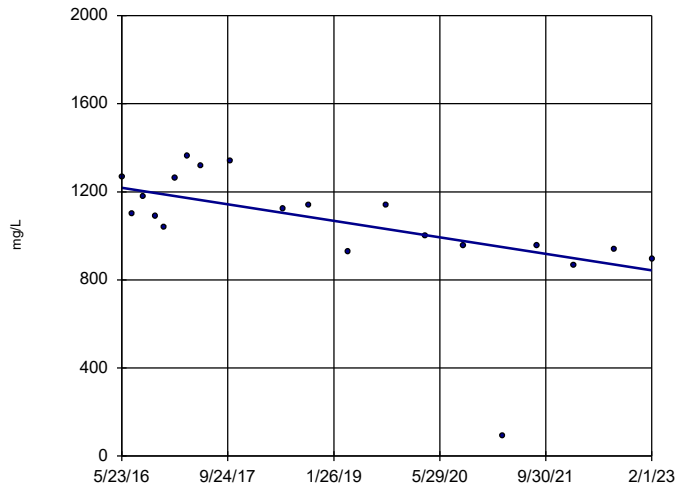


n = 20
 Slope = -209.1
 units per year.
 Mann-Kendall
 statistic = -132
 critical = -81
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Total Dissolved Solids Analysis Run 5/12/2023 1:18 PM View: A3 Trend Test
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWC-15

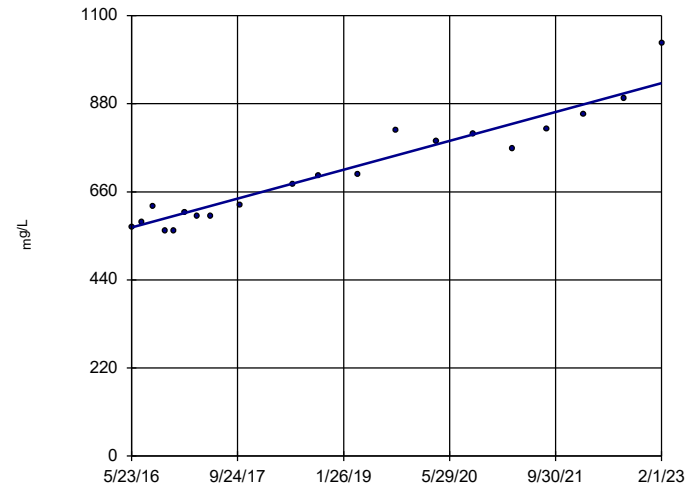


n = 20
 Slope = -55.89
 units per year.
 Mann-Kendall
 statistic = -95
 critical = -81
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Total Dissolved Solids Analysis Run 5/12/2023 1:18 PM View: A3 Trend Test
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWC-16

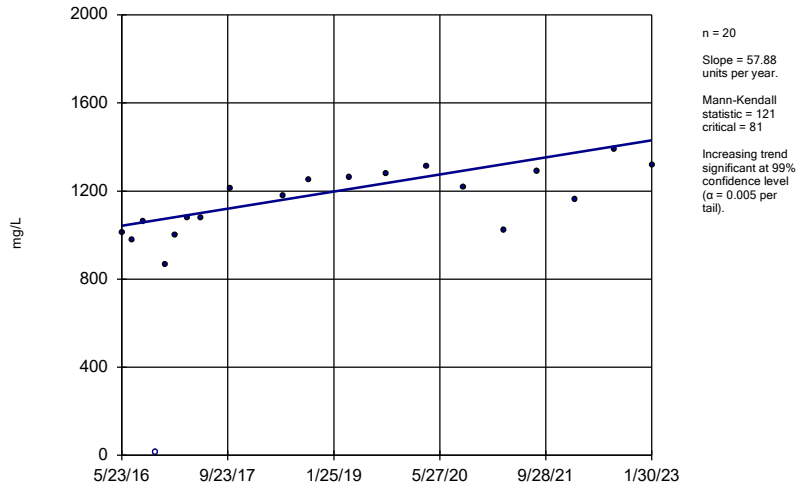


n = 20
 Slope = 53.83
 units per year.
 Mann-Kendall
 statistic = 154
 critical = 81
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Total Dissolved Solids Analysis Run 5/12/2023 1:18 PM View: A3 Trend Test
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

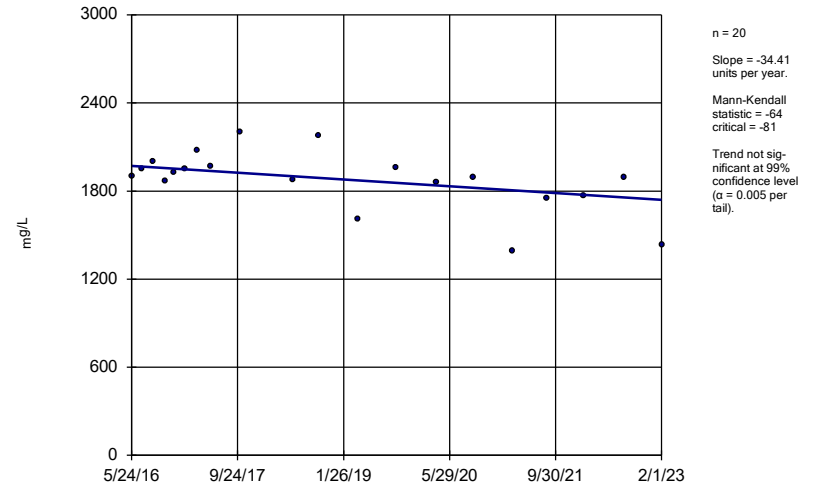
HGWC-17



Constituent: Total Dissolved Solids Analysis Run 5/12/2023 1:18 PM View: A3 Trend Test
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWC-18



Constituent: Total Dissolved Solids Analysis Run 5/12/2023 1:18 PM View: A3 Trend Test
 Plant Hammond Client: Southern Company Data: Hammond AP-2

FIGURE F.

Upper Tolerance Limit Summary Table

Plant Hammond Client: Southern Company Data: Hammond AP-2 Printed 5/16/2023, 2:09 PM

Constituent	Well	Upper Lim.	Date	Observ.	Sig.	Bq.N	%NDs	Transform	Alpha	Method
Antimony (mg/L)	n/a	0.003	n/a	n/a	n/a	135	82.22	n/a	0.0009833	NP Inter(NDs)
Arsenic (mg/L)	n/a	0.005	n/a	n/a	n/a	168	80.95	n/a	0.000181	NP Inter(NDs)
Barium (mg/L)	n/a	0.46	n/a	n/a	n/a	168	0	n/a	0.000181	NP Inter(normality)
Beryllium (mg/L)	n/a	0.0005	n/a	n/a	n/a	156	82.69	n/a	0.0003349	NP Inter(NDs)
Cadmium (mg/L)	n/a	0.0005	n/a	n/a	n/a	168	92.26	n/a	0.000181	NP Inter(NDs)
Chromium (mg/L)	n/a	0.019	n/a	n/a	n/a	156	85.26	n/a	0.0003349	NP Inter(NDs)
Cobalt (mg/L)	n/a	0.038	n/a	n/a	n/a	168	69.64	n/a	0.000181	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	n/a	4.36	n/a	n/a	n/a	167	0	n/a	0.0001905	NP Inter(n>table)
Fluoride (mg/L)	n/a	1.3	n/a	n/a	n/a	174	31.03	n/a	NaN	NP Inter(normality)
Lead (mg/L)	n/a	0.001	n/a	n/a	n/a	156	75	n/a	0.0003349	NP Inter(NDs)
Lithium (mg/L)	n/a	0.064	n/a	n/a	n/a	166	17.47	n/a	0.0002005	NP Inter(normality)
Mercury (mg/L)	n/a	0.0002	n/a	n/a	n/a	112	92.86	n/a	0.003199	NP Inter(NDs)
Molybdenum (mg/L)	n/a	0.01	n/a	n/a	n/a	154	83.77	n/a	0.0003711	NP Inter(NDs)
Selenium (mg/L)	n/a	0.005	n/a	n/a	n/a	168	98.21	n/a	0.000181	NP Inter(NDs)
Thallium (mg/L)	n/a	0.001	n/a	n/a	n/a	168	98.81	n/a	0.000181	NP Inter(NDs)

FIGURE G.

PLANT HAMMOND AP-2 GWPS				
Constituent Name	MCL	CCR-Rule Specified	Background Limit	GWPS
Antimony, Total (mg/L)	0.006		0.003	0.006
Arsenic, Total (mg/L)	0.01		0.005	0.01
Barium, Total (mg/L)	2		0.46	2
Beryllium, Total (mg/L)	0.004		0.0005	0.004
Cadmium, Total (mg/L)	0.005		0.0005	0.005
Chromium, Total (mg/L)	0.1		0.0019	0.1
Cobalt, Total (mg/L)	n/a	0.006	0.038	0.038
Combined Radium, Total (pCi/L)	5		4.36	5
Fluoride, Total (mg/L)	4		1.3	4
Lead, Total (mg/L)	n/a	0.015	0.001	0.015
Lithium, Total (mg/L)	n/a	0.04	0.064	0.064
Mercury, Total (mg/L)	0.002		0.0002	0.002
Molybdenum, Total (mg/L)	n/a	0.1	0.01	0.1
Selenium, Total (mg/L)	0.05		0.005	0.05
Thallium, Total (mg/L)	0.002		0.001	0.002

**Grey cell indicates background is higher than MCL or CCR-Rule*

**MCL = Maximum Contaminant Level*

**CCR = Coal Combustion Residuals*

**GWPS = Groundwater Protection Standard*

FIGURE H.

Confidence Intervals - Significant Results

Plant Hammond Client: Southern Company Data: Hammond AP-2 Printed 5/22/2023, 4:01 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Cobalt (mg/L)	HGWC-18	0.1843	0.1565	0.038	Yes	23	0.1704	0.02661	0	None	No	0.01	Param.
Cobalt (mg/L)	MW-33	0.05671	0.04409	0.038	Yes	10	0.0504	0.007074	0	None	No	0.01	Param.
Cobalt (mg/L)	MW-35	0.09573	0.08302	0.038	Yes	8	0.08938	0.005999	0	None	No	0.01	Param.

Confidence Intervals - All Results

Plant Hammond Client: Southern Company Data: Hammond AP-2 Printed 5/22/2023, 4:01 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	HGWC-14	0.003	0.001	0.006	No	17	0.002572	0.0009613	82.35	None	No	0.01	NP (NDs)
Antimony (mg/L)	HGWC-15	0.003	0.0021	0.006	No	17	0.002806	0.0004423	82.35	None	No	0.01	NP (NDs)
Antimony (mg/L)	HGWC-18	0.003	0.0008	0.006	No	17	0.002871	0.0005336	94.12	None	No	0.01	NP (NDs)
Antimony (mg/L)	MW-22	0.003	0.0016	0.006	No	8	0.002825	0.000495	87.5	None	No	0.004	NP (NDs)
Antimony (mg/L)	MW-33	0.003	0.00046	0.006	No	6	0.002577	0.001037	83.33	None	No	0.0155	NP (NDs)
Antimony (mg/L)	MW-34D	0.003	0.0018	0.006	No	4	0.0027	0.0006	75	None	No	0.0625	NP (NDs)
Antimony (mg/L)	MW-35	0.003	0.00041	0.006	No	6	0.002552	0.00105	66.67	None	No	0.0155	NP (NDs)
Antimony (mg/L)	MW-37D	0.003	0.00079	0.006	No	6	0.002632	0.0009022	83.33	None	No	0.0155	NP (NDs)
Arsenic (mg/L)	HGWC-14	0.007215	0.004338	0.01	No	23	0.006003	0.003023	13.04	None	sqrt(x)	0.01	Param.
Arsenic (mg/L)	HGWC-15	0.005	0.0008	0.01	No	23	0.004406	0.001571	86.96	None	No	0.01	NP (NDs)
Arsenic (mg/L)	HGWC-16	0.005	0.0012	0.01	No	23	0.004257	0.001668	82.61	None	No	0.01	NP (NDs)
Arsenic (mg/L)	HGWC-17	0.005	0.0017	0.01	No	23	0.003864	0.001801	69.57	None	No	0.01	NP (NDs)
Arsenic (mg/L)	HGWC-18	0.006689	0.004793	0.01	No	23	0.005741	0.001813	0	None	No	0.01	Param.
Arsenic (mg/L)	MW-21D	0.005	0.001	0.01	No	13	0.003884	0.00184	69.23	None	No	0.01	NP (NDs)
Arsenic (mg/L)	MW-22	0.005	0.00045	0.01	No	12	0.004621	0.001313	91.67	None	No	0.01	NP (NDs)
Arsenic (mg/L)	MW-23D	0.005	0.001	0.01	No	12	0.004318	0.001592	83.33	None	No	0.01	NP (NDs)
Arsenic (mg/L)	MW-33	0.009086	0.003603	0.01	No	9	0.006344	0.00284	11.11	None	No	0.01	Param.
Arsenic (mg/L)	MW-34D	0.005798	0.001268	0.01	No	6	0.003533	0.001649	0	None	No	0.01	Param.
Arsenic (mg/L)	MW-35	0.025	0.0043	0.01	No	8	0.01043	0.009037	25	None	No	0.004	NP (normality)
Arsenic (mg/L)	MW-37D	0.005	0.00095	0.01	No	8	0.003794	0.00171	62.5	None	No	0.004	NP (NDs)
Arsenic (mg/L)	MW-51	0.0046	0.002	0.01	No	4	0.00375	0.001185	0	None	No	0.0625	NP (selected)
Barium (mg/L)	HGWC-14	0.022	0.018	2	No	23	0.02474	0.02198	4.348	None	No	0.01	NP (normality)
Barium (mg/L)	HGWC-15	0.02674	0.018	2	No	23	0.02237	0.008352	0	None	No	0.01	Param.
Barium (mg/L)	HGWC-16	0.1113	0.1006	2	No	23	0.1059	0.01019	0	None	No	0.01	Param.
Barium (mg/L)	HGWC-17	0.02637	0.02358	2	No	23	0.02497	0.002661	0	None	No	0.01	Param.
Barium (mg/L)	HGWC-18	0.0336	0.028	2	No	23	0.03231	0.01539	4.348	None	No	0.01	NP (normality)
Barium (mg/L)	MW-21D	0.06613	0.04033	2	No	13	0.05323	0.01735	0	None	No	0.01	Param.
Barium (mg/L)	MW-22	0.03037	0.01546	2	No	12	0.02292	0.009501	0	None	No	0.01	Param.
Barium (mg/L)	MW-23D	0.06578	0.05089	2	No	12	0.05833	0.00949	0	None	No	0.01	Param.
Barium (mg/L)	MW-33	0.02701	0.0201	2	No	9	0.02356	0.003575	0	None	No	0.01	Param.
Barium (mg/L)	MW-34D	0.04598	0.03502	2	No	6	0.0405	0.003987	0	None	No	0.01	Param.
Barium (mg/L)	MW-35	0.02969	0.02206	2	No	8	0.02588	0.003603	0	None	No	0.01	Param.
Barium (mg/L)	MW-37D	0.1578	0.108	2	No	8	0.1325	0.02605	0	None	ln(x)	0.01	Param.
Barium (mg/L)	MW-51	0.05247	0.01703	2	No	4	0.03475	0.007805	0	None	No	0.01	Param.
Beryllium (mg/L)	HGWC-14	0.00058	0.00043	0.004	No	21	0.0005657	0.0003206	9.524	None	No	0.01	NP (normality)
Beryllium (mg/L)	HGWC-17	0.0005	0.000067	0.004	No	21	0.0004158	0.0001779	80.95	None	No	0.01	NP (NDs)
Beryllium (mg/L)	HGWC-18	0.003365	0.002719	0.004	No	21	0.003042	0.0005857	4.762	None	No	0.01	Param.
Beryllium (mg/L)	MW-22	0.0005	0.000062	0.004	No	12	0.0002851	0.0002247	50	None	No	0.01	NP (normality)
Beryllium (mg/L)	MW-33	0.00109	0.0007052	0.004	No	9	0.00088	0.0002771	0	None	x^2	0.01	Param.
Beryllium (mg/L)	MW-34D	0.0005	0.000065	0.004	No	6	0.0003692	0.0002045	66.67	None	No	0.0155	NP (NDs)
Beryllium (mg/L)	MW-35	0.0006894	0.0004081	0.004	No	8	0.0005488	0.0001327	0	None	No	0.01	Param.
Beryllium (mg/L)	MW-37D	0.0005	0.00012	0.004	No	8	0.0004525	0.0001344	87.5	None	No	0.004	NP (NDs)
Beryllium (mg/L)	MW-51	0.00042	0.00011	0.004	No	4	0.0002725	0.0001269	0	None	No	0.0625	NP (selected)
Cadmium (mg/L)	HGWC-14	0.0005	0.00012	0.005	No	23	0.0003203	0.0001938	52.17	None	No	0.01	NP (NDs)
Cadmium (mg/L)	HGWC-15	0.00216	0.001418	0.005	No	23	0.001789	0.0007095	0	None	No	0.01	Param.
Cadmium (mg/L)	HGWC-17	0.0005	0.00007	0.005	No	23	0.0004813	0.00008966	95.65	None	No	0.01	NP (NDs)
Cadmium (mg/L)	HGWC-18	0.0024	0.0016	0.005	No	23	0.002329	0.001747	4.348	None	No	0.01	NP (normality)
Cadmium (mg/L)	MW-22	0.0021	0.001547	0.005	No	12	0.001747	0.0005224	0	None	x^3	0.01	Param.
Cadmium (mg/L)	MW-23D	0.0025	0.00012	0.005	No	12	0.001234	0.001128	41.67	None	No	0.01	NP (normality)
Cadmium (mg/L)	MW-33	0.00125	0.00013	0.005	No	9	0.0002967	0.0003585	11.11	None	No	0.002	NP (normality)
Cadmium (mg/L)	MW-34D	0.0007197	0.0002366	0.005	No	6	0.001138	0.001066	33.33	Kaplan-Meier	x^(1/3)	0.01	Param.
Cadmium (mg/L)	MW-35	0.001833	0.0009249	0.005	No	8	0.001379	0.0004282	0	None	No	0.01	Param.
Cadmium (mg/L)	MW-51	0.0016	0.00024	0.005	No	4	0.0008075	0.0006043	0	None	No	0.0625	NP (selected)
Chromium (mg/L)	HGWC-14	0.025	0.00066	0.1	No	21	0.02267	0.007357	90.48	None	No	0.01	NP (NDs)
Chromium (mg/L)	HGWC-15	0.025	0.0012	0.1	No	21	0.02153	0.008713	85.71	None	No	0.01	NP (NDs)

