



2023 Semiannual Groundwater Monitoring and Corrective Action Report

**Plant Yates AP-3, A, B, B', and R6 CCR Landfill
Newnan, Georgia**

August 31, 2023



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Newman, Georgia**

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Summary

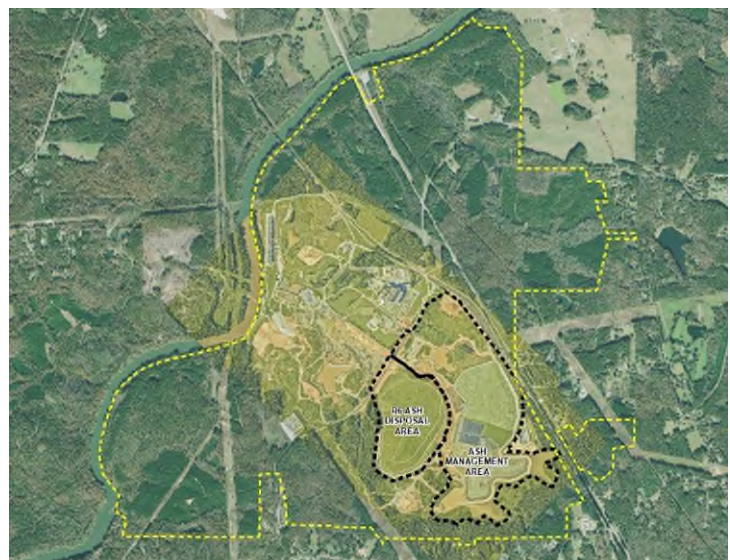
This summary of the 2023 Semiannual Monitoring and Corrective Action Report provides the status of the groundwater monitoring and corrective action program from January through July 2023 at Georgia Power Company's (Georgia Power's) Plant Yates Ash Ponds (AP) AP-3, A, B, B', and the R6 Landfill (the site). This summary was prepared by Arcadis U.S., Inc. (Arcadis) 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 (CCR) Rule (40 Code of Federal Regulations [CFR] 257 Subpart D).

Plant Yates is located at 708 Dyer Road, approximately 8 miles northwest of Newnan and 13 miles southeast of Carrollton in Coweta County, Georgia. Plant Yates originally operated seven coal-fired steam-generating units. Five of the units were retired in 2015 and two units were converted from coal to natural gas. CCR material resulting from power generation has historically been transferred and stored at the site. The site is located on the southwestern portion of the Plant Yates property.

Groundwater at the site is monitored using a comprehensive multi-unit monitoring system of wells installed to meet federal and state monitoring requirements. Routine sampling and reporting began in 2017 after the completion of eight background sampling events. Based on

groundwater conditions at the site, an assessment monitoring program was established on January 14, 2018 at AP-3, B, and B'; in September 2019 for AP-A; and on November 13, 2019 for the R6 Landfill. An assessment of corrective measures (ACM) was initiated on February 12, 2019 for the AP-3, B, and B' units. AP-A was added to the ACM on June 12, 2019, and the R6 CCR Landfill was incorporated on January 31, 2020. During the January to July 2023 reporting period, the site remained in assessment monitoring following the August 31, 2022 submittal and pending review of the Draft Remedy Selection Report to GAEPD.

During the January to July 2023 reporting period, Arcadis conducted a semiannual groundwater sampling event in February. Groundwater samples were submitted to Pace Analytical Services, LLC, for analysis. Per the CCR Rule, groundwater results were evaluated in accordance with the certified statistical methods. That evaluation showed statistically significant values of Appendix III² and Appendix IV³ parameters⁴ in the wells identified in the following table.



Plant Yates and the site

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

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 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, the USEPA RSL, if no MCL is available, or the calculated background interwell prediction limit.

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Appendix III Parameter	February 2023
Boron	YGWC-23S, YGWC-38, YGWC-41, YGWC-42, YGWC-43
Calcium	YGWC-38, YGWC-42
Sulfate	YGWC-38, YGWC-42, YGWC-43
Total Dissolved Solids	YGWC-38, YGWC-41, YGWC-42, YGWC-43
Appendix IV Parameter	February 2023
Selenium	PZ-37, YGWC-38

The selenium SSLs at wells YGWC-38 and PZ-37 are horizontally delineated by downgradient wells YGWC-23S and YGWC-36A, respectively. YGWC-38 and PZ-37 are vertically delineated by PZ-52D.

Based on review of the Appendix III and Appendix IV statistical results for the groundwater monitoring and corrective action program from January through July 2023, the site will continue in assessment monitoring. A Draft Remedy Selection Report, which summarizes the evaluation and proposed selection of a corrective measure, or measures, was submitted to GAEPD on August 31, 2022 (Arcadis 2022). GAEPD provided comments on the Draft Remedy Selection Report on February 14, 2023.

Georgia Power will continue routine groundwater monitoring and reporting for the site. Reports will be posted to the website and provided to the Georgia Environmental Protection Division (GAEPD) semiannually.

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Acronyms and Abbreviations

ACC	Atlantic Coast Consulting, Inc.
ACM	Assessment of Corrective Measures
AP	Plant Yates Ash Pond
Arcadis	Arcadis U.S., Inc.
CCR	Coal Combustion Residuals
CCR units	the combined monitoring systems of AP-3, A, B, and B' and the R6 Landfill
CFR	Code of Federal Regulations
GAEPD	Georgia Environmental Protection Division
Georgia Power	Georgia Power Company
GWPS	Groundwater Protection Standard
MCL	maximum contaminant level
MDL	method detection limit
mg/L	milligrams per liter
QA/QC	quality assurance/quality control
SSI	statistically significant increase
SSL	statistically significant level
USEPA	United States Environmental Protection Agency

Professional Certification

This 2023 Semiannual Groundwater Monitoring and Corrective Action Report, Plant Yates AP-3, A, B, B', and R6 CCR Landfill 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 Arcadis, U.S., 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.

Arcadis U.S., Inc.



J. Geoffrey Gay, P.E.
Technical Expert (Eng)
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8.31.23

Date

1 Introduction

This 2023 Semiannual Groundwater Monitoring and Corrective Action Report describes groundwater monitoring activities conducted at the Georgia Power Company (Georgia Power) Plant Yates Ash Ponds (AP) AP-3, A, B, B', and R6 Landfill (the site) in February 2023. This report was prepared in accordance with the United States Environmental Protection Agency (USEPA) Coal Combustion Residuals (CCR) Rule (40 Code of Federal Regulations [CFR] 257 Subpart D) and the Georgia Environmental Protection Division (GAEPD) Rules for Solid Waste Management 391-3-4-.10. Groundwater monitoring requirements for the site are specified by GAEPD Rule 391-3-4-.10(6)(a), which also incorporates the USEPA CCR Rule. For ease of reference, the USEPA CCR Rule is cited within this report.

This report presents the results of February 2023 semiannual monitoring event for Appendix III and Appendix IV parameters of 40 CFR 257 and 391-3-4-.10(6)(c), as well as activities completed January through June 2023 in accordance with Rule 391-3-4-.10(6)(c).

1.1 Background

Plant Yates is located at 708 Dyer Road on the east bank of the Chattahoochee River in Coweta County, Georgia, near the Coweta and Carroll County line. The site is approximately 8 miles northwest of the city of Newnan and 13 miles southeast of the city of Carrollton. Plant Yates occupies approximately 2,400 acres. **Figure 1** depicts the site location relative to the surrounding area. Areas where CCR Removal Reports have been submitted to GA EPD are shown in **Figure 2**. Monitoring well and piezometer locations are shown on **Figure 3**.

Two permit application packages were submitted to GAEPD in November 2018: one for AP-3, A, B, and B', and another for the R6 CCR Landfill. Due to the configuration of the units and overall groundwater flow direction, both permits propose combining the monitoring systems of AP-3, A, B, and B' and the R6 Landfill into a single multi-unit monitoring system that meets federal and state monitoring requirements. Although the permit application is still in review, Georgia Power proactively began monitoring the R6 Landfill as part of a combined multi-unit monitoring program. Groundwater monitoring and reporting for the CCR units are performed in accordance with the monitoring requirements presented in §§ 257.90 through 257.95 of the federal CCR Rule and GAEPD Rule 391-3-4-.10(6)(a)-(c).

Assessment monitoring of the groundwater monitoring unit at AP-3, A, B, and B' began according to 40 CFR § 257.95 in January 2018. An Assessment of Corrective Measures (ACM) Report for AP-3, A, B, and B' was submitted in June 2019 per 40 CFR § 257.96. The initial groundwater monitoring report for the R6 CCR Landfill was completed on July 31, 2019 (Atlantic Coast Consulting, Inc. [ACC] 2019). Assessment monitoring for the R6 CCR Landfill was initiated on November 13, 2019.

This 2023 Semiannual Groundwater Monitoring and Corrective Action Report includes combined results for assessment monitoring of AP-3, A, B, B' and the R6 CCR Landfill.

1.2 Regional Geology and Hydrogeologic Setting

Plant Yates is located in the Inner Piedmont Physiographic Province of western Georgia, immediately southeast of the Brevard Zone, a regional fault zone that separates the Piedmont from the Blue Ridge. Rock units at Plant Yates are primarily interlayered gneiss and schists. The rocks in the area have been subjected to extensive

metamorphism, deformation, and igneous intrusions. Extensive fracture sets are present in the underlying bedrock. Surface expressions of these fractures are observed on topographic maps and aerial photographs of the Plant Yates area (ACC 2021).

A thin layer of soil from 1 to 2 feet thick overlies a thick layer of saprolite. The saprolite, which extends to typical depths of 20 to 40 feet below ground surface, was formed in-place by the physical and chemical weathering of the underlying metamorphic rocks. The saprolite typically consists of clay- and silt-rich soils that grade to sandier soils with depth. A zone of variable thickness (approximately 5 to 20 feet) of transitionally weathered rock typically exists between the saprolite and competent bedrock. The lithology of the transition zone is highly variable and ranges from medium to coarse unconsolidated material to highly fractured and weathered rock fragments. Localized alluvial soils consisting of generally coarser material (silty-sand, clayey silt, and silty clay with well-rounded gravel and cobbles) that have been observed in saprolite may be related to historical river channel migration.

At Plant Yates, groundwater is typically encountered slightly above the saprolite/weathered rock interface. Groundwater flow in the saprolite zone is through interconnected pores and relict textures and fractures. As the rock becomes increasingly competent with depth, groundwater flow occurs mainly through joints and fractures (i.e., secondary porosity). Recharge to the water-bearing zones in fractured bedrock takes place by seepage through the overlying mantle of soil/saprolite or by direct entrance through openings in outcrops and varies with topography. The water table occurs in the saprolite and in the transitionally weathered zone, at least several feet above the top of rock.

Field hydraulic conductivity tests (i.e., slug tests) have been performed in saprolite and weathered bedrock at multiple locations at the site. The hydraulic conductivity at these locations typically ranges from 10^{-3} to 10^{-4} centimeters per second, based on multiple rising-head and falling-head slug tests (ACC 2019). This indicates a fairly uniform medium across the saprolite and weathered rock horizon. The hydraulic conductivity values from the field tests fall within a range consistent with that of Piedmont overburden (Newell et al. 1990).

1.3 Groundwater Monitoring Well Network and CCR Unit Description

Pursuant to 40 CFR § 257.91, a multi-unit groundwater monitoring system was installed within the uppermost aquifer at the site. The multi-unit monitoring system is designed to monitor groundwater passing the waste boundary of the CCR units within the uppermost aquifer. Wells are located to monitor upgradient and downgradient conditions based on groundwater flow direction. The detection monitoring well network is summarized in **Table 1A**. Additionally, a series of piezometers and assessment wells is installed to supplement characterization and groundwater elevation measurements (**Table 1B**).

As is typical of the Piedmont Physiographic Province, there is a degree of connectivity between the saprolite and partially weathered rock units (Harned, D.A., and Daniel, C.C., III 1992). Fractured bedrock may or may not be connected to the overlying units and flow may be controlled by geologic structures present. Based on the site hydrogeology, the monitoring system is designed to monitor groundwater flow in the saprolite, the transition zone, and the upper bedrock. Wells suffixed with an “S” are installed in saprolite; an “I” indicates partially weathered rock (transition zone), and a “D” indicates upper bedrock. The monitoring well network for the site is depicted on **Figure 3**.

2 Groundwater Monitoring

Pursuant to 40 CFR § 257.90(e), the following describes monitoring-related activities performed during the first half of 2023 and presents the status of the monitoring program. Groundwater sampling was performed in accordance with 40 CFR § 257.93. Samples were collected from each well in the monitoring system shown on **Figure 3**.

Groundwater sampling events conducted by Arcadis U.S., Inc. (Arcadis) in February 2023 at AP-3, A, B, B', and the R6 CCR Landfill are summarized in **Table 2**. Field sampling logs are provided in **Appendix A**.

2.1 Monitoring Well Installation and Maintenance

During this reporting period, monitoring well-related activities included the visual inspection of well conditions prior to sampling, recording site conditions, and performing exterior maintenance to provide safe access for sampling.

Monitoring wells are inspected semiannually to determine 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)). There were no well maintenance issues during this period that required corrective actions as documented in **Appendix A**.