Confidence Intervals - All Results

Plant Hammond Client: Southern Company Data: Hammond AP-2 Printed 5/22/2023, 4:01 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Chromium (mg/L)	HGWC-16	0.025	0.0021	0.1	No	21	0.02158	0.008585	85.71	None	No	0.01	NP (NDs)
Chromium (mg/L)	HGWC-17	0.005	0.0018	0.1	No	21	0.00444	0.001421	85.71	None	No	0.01	NP (NDs)
Chromium (mg/L)	HGWC-18	0.025	0.00063	0.1	No	21	0.0215	0.008781	85.71	None	No	0.01	NP (NDs)
Chromium (mg/L)	MW-21D	0.005	0.00074	0.1	No	13	0.004332	0.001632	84.62	None	No	0.01	NP (NDs)
Chromium (mg/L)	MW-22	0.005	0.00075	0.1	No	12	0.004262	0.001724	83.33	None	No	0.01	NP (NDs)
Chromium (mg/L)	MW-23D	0.025	0.00086	0.1	No	12	0.02097	0.009402	83.33	None	No	0.01	NP (NDs)
Chromium (mg/L)	MW-33	0.005	0.00069	0.1	No	9	0.004521	0.001437	88.89	None	No	0.002	NP (NDs)
Chromium (mg/L)	MW-34D	0.0059	0.005	0.1	No	6	0.00515	0.0003674	83.33	None	No	0.0155	NP (NDs)
Chromium (mg/L)	MW-35	0.025	0.00079	0.1	No	8	0.01895	0.0112	75	None	No	0.004	NP (NDs)
Chromium (mg/L)	MW-37D	0.005	0.0014	0.1	No	8	0.004525	0.001265	75	None	No	0.004	NP (NDs)
Cobalt (mg/L)	HGWC-14	0.033	0.025	0.038	No	23	0.03281	0.02061	4.348	None	No	0.01	NP (normality)
Cobalt (mg/L)	HGWC-15	0.0425	0.02433	0.038	No	23	0.03342	0.01737	0	None	No	0.01	Param.
Cobalt (mg/L)	HGWC-16	0.005	0.00037	0.038	No	23	0.004593	0.001347	91.3	None	No	0.01	NP (NDs)
Cobalt (mg/L)	HGWC-17	0.01571	0.01282	0.038	No	23	0.01427	0.00276	0	None	No	0.01	Param.
Cobalt (mg/L)	HGWC-18	0.1843	0.1565	0.038	Yes	23	0.1704	0.02661	0	None	No	0.01	Param.
Cobalt (mg/L)	MW-21D	0.005	0.00034	0.038	No	13	0.004642	0.001292	92.31	None	No	0.01	NP (NDs)
Cobalt (mg/L)	MW-22	0.03621	0.02329	0.038	No	12	0.02975	0.008237	0	None	No	0.01	Param.
Cobalt (mg/L)	MW-23D	0.001137	0.0009167	0.038	No	12	0.001027	0.0001402	0	None	No	0.01	Param.
Cobalt (mg/L)	MW-33	0.05671	0.04409	0.038	Yes	10	0.0504	0.007074	0	None	No	0.01	Param.
Cobalt (mg/L)	MW-34D	0.01049	0.004877	0.038	No	6	0.007683	0.002043	0	None	No	0.01	Param.
Cobalt (mg/L)	MW-35	0.09573	0.08302	0.038	Yes	8	0.08938	0.005999	0	None	No	0.01	Param.
Cobalt (mg/L)	MW-37D	0.005	0.00048	0.038	No	8	0.003997	0.001876	75	None	No	0.004	NP (NDs)
Cobalt (mg/L)	MW-51	0.03747	0.01703	0.038	No	4	0.02725	0.0045	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	HGWC-14	1.561	1.096	5	No	23	1.329	0.4443	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	HGWC-15	0.8756	0.4627	5	No	23	0.6692	0.3947	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	HGWC-16	0.9267	0.5097	5	No	23	0.7182	0.3987	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	HGWC-17	0.9865	0.6461	5	No	23	0.8163	0.3254	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	HGWC-18	2.152	1.575	5	No	23	1.864	0.5525	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-21D	1.019	0.4388	5	No	13	0.7489	0.4402	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-22	1.06	0.3998	5	No	12	0.7298	0.4206	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-23D	1.031	0.5436	5	No	12	0.7872	0.3104	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-33	2.321	1.061	5	No	9	1.691	0.6528	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-34D	1.291	0.2594	5	No	6	0.7753	0.3756	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-35	2.706	0.832	5	No	8	1.739	0.9594	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-37D	1.349	0.1355	5	No	8	0.7421	0.5723	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-51	1.418	0.2041	5	No	4	0.811	0.2673	0	None	No	0.01	Param.
Fluoride (mg/L)	HGWC-14	0.1721	0.07713	4	No	24	0.1688	0.1523	20.83	Kaplan-Meier	ln(x)	0.01	Param.
Fluoride (mg/L)	HGWC-15	0.12	0.09	4	No	24	0.1373	0.1149	41.67	None	No	0.01	NP (normality)
Fluoride (mg/L)	HGWC-16	0.1407	0.04851	4	No	24	0.1481	0.1161	50	Kaplan-Meier	x^(1/3)	0.01	Param.
Fluoride (mg/L)	HGWC-17	0.1743	0.06167	4	No	24	0.2164	0.206	29.17	Kaplan-Meier	x^(1/3)	0.01	Param.
Fluoride (mg/L)	HGWC-18	0.6071	0.3854	4	No	24	0.4963	0.2173	4.167	None	No	0.01	Param.
Fluoride (mg/L)	MW-21D	0.1	0.056	4	No	13	0.09277	0.01769	76.92	None	No	0.01	NP (NDs)
Fluoride (mg/L)	MW-22	0.13	0.064	4	No	12	0.1114	0.05592	66.67	None	No	0.01	NP (NDs)
Fluoride (mg/L)	MW-23D	0.14	0.074	4	No	12	0.1028	0.0259	66.67	None	No	0.01	NP (NDs)
Fluoride (mg/L)	MW-33	0.2751	0.1183	4	No	10	0.1967	0.08785	0	None	No	0.01	Param.
Fluoride (mg/L)	MW-34D	0.09254	0.05506	4	No	6	0.07817	0.01734	16.67	Kaplan-Meier	No	0.01	Param.
Fluoride (mg/L)	MW-35	0.09433	0.05142	4	No	8	0.07288	0.02024	12.5	None	No	0.01	Param.
Fluoride (mg/L)	MW-37D	0.09216	0.05384	4	No	8	0.073	0.01808	0	None	No	0.01	Param.
Fluoride (mg/L)	MW-51	0.18	0.072	4	No	4	0.11	0.04956	0	None	No	0.0625	NP (selected)
Lead (mg/L)	HGWC-14	0.001674	0.001233	0.015	No	21	0.001453	0.0003992	9.524	None	No	0.01	Param.
Lead (mg/L)	HGWC-15	0.001	0.001	0.015	No	21	0.0008298	0.0003605	76.19	None	No	0.01	NP (NDs)
Lead (mg/L)	HGWC-16	0.001	0.0001	0.015	No	21	0.0006201	0.0004505	57.14	None	No	0.01	NP (NDs)
Lead (mg/L)	HGWC-17	0.001	0.000089	0.015	No	21	0.0006574	0.0004481	61.9	None	No	0.01	NP (NDs)
Lead (mg/L)	HGWC-18	0.001401	0.001045	0.015	No	21	0.001223	0.0003233	9.524	None	No	0.01	Param.
Lead (mg/L)	MW-21D	0.001	0.000048	0.015	No	13	0.000756	0.0004098	69.23	None	No	0.01	NP (NDs)

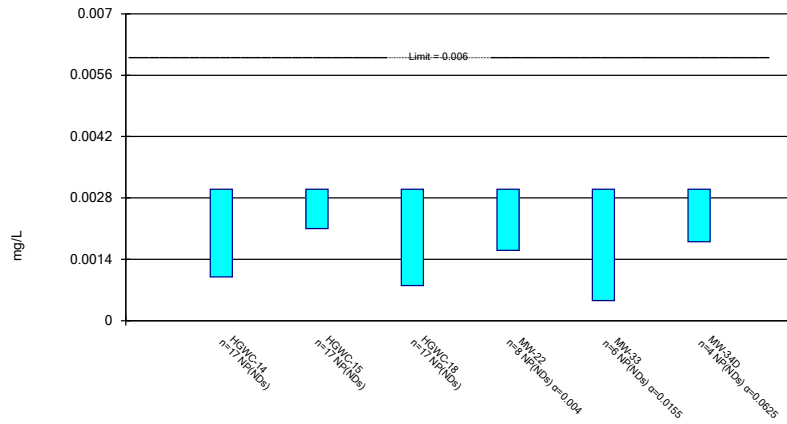
Confidence Intervals - All Results

Plant Hammond Client: Southern Company Data: Hammond AP-2 Printed 5/22/2023, 4:01 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lead (mg/L)	MW-22	0.001	0.000094	0.015	No	12	0.0007692	0.0004179	75	None	No	0.01	NP (NDs)
Lead (mg/L)	MW-23D	0.001	0.00016	0.015	No	12	0.0008509	0.000349	83.33	None	No	0.01	NP (NDs)
Lead (mg/L)	MW-33	0.001674	0.001032	0.015	No	9	0.001511	0.00031	22.22	Kaplan-Meier	x*5	0.01	Param.
Lead (mg/L)	MW-34D	0.001	0.00087	0.015	No	6	0.0009783	0.00005307	83.33	Kaplan-Meier	No	0.0155	NP (NDs)
Lead (mg/L)	MW-35	0.001	0.00016	0.015	No	8	0.000795	0.0003134	50	None	No	0.004	NP (normality)
Lead (mg/L)	MW-37D	0.0017	0.000082	0.015	No	8	0.0008965	0.0004809	62.5	None	No	0.004	NP (NDs)
Lithium (mg/L)	HGWC-15	0.03	0.0021	0.064	No	23	0.01411	0.01324	26.09	None	No	0.01	NP (normality)
Lithium (mg/L)	HGWC-16	0.0042	0.0029	0.064	No	22	0.004023	0.002541	4.545	None	No	0.01	NP (normality)
Lithium (mg/L)	HGWC-17	0.03	0.0012	0.064	No	22	0.01427	0.01469	45.45	None	No	0.01	NP (normality)
Lithium (mg/L)	HGWC-18	0.01424	0.01197	0.064	No	22	0.0131	0.002122	0	None	No	0.01	Param.
Lithium (mg/L)	MW-21D	0.02469	0.02085	0.064	No	13	0.02277	0.002587	0	None	No	0.01	Param.
Lithium (mg/L)	MW-22	0.0015	0.0011	0.064	No	12	0.001275	0.0002598	0	None	No	0.01	NP (normality)
Lithium (mg/L)	MW-23D	0.002562	0.002088	0.064	No	12	0.002325	0.0003019	0	None	No	0.01	Param.
Lithium (mg/L)	MW-33	0.015	0.00086	0.064	No	8	0.002775	0.004941	12.5	None	No	0.004	NP (normality)
Lithium (mg/L)	MW-34D	0.002492	0.0005877	0.064	No	5	0.00154	0.0005683	0	None	No	0.01	Param.
Lithium (mg/L)	MW-35	0.015	0.0034	0.064	No	8	0.005362	0.00392	12.5	None	No	0.004	NP (normality)
Lithium (mg/L)	MW-37D	0.03763	0.02466	0.064	No	7	0.03114	0.00546	0	None	No	0.01	Param.
Lithium (mg/L)	MW-51	0.002658	0.0003917	0.064	No	4	0.001525	0.0004992	0	None	No	0.01	Param.
Mercury (mg/L)	HGWC-18	0.0002	0.00006	0.002	No	14	0.0001536	0.00006559	64.29	None	No	0.01	NP (NDs)
Mercury (mg/L)	MW-22	0.0002	0.00016	0.002	No	6	0.0001933	0.00001633	83.33	None	No	0.0155	NP (NDs)
Mercury (mg/L)	MW-23D	0.0002	0.00017	0.002	No	6	0.000195	0.00001225	83.33	None	No	0.0155	NP (NDs)
Mercury (mg/L)	MW-35	0.00084	0.00014	0.002	No	4	0.000405	0.000336	25	None	No	0.0625	NP (selected)
Molybdenum (mg/L)	HGWC-15	0.01	0.0007	0.1	No	21	0.009557	0.002029	95.24	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	MW-21D	0.03062	0.01772	0.1	No	13	0.02446	0.009288	0	None	sqrt(x)	0.01	Param.
Molybdenum (mg/L)	MW-22	0.01	0.00013	0.1	No	12	0.009177	0.002849	91.67	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	MW-23D	0.004031	0.002602	0.1	No	12	0.003317	0.0009104	8.333	None	No	0.01	Param.
Molybdenum (mg/L)	MW-37D	0.0208	0.00566	0.1	No	7	0.01323	0.006372	0	None	No	0.01	Param.
Selenium (mg/L)	HGWC-14	0.01191	0.006327	0.05	No	23	0.009118	0.005336	0	None	No	0.01	Param.
Selenium (mg/L)	HGWC-15	0.005	0.0041	0.05	No	23	0.00444	0.00139	82.61	None	No	0.01	NP (NDs)
Selenium (mg/L)	HGWC-16	0.005	0.000089	0.05	No	23	0.004786	0.001024	95.65	None	No	0.01	NP (NDs)
Selenium (mg/L)	HGWC-17	0.005	0.0023	0.05	No	23	0.004513	0.001329	86.96	None	No	0.01	NP (NDs)
Selenium (mg/L)	HGWC-18	0.03429	0.0152	0.05	No	23	0.02713	0.02106	4.348	None	sqrt(x)	0.01	Param.
Selenium (mg/L)	MW-22	0.005	0.002	0.05	No	12	0.00475	0.000866	91.67	None	No	0.01	NP (NDs)
Selenium (mg/L)	MW-33	0.02526	0.007766	0.05	No	9	0.01653	0.01103	0	None	x^(1/3)	0.01	Param.
Selenium (mg/L)	MW-34D	0.005	0.0016	0.05	No	6	0.004017	0.00155	66.67	None	No	0.0155	NP (NDs)
Selenium (mg/L)	MW-35	0.02273	0.006433	0.05	No	8	0.01431	0.009754	0	None	x^(1/3)	0.01	Param.
Selenium (mg/L)	MW-51	0.004735	0.0008646	0.05	No	4	0.00335	0.001392	25	Kaplan-Meier	No	0.01	Param.
Thallium (mg/L)	HGWC-14	0.000306	0.00027	0.002	No	23	0.000299	0.00004904	0	None	No	0.01	NP (normality)
Thallium (mg/L)	HGWC-15	0.001	0.00022	0.002	No	23	0.0009661	0.0001626	95.65	None	No	0.01	NP (NDs)
Thallium (mg/L)	HGWC-17	0.001	0.00013	0.002	No	23	0.0006978	0.000424	65.22	None	No	0.01	NP (NDs)
Thallium (mg/L)	HGWC-18	0.001	0.00016	0.002	No	23	0.0005665	0.0004248	47.83	None	No	0.01	NP (normality)
Thallium (mg/L)	MW-33	0.0025	0.00021	0.002	No	9	0.0005311	0.0007402	11.11	None	No	0.002	NP (normality)
Thallium (mg/L)	MW-34D	0.001	0.00015	0.002	No	6	0.0008583	0.000347	83.33	None	No	0.0155	NP (NDs)
Thallium (mg/L)	MW-35	0.001	0.00013	0.002	No	8	0.0008913	0.0003076	87.5	None	No	0.004	NP (NDs)

Non-Parametric Confidence Interval

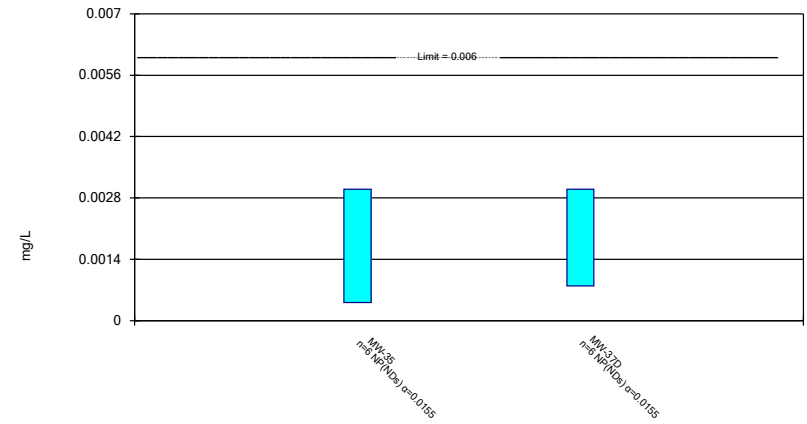
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Antimony Analysis Run 5/22/2023 3:59 PM View: Appendix IV - Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-2

Non-Parametric Confidence Interval

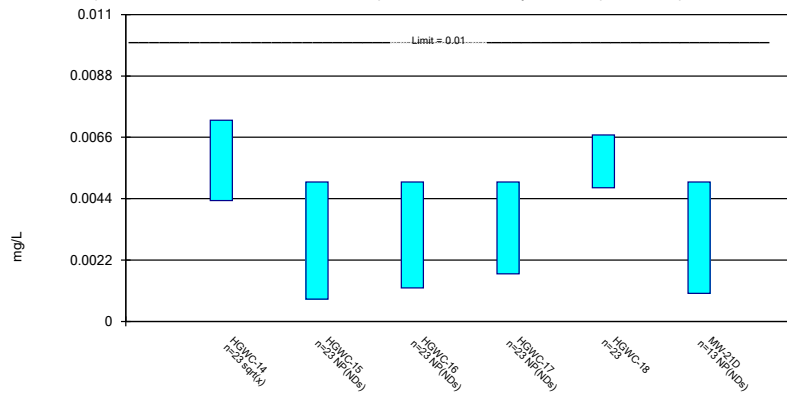
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Constituent: Antimony Analysis Run 5/22/2023 3:59 PM View: Appendix IV - Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-2

Parametric and Non-Parametric (NP) Confidence Interval

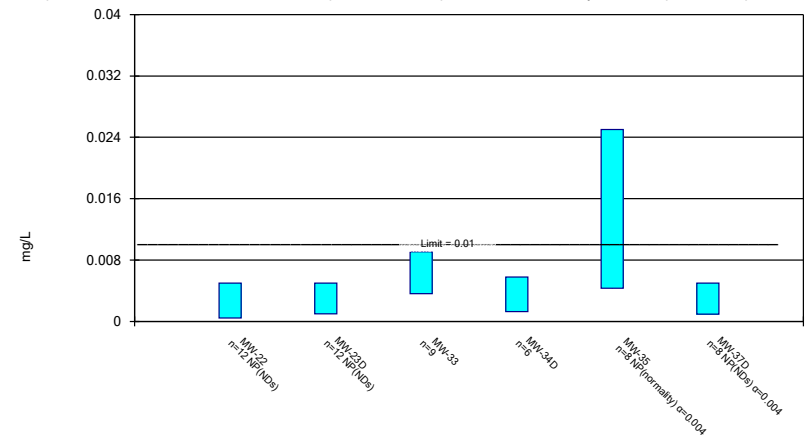
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Constituent: Arsenic Analysis Run 5/22/2023 3:59 PM View: Appendix IV - Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-2

Parametric and Non-Parametric (NP) Confidence Interval

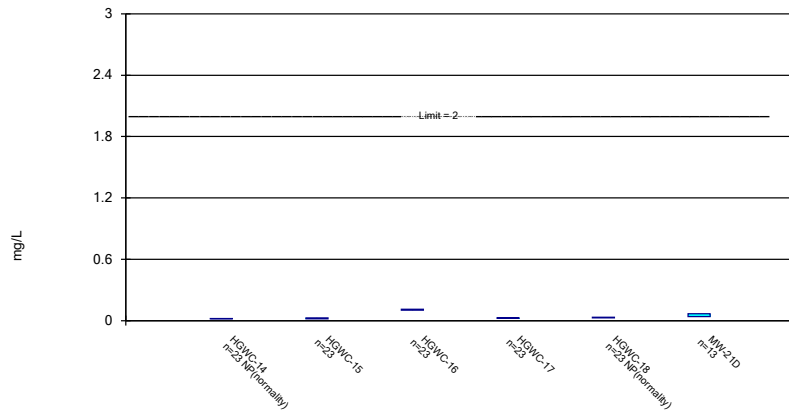
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Plant Hammond Client: Southern Company Data: Hammond AP-2

Parametric and Non-Parametric (NP) Confidence Interval

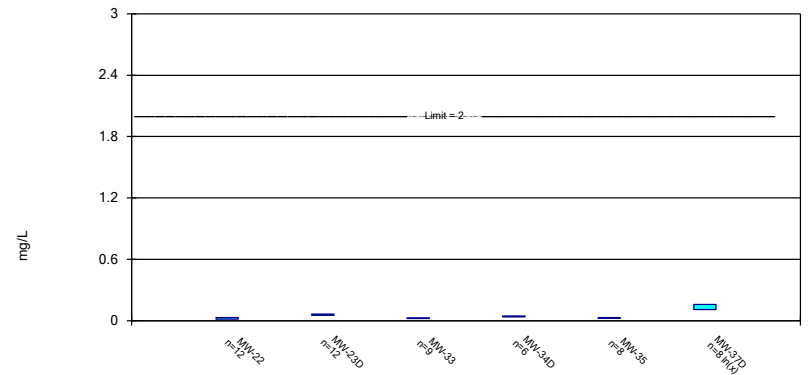
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Constituent: Barium Analysis Run 5/22/2023 3:59 PM View: Appendix IV - Confidence Intervals
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Parametric Confidence Interval

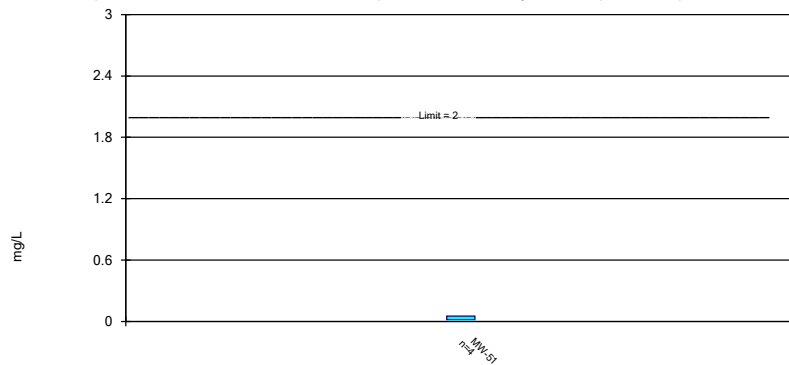
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Constituent: Barium Analysis Run 5/22/2023 3:59 PM View: Appendix IV - Confidence Intervals
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Parametric Confidence Interval

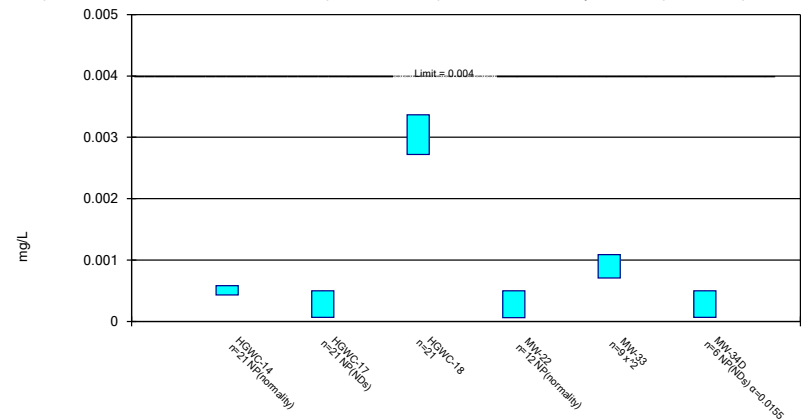
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Constituent: Barium Analysis Run 5/22/2023 3:59 PM View: Appendix IV - Confidence Intervals
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Parametric and Non-Parametric (NP) Confidence Interval

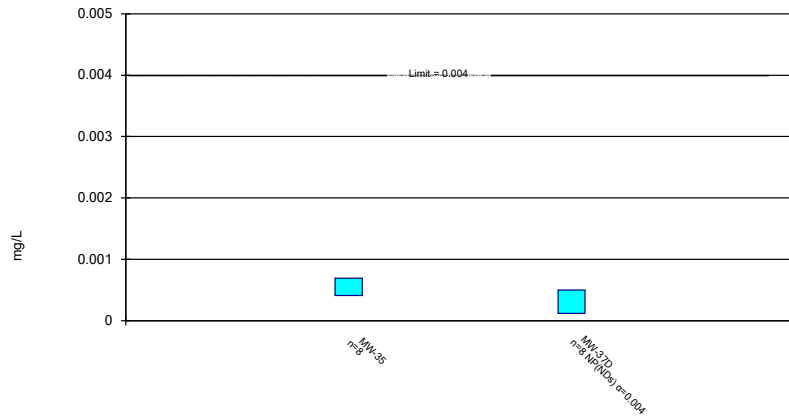
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Constituent: Beryllium Analysis Run 5/22/2023 3:59 PM View: Appendix IV - Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-2

Parametric and Non-Parametric (NP) Confidence Interval

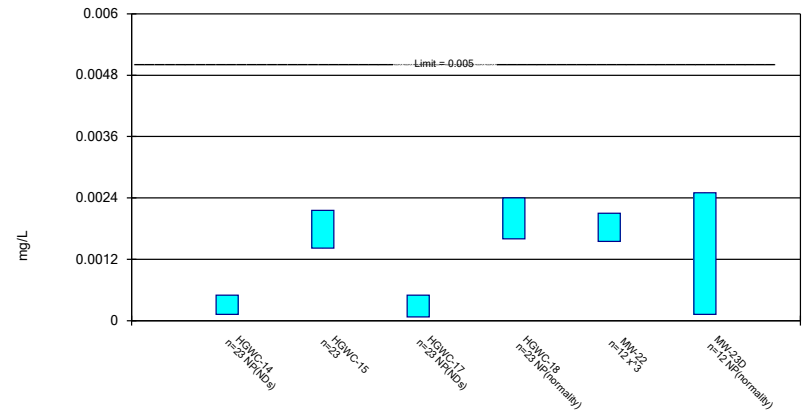
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Beryllium Analysis Run 5/22/2023 3:59 PM View: Appendix IV - Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-2

Parametric and Non-Parametric (NP) Confidence Interval

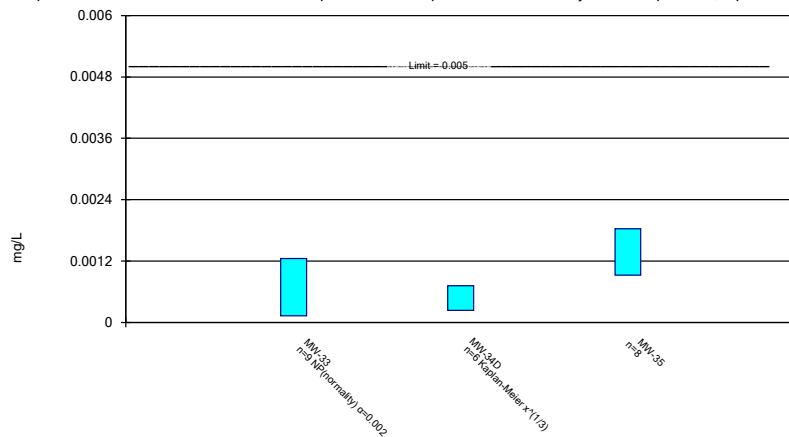
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cadmium Analysis Run 5/22/2023 3:59 PM View: Appendix IV - Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-2

Parametric and Non-Parametric (NP) Confidence Interval

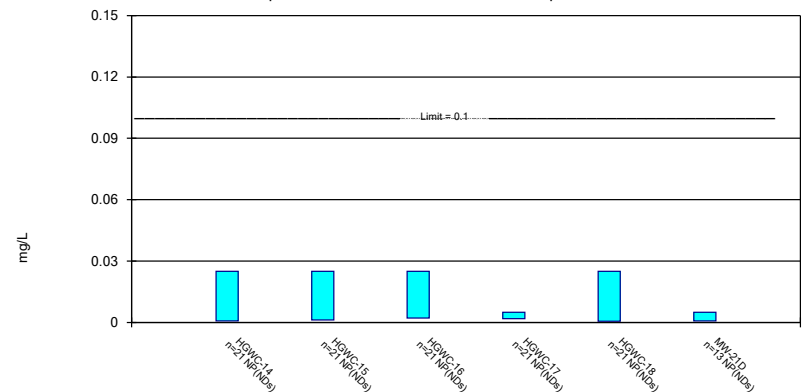
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cadmium Analysis Run 5/22/2023 3:59 PM View: Appendix IV - Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-2

Non-Parametric Confidence Interval

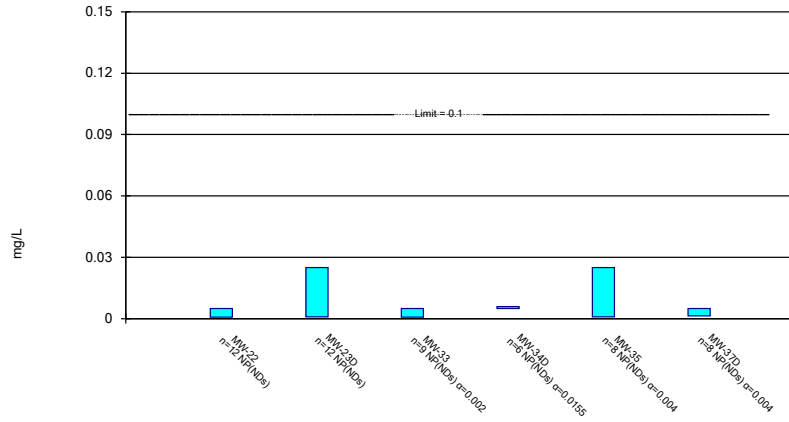
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Chromium Analysis Run 5/22/2023 3:59 PM View: Appendix IV - Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-2

Non-Parametric Confidence Interval

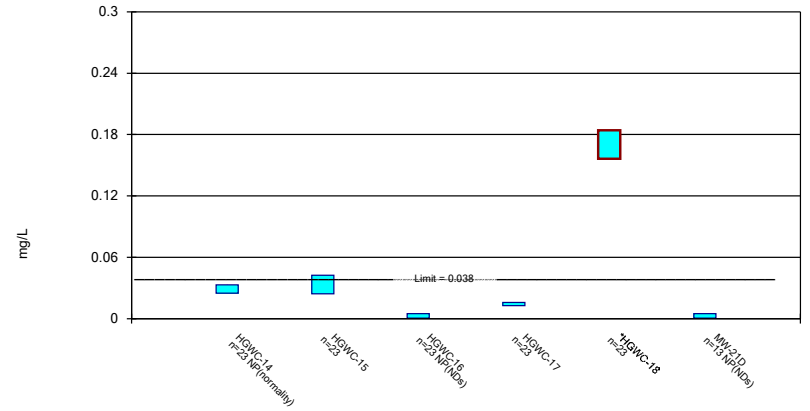
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Chromium Analysis Run 5/22/2023 3:59 PM View: Appendix IV - Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-2

Parametric and Non-Parametric (NP) Confidence Interval

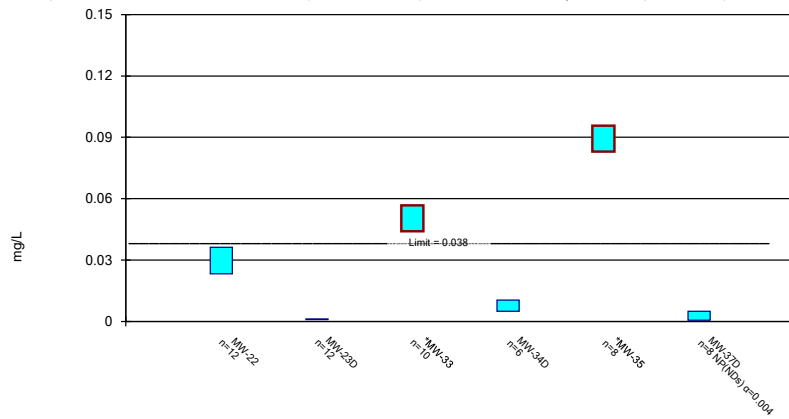
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 5/22/2023 3:59 PM View: Appendix IV - Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-2

Parametric and Non-Parametric (NP) Confidence Interval

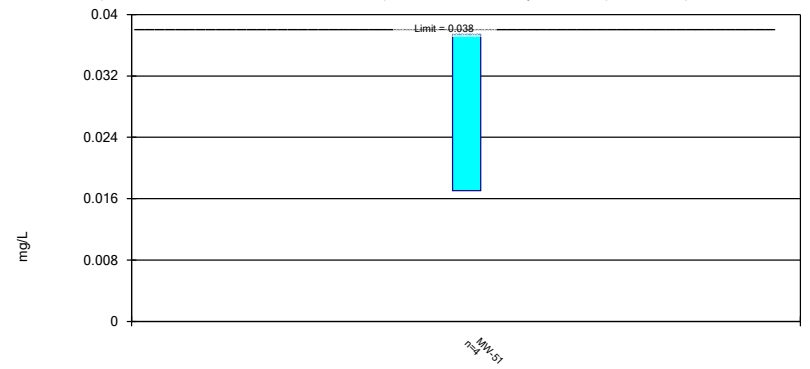
Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 5/22/2023 3:59 PM View: Appendix IV - Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-2

Parametric Confidence Interval

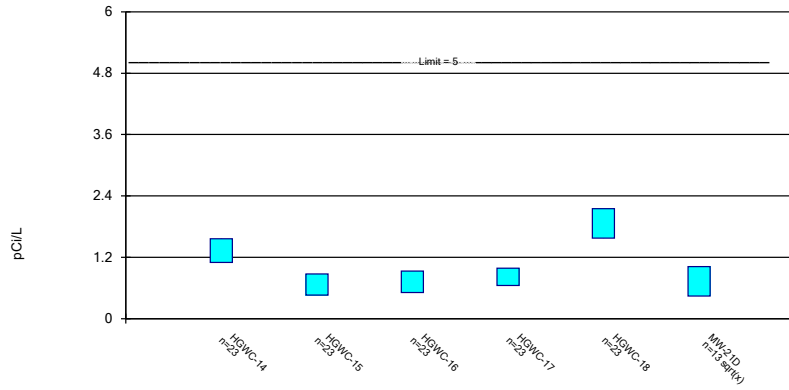
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 5/22/2023 3:59 PM View: Appendix IV - Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-2

Parametric Confidence Interval

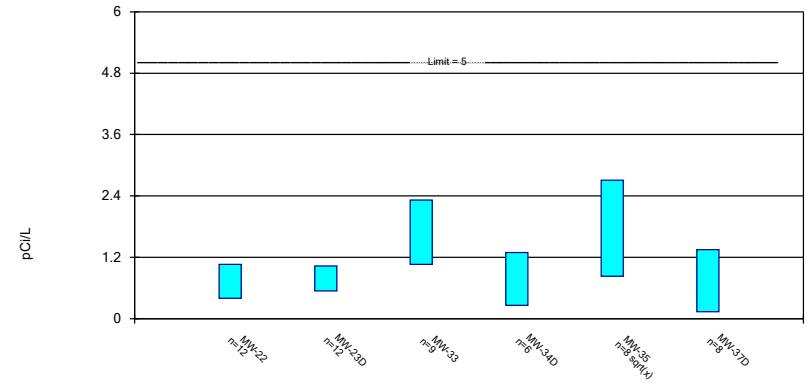
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 5/22/2023 3:59 PM View: Appendix IV - Confiden
Plant Hammond Client: Southern Company Data: Hammond AP-2

Parametric Confidence Interval

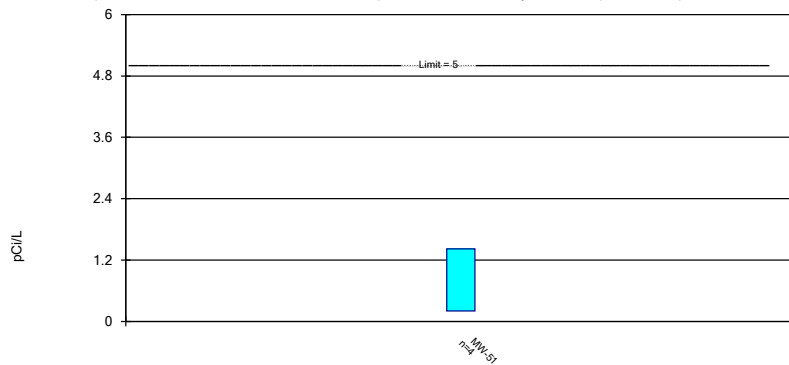
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 5/22/2023 3:59 PM View: Appendix IV - Confiden
Plant Hammond Client: Southern Company Data: Hammond AP-2

Parametric Confidence Interval

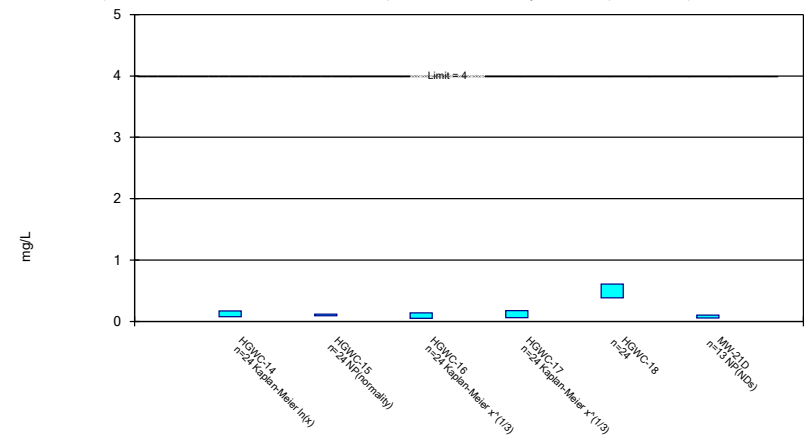
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 5/22/2023 3:59 PM View: Appendix IV - Confiden
Plant Hammond Client: Southern Company Data: Hammond AP-2

Parametric and Non-Parametric (NP) Confidence Interval

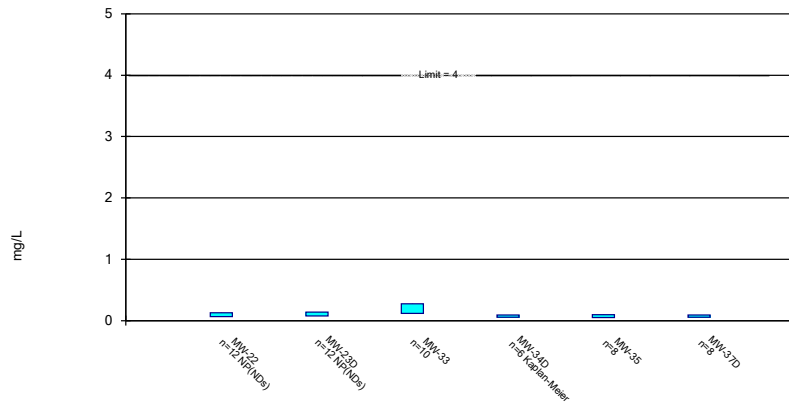
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 5/22/2023 3:59 PM View: Appendix IV - Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-2

Parametric and Non-Parametric (NP) Confidence Interval

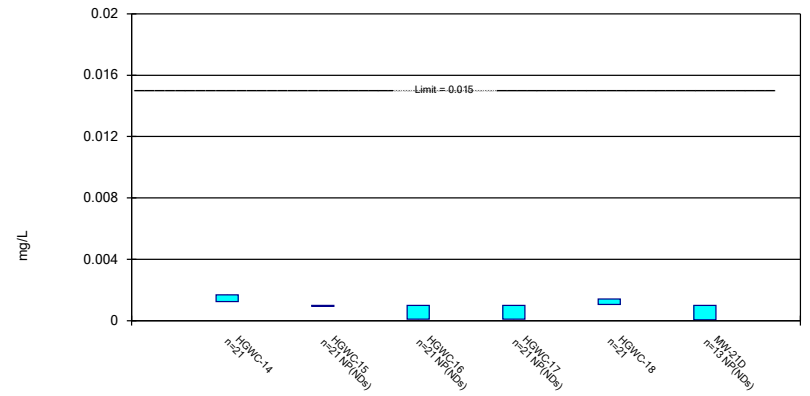
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 5/22/2023 3:59 PM View: Appendix IV - Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-2

Parametric and Non-Parametric (NP) Confidence Interval

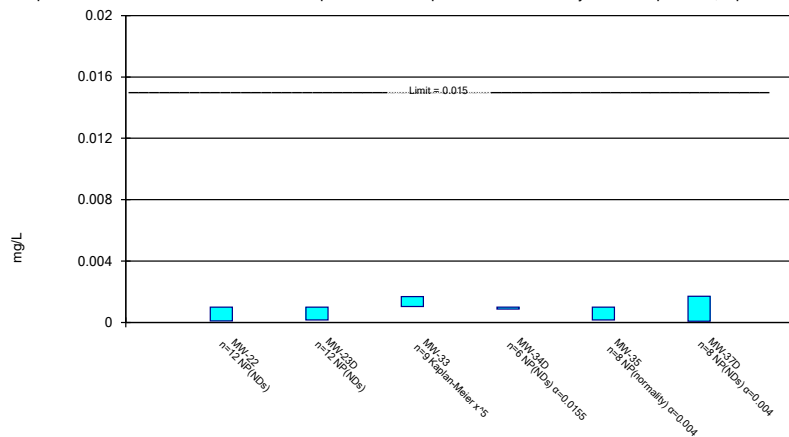
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lead Analysis Run 5/22/2023 3:59 PM View: Appendix IV - Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-2

Parametric and Non-Parametric (NP) Confidence Interval

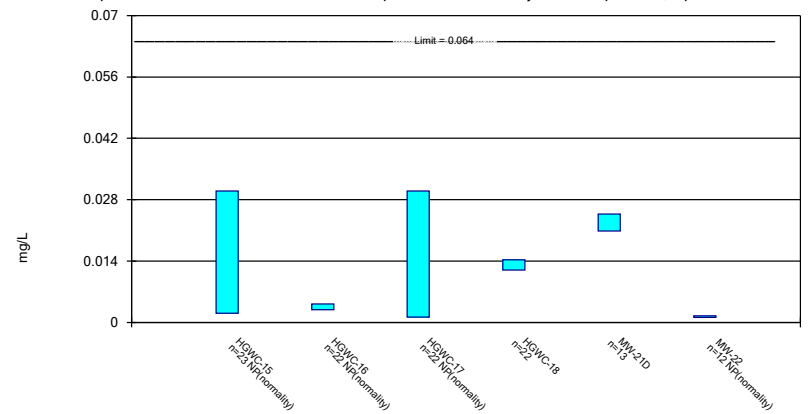
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lead Analysis Run 5/22/2023 3:59 PM View: Appendix IV - Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-2