2.2 Assessment Monitoring

An assessment monitoring program was initiated on January 14, 2018 at AP-3, B, and B' and in September 2019 for AP-A. A notice of assessment monitoring was placed in the operating record on May 15, 2018. AP-A is an inactive surface impoundment subject to the revised requirements of 40 CFR § 257.100 and was added to the multi-unit system on April 17, 2019. Assessment monitoring was initiated at the R6 CCR Landfill following review of the results of the March 2019 monitoring event. The first semiannual assessment monitoring event for the R6 CCR Landfill occurred in October 2019; a notice of assessment monitoring for the R6 CCR Landfill was placed in the operating record on November 13, 2019. AP-3, A, B, B' and the R6 CCR Landfill currently remain in assessment monitoring. A Draft Remedy Selection Report, which summarizes the evaluation and proposed selection of a corrective measure, or measures, was submitted to GAEPD on August 31, 2022 (Arcadis 2022). GAEPD provided comments on the Draft Remedy Selection Report on February 14, 2023.

Semiannual assessment monitoring at the site for Appendix III and Appendix IV parameters was conducted in February 2023 pursuant to 40 CFR § 257.95(b) and CFR § 257.95(d). Groundwater sampling activities completed during the reporting period as part of semiannual assessment monitoring are summarized in **Table 2**.

2.3 Additional Groundwater Evaluations

Supplemental groundwater samples were collected from the detection and assessment well networks during the January 2023 event and were analyzed for major cations (calcium, magnesium, potassium, and sodium), major anions (chloride, sulfate, and alkalinity [i.e., bicarbonate, carbonate, total]), iron, and manganese. The data were collected in support of evaluating the geochemical composition of the groundwater in conjunction with the ACM activities. The laboratory reports associated with the data are provided in **Appendix B**. Sampling and analysis were performed following the procedures outlined in Section 3.

2.4 Assessment of Corrective Measures

Based on assessment monitoring results presented in the 2018 Annual Groundwater and Corrective Action Monitoring Report, a Notice of Assessment of Corrective Measures was placed in the operating record on February 12, 2019 for the AP-3, B, and B' units in accordance with 40 CFR § 257.96. AP-A was added to the multi-unit groundwater monitoring system on April 17, 2019. The Assessment of Corrective Measures Report for AP-3, A, B, and B' was placed in the operating record on June 12, 2019. The first Groundwater Remedy Selection and Design Progress Report was submitted on December 12, 2019 and updated on January 31, 2020 to include the R6 CCR Landfill which was incorporated into the ACM.

A Draft Remedy Selection Report, which summarizes the evaluation and proposed selection of a corrective measure, or measures, was submitted to GAEPD on August 31, 2022 (Arcadis 2022). GAEPD provided comments on February 14, 2023. Bench-scale testing results associated with Alternative Remedy 2: In Situ Injection will be submitted in September 2023 as requested by GAEPD.

3 Sampling Methodology and Analysis

Groundwater monitoring methods used at the site are described in the following sections.

3.1 Groundwater Flow Direction, Gradient, and Velocity

Before the February 2023 sampling event, static water levels were recorded from piezometers and wells in the well network at AP-3, A, B, B' and the R6 CCR Landfill. Water levels were collected from the monitoring wells and piezometers as noted in **Table 3**.

Saprolite, transition zone, and shallow bedrock groundwater elevation data were used to prepare potentiometric surface elevation contour maps. Potentiometric surface maps for February 2023 representing the sitewide and AP-3, A, B, B' and the R6 CCR Landfill are provided on **Figures 4 and 5**, respectively. The groundwater flow direction for the saprolite, transition zone, and shallow bedrock wells is generally toward the west, northeast, and east from the area south of the R6 Landfill ash disposal area, which serves as a topographic high and groundwater recharge area. Groundwater flows west from the eastern portions of the Ash Management Area, AP-3 area, and AP-B' area to the central portion of the site. The groundwater flow direction is consistent with historical patterns and follows the topographic low between the Ash Management Area (AMA) and R6. It is interpreted that variations between saprolite/transition zone wells and deep bedrock wells are attributed to bedrock geologic structural controls, and therefore do not reflect the surficial aquifer potentiometric surface. Based on this interpretation, the deep bedrock potentiometric surface was not used for contouring.

The groundwater flow velocity at Plant Yates was calculated using a derivation of Darcy's Law:

$$v = \frac{k \left(\frac{dh}{dl} \right)}{n_e}$$

where:

v = groundwater seepage velocity

k = hydraulic conductivity

dh/dl = hydraulic gradient

n_e = effective porosity

Groundwater flow velocities were calculated for the site based on hydraulic gradients, average hydraulic conductivity based on previous slug test data, and an estimated effective porosity of 0.20 (based on a review of

several sources including Driscoll 1986, USEPA 1989, and Freeze and Cherry 1979). The calculated groundwater flow velocities for February 2023 are presented in **Table 4**. The calculated average linear flow velocity for February 2023 is 26 feet per year. The calculated groundwater velocity across the site is generally consistent with historical calculations and with expected velocities in the site-specific geology, thereby, confirming the groundwater monitoring network is properly located to monitor the uppermost aquifer.

3.2 Groundwater Sampling

Groundwater samples were collected using low-flow sampling procedures in accordance with 40 CFR § 257.93(a). Monitoring wells were purged and sampled using a dedicated bladder pump until water quality parameters stabilized. For wells sampled with non-dedicated bladder pumps, the pumps were lowered into the well so that the intake was at the midpoint of the well screen (or as appropriate determined by the water level). All non-disposable equipment was decontaminated before use and between use at well locations.

An AquaTroll 600 (In-Situ® field instrument) was used to monitor and record field water quality parameters during well purging. The stabilization criteria for pH and specific conductivity readings, as noted below, were used to verify stabilization prior to sampling. Turbidity was measured using a portable turbidimeter. Groundwater samples were collected when the following stabilization criteria were met for a minimum of three consecutive readings:

- ± 0.1 standard unit for pH;
- $\pm 5\%$ for specific conductivity; and
- Less than 5 nephelometric turbidity units for turbidity
- $\pm 10\%$ or ± 0.2 mg/L (whichever is greater) for DO where DO > 0.5 mg/L. If DO < 0.5 mg/L no stabilization criteria apply.

Once stabilization was achieved, samples were collected directly into laboratory-supplied containers with preservative (where applicable). The sample containers were immediately placed on ice in an insulated cooler. The samples were submitted to Pace Analytical Services, LLC following chain-of-custody protocol. Stabilization logs for each well are included in **Appendix A**.

3.3 Laboratory Analyses

Samples were submitted for laboratory analysis from each monitoring well as summarized in **Table 2**. During the February 2023 sampling event, the AP-3, B, B' and R6 CCR Landfill wells were sampled and analyzed for Appendix III parameters as well as for Appendix IV parameters according to 40 CFR § 257.95(b). **Table 5** provides a summary of the constituents monitored during the event. The methods used for groundwater sample analyses are listed in the analytical laboratory reports included in **Appendix B**.

Analytical data from the semiannual sampling for AP-3, B, B' and R6 CCR Landfill and the upgradient wells collected in compliance with the CCR Rule are summarized in **Tables 6a and 6b**. Additional geochemical parameters (i.e., alkalinity, cations) were collected during the February 2023 event; the data are summarized in **Tables 6c and 6d**. Laboratory analyses were performed by Pace Analytical Services, LLC, which is accredited by the National Environmental Laboratory Accreditation Program and maintains this certification for all parameters analyzed for this project. Laboratory reports and chain-of-custody records for the monitoring event is included in **Appendix B**.

3.4 Data Quality Assurance/Quality Control and Validation

During the sampling event, quality assurance/quality control (QA/QC) samples were collected at a rate of one sample per every 10 samples. QA/QC samples included equipment blanks (where non-dedicated equipment was used), field blanks, and duplicate samples. Groundwater quality data in this report were validated in accordance with USEPA guidance (USEPA 2011) and analytical methods. Data validation generally consisted of reviewing sample integrity, holding times, laboratory method blanks, laboratory control samples, matrix spike/matrix spike duplicate recoveries and relative percent differences, post-digestion spikes, laboratory and field duplicate relative percent differences, equipment blanks, and reporting limits. Where appropriate, validation qualifiers and flags have been applied to the data using USEPA procedures as guidance (USEPA 2017). The data validation report included in **Appendix B** summarizes the validation actions and applicable interpretation.

The purpose of the data quality evaluation was to determine the reliability of the chemical analyses and the accuracy and precision of information acquired from the laboratory. Data quality was assessed through the review and evaluation of field sampling, quality control samples, and data associated with the chemical analytical results. The data are considered usable for meeting project objectives and the results are considered valid. The complete results of the data quality evaluations are provided in **Appendix B**.

A "J" flag following a value indicates that the value is an estimated analyte concentration detected between the MDL and the laboratory reporting limit. The estimated value is positively identified but is below the lowest level that can be reliably achieved within specified limits of precision and accuracy under routine laboratory operating conditions. "J" flagged data are used to establish background statistical limits but are not used when performing statistical analyses.

4 Statistical Analysis

Statistical analysis of Appendix III and IV groundwater monitoring data obtained from the AP-3, A, B, B', and R6 Landfill February 2023 assessment monitoring event was performed pursuant to 40 CFR §§ 257.93–95 following established, certified statistical methods. The statistical method for the site was developed in accordance with 40 CFR § 257.93(f) using methodology presented in Statistical Analysis of Groundwater Data at RCRA Facilities, Unified Guidance, March 2009, USEPA 530/R-09-007 (USEPA 2009).

4.1 Statistical Methods

The Sanitas™ groundwater statistical software was used to perform 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 Unified Guidance document (USEPA 2009). Although Assessment Monitoring has been implemented, statistical evaluation of Appendix III constituents is performed to determine whether constituents have returned to background conditions.

4.1.1 Appendix III Statistical Methods

Groundwater data were evaluated using interwell prediction limits for Appendix III parameters. This method uses sitewide-pooled upgradient monitoring well data to establish a background statistical limit. Data from the February 2023 event were compared to the statistical limit to determine whether concentrations exceeded background

levels. The statistical method incorporates an optional 1-of-2 verification resample plan. When an initial statistically significant increase (SSI) or questionable result occurs, a second sample may be collected to verify the initial result or determine whether the result was an outlier. If resampling is performed and the initial finding is not verified, the resampled value replaces the initial finding. When the resample confirms the initial result, both values remain in the database and an SSI is declared. The following criteria were applied to the evaluation:

Statistical analyses were not performed on analytes containing 100 percent non-detects.

When data contained less than 15 percent non-detects in background samples, simple substitution of one-half the reporting limit was used in the statistical analysis. The reporting limit used for non-detects is the practical quantification limit reported by the laboratory.

When data contained between 15 to 50 percent non-detects, the Kaplan-Meier non-detect adjustment was 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.

Non-parametric prediction limits were used on data containing greater than 50 percent non-detects.

4.1.2 Assessment Monitoring Statistical Methods

Interwell parametric tolerance limits were used to calculate background limits from pooled upgradient well data for the wells identified in Table 1A for Appendix IV constituents with a target of 95 percent confidence and 95 percent coverage. When data contained greater than 50 percent non-detects or did not follow a normal or transformed-normal distribution, non-parametric tolerance limits are were used.

The confidence and coverage levels for nonparametric tolerance limits are dependent upon the number of background samples. The background levels are then used when determining the groundwater protection standards (GWPS) in accordance with 40 CFR § 257.95(h) and GAEPD Rule 391-3-4-.10(6)(a).

As described in 40 CFR § 257.95(h)(1-3), the GWPS is:

The maximum contaminant level (MCL) established under 40 CFR §§ 141.62 and 141.66.

For the following constituents:

Cobalt: 0.006 milligram per liter (mg/L)

Lead: 0.015 mg/L

Lithium: 0.040 mg/L

Molybdenum: 0.100 mg/L; or

The background level for constituents for which the background level is higher than the MCL or CCR Rule identified GWPS.

USEPA revised the federal CCR Rule on July 30, 2018, providing GWPS for cobalt, lead, lithium, and molybdenum as described above in 40 CFR 257.95(h)(2). On February 22, 2022, GA EPD updated the Rules for Solid Waste Management 391-3-4-.10(6) to incorporate updated Federal GWPS where an MCL has not been established. These levels were specified for cobalt (0.006 mg/L), lead (0.015 mg/L), lithium (0.040 mg/L), and molybdenum (0.100 mg/L), except when site specific background concentrations of these constituents are higher.

GWPSs have been established for statistical comparison of Appendix IV constituents at AP-3, A, B, B', and the R6 CCR Landfill. **Table 7** summarizes the background limits established for each monitoring well for the February 2023 sampling events as well as the GWPS.

To complete the statistical comparison to GWPSs, confidence intervals were constructed for each of the Appendix IV parameters detected in each downgradient well. Those confidence intervals were compared to the GWPSs established under federal and state rules. A sampling result from a well/constituent pair was considered to exceed its respective standard only when results from the entire confidence interval exceeded a GWPS. If there was an exceedance of the established standard, an SSL exceedance was identified.

4.2 Statistical Analysis Results

Appendix III statistical analysis for wells associated with the site was performed to determine whether constituent concentrations have returned to background levels. Appendix IV assessment monitoring parameters were evaluated for AP-3, A, B, B', and the R6 CCR Landfill to determine whether concentrations statistically exceed the established GWPSs. Appendix IV analytical data from the February 2023 semiannual assessment monitoring event for the combined AP-3, A, B, B', and R6 CCR Landfill were statistically analyzed in accordance with the Statistical Analysis Plan (Groundwater Stats Consulting 2019).