Parametric and Non-Parametric (NP) Confidence Interval

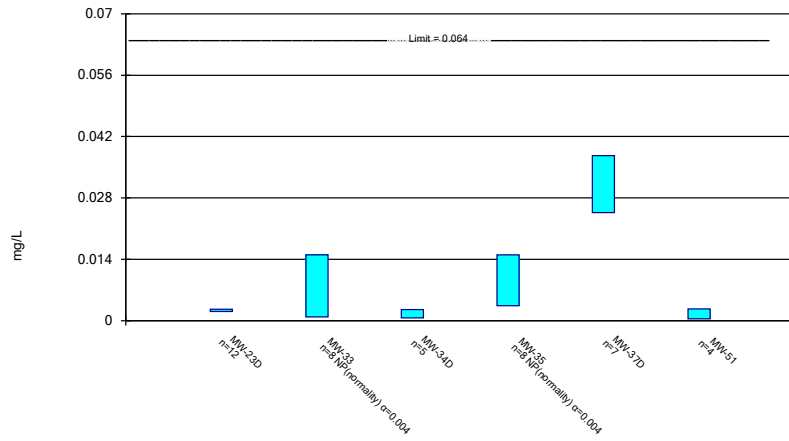
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 5/22/2023 3:59 PM View: Appendix IV - Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-2

Parametric and Non-Parametric (NP) Confidence Interval

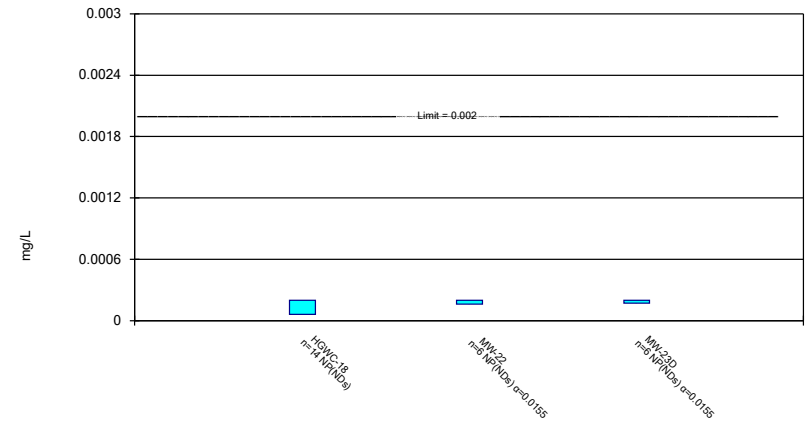
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 5/22/2023 3:59 PM View: Appendix IV - Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-2

Non-Parametric Confidence Interval

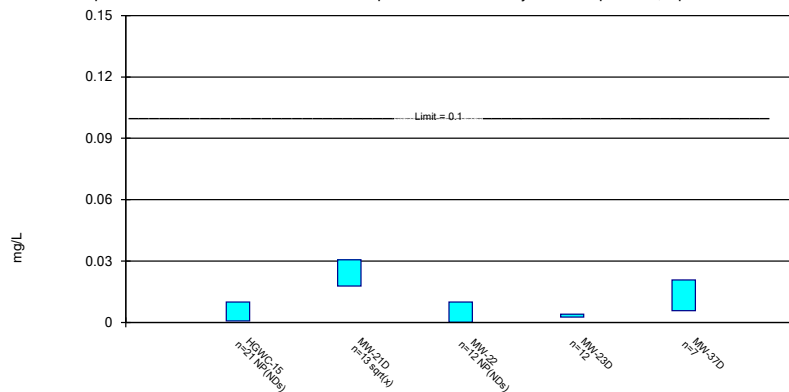
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Mercury Analysis Run 5/22/2023 3:59 PM View: Appendix IV - Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-2

Parametric and Non-Parametric (NP) Confidence Interval

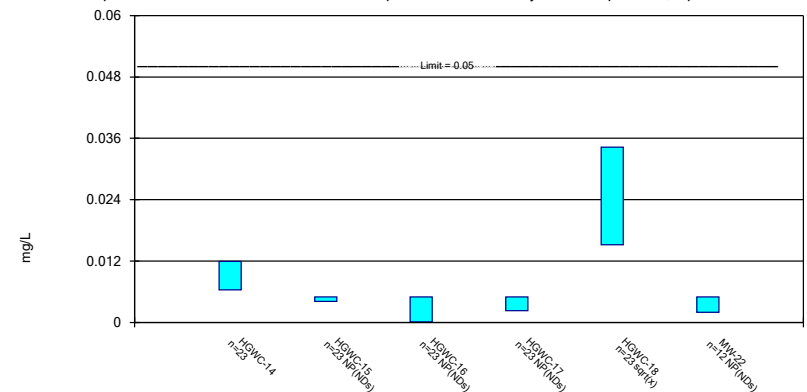
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 5/22/2023 3:59 PM View: Appendix IV - Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-2

Parametric and Non-Parametric (NP) Confidence Interval

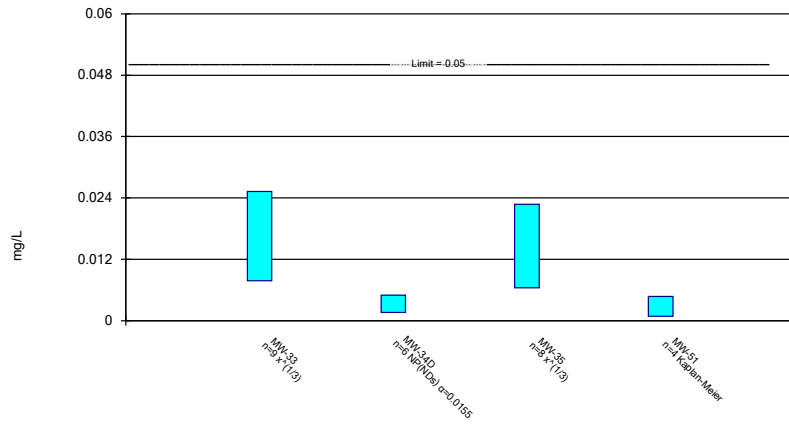
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 5/22/2023 3:59 PM View: Appendix IV - Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-2

Parametric and Non-Parametric (NP) Confidence Interval

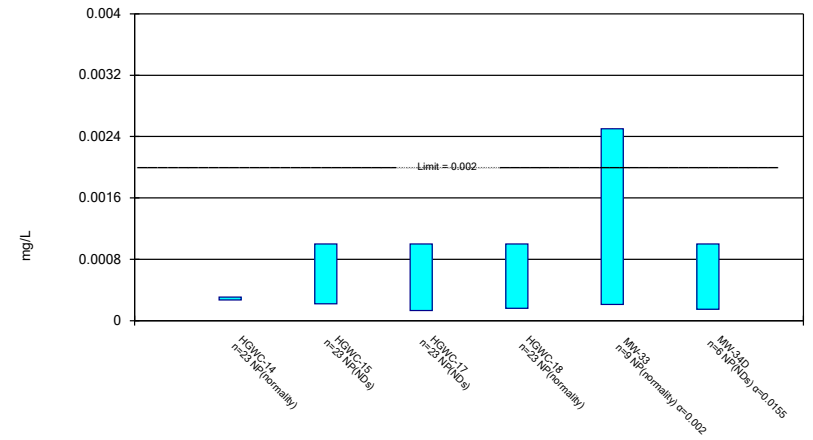
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 5/22/2023 3:59 PM View: Appendix IV - Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-2

Non-Parametric Confidence Interval

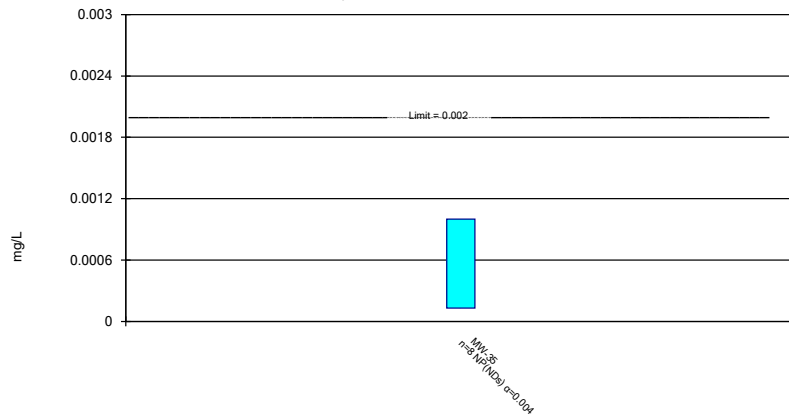
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Thallium Analysis Run 5/22/2023 3:59 PM View: Appendix IV - Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-2

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



Constituent: Thallium Analysis Run 5/22/2023 3:59 PM View: Appendix IV - Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-2

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 5/22/2023 4:01 PM View: Appendix IV - Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-14	HGWC-15	HGWC-18	MW-22	MW-33	MW-34D
5/23/2016	<0.003	<0.003				
5/24/2016			<0.003			
7/12/2016	0.0003 (J)	<0.003	<0.003			
9/1/2016	<0.003	<0.003	<0.003			
10/24/2016	<0.003	<0.003				
10/25/2016			<0.003			
12/7/2016	<0.003	<0.003				
12/8/2016			<0.003			
1/26/2017	<0.003	<0.003	<0.003			
3/23/2017	<0.003	<0.003	<0.003			
5/24/2017	<0.003	<0.003				
5/25/2017			<0.003			
4/3/2018		<0.003	<0.003			
4/4/2018	<0.003					
3/14/2019	<0.003	<0.003	<0.003			
3/15/2019				<0.003		
3/2/2020				<0.003		
3/3/2020	<0.003	<0.003	<0.003			
2/11/2021	0.00043 (J)		<0.003			
2/12/2021		<0.003			0.00046 (J)	
2/15/2021				<0.003		
3/16/2021		<0.003				
3/17/2021	<0.003			<0.003		
3/18/2021			<0.003		<0.003	
8/16/2021						<0.003
8/18/2021	<0.003				<0.003	
8/19/2021		<0.003	0.0008 (J)	0.0016 (J)		
2/8/2022		0.002 (J)	<0.003	<0.003	<0.003	
2/9/2022	<0.003					<0.003
8/10/2022			<0.003		<0.003	<0.003
8/11/2022	0.001 (J)	0.0016 (J)		<0.003		
1/27/2023					<0.003	
1/30/2023				<0.003		0.0018 (J)
2/1/2023	<0.003	0.0021 (J)	<0.003			
Mean	0.002572	0.002806	0.002871	0.002825	0.002577	0.0027
Std. Dev.	0.0009613	0.0004423	0.0005336	0.000495	0.001037	0.0006
Upper Lim.	0.003	0.003	0.003	0.003	0.003	0.003
Lower Lim.	0.001	0.0021	0.0008	0.0016	0.00046	0.0018

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 5/22/2023 4:01 PM View: Appendix IV - Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-2

	MW-35	MW-37D
2/11/2021		0.00079 (J)
2/15/2021	0.00041 (J)	
3/12/2021		<0.003
3/19/2021	<0.003	
8/18/2021	<0.003	<0.003
2/8/2022	0.0029 (J)	<0.003
8/10/2022		<0.003
8/11/2022	<0.003	
1/30/2023		<0.003
2/1/2023	<0.003	
Mean	0.002552	0.002632
Std. Dev.	0.00105	0.0009022
Upper Lim.	0.003	0.003
Lower Lim.	0.00041	0.00079

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 5/22/2023 4:01 PM View: Appendix IV - Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-14	HGWC-15	HGWC-16	HGWC-17	HGWC-18	MW-21D
5/23/2016	0.00268 (J)	<0.005	<0.005	<0.005		
5/24/2016					0.00294 (J)	
7/12/2016	0.0059	<0.005	<0.005	<0.005	0.0074	
9/1/2016	0.0056	<0.005	<0.005	<0.005	0.0073	
10/24/2016	0.0058	<0.005				
10/25/2016			<0.005	<0.005	0.006	
12/7/2016	<0.025	<0.005	<0.005	<0.005		
12/8/2016					0.007	
1/26/2017	0.0089	<0.005	<0.005	<0.005	0.0068	
3/22/2017			0.0005 (J)	0.0007 (J)		
3/23/2017	0.0069	0.0008 (J)			0.0082	
5/24/2017	0.0048 (J)	<0.005	<0.005			
5/25/2017				0.0007 (J)	0.006	
4/3/2018		<0.005	<0.005	<0.005	0.0062	
4/4/2018	0.0052					
6/5/2018					0.008	
6/6/2018	0.0059	<0.005	<0.005	0.00097 (J)		
10/3/2018	0.0032 (J)	<0.005	<0.005	<0.005	0.0039 (J)	
3/14/2019	0.0029 (J)	<0.005			0.0036 (J)	
3/15/2019			<0.005	<0.005		<0.005
4/4/2019		0.00017 (J)	0.0001 (J)			0.00019 (J)
4/5/2019	<0.025			<0.005	0.0015 (J)	
9/24/2019	0.0039 (J)	0.00037 (J)				
9/25/2019			<0.005	<0.005	0.0044 (J)	<0.005
3/3/2020	0.0035 (J)	<0.005	<0.005	<0.005	0.0057	<0.005
3/26/2020		<0.005				
3/30/2020	0.0051		0.0011 (J)			
3/31/2020				0.0008 (J)	0.0056	
4/1/2020						0.0013 (J)
6/17/2020						<0.005
9/15/2020					0.0074	
9/16/2020				<0.005		
9/17/2020		<0.005	<0.005			
9/18/2020	0.0029 (J)					
9/21/2020						<0.005
2/10/2021			0.0012 (J)			
2/11/2021	0.0062			0.0012 (J)	0.0069 (B)	0.001 (J)
2/12/2021		<0.005				
3/16/2021		<0.005				
3/17/2021	<0.025		<0.005			
3/18/2021				<0.005	0.0083 (J)	<0.005
8/18/2021	0.0035 (J)			<0.005		
8/19/2021		<0.005	<0.005		0.0045 (J)	<0.005
2/8/2022		<0.005	<0.005	0.0017 (J)	0.005 (J)	<0.005
2/9/2022	0.0077					
8/10/2022			<0.005	<0.005	0.0058	
8/11/2022	0.006	<0.005				0.003 (J)
1/27/2023						<0.005
1/30/2023				0.0028 (J)		
2/1/2023	0.004 (J)	<0.005	<0.005		0.0036 (J)	
Mean	0.006003	0.004406	0.004257	0.003864	0.005741	0.003884
Std. Dev.	0.003023	0.001571	0.001668	0.001801	0.001813	0.00184

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 5/22/2023 4:01 PM View: Appendix IV - Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-14	HGWC-15	HGWC-16	HGWC-17	HGWC-18	MW-21D
Upper Lim.	0.007215	0.005	0.005	0.005	0.006689	0.005
Lower Lim.	0.004338	0.0008	0.0012	0.0017	0.004793	0.001

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 5/22/2023 4:01 PM View: Appendix IV - Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-2

	MW-22	MW-23D	MW-33	MW-34D	MW-35	MW-37D
3/14/2019		<0.005				
3/15/2019	<0.005					
4/5/2019	<0.005	<0.005				
9/26/2019		<0.005				
9/27/2019	0.00045 (J)					
3/2/2020	<0.005	<0.005				
3/27/2020	<0.005					
4/1/2020		0.00082 (J)	0.0061			
6/17/2020			0.0031 (J)			
6/18/2020				0.0032 (J)	0.005 (J)	0.0021 (J)
9/17/2020	<0.005	<0.005				
9/21/2020			0.0083		0.0059	
9/23/2020				0.001 (J)		0.00095 (J)
2/11/2021						0.0023 (J)
2/12/2021		0.001 (J)	0.0059			
2/15/2021	<0.005				0.005	
3/12/2021						<0.005
3/17/2021	<0.005	<0.005				
3/18/2021			0.0054 (J)			
3/19/2021					<0.025	
8/16/2021				0.0024 (J)		
8/18/2021			0.0058		0.0043 (J)	<0.005
8/19/2021	<0.005	<0.005				
2/8/2022	<0.005		0.0069		0.0072	<0.005
2/9/2022				0.0054		
2/10/2022		<0.005				
8/10/2022			<0.025	0.0045 (J)		<0.005
8/11/2022	<0.005	<0.005			<0.025	
1/27/2023			0.0031 (J)			
1/30/2023	<0.005			0.0047 (J)		<0.005
2/1/2023		<0.005			0.006	
Mean	0.004621	0.004318	0.006344	0.003533	0.01043	0.003794
Std. Dev.	0.001313	0.001592	0.00284	0.001649	0.009037	0.00171
Upper Lim.	0.005	0.005	0.009086	0.005798	0.025	0.005
Lower Lim.	0.00045	0.001	0.003603	0.001268	0.0043	0.00095

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 5/22/2023 4:01 PM View: Appendix IV - Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-14	HGWC-15	HGWC-16	HGWC-17	HGWC-18	MW-21D
5/23/2016	<0.25	0.0315 (J)	0.0841	0.0222 (J)		
5/24/2016					<0.2	
7/12/2016	0.0214	0.0372	0.0886	0.0221	0.0346	
9/1/2016	0.0208	0.0364	0.0934	0.0227	0.0336	
10/24/2016	0.0208	0.0326				
10/25/2016			0.0991	0.0225	0.0349	
12/7/2016	0.022	0.0301	0.101	0.0227		
12/8/2016					0.0339	
1/26/2017	0.0238	0.0287	0.105	0.0229	0.0293	
3/22/2017			0.11	0.0248		
3/23/2017	0.0244	0.0329			0.0313	
5/24/2017	0.0228	0.0283	0.106			
5/25/2017				0.0255	0.0336	
4/3/2018		0.019	0.099	0.025	0.028	
4/4/2018	0.021					
6/5/2018					0.03	
6/6/2018	0.022	0.022	0.11	0.028		
10/3/2018	0.02	0.025	0.11	0.028	0.032	
3/14/2019	0.019	0.021			0.029	
3/15/2019			0.13	0.029		0.09
4/4/2019		0.018	0.11			0.075
4/5/2019	0.016			0.022	0.021	
9/24/2019	0.021	0.019				
9/25/2019			0.11	0.025	0.03	0.066
3/3/2020	0.018	0.018	0.12	0.026	0.026	0.058
3/26/2020		0.016				
3/30/2020	0.02		0.11			
3/31/2020				0.029	0.029	
4/1/2020						0.066
6/17/2020						0.054
9/15/2020					0.03	
9/16/2020				0.025		
9/17/2020		0.017	0.11			
9/18/2020	0.019					
9/21/2020						0.049
2/10/2021			0.11			
2/11/2021	0.02			0.025	0.03	0.044
2/12/2021		0.014				
3/16/2021		0.012				
3/17/2021	0.023		0.12			
3/18/2021				0.027	0.031	0.047
8/18/2021	0.018			0.022		
8/19/2021		0.01	0.1		0.031	0.042
2/8/2022		0.0098	0.1	0.021	0.02	0.033
2/9/2022	0.017					
8/10/2022			0.1	0.027	0.026	
8/11/2022	0.017	0.015				0.037
1/27/2023						0.031
1/30/2023				0.03		
2/1/2023	0.017	0.021	0.11		0.019	
Mean	0.02474	0.02237	0.1059	0.02497	0.03231	0.05323
Std. Dev.	0.02198	0.008352	0.01019	0.002661	0.01539	0.01735

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 5/22/2023 4:01 PM View: Appendix IV - Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-14	HGWC-15	HGWC-16	HGWC-17	HGWC-18	MW-21D
Upper Lim.	0.022	0.02674	0.1113	0.02637	0.0336	0.06613
Lower Lim.	0.018	0.018	0.1006	0.02358	0.028	0.04033

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 5/22/2023 4:01 PM View: Appendix IV - Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-2

	MW-22	MW-23D	MW-33	MW-34D	MW-35	MW-37D
3/14/2019		0.082				
3/15/2019	0.044					
4/5/2019	0.036	0.061				
9/26/2019		0.064				
9/27/2019	0.028					
3/2/2020	0.027	0.06				
3/27/2020	0.025					
4/1/2020		0.065	0.027			
6/17/2020			0.024			
6/18/2020				0.044	0.029	0.19
9/17/2020	0.02	0.057				
9/21/2020			0.024		0.028	
9/23/2020				0.038		0.14
2/11/2021						0.14
2/12/2021		0.056	0.025			
2/15/2021	0.017				0.026	
3/12/2021						0.12
3/17/2021	0.018	0.058				
3/18/2021			0.029			
3/19/2021					0.032	
8/16/2021				0.035		
8/18/2021			0.025		0.025	0.12
8/19/2021	0.018	0.05				
2/8/2022	0.014		0.02		0.023	0.11
2/9/2022				0.04		
2/10/2022		0.05				
8/10/2022			0.02 (J)	0.046		0.11
8/11/2022	0.014	0.05			0.022 (J)	
1/27/2023			0.018			
1/30/2023	0.014			0.04		0.13
2/1/2023		0.047			0.022	
Mean	0.02292	0.05833	0.02356	0.0405	0.02588	0.1325
Std. Dev.	0.009501	0.00949	0.003575	0.003987	0.003603	0.02605
Upper Lim.	0.03037	0.06578	0.02701	0.04598	0.02969	0.1578
Lower Lim.	0.01546	0.05089	0.0201	0.03502	0.02206	0.108

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 5/22/2023 4:01 PM View: Appendix IV - Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-2

	MW-51
8/18/2021	0.032
2/8/2022	0.046
8/11/2022	0.028
2/1/2023	0.033
Mean	0.03475
Std. Dev.	0.007805
Upper Lim.	0.05247
Lower Lim.	0.01703

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 5/22/2023 4:01 PM View: Appendix IV - Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-14	HGWC-17	HGWC-18	MW-22	MW-33	MW-34D
5/23/2016	<0.003	<0.0005				
5/24/2016			0.00278 (J)			
7/12/2016	0.0005 (J)	<0.0005	0.0032			
9/1/2016	0.0005 (J)	<0.0005	0.0034			
10/24/2016	0.0005 (J)					
10/25/2016		<0.0005	0.0034			
12/7/2016	0.0006 (J)	<0.0005				
12/8/2016			0.0033			
1/26/2017	0.0005 (J)	<0.0005	0.0034			
3/22/2017		<0.0005				
3/23/2017	0.0006 (J)		0.0036			
5/24/2017	0.0005 (J)					
5/25/2017		<0.0005	0.0036			
4/3/2018		<0.0005	<0.003			
4/4/2018	<0.003					
3/14/2019	0.00043 (J)		0.0026 (J)			
3/15/2019		<0.0005		<0.0005		
4/5/2019	0.00027 (J)	<0.0005	0.0022 (J)	<0.0005		
9/24/2019	0.00044 (J)					
9/25/2019		<0.0005	0.0031			
9/27/2019				<0.0005		
3/2/2020				<0.0005		
3/3/2020	0.00043 (J)	<0.0005	0.0029 (J)			
3/27/2020				<0.0005		
3/30/2020	0.00043 (J)					
3/31/2020		<0.0005	0.003			
4/1/2020				0.0011 (J)		
6/17/2020				0.00099 (J)		
6/18/2020						0.00015 (J)
9/15/2020			0.0033			
9/16/2020		<0.0005				
9/17/2020				4.7E-05 (J)		
9/18/2020	0.00043 (J)					
9/21/2020				0.0009 (J)		
9/23/2020						<0.0005
2/11/2021	0.00044 (J)	6.7E-05 (J)	0.0036			
2/12/2021					0.001 (J)	
2/15/2021				6.2E-05 (J)		
3/17/2021	0.00058			8.2E-05 (J)		
3/18/2021		4.8E-05 (J)	0.0038		0.0011	
8/16/2021						<0.0005
8/18/2021	0.00039 (J)	<0.0005			0.00097	
8/19/2021			0.0034	7E-05 (J)		
2/8/2022		<0.0005	0.0026	7.9E-05 (J)	0.00087 (J)	
2/9/2022	0.00056					6.5E-05 (J)
8/10/2022		6E-05 (J)	0.0032		0.0008	<0.0005
8/11/2022	0.00039 (J)			<0.0005		
1/27/2023					0.00019 (J)	
1/30/2023		5.7E-05 (J)		8.1E-05 (J)		<0.0005
2/1/2023	0.00039 (J)		0.002			
Mean	0.0005657	0.0004158	0.003042	0.0002851	0.00088	0.0003692
Std. Dev.	0.0003206	0.0001779	0.0005857	0.0002247	0.0002771	0.0002045

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 5/22/2023 4:01 PM View: Appendix IV - Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-14	HGWC-17	HGWC-18	MW-22	MW-33	MW-34D
Upper Lim.	0.00058	0.0005	0.003365	0.0005	0.00109	0.0005
Lower Lim.	0.00043	6.7E-05	0.002719	6.2E-05	0.0007052	6.5E-05

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 5/22/2023 4:01 PM View: Appendix IV - Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-2

	MW-35	MW-37D
6/18/2020	0.00032 (J)	0.00012 (J)
9/21/2020	0.0004 (J)	
9/23/2020		<0.0005
2/11/2021		<0.0005
2/15/2021	0.0006 (J)	
3/12/2021		<0.0005
3/19/2021	0.00061	
8/18/2021	0.00061	<0.0005
2/8/2022	0.0007 (J)	<0.0005
8/10/2022		<0.0005
8/11/2022	0.00066 (J)	
1/30/2023		<0.0005
2/1/2023	0.00049 (J)	
Mean	0.0005488	0.0004525
Std. Dev.	0.0001327	0.0001344
Upper Lim.	0.0006894	0.0005
Lower Lim.	0.0004081	0.00012

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 5/22/2023 4:01 PM View: Appendix IV - Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-14	HGWC-15	HGWC-17	HGWC-18	MW-22	MW-23D
5/23/2016	0.000139 (J)	0.00271 (J)	<0.0005			
5/24/2016				<0.02		
7/12/2016	<0.0005	0.0019	<0.0005	0.0022		
9/1/2016	0.0001 (J)	0.0017	<0.0005	0.0024		
10/24/2016	0.0002 (J)	0.0018				
10/25/2016			<0.0005	0.0022		
12/7/2016	0.0001 (J)	0.0018	<0.0005			
12/8/2016				0.0024		
1/26/2017	0.0001 (J)	0.0013	<0.0005	0.0025		
3/22/2017			7E-05 (J)			
3/23/2017	0.0002 (J)	0.002		0.0025		
5/24/2017	0.0001 (J)	0.0041				
5/25/2017			<0.0005	0.0027		
4/3/2018		0.0022	<0.0005	0.0022		
4/4/2018	<0.0005					
6/5/2018				0.0022		
6/6/2018	0.00012 (J)	0.0021	<0.0005			
10/3/2018	0.0001 (J)	0.0026	<0.0005	0.0027		
3/14/2019	<0.0005	0.0024		0.0019		<0.0025
3/15/2019			<0.0005		0.00082 (J)	
4/4/2019		0.0018				
4/5/2019	7.9E-05 (J)		<0.0005	0.0017	0.00064 (J)	<0.0025
9/24/2019	<0.0005	0.0014 (J)				
9/25/2019			<0.0005	0.0023 (J)		
9/26/2019						<0.0025
9/27/2019					0.0014 (J)	
3/2/2020					0.0021 (J)	<0.0025
3/3/2020	<0.0005	0.0015 (J)	<0.0005	0.0021 (J)		
3/26/2020		0.0016 (J)				
3/27/2020					0.0019 (J)	
3/30/2020	<0.0005					
3/31/2020			<0.0005	0.0017 (J)		
4/1/2020						<0.0025
9/15/2020				0.0019 (J)		
9/16/2020			<0.0005			
9/17/2020		0.0016 (J)			0.0021 (J)	0.0006 (J)
9/18/2020	<0.0005					
2/11/2021	<0.0005		<0.0005	0.0016 (J)		
2/12/2021		0.0014 (J)				0.00045 (J)
2/15/2021					0.002 (J)	
3/16/2021		0.0011				
3/17/2021	<0.0005				0.0022	0.00057
3/18/2021			<0.0005	0.0015		
8/18/2021	0.00013 (J)		<0.0005			
8/19/2021		0.0012		0.0014	0.0021	0.00012 (J)
2/8/2022		0.0011	<0.0005	0.00076	0.002	
2/9/2022	<0.0005					
2/10/2022						0.00024 (J)
8/10/2022			<0.0005	0.0017		
8/11/2022	<0.0005	0.00095			0.002	0.00021 (J)
1/30/2023			<0.0005		0.0017	
2/1/2023	<0.0005	0.00088		0.001		0.00012 (J)

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 5/22/2023 4:01 PM View: Appendix IV - Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-14	HGWC-15	HGWC-17	HGWC-18	MW-22	MW-23D
Mean	0.0003203	0.001789	0.0004813	0.002329	0.001747	0.001234
Std. Dev.	0.0001938	0.0007095	8.966E-05	0.001747	0.0005224	0.001128
Upper Lim.	0.0005	0.00216	0.0005	0.0024	0.0021	0.0025
Lower Lim.	0.00012	0.001418	7E-05	0.0016	0.001547	0.00012

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 5/22/2023 4:01 PM View: Appendix IV - Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-2

	MW-33	MW-34D	MW-35
4/1/2020	0.00022 (J)		
6/17/2020	0.00021 (J)		
6/18/2020		<0.0025	0.00053 (J)
9/21/2020	0.00016 (J)		0.001 (J)
9/23/2020		<0.0025	
2/12/2021	0.00017 (J)		
2/15/2021			0.0017 (J)
3/18/2021	0.00019 (J)		
3/19/2021			0.0018
8/16/2021		0.00023 (J)	
8/18/2021	0.00017 (J)		0.0015
2/8/2022	0.00013 (J)		0.0015
2/9/2022		0.00072	
8/10/2022	<0.0025	0.00041 (J)	
8/11/2022			0.0013 (J)
1/27/2023	0.00017 (J)		
1/30/2023		0.00047 (J)	
2/1/2023			0.0017
Mean	0.0002967	0.001138	0.001379
Std. Dev.	0.0003585	0.001066	0.0004282
Upper Lim.	0.00125	0.0007197	0.001833
Lower Lim.	0.00013	0.0002366	0.0009249

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 5/22/2023 4:01 PM View: Appendix IV - Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-14	HGWC-15	HGWC-16	HGWC-17	HGWC-18	MW-21D
5/23/2016	<0.025	<0.025	<0.025	<0.005		
5/24/2016					<0.025	
7/12/2016	<0.025	<0.025	<0.025	<0.005	<0.025	
9/1/2016	<0.025	<0.025	<0.025	<0.005	<0.025	
10/24/2016	<0.025	<0.025				
10/25/2016			<0.025	<0.005	<0.025	
12/7/2016	<0.025	<0.025	<0.025	<0.005		
12/8/2016					<0.025	
1/26/2017	<0.025	<0.025	<0.025	<0.005	<0.025	
3/22/2017			0.0021 (J)	<0.005		
3/23/2017	<0.025	0.0005 (J)			0.0005 (J)	
5/24/2017	<0.025	<0.025	<0.025			
5/25/2017				<0.005	<0.025	
4/3/2018		<0.025	<0.025	<0.005	<0.025	
4/4/2018	<0.025					
3/14/2019	<0.025	<0.025			<0.025	
3/15/2019			<0.025	<0.005		<0.005
4/4/2019		<0.025	<0.025			<0.005
4/5/2019	<0.025			<0.005	<0.025	
9/24/2019	<0.025	0.00041 (J)				
9/25/2019			<0.025	<0.005	<0.025	<0.005
3/3/2020	0.00042 (J)	<0.025	0.00071 (J)	0.0018 (J)	0.0004 (J)	<0.005
3/26/2020		<0.025				
3/30/2020	0.00066 (J)		0.0004 (J)			
3/31/2020				<0.005	<0.025	
4/1/2020						<0.005
6/17/2020						0.00057 (J)
9/15/2020					0.00063 (J)	
9/16/2020				<0.005		
9/17/2020		<0.025	<0.025			
9/18/2020	<0.025					
9/21/2020						<0.005
2/10/2021			<0.025			
2/11/2021	<0.025			0.00074 (J)	<0.025	<0.005
2/12/2021		<0.025				
3/16/2021		0.0012 (J)				
3/17/2021	<0.025		<0.025			
3/18/2021				0.00069 (J)	<0.025	0.00074 (J)
8/18/2021	<0.025			<0.005		
8/19/2021		<0.025	<0.025		<0.025	<0.005
2/8/2022		<0.025	<0.025	<0.005	<0.025	<0.005
2/9/2022	<0.025					
8/10/2022			<0.025	<0.005	<0.025	
8/11/2022	<0.025	<0.025				<0.005
1/27/2023						<0.005
1/30/2023				<0.005		
2/1/2023	<0.025	<0.025	<0.025		<0.025	
Mean	0.02267	0.02153	0.02158	0.00444	0.0215	0.004332
Std. Dev.	0.007357	0.008713	0.008585	0.001421	0.008781	0.001632
Upper Lim.	0.025	0.025	0.025	0.005	0.025	0.005
Lower Lim.	0.00066	0.0012	0.0021	0.0018	0.00063	0.00074

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 5/22/2023 4:01 PM View: Appendix IV - Confidence Intervals
 Plant Hammond Client: Southern Company Data: Hammond AP-2

	MW-22	MW-23D	MW-33	MW-34D	MW-35	MW-37D
3/14/2019		<0.025				
3/15/2019	<0.005					
4/5/2019	<0.005	<0.025				
9/26/2019		<0.025				
9/27/2019	0.0004 (J)					
3/2/2020	<0.005	<0.025				
3/27/2020	<0.005					
4/1/2020		0.00086 (J)	0.00069 (J)			
6/17/2020			<0.005			
6/18/2020				0.0059 (J)	<0.025	0.0048 (J)
9/17/2020	<0.005	<0.025				
9/21/2020			<0.005		0.00079 (J)	
9/23/2020				<0.005		<0.005
2/11/2021						0.0014 (J)
2/12/2021		<0.025	<0.005			
2/15/2021	<0.005				<0.025	
3/12/2021						<0.005
3/17/2021	0.00075 (J)	0.00083 (J)				
3/18/2021			<0.005			
3/19/2021					0.00083 (J)	
8/16/2021				<0.005		
8/18/2021			<0.005		<0.025	<0.005
8/19/2021	<0.005	<0.025				
2/8/2022	<0.005		<0.005		<0.025	<0.005
2/9/2022				<0.005		
2/10/2022		<0.025				
8/10/2022			<0.005	<0.005		<0.005
8/11/2022	<0.005	<0.025			<0.025	
1/27/2023			<0.005			
1/30/2023	<0.005			<0.005		<0.005
2/1/2023		<0.025			<0.025	
Mean	0.004262	0.02097	0.004521	0.00515	0.01895	0.004525
Std. Dev.	0.001724	0.009402	0.001437	0.0003674	0.0112	0.001265
Upper Lim.	0.005	0.025	0.005	0.0059	0.025	0.005
Lower Lim.	0.00075	0.00086	0.00069	0.005	0.00079	0.0014

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 5/22/2023 4:01 PM View: Appendix IV - Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-14	HGWC-15	HGWC-16	HGWC-17	HGWC-18	MW-21D
5/23/2016	<0.25	0.0419 (J)	<0.005	0.0167		
5/24/2016					0.17 (J)	
7/12/2016	0.0232	0.0393	<0.005	0.0148	0.168	
9/1/2016	0.0248	0.045	<0.005	0.0151	0.18	
10/24/2016	0.0253	0.0557				
10/25/2016			<0.005	0.0141	0.188	
12/7/2016	0.0269	0.0536	<0.005	0.0141		
12/8/2016					0.206	
1/26/2017	0.0294	0.055	<0.005	0.0154	0.195	
3/22/2017			<0.005	0.0169		
3/23/2017	0.0311	0.0715			0.223	
5/24/2017	0.0279	0.0446	<0.005			
5/25/2017				0.0154	0.209	
4/3/2018		0.032	<0.005	0.016	0.19	
4/4/2018	0.025					
6/5/2018					0.19	
6/6/2018	0.027	0.032	<0.005	0.018		
10/3/2018	0.023	0.051	<0.005	0.016	0.19	
3/14/2019	0.025	0.038			0.16	
3/15/2019			<0.005	0.017		<0.005
4/4/2019		0.035	0.00028 (J)			0.00034 (J)
4/5/2019	0.021			0.016	0.14	
9/24/2019	0.026	0.022				
9/25/2019			<0.005	0.015	0.18	<0.005
3/3/2020	0.029	0.03	0.00037 (J)	0.016	0.15	<0.005
3/26/2020		0.022				
3/30/2020	0.028		<0.005			
3/31/2020				0.016	0.16	
4/1/2020						<0.005
6/17/2020						<0.005
9/15/2020					0.16	
9/16/2020				0.013		
9/17/2020		0.026	<0.005			
9/18/2020	0.027					
9/21/2020						<0.005
2/10/2021			<0.005			
2/11/2021	0.033			0.012	0.14	<0.005
2/12/2021		0.019				
3/16/2021		0.018				
3/17/2021	0.034		<0.005			
3/18/2021				0.012	0.14	<0.005
8/18/2021	0.033			0.009		
8/19/2021		0.011	<0.005		0.15	<0.005
2/8/2022		0.0081	<0.005	0.0066	0.16	<0.005
2/9/2022	0.038					
8/10/2022			<0.005	0.012	0.16	
8/11/2022	0.037	0.0088				<0.005
1/27/2023						<0.005
1/30/2023				0.011		
2/1/2023	0.035	0.0091	<0.005		0.11	
Mean	0.03281	0.03342	0.004593	0.01427	0.1704	0.004642
Std. Dev.	0.02061	0.01737	0.001347	0.00276	0.02661	0.001292

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 5/22/2023 4:01 PM View: Appendix IV - Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-14	HGWC-15	HGWC-16	HGWC-17	HGWC-18	MW-21D
Upper Lim.	0.033	0.0425	0.005	0.01571	0.1843	0.005
Lower Lim.	0.025	0.02433	0.00037	0.01282	0.1565	0.00034

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 5/22/2023 4:01 PM View: Appendix IV - Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-2

	MW-22	MW-23D	MW-33	MW-34D	MW-35	MW-37D
3/14/2019		0.0013 (J)				
3/15/2019	0.028					
4/5/2019	0.022	0.0012 (J)				
9/26/2019		0.00098 (J)				
9/27/2019	0.035					
1/22/2020			0.052			
3/2/2020	0.043	0.0011 (J)				
3/27/2020	0.025					
4/1/2020		0.0011 (J)	0.058			
6/17/2020			0.053			
6/18/2020				0.011	0.091	0.0015 (J)
9/17/2020	0.029	0.00096 (J)				
9/21/2020			0.047		0.084	
9/23/2020				0.0056		<0.005
2/11/2021						0.00048 (J)
2/12/2021		0.001 (J)	0.055			
2/15/2021	0.038				0.095	
3/12/2021						<0.005
3/17/2021	0.039	0.0011 (J)				
3/18/2021			0.057			
3/19/2021					0.1	
8/16/2021				0.0093		
8/18/2021			0.054		0.085	<0.005
8/19/2021	0.022	0.00089 (J)				
2/8/2022	0.034		0.048		0.09	<0.005
2/9/2022				0.0065		
2/10/2022		0.001 (J)				
8/10/2022			0.046	0.0066		<0.005
8/11/2022	0.015	0.00088 (J)			0.082	
1/27/2023			0.034			
1/30/2023	0.027			0.0071		<0.005
2/1/2023		0.00081 (J)			0.088	
Mean	0.02975	0.001027	0.0504	0.007683	0.08938	0.003997
Std. Dev.	0.008237	0.0001402	0.007074	0.002043	0.005999	0.001876
Upper Lim.	0.03621	0.001137	0.05671	0.01049	0.09573	0.005
Lower Lim.	0.02329	0.0009167	0.04409	0.004877	0.08302	0.00048

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 5/22/2023 4:01 PM View: Appendix IV - Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-2

	MW-51
8/18/2021	0.03
2/8/2022	0.031
8/11/2022	0.027
2/1/2023	0.021 (J)
Mean	0.02725
Std. Dev.	0.0045
Upper Lim.	0.03747
Lower Lim.	0.01703