4.2.1 Appendix III Monitoring Constituents

Based on review of the Appendix III statistical analysis from the February 2023 sampling event presented in **Appendix C**, Appendix III constituents have not returned to background levels; therefore, assessment monitoring should continue pursuant to 40 CFR § 257.95(f). **Appendix C** includes a table summarizing site monitoring wells for which analytical sampling results have identified constituents with SSLs from the semiannual event.

4.2.2 Appendix IV Assessment Monitoring Constituents

Statistical analysis of the February 2023 Appendix IV data was completed using the GWPSs established according to 40 CFR § 257.95(h) and GAEPD Rule 391-3-4-.10(6)(a). The following SSLs were identified:

- Selenium: YGWC-38 and PZ-37

Monitoring wells YGWC-33S, YGWC-38, and YGWC-41 exhibited SSLs in the past that are no longer present at the site.

Downgradient wells with SSLs were further evaluated using the Sen's Slope/Mann Kendall trend test (**Appendix C**). Statistically significant trends were identified for the following well/constituent pairs:

- Decreasing trends: Selenium: YGWC-38

There are no downgradient wells with SSLs that exhibit an increasing trend. Sanitas™ statistical output data for calculation of site-specific background concentrations (interwell tolerance limits) and confidence intervals for each Appendix IV constituent in downgradient wells are provided in **Appendix C**. A selenium isoconcentration map from February 2023 is provided on **Figure 6**.

5 Monitoring Program Status

5.1 Assessment Monitoring Status

Pursuant to 40 CFR § 257.96(b), Georgia Power will continue to monitor groundwater at AP-3, A, B, B', and the R6 CCR Landfill in accordance with the assessment monitoring program regulations of 40 CFR § 257.95 while ACM efforts are implemented to evaluate SSL concentrations of selenium.

5.2 Remedy Selection Status

Horizontal and vertical delineation of current and historical SSLs of beryllium and selenium is complete on site. A Draft Remedy Selection Report was submitted to GAEPD on August 31, 2022 and included the following:

- The current groundwater conceptual site model applicable to evaluating groundwater corrective measures proposed in the ACM Report (ACC 2019);
- An assessment of corrective action investigations completed to date;
- An evaluation of each corrective measure retained for further consideration following the completed investigations; and
- A comparison 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 proposed Monitored Natural Attenuation (MNA) as the selected remedy. EPD provided comments on the proposed remedy selection on February 14, 2023.

In support of Alternative Remedy No. 2: In Situ Injection, additional bench-scale treatability testing was proposed. This alternative remedy would only be implemented if any of the following scenarios are met:

- Selenium concentrations in groundwater at specific locations exhibit an increasing trend not originally predicted during remedy selection;
- Near-source wells exhibit large concentration increases indicative of a new or renewed release;
- Selenium is identified in monitoring wells located outside of the original plume boundary;
- Selenium concentrations are not decreasing at a sufficiently rapid rate to meet the remediation objectives;
- Changes in land and/or groundwater use will adversely affect the protectiveness of the MNA remedy.

The site continues to meet the conditions supporting the selected MNA remedy.

Arcadis collected groundwater from PZ-37 on March 30, 2023 for the treatability study that was conducted at the Arcadis Treatability Laboratory in Durham, North Carolina. This groundwater, along with partially weathered rock samples from PZ-37D obtained from Georgia Power's core archive, was used to evaluate the efficacy of various zero-valent iron (ZVI) formulations as well as a ferrous iron reagent. The bench-scale treatability testing results will be submitted to GAEPD in September 2023.

6 Conclusions and Recommendations

This 2023 Semiannual Groundwater Monitoring and Corrective Action Report was prepared to fulfill the requirements of USEPA's 40 CFR §257.95 and GAEPD's Rule 391-3-4-.10. The groundwater flow direction

interpreted during this event is consistent with historical evaluations. Statistical evaluations of groundwater monitoring data for the combined monitoring unit AP-3, A, B, B', and the R6 Landfill identified SSLs of selenium in well YGWC-38 and well PZ-37. Delineation data for the selenium SSLs provide spatial and vertical delineation to concentrations below the GWPSs.

Assessment monitoring at AP-3, A, B, B', and the R6 CCR Landfill will continue pursuant to 40 CFR § 257.95. In addition, ACM efforts of the multi-unit site will continue as required by 40 CFR § 257.96. The next assessment monitoring event is scheduled for August 2023. The August semiannual monitoring event will be a combined event to meet the requirements of GAEPD Rule 391-3-4-.10(6) and 40 CFR §§ 257.95(b) and (d)(1) and will include sampling and analysis of all Appendix III and IV constituents.

7 References

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Tables

Table 1A
Detection Monitoring Well Summary
2023 Semiannual Groundwater Monitoring and Corrective Action Report
Plant Yates - AP-3, A, B, B' and R6 CCR Landfill



Well ID	Installation Date	Top of Casing Elevation (ft)	Depth to Bottom (ft bTOC)	Bottom Elevation (ft)	Depth to Top of Screen (ft bTOC)	Top of Screen Elevation (ft)	Hydraulic Location
Upgradient Wells							
YGWA-4I	5/21/2014	784.21	48.81	735.40	38.51	745.70	Upgradient
YGWA-5I	5/21/2014	784.54	58.94	725.60	48.64	735.90	Upgradient
YGWA-5D	5/21/2014	784.53	129.13	655.40	78.83	706.00	Upgradient
YGWA-17S	9/10/2015	783.05	39.85	743.20	29.55	753.20	Upgradient
YGWA-18S	9/8/2015	790.57	39.97	750.60	29.97	760.90	Upgradient
YGWA-18I	9/8/2015	790.57	79.97	710.60	69.67	720.90	Upgradient
YGWA-20S	9/29/2015	767.12	29.52	737.60	19.22	747.90	Upgradient
YGWA-21I	9/28/2015	783.70	79.90	703.80	69.60	714.10	Upgradient
YGWA-39	7/7/2016	818.19	68.59	749.60	58.09	760.10	Upgradient
YGWA-40	7/7/2016	815.73	48.23	767.50	37.73	778.00	Upgradient
YGWA-1I	5/20/2014	836.60	53.60	783.00	43.30	793.30	Upgradient
YGWA-1D	5/20/2014	837.25	128.85	708.40	78.05	759.20	Upgradient
YGWA-2I	5/20/2014	866.25	63.75	802.50	53.45	812.80	Upgradient
YGWA-3I	5/20/2014	796.55	59.05	737.50	48.85	747.70	Upgradient
YGWA-3D	5/20/2014	796.78	134.18	662.60	83.88	712.90	Upgradient
YGWA-14S	5/20/2014	748.76	34.96	713.80	24.66	724.10	Upgradient
YGWA-30I	9/23/2015	762.58	59.48	703.10	49.18	713.40	Upgradient
YGWA-47	7/11/2016	758.22	59.19	696.41	48.62	709.60	Upgradient
GWA-2	4/12/2007	805.62	52.02	753.60	41.82	763.80	Upgradient
AP-3, A, B and B'							
YGWC-23S	9/21/2015	764.95	38.91	726.00	28.61	736.30	Downgradient
YGWC-24SB	10/13/2022	764.89	57.79	707.10	47.79	717.10	Downgradient
YGWC-36A	9/22/2020	740.88	51.20	689.68	41.18	699.70	Downgradient
YGWC-49	7/13/2016	782.73	78.53	704.20	67.63	715.10	Downgradient
R6 CCR Landfill							
YGWC-38	7/23/2016	799.69	49.59	749.10	39.59	760.10	Downgradient
YGWC-41	7/8/2016	803.92	66.82	736.60	56.82	747.10	Downgradient
YGWC-42	7/8/2016	797.86	59.76	738.10	49.36	748.50	Downgradient
YGWC-43	7/9/2016	744.96	79.66	665.30	69.16	675.80	Downgradient
YGWC-50	10/14/2022	729.78	39.28	690.50	27.72	710.80	Downgradient

Notes:

Elevation is presented in U.S. Survey Feet (North American Vertical Datum of 1988) based on June 2020 survey.

Acronyms and Abbreviations:

bTOC = below top of casing

ft = feet

Table 1B
Assessment Monitoring Well and Piezometer Summary
2023 Semiannual Monitoring and Corrective Action Report
Plant Yates - AP-3, A, B, B' and R6 CCR Landfill



Well ID	Installation Date	Top of Casing Elevation (ft)	Depth to Bottom (ft bTOC)	Bottom Elevation (ft)	Depth to Top of Screen (ft bTOC)	Top of Screen Elevation (ft)	Purpose
AP-3, A, B and B'							
YGWA-6S	5/19/2014	782.47	39.87	742.60	29.57	752.90	Piezometer
YGWA-6I	5/19/2014	782.73	69.03	713.70	58.73	724.00	Piezometer
YAMW-1	9/19/2018	743.83	69.93	673.90	59.93	683.90	Assessment
PZ-04S	5/21/2014	784.25	32.75	751.50	22.45	761.80	Piezometer
PZ-05S	5/21/2014	784.64	41.94	742.70	31.64	753.00	Piezometer
PZ-06D	5/19/2014	782.02	134.02	648.00	83.72	698.30	Piezometer
PZ-24IB	10/11/2022	764.92	73.42	691.50	63.02	710.90	Piezometer
PZ-35	7/20/2016	743.81	50.01	693.80	38.91	704.90	Assessment
PZ-48	7/11/2016	779.83	58.73	721.10	48.43	731.40	Piezometer
R6 CCR Landfill							
PZ-37	7/6/2016	760.78	49.78	711.00	39.28	721.50	Piezometer
PZ-37D	4/16/2021	761.12	202.30	558.80	192.30	568.80	Piezometer
PZ-51	11/8/2019	744.30	36.32	707.98	26.32	717.98	Piezometer
PZ-52D	9/28/2021	762.79	94.89	677.50	84.89	677.90	Piezometer
PZ-53D	9/28/2021	762.80	162.90	599.50	152.90	609.90	Piezometer
YAMW-2	11/12/2019	781.04	46.48	734.56	36.48	744.56	Assessment
YAMW-3	11/6/2019	796.05	91.44	704.61	81.44	714.61	Assessment
YAMW-4	11/7/2019	805.59	96.55	709.04	86.55	719.04	Assessment
YAMW-5	11/13/2019	788.90	90.34	698.56	80.34	708.56	Assessment

Notes:

Elevation is presented in U.S. Survey Feet (North American Vertical Datum of 1988).

Acronyms and Abbreviations:

bTOC = below top of casing

ft = feet

Table 2
Groundwater Sampling Plan
2023 Semiannual Groundwater Monitoring and Corrective Action Report
Plant Yates - AP-3, A, B, B' and R6 CCR Landfill



Well ID	Hydraulic Location	Semiannual Monitoring ¹
		February 8 - 10, 2023
AP-3, A, B and B'		
YGWA-4I	Upgradient	X
YGWA-5I	Upgradient	X
YGWA-5D	Upgradient	X
YGWA-17S	Upgradient	X
YGWA-18S	Upgradient	X
YGWA-18I	Upgradient	X
YGWA-20S	Upgradient	X
YGWA-21I	Upgradient	X
YGWA-47	Upgradient ²	X
GWA-2	Upgradient ²	X
YGWA-1I	Upgradient ²	X
YGWA-1D	Upgradient ²	X
YGWA-2I	Upgradient ²	X
YGWA-3I	Upgradient ²	X
YGWA-3D	Upgradient ²	X
YGWA-14S	Upgradient ²	X
YGWA-30I	Upgradient ²	X
YGWC-23S	Downgradient	X
YGWC-36A	Downgradient	X
YGWC-49	Downgradient	X
YAMW-1	Downgradient	X
PZ-35	Downgradient	X
R6 CCR Landfill		
YGWA-39	Upgradient	X
YGWA-40	Upgradient	X
YGWC-38	Downgradient	X
YGWC-41	Downgradient	X
YGWC-42	Downgradient	X
YGWC-43	Downgradient	X
YAMW-2	Downgradient	X
YAMW-3	Downgradient	X
YAMW-4	Downgradient	X
YAMW-5	Downgradient	X
PZ-37	Downgradient	X
PZ-37D	Downgradient	X
PZ-51	Downgradient	X
PZ-52D	Downgradient	X

Notes:

1. All wells analyzed for Appendix III and Appendix IV.
2. Pooled upgradient wells

Appendix III = Constituents for Detection Monitoring - 40 CFR Part 257 Appendix III.

Appendix IV = Constituents for Assessment Monitoring - 40 CFR Part 257 Appendix IV.