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/22/2023 4:01 PM View: Appendix IV - Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-14	HGWC-15	HGWC-16	HGWC-17	HGWC-18	MW-21D
5/23/2016	0.568 (U)	0.171 (U)		0.618 (U)		
5/24/2016					1.82	
7/1/2016			0 (U)			
7/12/2016	1.31	0.611 (U)	0.182 (U)	0.867	1.76	
9/1/2016	1.64	0.766 (U)	1.23	0.857 (U)	1.51	
10/24/2016	1.88	0.969				
10/25/2016			1.05 (U)	1.11 (U)	2.69	
12/7/2016	1.35	0.302 (U)	1.11 (U)	0.964 (U)		
12/8/2016					2.21	
1/26/2017	2.1	0.626 (U)	1.29 (U)	0.612 (U)	2.26	
3/22/2017			0.453 (U)	0.437 (U)		
3/23/2017	1.17	0.662 (U)			1.81	
5/24/2017	1 (U)	0.202 (U)	1.05 (U)			
5/25/2017				1.21 (U)	1.63	
4/3/2018		0.384 (U)	0.783 (U)	0.409 (U)	2.53	
4/4/2018	1.72					
6/5/2018					1.91	
6/6/2018	1.31 (U)	1.32 (U)	0.595 (U)	0.772 (U)		
10/3/2018	1.48	0.858 (U)	1.03 (U)	1.08 (U)	2.22	
3/14/2019	1.5	0.462 (U)			1.37 (U)	
3/15/2019			0.591 (U)	0.917 (U)		0.972 (U)
4/4/2019		0.512 (U)	0.96 (U)			0.791 (U)
4/5/2019	1.43 (U)			1.07 (U)	2.22	
9/24/2019	1.17	0.582 (U)				
9/25/2019			0.643 (U)	1.54	2.77	0.751 (U)
3/3/2020	1.84	1.43	1.32 (U)	1.33	2.35	1.94
3/26/2020		0.855 (U)				
3/30/2020	1.08 (U)		0.288 (U)			
3/31/2020				0.591 (U)	2.7	
4/1/2020						0.758 (U)
6/17/2020						0.691 (U)
9/15/2020					1.65	
9/16/2020				0.295 (U)		
9/17/2020		0.395 (U)	1.1 (U)			
9/18/2020	1.8 (U)					
9/21/2020						0.436 (U)
2/10/2021			0.773 (U)			
2/11/2021	0.73 (U)			0.831 (U)	1.11	0.317 (U)
2/12/2021		1.65				
3/16/2021		0.801 (U)				
3/17/2021	1.84		0.228 (U)			
3/18/2021				0.856 (U)	1.63	0.5 (U)
8/18/2021	0.858 (U)			0.548 (U)		
8/19/2021		0.527 (U)	0.668 (U)		1.45	1.17
2/8/2022		0.0242 (U)	0.168 (U)	1 (U)	0.93 (U)	0.463 (U)
2/9/2022	0.346 (U)					
8/11/2022	1.31	0.656 (U)	0.249 (U)	0.361 (U)	1.46	0.691 (U)
1/27/2023						0.256 (U)
1/30/2023				0.5 (U)		
2/1/2023	1.13	0.626 (U)	0.757 (U)		0.871	
Mean	1.329	0.6692	0.7182	0.8163	1.864	0.7489
Std. Dev.	0.4443	0.3947	0.3987	0.3254	0.5525	0.4402

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/22/2023 4:01 PM View: Appendix IV - Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-14	HGWC-15	HGWC-16	HGWC-17	HGWC-18	MW-21D
Upper Lim.	1.561	0.8756	0.9267	0.9865	2.152	1.019
Lower Lim.	1.096	0.4627	0.5097	0.6461	1.575	0.4388

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/22/2023 4:01 PM View: Appendix IV - Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-2

	MW-22	MW-23D	MW-33	MW-34D	MW-35	MW-37D
3/14/2019		0.872 (U)				
3/15/2019	0.977					
4/5/2019	1.06 (U)	0.932 (U)				
9/26/2019		1.25				
9/27/2019	1.44 (U)					
3/2/2020	0.872 (U)	0.964 (U)				
3/27/2020	0.96 (U)					
4/1/2020		0.914 (U)	2.57			
6/17/2020			1.43 (U)			
6/18/2020				1.36	2.02	1.79
9/17/2020	0.0879 (U)	0.32 (U)				
9/21/2020			2.53		3.85	
9/23/2020				0.563 (U)		0.98 (U)
2/11/2021						0.12 (U)
2/12/2021		1.21 (U)	2.26			
2/15/2021	0.215 (U)				1.52	
3/12/2021						0.578 (U)
3/17/2021	0.981 (U)	0.579 (U)				
3/18/2021			0.733 (U)			
3/19/2021					0.524 (U)	
8/16/2021				0.693 (U)		
8/18/2021			1.77		1.67	1.31
8/19/2021	0.689 (U)	0.69 (U)				
2/8/2022	0.0657 (U)		0.967 (U)		1.38	0.345 (U)
2/9/2022				0.297 (U)		
2/10/2022		0.919 (U)				
8/11/2022	0.789 (U)	0.39 (U)	1.52	1.05	1.71	0.505 (U)
1/27/2023			1.44 (U)			
1/30/2023	0.621 (U)			0.689 (U)		0.309 (U)
2/1/2023		0.406 (U)			1.24	
Mean	0.7298	0.7872	1.691	0.7753	1.739	0.7421
Std. Dev.	0.4206	0.3104	0.6528	0.3756	0.9594	0.5723
Upper Lim.	1.06	1.031	2.321	1.291	2.706	1.349
Lower Lim.	0.3998	0.5436	1.061	0.2594	0.832	0.1355

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/22/2023 4:01 PM View: Appendix IV - Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-2

	MW-51
8/18/2021	0.973 (U)
2/8/2022	0.431 (U)
8/11/2022	1.02
2/1/2023	0.82 (U)
Mean	0.811
Std. Dev.	0.2673
Upper Lim.	1.418
Lower Lim.	0.2041

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 5/22/2023 4:01 PM View: Appendix IV - Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-14	HGWC-15	HGWC-16	HGWC-17	HGWC-18	MW-21D
5/23/2016	<0.1	<0.1	0.038 (J)	<0.3		
5/24/2016					<0.3	
7/12/2016	0.2 (J)	0.09 (J)	0.26 (J)	0.09 (J)	0.54	
9/1/2016	0.08 (J)	0.22 (J)	0.42	0.03 (J)	0.49	
10/24/2016	0.04 (J)	0.07 (J)				
10/25/2016			0.25 (J)	0.07 (J)	0.58	
12/7/2016	0.11 (J)	0.23 (J)	0.23 (J)	0.54		
12/8/2016					0.63	
1/26/2017	0.13 (J)	<0.1	0.02 (J)	<0.3	0.71	
3/22/2017			0.3	0.07 (J)		
3/23/2017	0.28 (J)	0.12 (J)			0.57	
5/24/2017	0.32	0.31	0.46			
5/25/2017				0.42	0.54	
10/4/2017	0.52	0.6	<0.1	0.93	0.95	
4/3/2018		<0.1	<0.1	<0.3	0.33	
4/4/2018	<0.1					
6/5/2018					0.66	
6/6/2018	0.25 (J)	0.17 (J)	<0.1	0.23 (J)		
10/3/2018	0.21 (J)	<0.1	<0.1	<0.3	0.32	
3/14/2019	0.24 (J)	<0.1			0.88	
3/15/2019			<0.1	<0.3		<0.1
4/4/2019		0.066 (J)	<0.1			0.1 (J)
4/5/2019	0.66			0.16 (J)	0.37	
9/24/2019	0.053 (J)	0.12 (J)				
9/25/2019			<0.1	0.081 (J)	0.73	<0.1
3/3/2020	<0.1	0.064 (J)	<0.1	<0.3	0.34	<0.1
3/26/2020		<0.1				
3/30/2020	0.092 (J)		0.059 (J)			
3/31/2020				<0.3	0.45	
4/1/2020						<0.1
6/17/2020						<0.1
9/15/2020					0.31	
9/16/2020				0.058 (J)		
9/17/2020		<0.1	<0.1			
9/18/2020	<0.1					
9/21/2020						<0.1
2/10/2021			0.21			
2/11/2021	0.059 (J)			0.058 (J)	0.71	<0.1
2/12/2021		0.053 (J)				
3/16/2021		<0.1				
3/17/2021	0.076 (J)		<0.1			
3/18/2021				0.057 (J)	0.64	<0.1
8/18/2021	<0.1			0.062 (J)		
8/19/2021		<0.1	<0.1		0.31	<0.1
2/8/2022		<0.1	<0.1	0.055 (J)	0.19	<0.1
2/9/2022	0.053 (J)					
8/10/2022			0.054 (J)	0.086 (J)	0.3	
8/11/2022	0.085 (J)	0.097 (J)				0.056 (J)
1/27/2023						0.05 (J)
1/30/2023				0.097 (J)		
2/1/2023	0.094 (J)	0.086 (J)	0.053 (J)		0.21	
Mean	0.1688	0.1373	0.1481	0.2164	0.4963	0.09277

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 5/22/2023 4:01 PM View: Appendix IV - Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-14	HGWC-15	HGWC-16	HGWC-17	HGWC-18	MW-21D
Std. Dev.	0.1523	0.1149	0.1161	0.206	0.2173	0.01769
Upper Lim.	0.1721	0.12	0.1407	0.1743	0.6071	0.1
Lower Lim.	0.07713	0.09	0.04851	0.06167	0.3854	0.056

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 5/22/2023 4:01 PM View: Appendix IV - Confidence Intervals
 Plant Hammond Client: Southern Company Data: Hammond AP-2

	MW-22	MW-23D	MW-33	MW-34D	MW-35	MW-37D
3/14/2019		<0.1				
3/15/2019	<0.1					
4/5/2019	0.13 (J)	0.14 (J)				
9/26/2019		0.16 (J)				
9/27/2019	0.28 (J)					
1/22/2020			0.18 (J)			
3/2/2020	<0.1	<0.1				
3/27/2020	<0.1					
4/1/2020		<0.1	0.15 (J)			
6/17/2020			0.25			
6/18/2020				0.082 (J)	0.053 (J)	0.1
9/17/2020	<0.1	<0.1				
9/21/2020			0.14		<0.1	
9/23/2020				<0.1		0.065 (J)
2/11/2021						0.077 (J)
2/12/2021		<0.1	0.25			
2/15/2021	<0.1				0.093 (J)	
3/12/2021						0.061 (J)
3/17/2021	<0.1	<0.1				
3/18/2021			0.4			
3/19/2021					0.082 (J)	
8/16/2021				0.066 (J)		
8/18/2021			0.16		0.052 (J)	0.05 (J)
8/19/2021	<0.1	<0.1				
2/8/2022	<0.1		0.14		0.065 (J)	0.055 (J)
2/9/2022				0.051 (J)		
2/10/2022		<0.1				
8/10/2022			0.21	0.081 (J)		0.084 (J)
8/11/2022	0.063 (J)	0.06 (J)			0.088 (J)	
1/27/2023			0.087 (J)			
1/30/2023	0.064 (J)			0.089 (J)		0.092 (J)
2/1/2023		0.074 (J)			0.1	
Mean	0.1114	0.1028	0.1967	0.07817	0.07288	0.073
Std. Dev.	0.05592	0.0259	0.08785	0.01734	0.02024	0.01808
Upper Lim.	0.13	0.14	0.2751	0.09254	0.09433	0.09216
Lower Lim.	0.064	0.074	0.1183	0.05506	0.05142	0.05384

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 5/22/2023 4:01 PM View: Appendix IV - Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-14	HGWC-15	HGWC-16	HGWC-17	HGWC-18	MW-21D
5/23/2016	0.00182 (J)	<0.001	<0.001	<0.001		
5/24/2016					0.00154 (J)	
7/12/2016	0.0015 (J)	<0.001	<0.001	<0.001	0.0012 (J)	
9/1/2016	0.0016 (J)	<0.001	<0.001	<0.001	0.0014 (J)	
10/24/2016	0.0016 (J)	<0.001				
10/25/2016			<0.001	<0.001	0.0015 (J)	
12/7/2016	0.0018 (J)	<0.001	<0.001	<0.001		
12/8/2016					0.0017 (J)	
1/26/2017	0.002 (J)	<0.001	0.0001 (J)	<0.001	0.0013 (J)	
3/22/2017			0.0002 (J)	0.0001 (J)		
3/23/2017	0.0019 (J)	0.001 (J)			0.001 (J)	
5/24/2017	0.0016 (J)	0.0001 (J)	0.0001 (J)			
5/25/2017				<0.001	0.0012 (J)	
4/3/2018		<0.001	<0.001	<0.001	<0.001	
4/4/2018	<0.001					
3/14/2019	0.0014 (J)	<0.001			0.0015 (J)	
3/15/2019			<0.001	<0.001		<0.001
4/4/2019		7.2E-05 (J)	0.00016 (J)			<0.001
4/5/2019	0.0012 (J)			7.6E-05 (J)	0.0015 (J)	
9/24/2019	0.0013 (J)	0.0002 (J)				
9/25/2019			<0.001	8.9E-05 (J)	0.0015 (J)	<0.001
3/3/2020	0.0017 (J)	5.3E-05 (J)	0.00016 (J)	0.00013 (J)	0.0013 (J)	4.7E-05 (J)
3/26/2020		<0.001				
3/30/2020	0.0015 (J)		7.3E-05 (J)			
3/31/2020				7.7E-05 (J)	0.0014 (J)	
4/1/2020						4.8E-05 (J)
6/17/2020						<0.001
9/15/2020					0.0014 (J)	
9/16/2020				6.5E-05 (J)		
9/17/2020		<0.001	7.8E-05 (J)			
9/18/2020	0.0012 (J)					
9/21/2020						<0.001
2/10/2021			9.4E-05 (J)			
2/11/2021	0.0015 (J)			0.00018 (J)	0.00098 (J)	0.00066 (J)
2/12/2021		<0.001				
3/16/2021		<0.001				
3/17/2021	0.0019		5.8E-05 (J)			
3/18/2021				8.8E-05 (J)	0.00096 (J)	7.3E-05 (J)
8/18/2021	0.0015			<0.001		
8/19/2021		<0.001	<0.001		0.0013	<0.001
2/8/2022		<0.001	<0.001	<0.001	0.0009 (J)	<0.001
2/9/2022	0.0014					
8/10/2022			<0.001	<0.001	0.0011	
8/11/2022	<0.001	<0.001				<0.001
1/27/2023						<0.001
1/30/2023				<0.001		
2/1/2023	0.0011	<0.001	<0.001		<0.001	
Mean	0.001453	0.0008298	0.0006201	0.0006574	0.001223	0.000756
Std. Dev.	0.0003992	0.0003605	0.0004505	0.0004481	0.0003233	0.0004098
Upper Lim.	0.001674	0.001	0.001	0.001	0.001401	0.001
Lower Lim.	0.001233	0.001	0.0001	8.9E-05	0.001045	4.8E-05

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 5/22/2023 4:01 PM View: Appendix IV - Confidence Intervals
 Plant Hammond Client: Southern Company Data: Hammond AP-2

	MW-22	MW-23D	MW-33	MW-34D	MW-35	MW-37D
3/14/2019		<0.001				
3/15/2019	<0.001					
4/5/2019	<0.001	<0.001				
9/26/2019		<0.001				
9/27/2019	0.0001 (J)					
3/2/2020	9.4E-05 (J)	5.1E-05 (J)				
3/27/2020	<0.001					
4/1/2020		<0.001	0.0017 (J)			
6/17/2020			0.0017 (J)			
6/18/2020				0.00087 (J)	0.00016 (J)	0.0017 (J)
9/17/2020	<0.001	0.00016 (J)				
9/21/2020			0.0017 (J)		0.00099 (J)	
9/23/2020				<0.001		8.2E-05 (J)
2/11/2021						0.00039 (J)
2/12/2021		<0.001	0.0018 (J)			
2/15/2021	3.6E-05 (J)				0.00055 (J)	
3/12/2021						<0.001
3/17/2021	<0.001	<0.001				
3/18/2021			0.0017			
3/19/2021					0.00066 (J)	
8/16/2021				<0.001		
8/18/2021			0.0016		<0.001	<0.001
8/19/2021	<0.001	<0.001				
2/8/2022	<0.001		0.0014		<0.001	<0.001
2/9/2022				<0.001		
2/10/2022		<0.001				
8/10/2022			<0.001	<0.001		<0.001
8/11/2022	<0.001	<0.001			<0.001	
1/27/2023			<0.001			
1/30/2023	<0.001			<0.001		<0.001
2/1/2023		<0.001			<0.001	
Mean	0.0007692	0.0008509	0.001511	0.0009783	0.000795	0.0008965
Std. Dev.	0.0004179	0.000349	0.00031	5.307E-05	0.0003134	0.0004809
Upper Lim.	0.001	0.001	0.001674	0.001	0.001	0.0017
Lower Lim.	9.4E-05	0.00016	0.001032	0.00087	0.00016	8.2E-05

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 5/22/2023 4:01 PM View: Appendix IV - Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-15	HGWC-16	HGWC-17	HGWC-18	MW-21D	MW-22
5/23/2016	<0.03	<0.03	<0.03			
5/24/2016				0.0142 (J)		
7/12/2016	<0.03	0.0037 (J)	<0.03	0.0141 (J)		
9/1/2016	0.0021 (J)	0.0033 (J)	<0.03	0.0158 (J)		
10/24/2016	<0.03					
10/25/2016		0.0029 (J)	<0.03	0.016 (J)		
12/7/2016	<0.03	0.0029 (J)	<0.03			
12/8/2016				0.0144 (J)		
1/26/2017	<0.03	0.0028 (J)	<0.03	0.0136 (J)		
3/22/2017		0.0025 (J)	<0.03			
3/23/2017	0.0016 (J)			0.0151 (J)		
5/24/2017	0.0029 (J)	0.0029 (J)				
5/25/2017			0.0011 (J)	0.0154 (J)		
4/3/2018	0.0026 (J)	0.0028 (J)	<0.03	0.013 (J)		
6/5/2018				0.013 (J)		
6/6/2018	0.0013 (J)	0.0031 (J)	<0.03			
10/3/2018	0.0017 (J)	0.0026 (J)	<0.03	0.015 (J)		
3/14/2019	<0.03			0.011 (J)		
3/15/2019		0.0041 (J)	0.0011 (J)		0.025 (J)	0.002 (J)
4/4/2019	0.0009 (J)	0.0032 (J)			0.019 (J)	
4/5/2019			0.00074 (J)	0.0084 (J)		0.0013 (J)
9/24/2019	0.0012 (J)					
9/25/2019		0.0038 (J)	0.0011 (J)	0.015 (J)	0.024 (J)	
9/27/2019						0.0013 (J)
3/2/2020						0.0015 (J)
3/3/2020	0.0084 (J)	0.0047 (J)	0.0012 (J)	0.012 (J)	0.026 (J)	
3/26/2020	0.0061 (J)					
3/27/2020						0.0013 (J)
3/30/2020		0.0041 (J)				
3/31/2020			0.0009 (J)	0.012 (J)		
4/1/2020					0.026 (J)	
6/17/2020					0.023 (J)	
9/15/2020				0.014 (J)		
9/16/2020			0.0012 (J)			
9/17/2020	0.0094 (J)	0.0043 (J)				0.0011 (J)
9/21/2020					0.022 (J)	
2/10/2021		0.0038 (J)				
2/11/2021			0.0013 (J)	0.011 (J)	0.021 (J)	
2/12/2021	0.036					
2/15/2021						0.0011 (J)
3/16/2021	0.032					
3/17/2021		0.0048 (J)				0.0012 (J)
3/18/2021			0.0014 (J)	0.013 (J)	0.026 (J)	
8/18/2021			0.0012 (J)			
8/19/2021	0.0058 (J)	0.0042 (J)		0.013 (J)	0.022 (J)	0.0012 (J)
2/8/2022	0.014 (J)	0.0034 (J)	0.0014 (J)	0.01 (J)	0.022 (J)	0.0011 (J)
8/11/2022	0.0025 (J)				0.022 (J)	0.0011 (J)
1/27/2023					0.018 (J)	
1/30/2023			0.0014 (J)			0.0011 (J)
2/1/2023	0.016 (J)	0.0036 (J)		0.0093 (J)		
Mean	0.01411	0.004023	0.01427	0.0131	0.02277	0.001275
Std. Dev.	0.01324	0.002541	0.01469	0.002122	0.002587	0.0002598

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 5/22/2023 4:01 PM View: Appendix IV - Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-15	HGWC-16	HGWC-17	HGWC-18	MW-21D	MW-22
Upper Lim.	0.03	0.0042	0.03	0.01424	0.02469	0.0015
Lower Lim.	0.0021	0.0029	0.0012	0.01197	0.02085	0.0011

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 5/22/2023 4:01 PM View: Appendix IV - Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-2

	MW-23D	MW-33	MW-34D	MW-35	MW-37D	MW-51
3/14/2019	0.0028 (J)					
4/5/2019	0.0021 (J)					
9/26/2019	0.0023 (J)					
3/2/2020	0.0025 (J)					
4/1/2020	0.0024 (J)	0.0011 (J)				
6/17/2020		0.00097 (J)				
6/18/2020			0.0021 (J)	0.0046 (J)	0.038 (J)	
9/17/2020	0.0021 (J)					
9/21/2020		0.00086 (J)		0.0036 (J)		
9/23/2020			0.0011 (J)		0.031	
2/11/2021					0.034	
2/12/2021	0.0023 (J)	0.0011 (J)				
2/15/2021				0.0043 (J)		
3/12/2021					0.035	
3/17/2021	0.0024 (J)					
3/18/2021		0.0012 (J)				
3/19/2021				0.0045 (J)		
8/16/2021			0.001 (J)			
8/18/2021		0.00097 (J)		0.0036 (J)	0.03	0.0022 (J)
8/19/2021	0.0022 (J)					
2/8/2022		0.001 (J)		0.0039 (J)	0.029 (J)	0.001 (J)
2/9/2022			0.0022 (J)			
2/10/2022	0.0029 (J)					
8/11/2022	0.002 (J)			<0.03		0.0014 (J)
1/27/2023		<0.03				
1/30/2023			0.0013 (J)		0.021 (J)	
2/1/2023	0.0019 (J)			0.0034 (J)		0.0015 (J)
Mean	0.002325	0.002775	0.00154	0.005362	0.03114	0.001525
Std. Dev.	0.0003019	0.004941	0.0005683	0.00392	0.00546	0.0004992
Upper Lim.	0.002562	0.015	0.002492	0.015	0.03763	0.002658
Lower Lim.	0.002088	0.00086	0.0005877	0.0034	0.02466	0.0003917

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 5/22/2023 4:01 PM View: Appendix IV - Confidence Intervals
 Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-18	MW-22	MW-23D
5/24/2016	<0.0002		
7/12/2016	<0.0002		
9/1/2016	6E-05 (J)		
10/25/2016	4E-05 (J)		
12/8/2016	<0.0002		
1/26/2017	8E-05 (J)		
3/23/2017	9E-05 (J)		
5/25/2017	8E-05 (J)		
4/3/2018	<0.0002		
3/14/2019	<0.0002		<0.0002
3/15/2019		<0.0002	
3/2/2020		<0.0002	<0.0002
3/3/2020	<0.0002		
2/11/2021	<0.0002		
2/12/2021			<0.0002
2/15/2021		<0.0002	
2/8/2022	<0.0002	<0.0002	
2/10/2022			<0.0002
8/11/2022		0.00016 (J)	0.00017 (J)
1/30/2023		<0.0002	
2/1/2023	<0.0002		<0.0002
Mean	0.0001536	0.0001933	0.000195
Std. Dev.	6.559E-05	1.633E-05	1.225E-05
Upper Lim.	0.0002	0.0002	0.0002
Lower Lim.	6E-05	0.00016	0.00017

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 5/22/2023 4:01 PM View: Appendix IV - Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-15	MW-21D	MW-22	MW-23D	MW-37D
5/23/2016	<0.01				
7/12/2016	0.0007 (J)				
9/1/2016	<0.01				
10/24/2016	<0.01				
12/7/2016	<0.01				
1/26/2017	<0.01				
3/23/2017	<0.01				
5/24/2017	<0.01				
4/3/2018	<0.01				
3/14/2019	<0.01			<0.01	
3/15/2019		0.045	<0.01		
4/4/2019	<0.01	0.033			
4/5/2019			0.00013 (J)	0.0014 (J)	
9/24/2019	<0.01				
9/25/2019		0.038			
9/26/2019				0.0025 (J)	
9/27/2019			<0.01		
3/2/2020			<0.01	0.003 (J)	
3/3/2020	<0.01	0.025			
3/26/2020	<0.01				
3/27/2020			<0.01		
4/1/2020		0.024		0.0032 (J)	
6/17/2020		0.019			
6/18/2020					0.023
9/17/2020	<0.01		<0.01	0.0026 (J)	
9/21/2020		0.017			
9/23/2020					0.015
2/11/2021		0.016			0.019
2/12/2021	<0.01			0.0039 (J)	
2/15/2021			<0.01		
3/12/2021					0.014
3/16/2021	<0.01				
3/17/2021			<0.01	0.0034 (J)	
3/18/2021		0.016			
8/18/2021					0.0083 (J)
8/19/2021	<0.01	0.018	<0.01	0.0034 (J)	
2/8/2022	<0.01	0.016	<0.01		0.007 (J)
2/10/2022				0.0034 (J)	
8/11/2022	<0.01	0.023	<0.01	0.0039 (J)	
1/27/2023		0.028			
1/30/2023			<0.01		0.0063 (J)
2/1/2023	<0.01			0.0041 (J)	
Mean	0.009557	0.02446	0.009177	0.003317	0.01323
Std. Dev.	0.002029	0.009288	0.002849	0.0009104	0.006372
Upper Lim.	0.01	0.03062	0.01	0.004031	0.0208
Lower Lim.	0.0007	0.01772	0.00013	0.002602	0.00566

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 5/22/2023 4:01 PM View: Appendix IV - Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-14	HGWC-15	HGWC-16	HGWC-17	HGWC-18	MW-22
5/23/2016	0.017	<0.005	<0.005	<0.005		
5/24/2016					<0.2	
7/12/2016	0.0146	<0.005	<0.005	<0.005	0.036	
9/1/2016	0.0137	<0.005	<0.005	0.0014 (J)	0.0347	
10/24/2016	0.0135	0.0012 (J)				
10/25/2016			<0.005	<0.005	0.0282	
12/7/2016	0.01 (J)	0.0041 (J)	<0.005	0.0023 (J)		
12/8/2016					0.0373	
1/26/2017	0.0214	<0.005	<0.005	<0.005	0.0385	
3/22/2017			<0.005	<0.005		
3/23/2017	0.0167	0.0016 (J)			0.0414	
5/24/2017	0.0083 (J)	<0.005	<0.005			
5/25/2017				<0.005	0.019	
4/3/2018		<0.005	<0.005	<0.005	0.029	
4/4/2018	0.012					
6/5/2018					0.038	
6/6/2018	0.014	<0.005	<0.005	<0.005		
10/3/2018	0.0056 (J)	<0.005	<0.005	<0.005	0.017	
3/14/2019	0.0048 (J)	<0.005			0.016	
3/15/2019			<0.005	<0.005		<0.005
4/4/2019		0.00021 (J)	8.9E-05 (J)			
4/5/2019	0.00091 (J)			9.3E-05 (J)	0.0018 (J)	<0.005
9/24/2019	0.0064 (J)	<0.005				
9/25/2019			<0.005	<0.005	0.02	
9/27/2019						<0.005
3/2/2020						<0.005
3/3/2020	0.0045 (J)	<0.005	<0.005	<0.005	0.014	
3/26/2020		<0.005				
3/27/2020						<0.005
3/30/2020	0.0049 (J)		<0.005			
3/31/2020				<0.005	0.019	
9/15/2020					0.059	
9/16/2020				<0.005		
9/17/2020		<0.005	<0.005			0.002 (J)
9/18/2020	0.0045 (J)					
2/10/2021			<0.005			
2/11/2021	0.0072 (J)			<0.005	0.023	
2/12/2021		<0.005				
2/15/2021						<0.005
3/16/2021		<0.005				
3/17/2021	0.01 (J)		<0.005			<0.005
3/18/2021				<0.005	0.019 (J)	
8/18/2021	0.0077			<0.005		
8/19/2021		<0.005	<0.005		0.01	<0.005
2/8/2022		<0.005	<0.005	<0.005	0.0082	<0.005
2/9/2022	0.0047 (J)					
8/10/2022			<0.005	<0.005	0.0096	
8/11/2022	0.0037 (J)	<0.005				<0.005
1/30/2023				<0.005		<0.005
2/1/2023	0.0036 (J)	<0.005	<0.005		0.0054	
Mean	0.009118	0.00444	0.004786	0.004513	0.02713	0.00475
Std. Dev.	0.005336	0.00139	0.001024	0.001329	0.02106	0.000866

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 5/22/2023 4:01 PM View: Appendix IV - Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-14	HGWC-15	HGWC-16	HGWC-17	HGWC-18	MW-22
Upper Lim.	0.01191	0.005	0.005	0.005	0.03429	0.005
Lower Lim.	0.006327	0.0041	8.9E-05	0.0023	0.0152	0.002

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 5/22/2023 4:01 PM View: Appendix IV - Confidence Intervals
 Plant Hammond Client: Southern Company Data: Hammond AP-2

	MW-33	MW-34D	MW-35	MW-51
4/1/2020	0.011			
6/17/2020	0.014			
6/18/2020		0.0025 (J)	0.014	
9/21/2020	0.041		0.037	
9/23/2020		<0.005		
2/12/2021	0.011			
2/15/2021			0.01	
3/18/2021	0.028			
3/19/2021			0.016 (J)	
8/16/2021		<0.005		
8/18/2021	0.014		0.014	0.004 (J)
2/8/2022	0.0078		0.0083	<0.005
2/9/2022		<0.005		
8/10/2022	0.007 (J)	<0.005		
8/11/2022			0.0089 (J)	0.0023 (J)
1/27/2023	0.015			
1/30/2023		0.0016 (J)		
2/1/2023			0.0063	0.0021 (J)
Mean	0.01653	0.004017	0.01431	0.00335
Std. Dev.	0.01103	0.00155	0.009754	0.001392
Upper Lim.	0.02526	0.005	0.02273	0.004735
Lower Lim.	0.007766	0.0016	0.006433	0.0008646

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 5/22/2023 4:01 PM View: Appendix IV - Confidence Intervals

Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-14	HGWC-15	HGWC-17	HGWC-18	MW-33	MW-34D
5/23/2016	0.000306 (J)	<0.001	<0.001			
5/24/2016				<0.001		
7/12/2016	0.0003 (J)	<0.001	0.0001 (J)	0.0002 (J)		
9/1/2016	0.0003 (J)	<0.001	<0.001	<0.001		
10/24/2016	0.0004	<0.001				
10/25/2016			<0.001	<0.001		
12/7/2016	0.0003 (J)	<0.001	<0.001			
12/8/2016				<0.001		
1/26/2017	0.0003 (J)	<0.001	<0.001	<0.001		
3/22/2017			0.0001 (J)			
3/23/2017	0.0003 (J)	<0.001		0.0002 (J)		
5/24/2017	0.0003 (J)	<0.001				
5/25/2017			0.0001 (J)	0.0002 (J)		
4/3/2018		<0.001	<0.001	0.00014 (J)		
4/4/2018	0.00028 (J)					
6/5/2018				0.00016 (J)		
6/6/2018	0.00029 (J)	<0.001	<0.001			
10/3/2018	0.00029 (J)	<0.001	<0.001	<0.001		
3/14/2019	0.00028 (J)	<0.001		<0.001		
3/15/2019			<0.001			
4/4/2019		<0.001				
4/5/2019	0.00028 (J)		0.00013 (J)	0.00014 (J)		
9/24/2019	0.0003 (J)	<0.001				
9/25/2019			0.00012 (J)	0.00019 (J)		
3/3/2020	0.00026 (J)	<0.001	0.00011 (J)	0.00013 (J)		
3/26/2020		<0.001				
3/30/2020	0.00028 (J)					
3/31/2020			0.00014 (J)	0.00015 (J)		
4/1/2020					0.00029 (J)	
6/17/2020					0.00028 (J)	
6/18/2020						0.00015 (J)
9/15/2020				0.00016 (J)		
9/16/2020			<0.001			
9/17/2020		<0.001				
9/18/2020	0.00028 (J)					
9/21/2020				0.00029 (J)		
9/23/2020						<0.001
2/11/2021	0.00026 (J)		<0.001	<0.001		
2/12/2021		<0.001			0.00025 (J)	
3/16/2021		<0.001				
3/17/2021	0.00034 (J)					
3/18/2021			<0.001	0.00016 (J)	0.00031 (J)	
8/16/2021						<0.001
8/18/2021	0.00027 (J)		<0.001		0.0004 (J)	
8/19/2021		<0.001		0.0002 (J)		
2/8/2022		<0.001	<0.001	<0.001	0.00025 (J)	
2/9/2022	0.00025 (J)					<0.001
8/10/2022			<0.001	<0.001	<0.005	<0.001
8/11/2022	0.00024 (J)	<0.001				
1/27/2023					0.00021 (J)	
1/30/2023			0.00025 (J)			<0.001
2/1/2023	0.00047 (J)	0.00022 (J)		<0.001		

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 5/22/2023 4:01 PM View: Appendix IV - Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-2

	HGWC-14	HGWC-15	HGWC-17	HGWC-18	MW-33	MW-34D
Mean	0.000299	0.0009661	0.0006978	0.0005665	0.0005311	0.0008583
Std. Dev.	4.904E-05	0.0001626	0.000424	0.0004248	0.0007402	0.000347
Upper Lim.	0.000306	0.001	0.001	0.001	0.0025	0.001
Lower Lim.	0.00027	0.00022	0.00013	0.00016	0.00021	0.00015

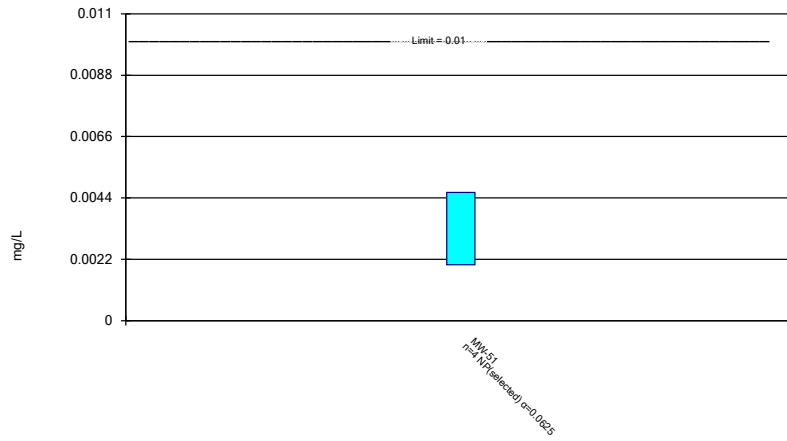
Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 5/22/2023 4:01 PM View: Appendix IV - Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-2

	MW-35
6/18/2020	0.00013 (J)
9/21/2020	<0.001
2/15/2021	<0.001
3/19/2021	<0.001
8/18/2021	<0.001
2/8/2022	<0.001
8/11/2022	<0.001
2/1/2023	<0.001
Mean	0.0008913
Std. Dev.	0.0003076
Upper Lim.	0.001
Lower Lim.	0.00013

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.

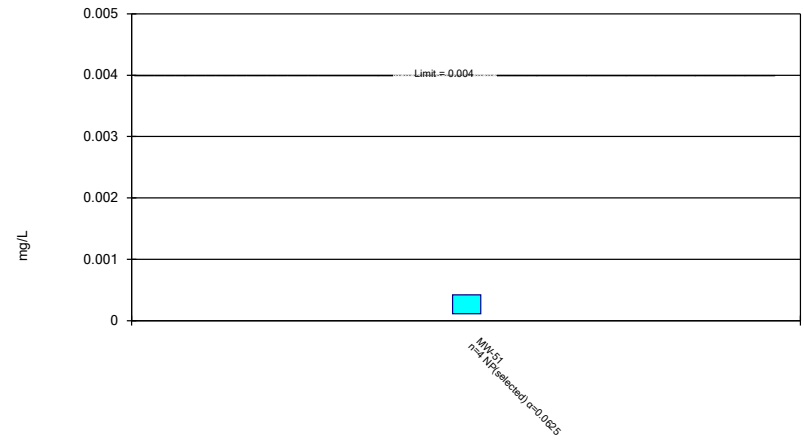


Normality testing disabled.

Constituent: Arsenic Analysis Run 5/22/2023 4:00 PM View: Appendix IV - Nonparametric Confidence Int
Plant Hammond Client: Southern Company Data: Hammond AP-2

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.

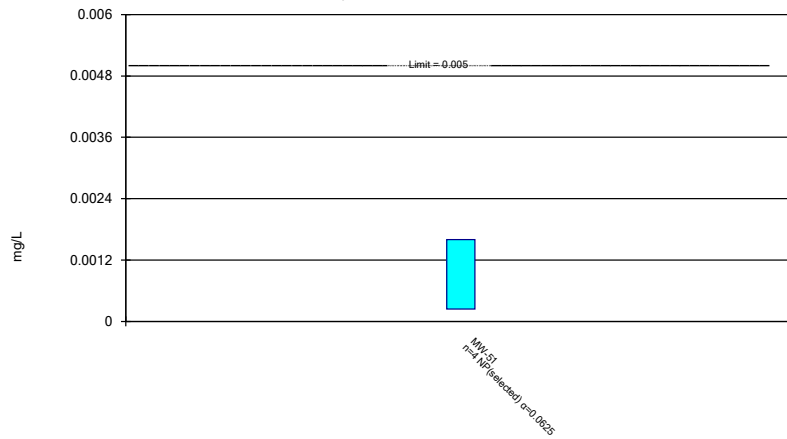


Normality testing disabled.

Constituent: Beryllium Analysis Run 5/22/2023 4:00 PM View: Appendix IV - Nonparametric Confidence In
Plant Hammond Client: Southern Company Data: Hammond AP-2

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.

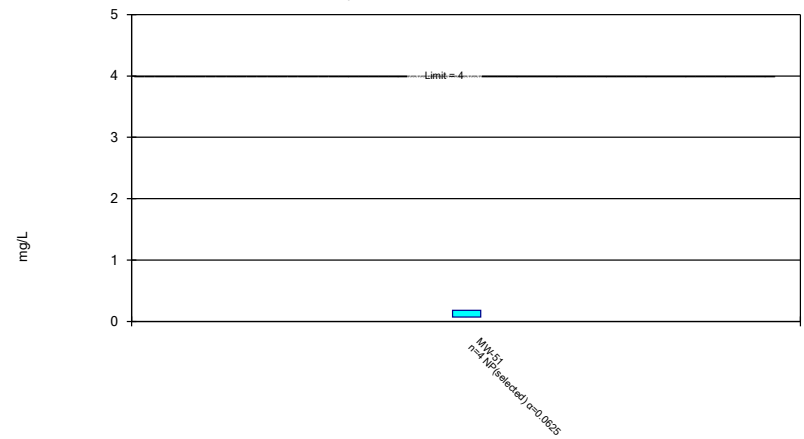


Normality testing disabled.

Constituent: Cadmium Analysis Run 5/22/2023 4:00 PM View: Appendix IV - Nonparametric Confidence In
Plant Hammond Client: Southern Company Data: Hammond AP-2

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.

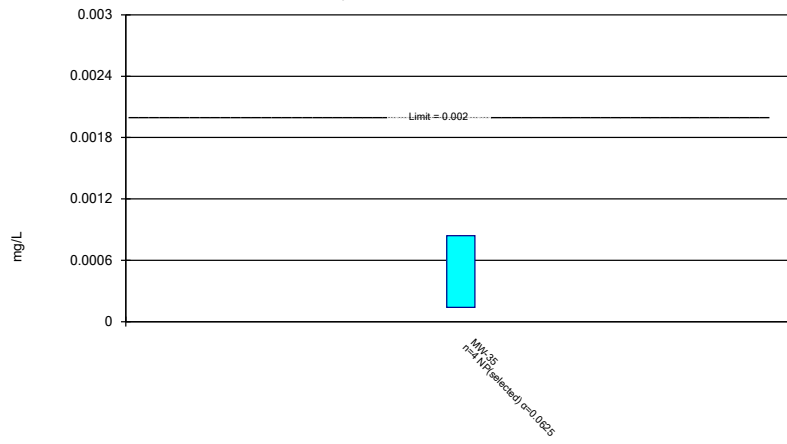


Normality testing disabled.

Constituent: Fluoride Analysis Run 5/22/2023 4:00 PM View: Appendix IV - Nonparametric Confidence Int
Plant Hammond Client: Southern Company Data: Hammond AP-2

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



Normality testing disabled.