Table 3
Summary of Groundwater Elevations - February 2023
2023 Semiannual Groundwater Monitoring and Corrective Action Report
Plant Yates - AP-3, A, B, B' and R6 CCR Landfill

Well ID	Date	TOC Elevation (ft)	Depth to Water (ft bTOC)	Groundwater Elevation (ft)
Downgradient Wells - February 2023				
YGWC-23S	2/6/2023	764.95	16.23	748.72
YGWC-24SB	2/6/2023	765.00	27.46	737.54
YGWC-36A	2/6/2023	740.88	10.73	730.15
YGWC-38	2/6/2023	799.69	31.67	768.02
YGWC-41	2/6/2023	803.92	29.93	773.99
YGWC-42	2/6/2023	797.86	29.54	768.32
YGWC-43	2/6/2023	744.96	24.00	720.96
YGWC-49	2/6/2023	782.73	33.32	749.41
YGWC-50	2/6/2023	729.78	15.01	714.77
PZ-35	2/6/2023	743.81	11.52	732.29
PZ-04S	2/6/2023	784.25	25.16	759.09
PZ-05S	2/6/2023	784.64	19.13	765.51
YGWA-6S	2/6/2023	782.47	20.14	762.33
YGWA-6I	2/6/2023	782.73	19.95	762.78
PZ-06D	2/6/2023	782.02	23.05	758.97
PZ-24IB	2/6/2023	764.33	27.89	736.44
PZ-37	2/6/2023	760.78	11.73	749.05
PZ-37D	2/6/2023	761.12	3.93	757.19
PZ-48	2/6/2023	799.83	21.72	778.11
PZ-51	2/6/2023	744.30	9.77	734.53
PZ-52D	2/6/2023	762.79	6.56	756.23
PZ-53D	2/6/2023	762.80	5.56	757.24
YAMW-1	2/6/2023	743.83	11.32	732.51
YAMW-2	2/6/2023	781.04	22.97	758.07
YAMW-3	2/6/2023	796.05	37.59	758.46
YAMW-4	2/6/2023	805.59	33.39	772.20
YAMW-5	2/6/2023	788.90	16.37	772.53
Upgradient Wells - February 2023				
YGWA-4I	2/6/2023	784.21	23.64	760.57
YGWA-5I	2/6/2023	784.54	19.18	765.36
YGWA-5D	2/6/2023	784.53	19.36	765.17
YGWA-17S	2/6/2023	783.05	11.57	771.48
YGWA-18S	2/6/2023	790.57	20.73	769.84
YGWA-18I	2/6/2023	790.57	23.66	766.91
YGWA-20S	2/6/2023	767.12	10.99	756.13
YGWA-21I	2/6/2023	783.70	30.07	753.63
YGWA-39	2/6/2023	818.19	17.74	800.45
YGWA-40	2/6/2023	815.73	23.02	792.71
YGWA-1I	2/6/2023	836.60	39.05	797.55
YGWA-1D	2/6/2023	837.25	49.84	787.41
YGWA-2I	2/6/2023	866.25	46.06	820.19
YGWA-3I	2/6/2023	796.55	52.27	744.28
YGWA-3D	2/6/2023	796.78	31.84	764.94
YGWA-14S	2/6/2023	748.76	18.58	730.18
YGWA-30I	2/6/2023	762.58	43.98	718.60
YGWA-47	2/6/2023	758.22	35.37	722.85
GWA-2	2/6/2023	805.62	37.46	768.16

Notes:

Elevation is presented in U.S. Survey Feet (North American Vertical Datum of 1988).

Acronyms and Abbreviations:

bTOC = below top of casing

ft = feet

TOC = top of casing

Table 4
Groundwater Flow Velocity Calculations - February 2023
2023 Semiannual Groundwater Monitoring and Corrective Action Report
Plant Yates - AP-3, A, B, B' and R6 CCR Landfill



Equation

$$V = \frac{K}{n_e} (dh/dl)$$

where: V = groundwater velocity
 K = hydraulic conductivity
 dh/dl = i = hydraulic gradient
 n_e = effective porosity

Values Used in Calculation

Value			Source	
K _{max} :	3.70E-03	cm/sec	See note 1	
	10	ft/day		
K _{min} :	9.70E-05	cm/sec		
	0.28	ft/day		
K _{avg} :	2.90E-04	cm/sec		
	0.8	ft/day		
Distance from:				
YGWA-40 to YGWA-42	1,098	feet		
YGWC-49 to PZ-24B	1,002	feet		
YGWC-6S to PZ-35	1,002	feet		
Groundwater Elevation			Date Collected:	
YGWA-40	792.71	feet	February 2023	
YGWC-42	768.32			
YGWC-49	749.41			
PZ-24IB	736.44			
i ₁ = 0.022 unitless i ₂ = 0.013 unitless i _{avg} = 0.017 unitless			Hydraulic gradient from: YGWA-40 to YGWC-42 (Feb. 2023) YGWC-49 to PZ-24I (Feb. 2023) Average	
n _e = 0.20 unitless			See note 2	

Minimum Linear Flow Velocity

February 2023

$$V_{min} = \frac{(0.28)(0.017)}{0.20}$$

$$V_{min} = 0.02 \text{ ft/day, or } 7.3 \text{ ft/year}$$

Maximum Linear Flow Velocity

February 2023

$$V_{max} = \frac{(10)(0.017)}{0.20}$$

$$V_{max} = 0.9 \text{ ft/day, or } 310 \text{ ft/year}$$

Average Linear Flow Velocity

February 2023

$$V_{avg} = \frac{(0.8)(0.017)}{0.20}$$

$$V_{avg} = 0.07 \text{ ft/day, or } 26 \text{ ft/year}$$

Notes:

1. Slug tests performed by Atlantic Coast Consulting, Inc. at AP-3/B/B'/R6 (2014-2017). Geomean of test results used for Kavg
2. Default value recommended by USEPA for silty sand-type soil (USEPA 1989).

Table 5
Summary of Groundwater Monitoring Parameters
2023 Semiannual Groundwater Monitoring and Corrective Action Report
Plant Yates AP-3, A, B, B' and R6 CCR Landfill



40 CFR 257 Appendix III	40 CFR 257 Appendix IV
Boron	Antimony
Calcium	Arsenic
Chloride	Barium
Fluoride	Beryllium
pH	Cadmium
Sulfate	Chromium
Total Dissolved Solids	Cobalt
	Fluoride
	Lead
	Lithium
	Mercury
	Molybdenum
	Combined Radium - 226/228
	Selenium
	Thallium

Notes:

CFR = Code of Federal Regulations

Table 6a
 Groundwater Analytical Data - February 2023
 2023 Semiannual Groundwater Monitoring and Corrective Action Report
 Plant Yates - A-3, A, B, B' and R6 CCR Landfill



Analyte	Units	YGWC-23S	YGWC-24SB	YGWC-36A	YGWC-38	YGWC-41	YGWC-42	YGWC-43	YGWC-49	PZ-35	PZ-37	
		2/8/2023	2/10/2023	2/9/2023	2/8/2023	2/8/2023	2/8/2023	2/8/2023	2/9/2023	2/9/2023	2/8/2023	
Appendix III	pH	SU	5.33	5.67	5.67	5.16	4.69	5.48	5.40	5.61	5.50	5.15
	Boron	mg/L	1.6	< 0.0086	0.028 J	4.1	3.3	14.5	2.5	0.014 J	0.076	8.2
	Calcium	mg/L	10.9	2.4	9.2	55.3	14.4	74.6	11.0	11.8	14.5	95.9
	Chloride	mg/L	2.0	9.1	5.9	3.9	4.0	3.4	2.4	4.4	5.4	3.8
	Fluoride	mg/L	< 0.050	0.051 J	< 0.050	< 0.050	< 0.050	0.080 J	0.11	< 0.050	< 0.050	< 0.050
	Sulfate	mg/L	78.0	0.50 J	50.8	251	119	494	164	71.1	84.6	449
	Total Dissolved Solids	mg/L	158	66.0	116	579	257	853	333	145	196	822
Appendix IV	Antimony	mg/L	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078
	Arsenic	mg/L	< 0.0022	0.0035 J	0.0047 J	< 0.0022	0.0027 J	0.0025 J	0.0033 J	< 0.0022	0.0028 J	< 0.0022
	Barium	mg/L	0.053	0.031	0.097	0.016	0.022	0.023	0.031	0.063	0.13	0.022
	Beryllium	mg/L	0.00022 J	0.000054 J	0.00066	0.0020	0.0013	0.00062 J	0.00036 J	0.00012 J	0.00080	0.0011
	Cadmium	mg/L	< 0.00011	< 0.00011	< 0.00011	0.00068	< 0.00011	0.00014 J	< 0.00011	< 0.00011	0.00025 J	0.00076
	Chromium	mg/L	0.0014 J	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	0.0020 J	0.0016 J	< 0.0011
	Cobalt	mg/L	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039	0.0018 J	0.00049 J	< 0.00039	< 0.00039	0.0022 J
	Fluoride	mg/L	< 0.050	0.051 J	< 0.050	< 0.050	< 0.050	0.080 J	0.11	< 0.050	< 0.050	< 0.050
	Lead	mg/L	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089
	Lithium	mg/L	0.0028 J	< 0.00073	0.0010 J	0.0058 J	0.0021 J	0.046	0.015 J	0.0033 J	0.0026 J	0.013 J
	Mercury	mg/L	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013
	Molybdenum	mg/L	< 0.00074	< 0.00074	< 0.00074	< 0.00074	< 0.00074	0.00081 J	0.0016 J	< 0.00074	< 0.00074	< 0.00074
	Combined Radium - 226/228	pCi/l	0.400 U	0.137 U	0.326 U	0.361 U	0.852 U	0.817	3.73	0.667 U	0.718 U	0.742 U
	Selenium	mg/L	0.035	< 0.0014	0.0027 J	0.056	0.027	0.041	< 0.0014	0.0054	0.0041 J	0.16
Thallium	mg/L	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	

Notes:

Analytical results are reported in milligrams per liter except for combined radium results, which are reported in picoCuries per liter and pH in standard units.

Appendix III = Constituents for Detection Monitoring - 40 CFR Part 257 Appendix III.

Appendix IV = Constituents for Assessment Monitoring - 40 CFR Part 257 Appendix IV.

< Analyte was not detected above the laboratory method detection limit (MDL).

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Table 6a
 Groundwater Analytical Data - February 2023
 2023 Semiannual Groundwater Monitoring and Corrective Action Report
 Plant Yates - A-3, A, B, B' and R6 CCR Landfill

Appendix	Analyte	Units	PZ-37D	PZ-51	PZ-52D	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5
			2/8/2023	2/9/2023	2/8/2023	2/9/2023	2/8/2023	2/9/2023	2/8/2023	2/8/2023
Appendix III	pH	SU	7.95	5.14	6.12	5.73	5.95	5.89	6.19	5.67
	Boron	mg/L	0.70	6.9	1.2	0.63	0.031 J	8.1	3.0	6.5
	Calcium	mg/L	55.2	54.3	22.9	31.7	1.2	33.0	12.0	52.3
	Chloride	mg/L	33.5	4.7	2.0	5.4	2.5	9.6	1.5	3.8
	Fluoride	mg/L	0.20	0.13	0.070 J	< 0.050	0.061 J	0.079 J	0.079 J	0.050 J
	Sulfate	mg/L	177	370	279	209	6.7	419	192	368
	Total Dissolved Solids	mg/L	477	582	542	347	190	727	402	660
Appendix IV	Antimony	mg/L	0.0015 J	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078
	Arsenic	mg/L	< 0.0022	< 0.0022	0.0032 J	0.0034 J	< 0.0022	< 0.0022	0.0037 J	0.0038 J
	Barium	mg/L	0.018	0.015	0.012	0.078	0.0064	0.045	0.0030 J	0.039
	Beryllium	mg/L	< 0.000054	0.0024	< 0.000054	0.00012 J	0.000055 J	0.000062 J	< 0.000054	0.00013 J
	Cadmium	mg/L	< 0.00011	0.0018	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011	0.00046 J
	Chromium	mg/L	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011
	Cobalt	mg/L	< 0.00039	0.0071	0.0026 J	0.0045 J	< 0.00039	0.066	0.00085 J	< 0.00039
	Fluoride	mg/L	0.20	0.13	0.070 J	< 0.050	0.061 J	0.079 J	0.079 J	0.050 J
	Lead	mg/L	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089
	Lithium	mg/L	0.0088 J	0.0045 J	0.025 J	0.019 J	< 0.00073	0.048	0.033	0.014 J
	Mercury	mg/L	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013
	Molybdenum	mg/L	0.0024 J	< 0.00074	0.0050 J	< 0.00074	< 0.00074	0.0067 J	0.0076 J	< 0.00074
	Combined Radium - 226/228	pCi/l	2.37	0.467 U	0.218 U	0.595 U	0.0994 U	2.19	0.239 U	0.502 U
	Selenium	mg/L	< 0.0014	0.028	0.0057	0.0051	< 0.0014	< 0.0014	0.017	0.052
Thallium	mg/L	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	

Notes:

Analytical results are reported in milligrams per liter except for combined radium results, which are reported in picoCuries per liter and pH in standard units.