Constituent: Mercury Analysis Run 5/22/2023 4:00 PM View: Appendix IV - Nonparametric Confidence Int
Plant Hammond Client: Southern Company Data: Hammond AP-2

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 5/22/2023 4:01 PM View: Appendix IV - Nonparametric Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-2

MW-51

8/18/2021	0.002 (J)
2/8/2022	0.0046 (J)
8/11/2022	0.0043 (J)
2/1/2023	0.0041 (J)
Mean	0.00375
Std. Dev.	0.001185
Upper Lim.	0.0046
Lower Lim.	0.002

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 5/22/2023 4:01 PM View: Appendix IV - Nonparametric Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-2

	MW-51
8/18/2021	0.00042 (J)
2/8/2022	0.00011 (J)
8/11/2022	0.00028 (J)
2/1/2023	0.00028 (J)
Mean	0.0002725
Std. Dev.	0.0001269
Upper Lim.	0.00042
Lower Lim.	0.00011

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 5/22/2023 4:01 PM View: Appendix IV - Nonparametric Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-2

	MW-51
8/18/2021	0.00094
2/8/2022	0.00024 (J)
8/11/2022	0.00045 (J)
2/1/2023	0.0016
Mean	0.0008075
Std. Dev.	0.0006043
Upper Lim.	0.0016
Lower Lim.	0.00024

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 5/22/2023 4:01 PM View: Appendix IV - Nonparametric Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-2

	MW-51
8/18/2021	0.072 (J)
2/8/2022	0.078 (J)
8/11/2022	0.11
2/1/2023	0.18
Mean	0.11
Std. Dev.	0.04956
Upper Lim.	0.18
Lower Lim.	0.072

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 5/22/2023 4:01 PM View: Appendix IV - Nonparametric Confidence Intervals
Plant Hammond Client: Southern Company Data: Hammond AP-2

	MW-35
2/15/2021	<0.0005
2/8/2022	0.00014 (J)
8/11/2022	0.00014 (J)
2/1/2023	0.00084
Mean	0.000405
Std. Dev.	0.000336
Upper Lim.	0.00084
Lower Lim.	0.00014

FIGURE I.

Appendix IV Trend Test - Confidence Interval Exceedances - Significant Results

Plant Hammond Client: Southern Company Data: Hammond AP-2 Printed 5/15/2023, 2:49 PM

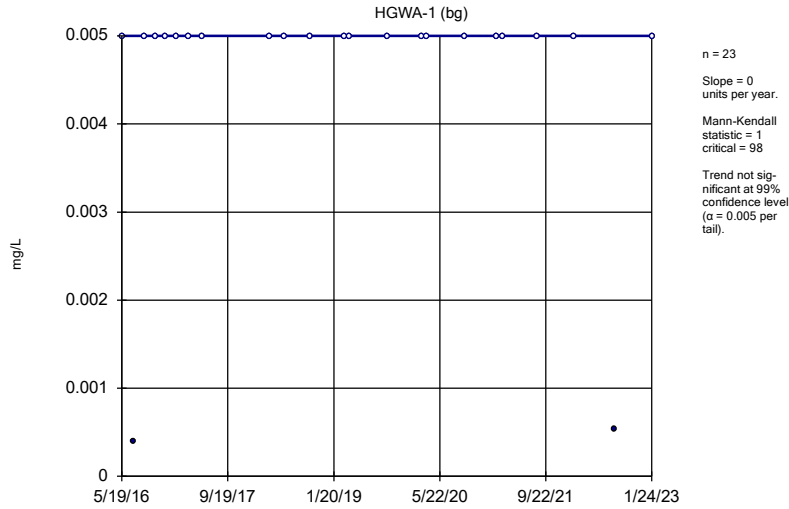
<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Xform</u>	<u>Alpha</u>	<u>Method</u>
Cobalt (mg/L)	HGWA-4 (bg)	-0.00006016	-118	-98	Yes	23	65.22	n/a	n/a	0.01	NP
Cobalt (mg/L)	HGWC-18	-0.008561	-117	-98	Yes	23	0	n/a	n/a	0.01	NP

Appendix IV Trend Test - Confidence Interval Exceedances - All Results

Plant Hammond Client: Southern Company Data: Hammond AP-2 Printed 5/15/2023, 2:49 PM

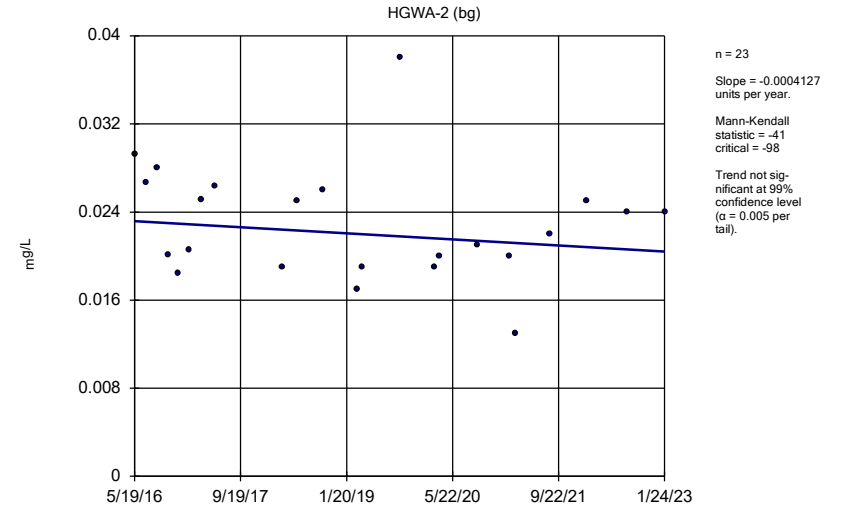
Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Cobalt (mg/L)	HGWA-1 (bg)	0	1	98	No	23	91.3	n/a	n/a	0.01	NP
Cobalt (mg/L)	HGWA-2 (bg)	-0.0004127	-41	-98	No	23	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	HGWA-3 (bg)	0	0	98	No	23	100	n/a	n/a	0.01	NP
Cobalt (mg/L)	HGWA-4 (bg)	-0.00006016	-118	-98	Yes	23	65.22	n/a	n/a	0.01	NP
Cobalt (mg/L)	HGWA-42D (bg)	0	5	30	No	10	90	n/a	n/a	0.01	NP
Cobalt (mg/L)	HGWA-43D (bg)	0	0	30	No	10	100	n/a	n/a	0.01	NP
Cobalt (mg/L)	HGWA-44D (bg)	0	0	30	No	10	100	n/a	n/a	0.01	NP
Cobalt (mg/L)	HGWA-5 (bg)	0	-9	-98	No	23	26.09	n/a	n/a	0.01	NP
Cobalt (mg/L)	HGWA-6 (bg)	0	0	98	No	23	100	n/a	n/a	0.01	NP
Cobalt (mg/L)	HGWC-18	-0.008561	-117	-98	Yes	23	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	MW-33	-0.003989	-19	-30	No	10	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	MW-35	-0.001591	-6	-21	No	8	0	n/a	n/a	0.01	NP

Sen's Slope Estimator



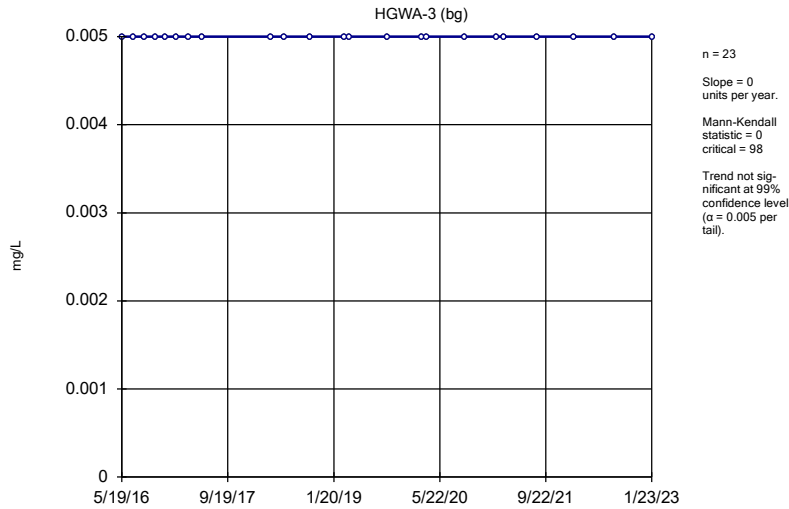
Constituent: Cobalt Analysis Run 5/15/2023 2:47 PM View: A4 Trend Test
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator



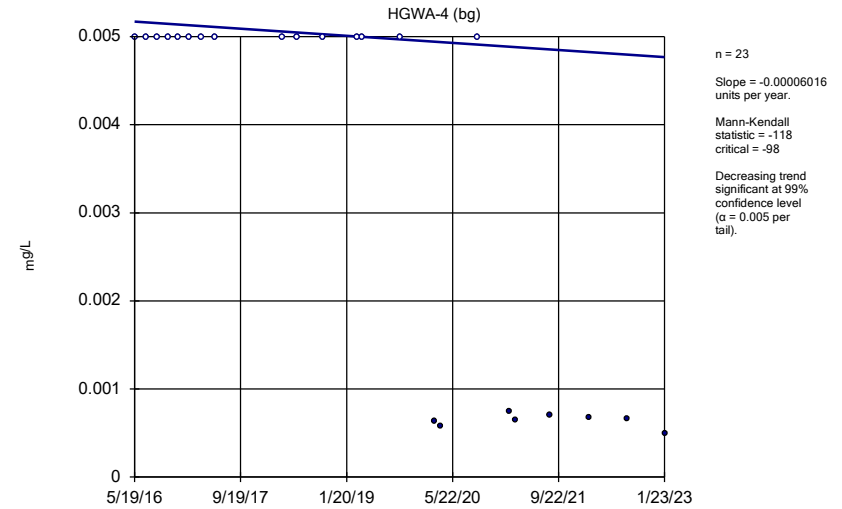
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 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator



Constituent: Cobalt Analysis Run 5/15/2023 2:47 PM View: A4 Trend Test
 Plant Hammond Client: Southern Company Data: Hammond AP-2

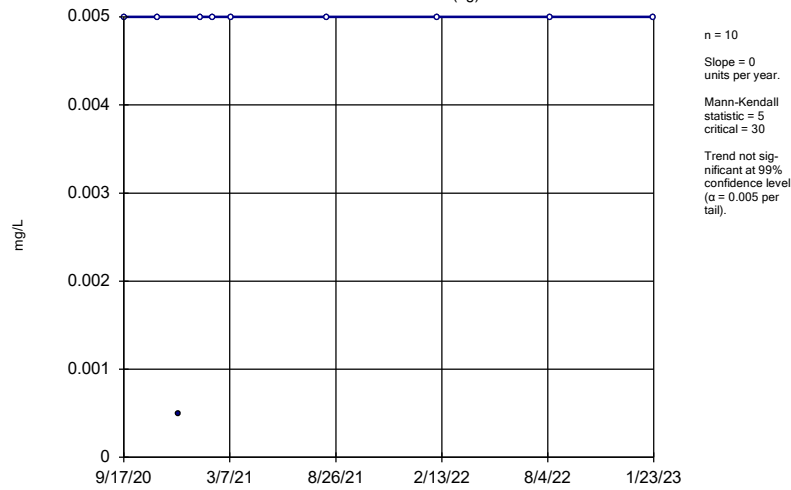
Sen's Slope Estimator



Constituent: Cobalt Analysis Run 5/15/2023 2:47 PM View: A4 Trend Test
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

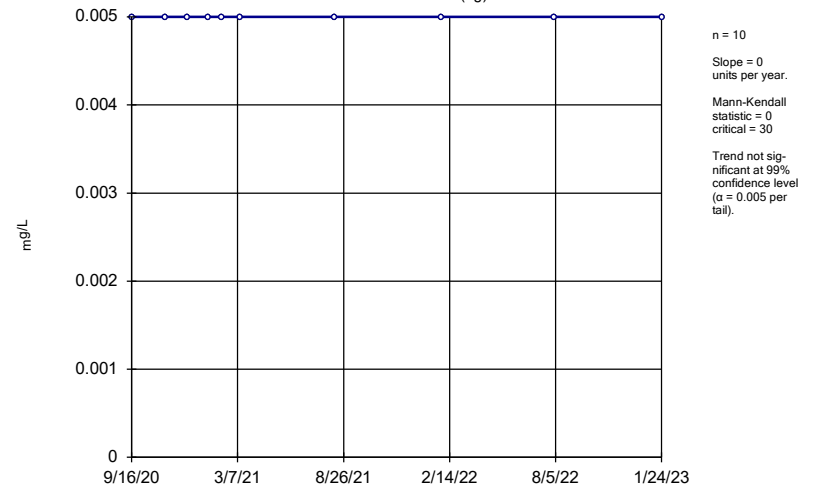
HGWA-42D (bg)



Constituent: Cobalt Analysis Run 5/15/2023 2:47 PM View: A4 Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

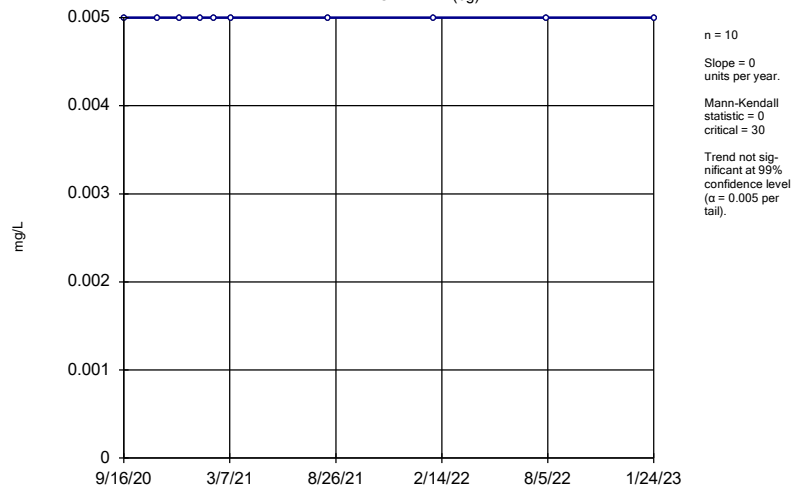
HGWA-43D (bg)



Constituent: Cobalt Analysis Run 5/15/2023 2:47 PM View: A4 Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

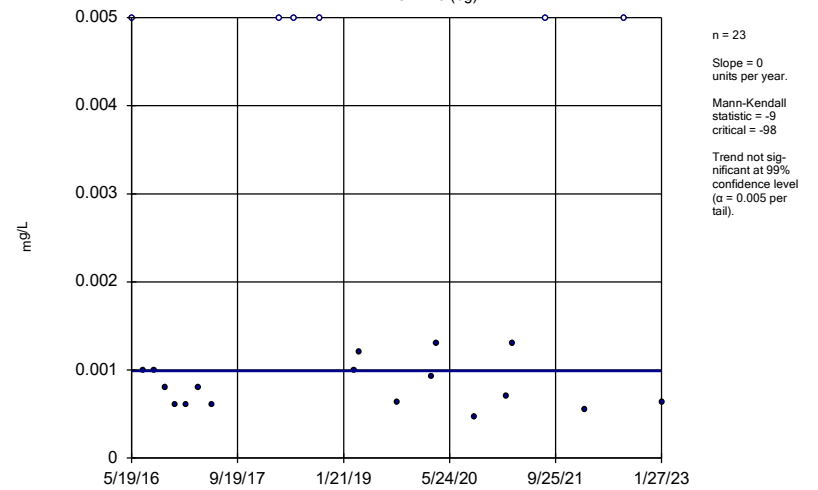
HGWA-44D (bg)



Constituent: Cobalt Analysis Run 5/15/2023 2:47 PM View: A4 Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

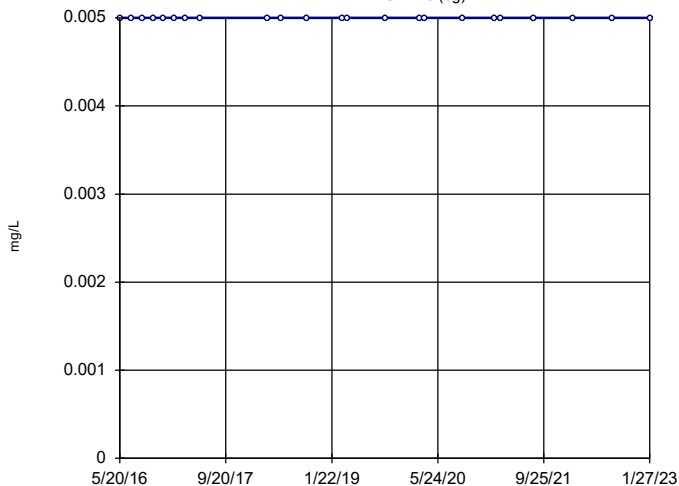
HGWA-5 (bg)



Constituent: Cobalt Analysis Run 5/15/2023 2:47 PM View: A4 Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWA-6 (bg)

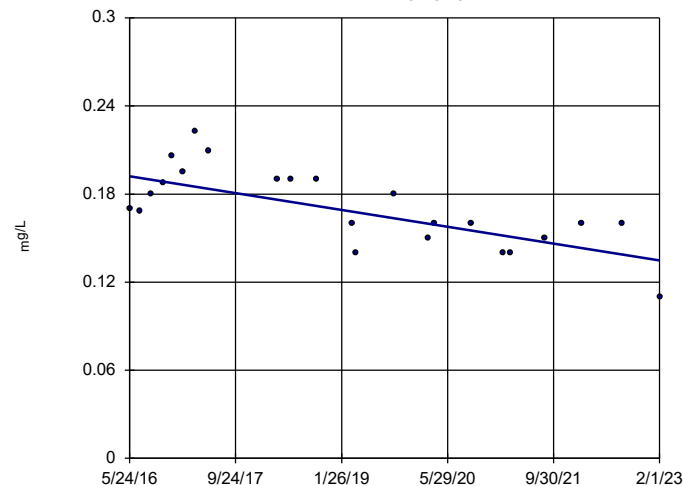


n = 23
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = 0
 critical = 98
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Cobalt Analysis Run 5/15/2023 2:47 PM View: A4 Trend Test
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

HGWC-18

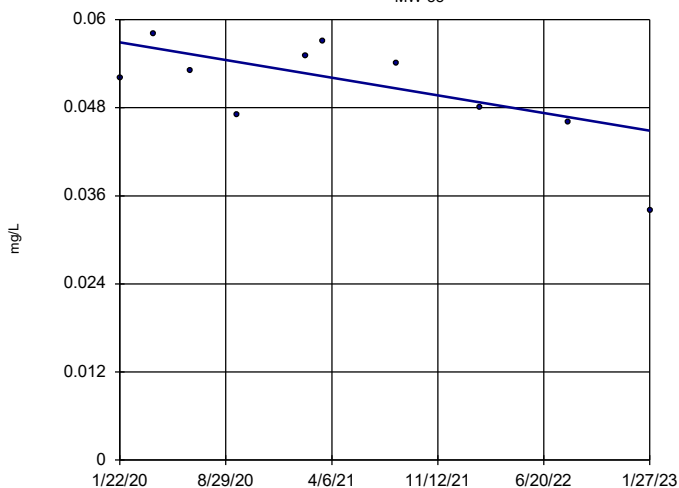


n = 23
 Slope = -0.008561
 units per year.
 Mann-Kendall
 statistic = -117
 critical = -98
 Decreasing trend
 significant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Cobalt Analysis Run 5/15/2023 2:47 PM View: A4 Trend Test
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

MW-33

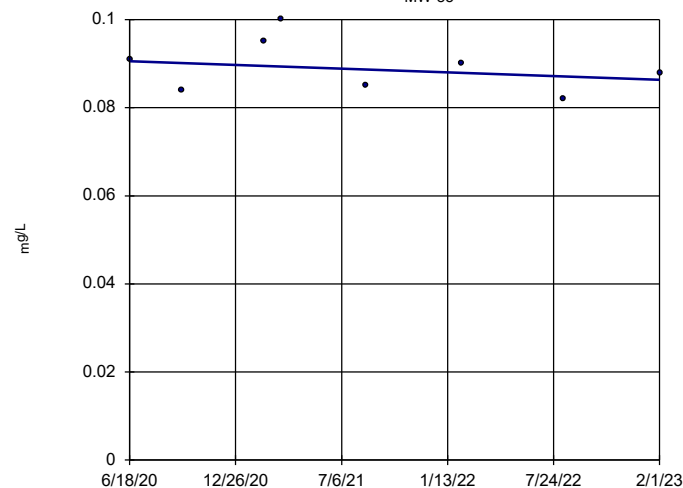


n = 10
 Slope = -0.003989
 units per year.
 Mann-Kendall
 statistic = -19
 critical = -30
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Cobalt Analysis Run 5/15/2023 2:47 PM View: A4 Trend Test
 Plant Hammond Client: Southern Company Data: Hammond AP-2

Sen's Slope Estimator

MW-35



n = 8
 Slope = -0.001591
 units per year.
 Mann-Kendall
 statistic = -6
 critical = -21
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Cobalt Analysis Run 5/15/2023 2:47 PM View: A4 Trend Test
 Plant Hammond Client: Southern Company Data: Hammond AP-2