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	Analyte	Units	GWA-2	YGWA-1I	YGWA-1D	YGWA-2I	YGWA-3I	YGWA-3D	YGWA-4I	YGWA-5I
			2/7/2023	2/7/2023	2/7/2023	2/7/2023	2/8/2023	2/8/2023	2/9/2023	2/9/2023
Appendix III	pH	SU	5.94	6.53	7.86	6.94	7.73	7.88	6.23	5.90
	Boron	mg/L	< 0.0086	< 0.0086	< 0.0086	< 0.0086	< 0.0086	< 0.0086	< 0.0086	< 0.0086
	Calcium	mg/L	22.3	2.2	15.0	25.6	23.3	28.9	9.6	2.8
	Chloride	mg/L	6.1	1.5	1.3	1.1	1.1	1.2	4.5	5.0
	Fluoride	mg/L	0.095 J	0.071 J	0.093 J	0.12	0.16	0.56	0.067 J	< 0.050
	Sulfate	mg/L	82.4	6.6	10.6	17.8	14.7	7.5	8.9	2.9
	Total Dissolved Solids	mg/L	207	121	131	159	145	144	124	59.0
Appendix IV	Antimony	mg/L	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078
	Arsenic	mg/L	< 0.0022	< 0.0022	< 0.0022	< 0.0022	0.0024 J	0.0030 J	< 0.0022	< 0.0022
	Barium	mg/L	0.034	0.21	0.14	0.0026 J	0.0029 J	0.0048 J	0.014	0.019
	Beryllium	mg/L	< 0.000054	0.00054	0.0011	< 0.000054	< 0.000054	< 0.000054	< 0.000054	< 0.000054
	Cadmium	mg/L	0.00012 J	< 0.00011	< 0.00011	< 0.00011	0.00013 J	< 0.00011	< 0.00011	< 0.00011
	Chromium	mg/L	< 0.0011	0.0013 J	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	0.0012 J
	Cobalt	mg/L	0.034	0.0048 J	0.00097 J	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039
	Lead	mg/L	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089
	Lithium	mg/L	0.0022 J	0.0029 J	0.0060 J	0.0047 J	0.018 J	0.023 J	0.014 J	0.0036 J
	Mercury	mg/L	0.00013 J	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013
	Molybdenum	mg/L	< 0.00074	< 0.00074	< 0.00074	0.0061 J	0.0065 J	0.012	< 0.00074	< 0.00074
	Combined Radium - 226/228	pCi/l	1.00	0.661 U	0.920 U	0.536 U	1.18	2.74	1.12	0.0815 U
	Selenium	mg/L	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014
	Thallium	mg/L	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018

Notes:
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	Analyte	Units	YGWA-5D	YGWA-14S	YGWA-17S	YGWA-18I	YGWA-18S	YGWA-20S	YGWA-21I	YGWA-30I
			2/7/2023	2/8/2023	2/7/2023	2/7/2023	2/7/2023	2/7/2023	2/7/2023	2/7/2023
Appendix III	pH	SU	6.64	5.39	5.47	6.00	5.03	6.82	6.94	6.43
	Boron	mg/L	< 0.0086	0.015 J	0.014 J	< 0.0086	< 0.0086	< 0.0086	< 0.0086	< 0.0086
	Calcium	mg/L	26.6	1.5	2.9	5.5	0.79 J	7.5	25.6	1.3
	Chloride	mg/L	3.3	4.9	11.4	7.4	6.4	2.4	1.1	1.6
	Fluoride	mg/L	0.082 J	0.059 J	< 0.050	< 0.050	< 0.050	0.10	0.12	0.064 J
	Sulfate	mg/L	5.2	6.1	4.9	0.78 J	1.2	3.8	17.8	0.96 J
	Total Dissolved Solids	mg/L	180	56.0	78.0	96.0	55.0	163	159	43.0
Appendix IV	Antimony	mg/L	< 0.00078	< 0.00078	0.0013 J	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078
	Arsenic	mg/L	0.0030 J	< 0.0022	< 0.0022	< 0.0022	< 0.0022	0.0028 J	< 0.0022	< 0.0022
	Barium	mg/L	0.0075	0.0089	0.017	0.019	0.012	0.010	0.0026 J	0.0066
	Beryllium	mg/L	< 0.000054	0.00022 J	0.000096 J	< 0.000054	0.000071 J	< 0.000054	< 0.000054	< 0.000054
	Cadmium	mg/L	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011	0.00012 J	< 0.00011	< 0.00011
	Chromium	mg/L	< 0.0011	< 0.0011	< 0.0011	< 0.0011	0.0016 J	< 0.0011	< 0.0011	0.0021 J
	Cobalt	mg/L	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039	0.014	< 0.00039	0.0031 J
	Lead	mg/L	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089
	Lithium	mg/L	0.0059 J	< 0.00073	< 0.00073	0.0030 J	0.0012 J	0.0059 J	0.0047 J	0.0011 J
	Mercury	mg/L	< 0.00013	< 0.00013	0.00018 J	0.00013 J	0.00017 J	0.00017 J	< 0.00013	< 0.00013
	Molybdenum	mg/L	0.00095 J	< 0.00074	< 0.00074	< 0.00074	< 0.00074	< 0.00074	0.0061 J	< 0.00074
	Combined Radium - 226/228	pCi/l	3.99	0.830 U	0.367 U	0.485 U	0.656 U	1.53	0.536 U	0.417 U
	Selenium	mg/L	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014
	Thallium	mg/L	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018

Notes:
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	Analyte	Units	YGWA-39	YGWA-40	YGWA-47
			2/7/2023	2/8/2023	2/8/2023
Appendix III	pH	SU	5.49	5.71	5.22
	Boron	mg/L	0.13	0.057	0.011 J
	Calcium	mg/L	16.1	5.9	9.2
	Chloride	mg/L	5.6	6.9	3.5
	Fluoride	mg/L	0.076 J	< 0.050	0.077 J
	Sulfate	mg/L	9.7	17.5	50.5
	Total Dissolved Solids	mg/L	224	115	141
Appendix IV	Antimony	mg/L	< 0.00078	< 0.00078	< 0.00078
	Arsenic	mg/L	0.0029 J	< 0.0022	< 0.0022
	Barium	mg/L	0.030	0.037	0.031
	Beryllium	mg/L	< 0.000054	0.00026 J	< 0.000054
	Cadmium	mg/L	0.00014 J	< 0.00011	0.00032 J
	Chromium	mg/L	< 0.0011	< 0.0011	< 0.0011
	Cobalt	mg/L	0.00066 J	< 0.00039	0.0011 J
	Lead	mg/L	< 0.00089	< 0.00089	< 0.00089
	Lithium	mg/L	0.0065 J	0.00074 J	0.0037 J
	Mercury	mg/L	< 0.00013	< 0.00013	< 0.00013
	Molybdenum	mg/L	0.0045 J	< 0.00074	< 0.00074
	Combined Radium - 226/228	pCi/l	1.41	1.56	0.375 U
	Selenium	mg/L	< 0.0014	< 0.0014	< 0.0014
	Thallium	mg/L	< 0.00018	< 0.00018	< 0.00018

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	Analyte	Units	GWA-2	YGWA-1I	YGWA-1D	YGWA-2I	YGWA-3I	YGWA-3D	YGWA-4I	YGWA-5I	YGWA-5D	YGWA-14S	YGWA-17S	YGWA-18I
			2/7/2023	2/7/2023	2/7/2023	2/7/2023	2/8/2023	2/8/2023	2/9/2023	2/9/2023	2/7/2023	2/8/2023	2/7/2023	2/7/2023
Appendix III	pH	SU	5.94	6.53	7.86	6.94	7.73	7.88	6.23	5.90	6.64	5.39	5.47	6.00
	Boron	mg/l	< 0.0086	< 0.0086	< 0.0086	< 0.0086	< 0.0086	< 0.0086	< 0.0086	< 0.0086	< 0.0086	0.015 J	0.014 J	< 0.0086
	Calcium	mg/l	22.3	2.2	15.0	25.6	23.3	28.9	9.6	2.8	26.6	1.5	2.9	5.5
	Chloride	mg/l	6.1	1.5	1.3	1.1	1.1	1.2	4.5	5.0	3.3	4.9	11.4	7.4
	Fluoride	mg/l	0.095 J	0.071 J	0.093 J	0.12	0.16	0.56	0.067 J	< 0.050	0.082 J	0.059 J	< 0.050	< 0.050
	Sulfate	mg/l	82.4	6.6	10.6	17.8	14.7	7.5	8.9	2.9	5.2	6.1	4.9	0.78 J
	Total Dissolved Solids	mg/l	207	121	131	159	145	144	124	59.0	180	56.0	78.0	96.0
Appendix IV	Antimony	mg/l	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	0.0013 J	< 0.00078
	Arsenic	mg/l	< 0.0022	< 0.0022	< 0.0022	< 0.0022	0.0024 J	0.0030 J	< 0.0022	< 0.0022	0.0030 J	< 0.0022	< 0.0022	< 0.0022
	Barium	mg/l	0.034	0.21	0.14	0.0026 J	0.0029 J	0.0048 J	0.014	0.019	0.0075	0.0089	0.017	0.019
	Beryllium	mg/l	< 0.000054	0.00054	0.0011	< 0.000054	< 0.000054	< 0.000054	< 0.000054	< 0.000054	< 0.000054	0.00022 J	0.000096 J	< 0.000054
	Cadmium	mg/l	0.00012 J	< 0.00011	< 0.00011	< 0.00011	0.00013 J	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011
	Chromium	mg/l	< 0.0011	0.0013 J	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	0.0012 J	< 0.0011	< 0.0011	< 0.0011	< 0.0011
	Cobalt	mg/l	0.034	0.0048 J	0.00097 J	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039
	Lead	mg/l	< 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	mg/l	0.0022 J	0.0029 J	0.0060 J	0.0047 J	0.018 J	0.023 J	0.014 J	0.0036 J	0.0059 J	< 0.00073	< 0.00073	0.0030 J
	Mercury	mg/l	0.00013 J	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	0.00018 J	0.00013 J
	Molybdenum	mg/l	< 0.00074	< 0.00074	< 0.00074	0.0061 J	0.0065 J	0.012	< 0.00074	< 0.00074	0.00095 J	< 0.00074	< 0.00074	< 0.00074
	Combined Radium - 226/228	pCi/l	1.00	0.661 U	0.920 U	0.536 U	1.18	2.74	1.12	0.0815 U	3.99	0.830 U	0.367 U	0.485 U
	Selenium	mg/l	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014
	Thallium	mg/l	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018

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	Analyte	Units	YGWA-18S	YGWA-20S	YGWA-21I	YGWA-30I	YGWA-39	YGWA-40	YGWA-47
			2/7/2023	2/7/2023	2/7/2023	2/8/2023	2/7/2023	2/8/2023	2/8/2023
Appendix III	pH	SU	5.03	6.82	6.94	6.43	5.49	5.71	5.22
	Boron	mg/l	< 0.0086	< 0.0086	< 0.0086	< 0.0086	0.13	0.057	0.011 J
	Calcium	mg/l	0.79 J	7.5	25.6	1.3	16.1	5.9	9.2
	Chloride	mg/l	6.4	2.4	1.1	1.6	5.6	6.9	3.5
	Fluoride	mg/l	< 0.050	0.10	0.12	0.064 J	0.076 J	< 0.050	0.077 J
	Sulfate	mg/l	1.2	3.8	17.8	0.96 J	9.7	17.5	50.5
	Total Dissolved Solids	mg/l	55.0	163	159	43.0	224	115	141
Appendix IV	Antimony	mg/l	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078
	Arsenic	mg/l	< 0.0022	0.0028 J	< 0.0022	< 0.0022	0.0029 J	< 0.0022	< 0.0022
	Barium	mg/l	0.012	0.010	0.0026 J	0.0066	0.030	0.037	0.031
	Beryllium	mg/l	0.000071 J	< 0.000054	< 0.000054	< 0.000054	< 0.000054	0.00026 J	< 0.000054
	Cadmium	mg/l	< 0.00011	0.00012 J	< 0.00011	< 0.00011	0.00014 J	< 0.00011	0.00032 J
	Chromium	mg/l	0.0016 J	< 0.0011	< 0.0011	0.0021 J	< 0.0011	< 0.0011	< 0.0011
	Cobalt	mg/l	< 0.00039	0.014	< 0.00039	0.0031 J	0.00066 J	< 0.00039	0.0011 J
	Lead	mg/l	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089
	Lithium	mg/l	0.0012 J	0.0059 J	0.0047 J	0.0011 J	0.0065 J	0.00074 J	0.0037 J
	Mercury	mg/l	0.00017 J	0.00017 J	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013
	Molybdenum	mg/l	< 0.00074	< 0.00074	0.0061 J	< 0.00074	0.0045 J	< 0.00074	< 0.00074
	Combined Radium - 226/228	pCi/l	0.656 U	1.53	0.536 U	0.417 U	1.41	1.56	0.375 U
	Selenium	mg/l	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014
	Thallium	mg/l	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018

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	Analyte	Units	GWA-2	YGWA-1I	YGWA-1D	YGWA-2I	YGWA-3I	YGWA-3D	YGWA-4I	YGWA-5I	YGWA-5D	YGWA-14S	YGWA-17S	YGWA-18I
			2/7/2023	2/7/2023	2/7/2023	2/7/2023	2/8/2023	2/8/2023	2/9/2023	2/9/2023	2/7/2023	2/8/2023	2/7/2023	2/7/2023
Appendix III	pH	SU	5.94	6.53	7.86	6.94	7.73	7.88	6.23	5.90	6.64	5.39	5.47	6.00
	Boron	mg/l	< 0.0086	< 0.0086	< 0.0086	< 0.0086	< 0.0086	< 0.0086	< 0.0086	< 0.0086	< 0.0086	0.015 J	0.014 J	< 0.0086
	Calcium	mg/l	22.3	2.2	15.0	25.6	23.3	28.9	9.6	2.8	26.6	1.5	2.9	5.5
	Chloride	mg/l	6.1	1.5	1.3	1.1	1.1	1.2	4.5	5.0	3.3	4.9	11.4	7.4
	Fluoride	mg/l	0.095 J	0.071 J	0.093 J	0.12	0.16	0.56	0.067 J	< 0.050	0.082 J	0.059 J	< 0.050	< 0.050
	Sulfate	mg/l	82.4	6.6	10.6	17.8	14.7	7.5	8.9	2.9	5.2	6.1	4.9	0.78 J
	Total Dissolved Solids	mg/l	207	121	131	159	145	144	124	59.0	180	56.0	78.0	96.0
Appendix IV	Antimony	mg/l	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	0.0013 J	< 0.00078
	Arsenic	mg/l	< 0.0022	< 0.0022	< 0.0022	< 0.0022	0.0024 J	0.0030 J	< 0.0022	< 0.0022	0.0030 J	< 0.0022	< 0.0022	< 0.0022
	Barium	mg/l	0.034	0.21	0.14	0.0026 J	0.0029 J	0.0048 J	0.014	0.019	0.0075	0.0089	0.017	0.019
	Beryllium	mg/l	< 0.000054	0.00054	0.0011	< 0.000054	< 0.000054	< 0.000054	< 0.000054	< 0.000054	< 0.000054	0.00022 J	0.000096 J	< 0.000054
	Cadmium	mg/l	0.00012 J	< 0.00011	< 0.00011	< 0.00011	0.00013 J	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011
	Chromium	mg/l	< 0.0011	0.0013 J	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	0.0012 J	< 0.0011	< 0.0011	< 0.0011	< 0.0011
	Cobalt	mg/l	0.034	0.0048 J	0.00097 J	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039
	Lead	mg/l	< 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	mg/l	0.0022 J	0.0029 J	0.0060 J	0.0047 J	0.018 J	0.023 J	0.014 J	0.0036 J	0.0059 J	< 0.00073	< 0.00073	0.0030 J
	Mercury	mg/l	0.00013 J	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	0.00018 J	0.00013 J
	Molybdenum	mg/l	< 0.00074	< 0.00074	< 0.00074	0.0061 J	0.0065 J	0.012	< 0.00074	< 0.00074	0.00095 J	< 0.00074	< 0.00074	< 0.00074
	Combined Radium - 226/228	pCi/l	1.00	0.661 U	0.920 U	0.536 U	1.18	2.74	1.12	0.0815 U	3.99	0.830 U	0.367 U	0.485 U
	Selenium	mg/l	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014
	Thallium	mg/l	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018

Notes:
 Analytical results are reported in milligrams per liter except for combined radium results, which are reported in picoCuries per liter and pH in standard units.

Appendix III = Constituents for Detection Monitoring - 40 CFR Part 257 Appendix III.

Appendix IV = Constituents for Assessment Monitoring - 40 CFR Part 257 Appendix IV.

< Analyte was not detected above the laboratory method detection limit (MDL).

Laboratory Qualifiers:

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

U: the substance was detected below the Minimum Detection Concentration (MDC) and the

	Analyte	Units	YGWA-18S	YGWA-20S	YGWA-21I	YGWA-30I	YGWA-39	YGWA-40	YGWA-47
			2/7/2023	2/7/2023	2/7/2023	2/8/2023	2/7/2023	2/8/2023	2/8/2023
Appendix III	pH	SU	5.03	6.82	6.94	6.43	5.49	5.71	5.22
	Boron	mg/l	< 0.0086	< 0.0086	< 0.0086	< 0.0086	0.13	0.057	0.011 J
	Calcium	mg/l	0.79 J	7.5	25.6	1.3	16.1	5.9	9.2
	Chloride	mg/l	6.4	2.4	1.1	1.6	5.6	6.9	3.5
	Fluoride	mg/l	< 0.050	0.10	0.12	0.064 J	0.076 J	< 0.050	0.077 J
	Sulfate	mg/l	1.2	3.8	17.8	0.96 J	9.7	17.5	50.5
	Total Dissolved Solids	mg/l	55.0	163	159	43.0	224	115	141
Appendix IV	Antimony	mg/l	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078
	Arsenic	mg/l	< 0.0022	0.0028 J	< 0.0022	< 0.0022	0.0029 J	< 0.0022	< 0.0022
	Barium	mg/l	0.012	0.010	0.0026 J	0.0066	0.030	0.037	0.031
	Beryllium	mg/l	0.000071 J	< 0.000054	< 0.000054	< 0.000054	< 0.000054	0.00026 J	< 0.000054
	Cadmium	mg/l	< 0.00011	0.00012 J	< 0.00011	< 0.00011	0.00014 J	< 0.00011	0.00032 J
	Chromium	mg/l	0.0016 J	< 0.0011	< 0.0011	0.0021 J	< 0.0011	< 0.0011	< 0.0011
	Cobalt	mg/l	< 0.00039	0.014	< 0.00039	0.0031 J	0.00066 J	< 0.00039	0.0011 J
	Lead	mg/l	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089
	Lithium	mg/l	0.0012 J	0.0059 J	0.0047 J	0.0011 J	0.0065 J	0.00074 J	0.0037 J
	Mercury	mg/l	0.00017 J	0.00017 J	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013
	Molybdenum	mg/l	< 0.00074	< 0.00074	0.0061 J	< 0.00074	0.0045 J	< 0.00074	< 0.00074
	Combined Radium - 226/228	pCi/l	0.656 U	1.53	0.536 U	0.417 U	1.41	1.56	0.375 U
	Selenium	mg/l	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014
	Thallium	mg/l	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018

Notes:
 Analytical results are reported in milligrams per liter except for combined radium results, which are reported in picoCuries per liter and pH in standard units.

Appendix III = Constituents for Detection Monitoring - 40 CFR Part 257 Appendix III.

Appendix IV = Constituents for Assessment Monitoring - 40 CFR Part 257 Appendix IV.

< Analyte was not detected above the laboratory method detection limit (MDL).

Laboratory Qualifiers:

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

U: the substance was detected below the Minimum Detection Concentration (MDC) and the

Analyte	Units	GWA-2	YGWA-1I	YGWA-1D	YGWA-2I	YGWA-3I	YGWA-3D	YGWA-4I	YGWA-5I	YGWA-5D	YGWA-14S	YGWA-17S	YGWA-18I
		2/7/2023	2/7/2023	2/7/2023	2/7/2023	2/8/2023	2/8/2023	2/9/2023	2/9/2023	2/7/2023	2/8/2023	2/7/2023	2/7/2023
Alkalinity	mg/l as CaCO ₃	62.4	20.4	65.4	87.6	92.2	106	57.7	26.4	96.5	13.0	15.6	36.0
Alkalinity, Bicarbonate	mg/l as CaCO ₃	62.4	20.4	65.4	87.6	92.2	106	57.7	26.4	96.5	13.0	15.6	36.0
Alkalinity, Carbonate	mg/l as CaCO ₃	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Magnesium	mg/l	19.3	1.5	1.9	4.1	5.4	3.6	5.3	2.7	4.6	1.6	0.98	3.1
Potassium	mg/l	9.5	2.0	4.8	5.1	5.3	3.5	4.1	1.6	3.7	0.87	0.41	0.96
Sodium	mg/l	8.1	5.6	11.5	9.0	9.4	9.9	9.9	10.8	9.7	9.5	14.2	12.6

Notes:
 Analytical results are reported in milligrams per liter.
 < Analyte was not detected above the laboratory method detection limit (MDL).

Table 6d
 Upgradient Groundwater Analytical Data (Additional Parameters) - February 2023
 2023 Semiannual Groundwater Monitoring and Corrective Action Report
 Plant Yates - A-3, A, B, B' and R6 CCR Landfill



Analyte	Units	YGWA-18S	YGWA-20S	YGWA-21I	YGWA-30I	YGWA-39	YGWA-40	YGWA-47
		2/7/2023	2/7/2023	2/7/2023	2/8/2023	2/7/2023	2/8/2023	2/8/2023
Alkalinity	mg/l as CaCO ₃	9.3	23.3	78.4	15.4	177	27.6	37.8
Alkalinity, Bicarbonate	mg/l as CaCO ₃	9.3	23.3	78.4	15.4	177	27.6	37.8
Alkalinity, Carbonate	mg/l as CaCO ₃	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Magnesium	mg/l	0.91	0.58	3.9	0.92	21.7	3.4	10
Potassium	mg/l	0.50	0.55	3.2	0.55	6.6	2.2	3.7
Sodium	mg/l	7.8	8.7	20.4	6.0	28.1	10.1	11.4

Notes:
 Analytical results are reported in milligrams per liter.
 < Analyte was not detected above the laboratory method detection limit (MDL).

Table 7
Background Levels and Groundwater Protection Standards
2023 Semiannual Groundwater Monitoring and Corrective Action Report
Plant Yates - AP-3, A, B, B' and R6 CCR Landfill

Constituent	Units	Background	GWPS
February 2023 (AP-3, A, B, B', R6 Landfill)			
Antimony	mg/L	0.0047	0.006
Arsenic	mg/L	0.005	0.010
Barium	mg/L	0.21	2.0
Beryllium	mg/L	0.0011	0.004
Cadmium	mg/L	0.00063	0.005
Chromium	mg/L	0.0093	0.100
Cobalt	mg/L	0.035	0.035 ²
Fluoride	mg/L	0.680	4.0
Lead	mg/L	0.0013	0.015
Lithium	mg/L	0.030	0.040
Mercury	mg/L	0.00064	0.002
Molybdenum	mg/L	0.014	0.100
Selenium	mg/L	0.005	0.050
Thallium	mg/L	0.001	0.002
Combined Radium - 226/228	pCi/L	6.92	6.92 ²

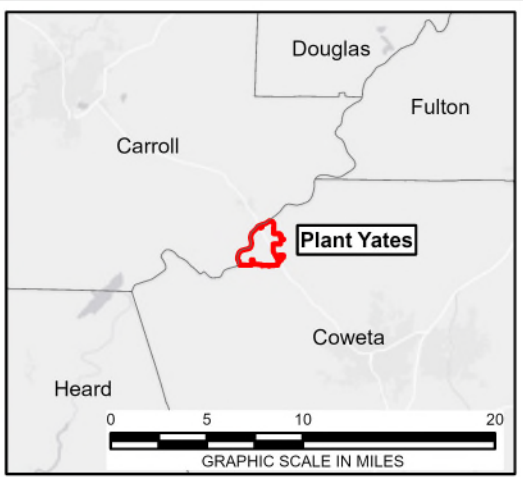
Notes:

1. Site background: Tolerance limits calculated from pooled upgradient well data.
2. Background concentration is higher than the federally promulgated value (0.006 mg/L for Cobalt). Background is higher than radium MCL (5 mg/L). Therefore, background is the GWPS.

Acronyms and Abbreviations:

mg/L = milligrams per liter
pCi/L = picocuries per liter

Figures

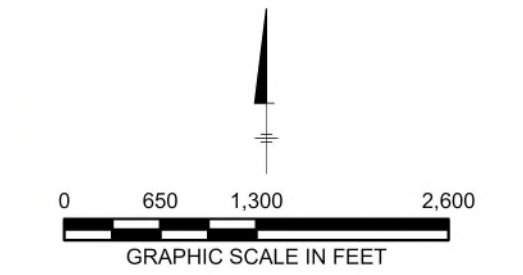


LEGEND

--- APPROXIMATE PROPERTY BOUNDARY

- - - PERMITTED UNIT BOUNDARY

NOTE:
 AERIAL IMAGE SOURCES: JANUARY 2023 IMAGERY FLOWN AND PROCESSED BY SAM LLC; NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP) 2021 IMAGERY.

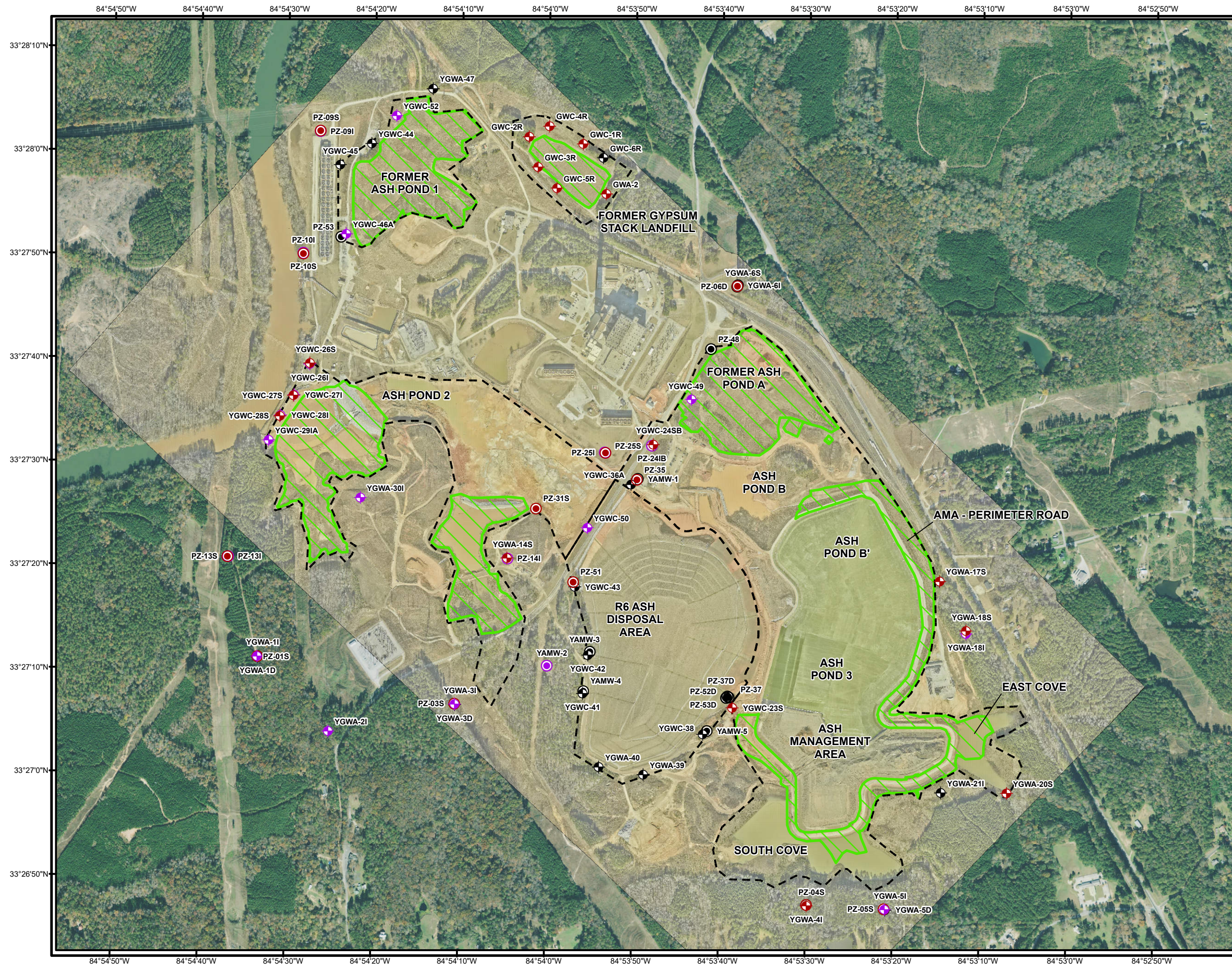


COORDINATE SYSTEM: NAD 1983 STATEPLANE
 GEORGIA WEST FIPS 1002 FEET

Georgia Power
 PLANT YATES AP-3, A, B, B', AND R6 CCR LANDFILL
 NEWNAN, GA
 2023 SEMIANNUAL GROUNDWATER MONITORING
 AND CORRECTIVE ACTION REPORT

SITE LOCATION MAP

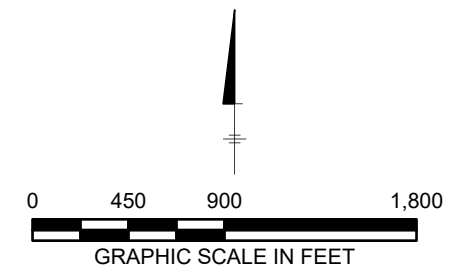
ARCADIS | **FIGURE 1**



LEGEND

- SAPROLITE DETECTION MONITORING WELL LOCATION
- TRANSITION DETECTION MONITORING WELL LOCATION
- BEDROCK DETECTION MONITORING WELL LOCATION
- SAPROLITE ASSESSMENT WELL/PIEZOMETER
- TRANSITION ASSESSMENT WELL/PIEZOMETER
- BEDROCK ASSESSMENT WELL/PIEZOMETER
- PERMITTED UNIT BOUNDARY
- AREA WHERE ASH HAS BEEN CERTIFIED REMOVED AS OF 8/31/2023

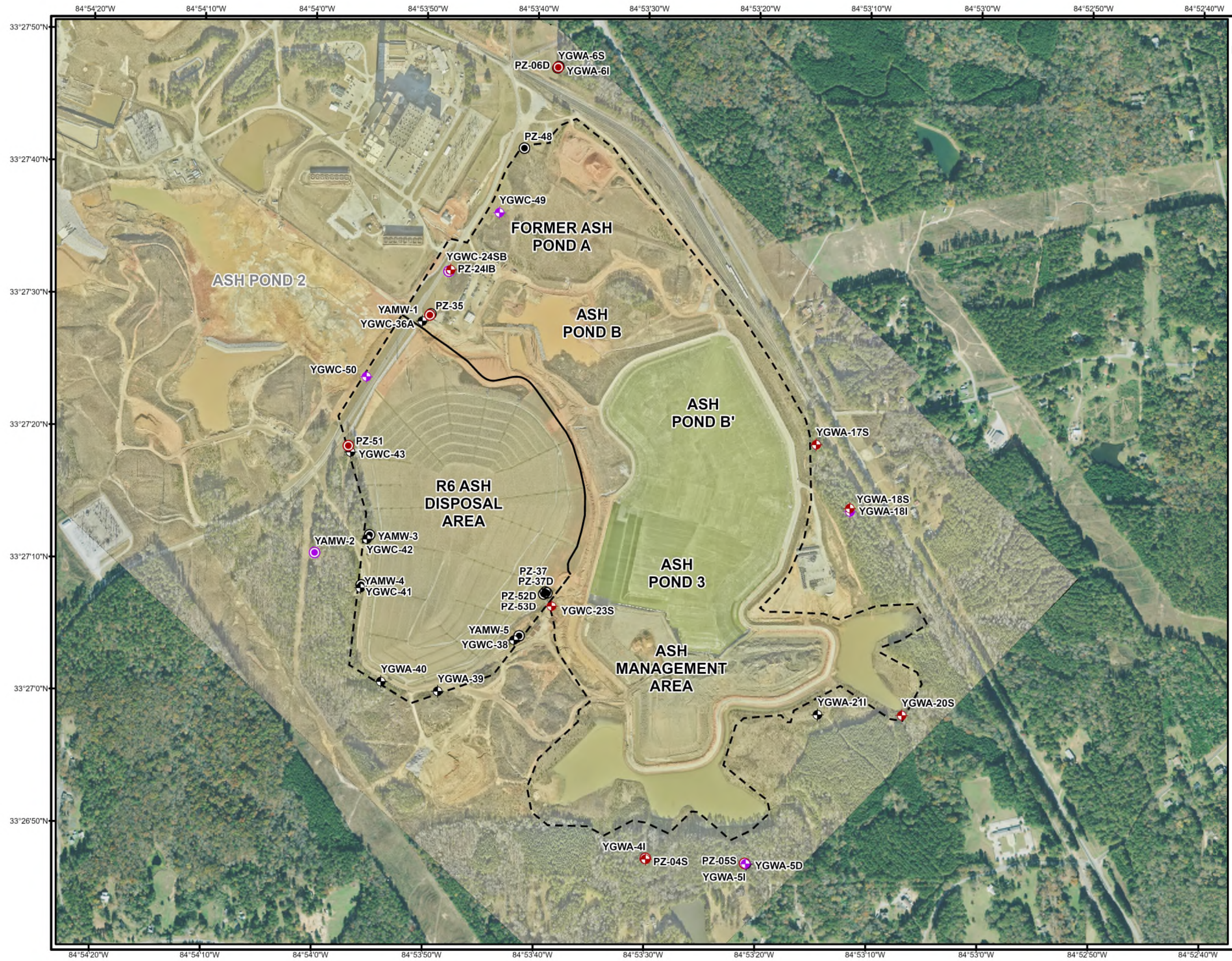
NOTE:
 AERIAL IMAGE SOURCES: JANUARY 2023 IMAGERY FLOWN AND PROCESSED BY SAM LLC; NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP) 2021 IMAGERY.



COORDINATE SYSTEM: NAD 1983 STATEPLANE GEORGIA WEST FIPS 1002 FEET

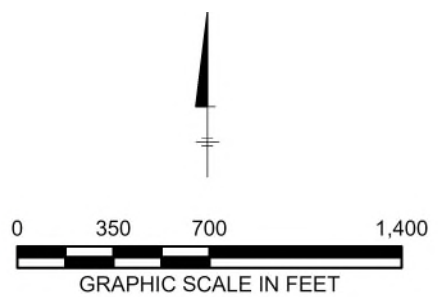
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 NEWNAN, GA
 2023 SEMIANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

PLANT YATES CCR REMOVAL AREAS



- LEGEND**
- PERMITTED UNIT BOUNDARY
 - SAPROLITE DETECTION MONITORING WELL LOCATION
 - TRANSITION DETECTION MONITORING WELL LOCATION
 - BEDROCK DETECTION MONITORING WELL LOCATION
 - SAPROLITE ASSESSMENT WELL/PIEZOMETER
 - TRANSITION ASSESSMENT WELL/PIEZOMETER
 - BEDROCK ASSESSMENT WELL/PIEZOMETER

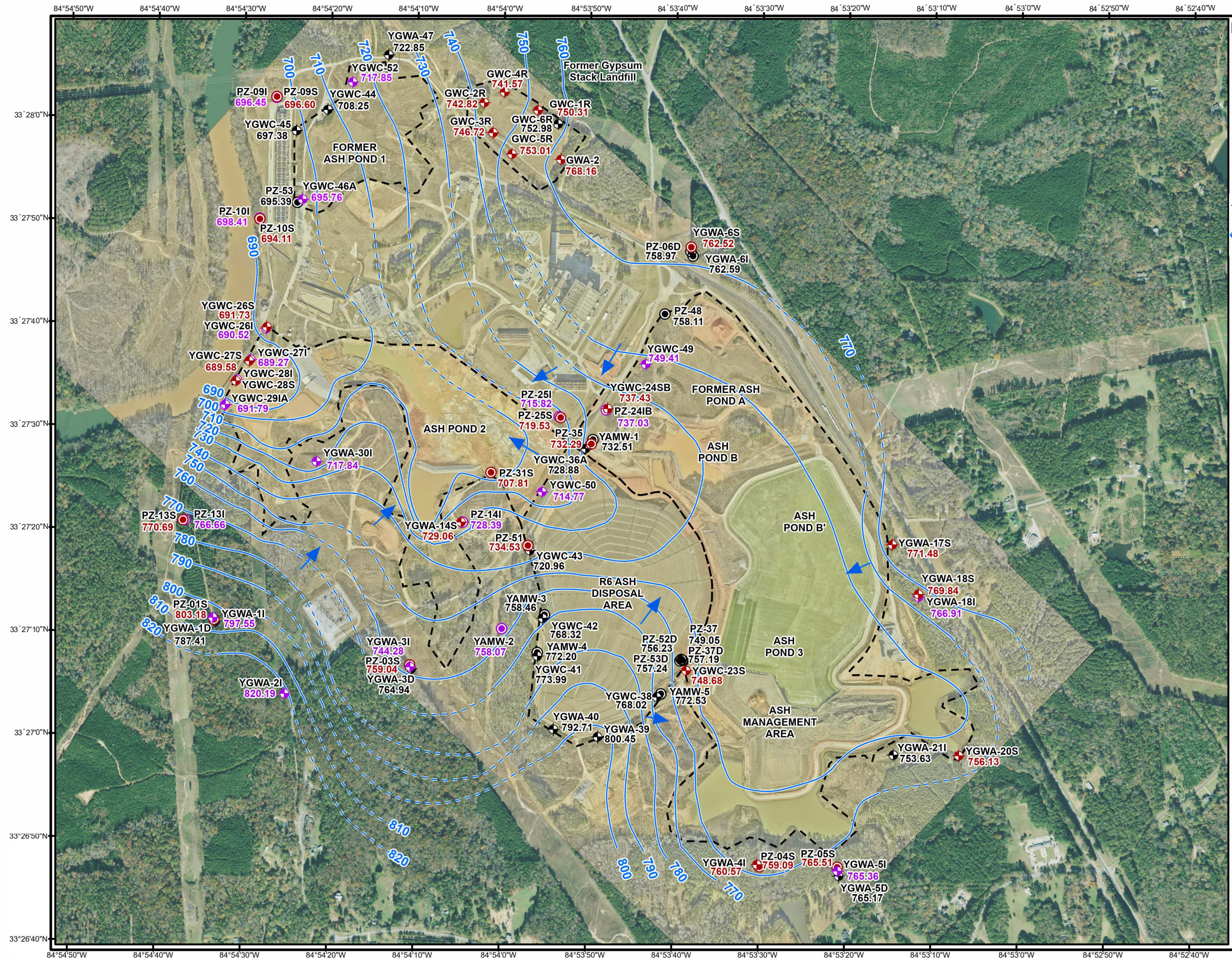
NOTE:
 AERIAL IMAGE SOURCES: JANUARY 2023 IMAGERY FLOWN AND PROCESSED BY SAM LLC; NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP) 2021 IMAGERY.



COORDINATE SYSTEM: NAD 1983 STATEPLANE
 GEORGIA WEST FIPS 1002 FEET

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 2023 SEMIANNUAL GROUNDWATER MONITORING
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WELL LOCATION MAP

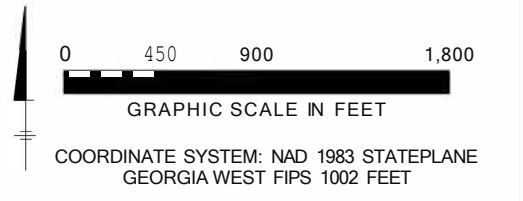


LEGEND

- SAPROLITE DETECTION MONITORING WELL LOCATION
- TRANSITION DETECTION MONITORING WELL LOCATION
- BEDROCK DETECTION MONITORING WELL LOCATION
- SAPROLITE ASSESSMENT WELL/PIEZOMETER
- TRANSITION ASSESSMENT WELL/PIEZOMETER
- BEDROCK ASSESSMENT WELL/PIEZOMETER
- PERMITTED UNIT BOUNDARY
- APPROXIMATE POTENTIOMETRIC CONTOUR (FEET) DASHED WHERE INFERRED
- GROUNDWATER FLOW DIRECTION

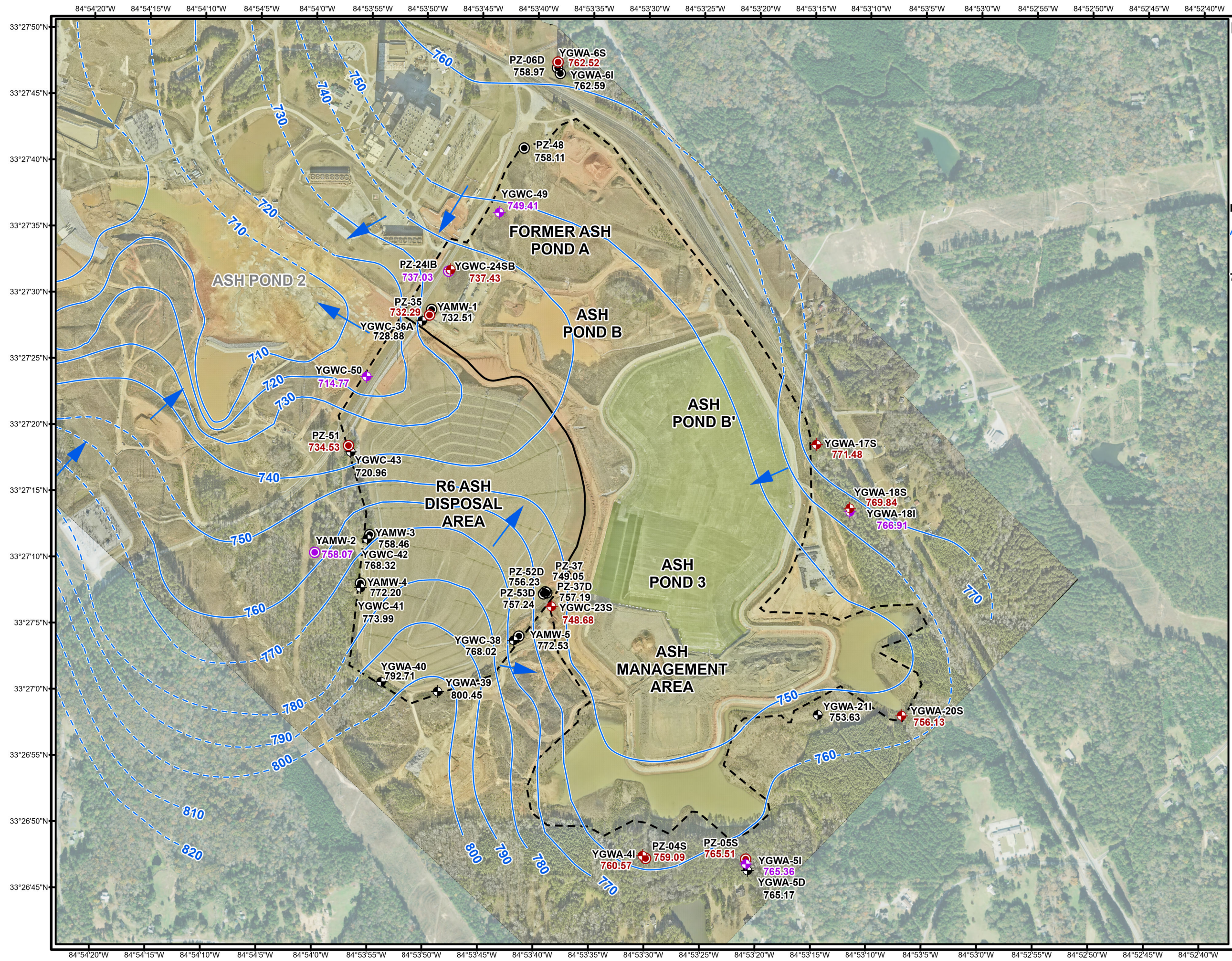
757.11 GROUNDWATER ELEVATION (FEET)

- NOTES:**
1. SHALLOW GROUNDWATER ELEVATIONS ARE DERIVED FROM SOIL COMPRISED OF SAPROLITE, RANGING FROM 15 - 60 FEET BELOW GROUND SURFACE.
 2. BEDROCK WELLS YGWA-40, YGWA-39, YGWC-38, YGWA-41, YGWC-42 USED FOR CONTOURING. ALL OTHER BEDROCK WELLS NOT USED TO CREATE CONTOURS.
 3. SAPROLITE WELL GROUNDWATER ELEVATIONS WERE USED FOR CONTOURING FOR SAPROLITE/TRANSITION ZONE/BEDROCK WELL CLUSTER LOCATIONS.
 4. AERIAL IMAGE SOURCES: JANUARY 2023 IMAGERY FLOWN AND PROCESSED BY SAM LLC; NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP) 2021 IMAGERY.
 5. ELEVATION IS PRESENTED IN U.S. SURVEY FEET (NAVD 1988).
 6. GROUNDWATER ELEVATIONS COLLECTED ON FEBRUARY 6, 2023.
 7. YGWC-28S AND YGWC-28I WERE INACCESSIBLE DURING THE GAUGING EVENT DUE TO SURROUNDING CONSTRUCTION ACTIVITIES AND RAILINGS FOR WELL ACCESS WELL HAD NOT BEEN CONSTRUCTED.



Georgia Power
 PLANT YATES AP-3, A, B, B', AND R6 CCR LANDFILL
 NEWNAN, GA
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SITEWIDE GROUNDWATER ELEVATION MAP FEBRUARY 2023

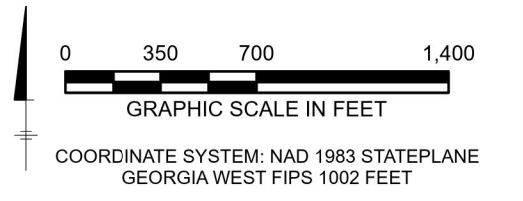


LEGEND

- SAPROLITE DETECTION MONITORING WELL LOCATION
- TRANSITION DETECTION MONITORING WELL LOCATION
- BEDROCK DETECTION MONITORING WELL LOCATION
- SAPROLITE ASSESSMENT WELL/PIEZOMETER
- TRANSITION ASSESSMENT WELL/PIEZOMETER
- BEDROCK ASSESSMENT WELL/PIEZOMETER
- PERMITTED UNIT BOUNDARY
- APPROXIMATE POTENTIOMETRIC CONTOUR (FEET) DASHED WHERE INFERRED
- GROUNDWATER FLOW DIRECTION

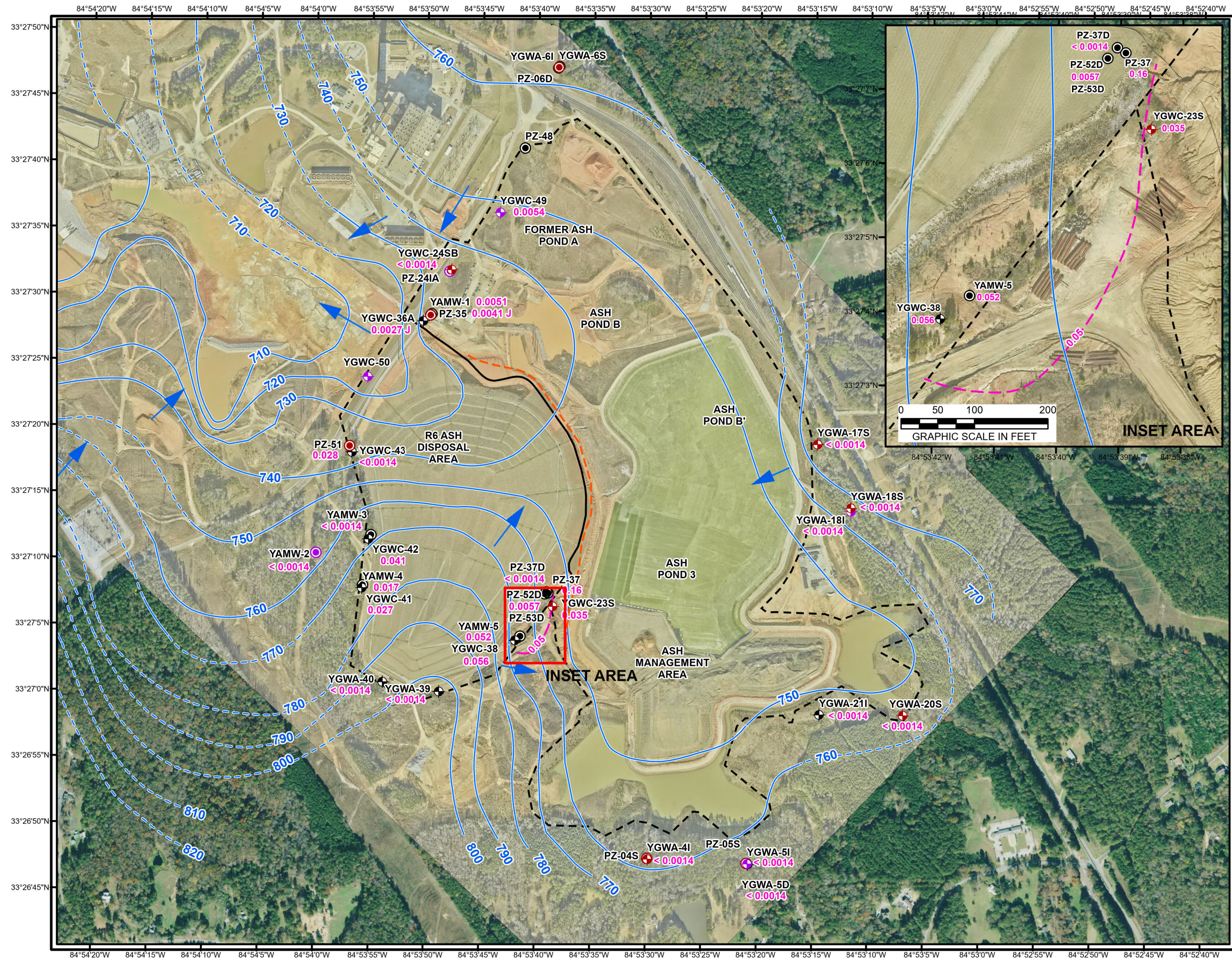
757.11 GROUNDWATER ELEVATION (FEET)

- NOTES:**
1. SHALLOW GROUNDWATER ELEVATIONS ARE DERIVED FROM SOIL COMPRISED OF SAPROLITE, RANGING FROM 15 - 60 FEET BELOW GROUND SURFACE.
 2. BEDROCK WELLS YGWA-40, YGWA-39, YGWC-38, YGWA-41, YGWC-42 USED FOR CONTOURING. ALL OTHER BEDROCK WELLS NOT USED TO CREATE CONTOURS.
 3. SAPROLITE WELL GROUNDWATER ELEVATIONS WERE USED FOR CONTOURING FOR SAPROLITE/TRANSITION ZONE/BEDROCK WELL CLUSTER LOCATIONS.
 4. AERIAL IMAGE SOURCES: JANUARY 2023 IMAGERY FLOWN AND PROCESSED BY SAM LLC; NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP) 2021 IMAGERY.
 5. ELEVATION IS PRESENTED IN U.S. SURVEY FEET (NAVD 1988).
 6. GROUNDWATER ELEVATIONS COLLECTED ON FEBRUARY 6, 2023.



Georgia Power
 PLANT YATES AP-3, A, B, B', AND R6 CCR LANDFILL
 NEWNAN, GA
 2023 SEMIANNUAL GROUNDWATER MONITORING
 AND CORRECTIVE ACTION REPORT

**GROUNDWATER ELEVATION MAP
 FEBRUARY 2023**



LEGEND

- SAPROLITE DETECTION MONITORING WELL LOCATION
- TRANSITION DETECTION MONITORING WELL LOCATION
- BEDROCK DETECTION MONITORING WELL LOCATION
- SAPROLITE ASSESSMENT WELL/PIEZOMETER
- TRANSITION ASSESSMENT WELL/PIEZOMETER
- BEDROCK ASSESSMENT WELL/PIEZOMETER
- PERMITTED UNIT BOUNDARY
- APPROXIMATE POTENTIOMETRIC CONTOUR (FEET) DASHED WHERE INFERRED
- GROUNDWATER FLOW DIRECTION
- ENGINEERING MEASURE, SUBSURFACE DRAIN
- SELENIUM ISOCONTOUR LINE (DASHED WHERE INFERRED)

SELENIUM GROUNDWATER PROTECTION STANDARD VALUE = 0.050 mg/L

0.046 SELENIUM CONCENTRATION VALUES (mg/L)

- ### NOTES:
1. RESULTS ARE PROVIDED IN MILLIGRAMS PER LITER (mg/L)
 2. J = ESTIMATED VALUE
 3. SAMPLES WERE COLLECTED ON FEBRUARY 7-10, 2023.
 4. APPROXIMATE POTENTIOMETRIC CONTOURS DATED FEBRUARY 6, 2023.
 5. AERIAL IMAGE SOURCES: AUGUST 30, 2022 IMAGERY FLOWN AND PROCESSED BY SAM LLC; NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP) 2021 IMAGERY.

0 350 700 1,400
GRAPHIC SCALE IN FEET

COORDINATE SYSTEM: NAD 1983 STATEPLANE GEORGIA WEST FIPS 1002 FEET

Georgia Power
PLANT YATES AP-3, A, B, B', AND R6 CCR LANDFILL
NEWNAN, GA
2023 SEMIANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

SELENIUM ISOCONCENTRATION MAP, FEBRUARY 2023

Appendix A

Field Sampling and Well Inspection Forms

February 2023 Daily Calibration Log

Project Plant Yates

Field Staff: Mark Chest/ Jessica Ware/Jake Swanson/ Kim Lapszynski

Instrument Calibration

Date: 02/07/2023 Initial

Parameter	Units	Standard	SmarTROLL SN 685779 (Mark Chest)	SmarTROLL SN 518784 (Jessica Ware)	SmarTROLL SN 811076 (Kim Lapszynski)	SmarTROLL SN 959867 (Jake Swanson)
DO	% saturation	100	100	100	100	100
Conductivity	µs/cm	1413/ 7160/ 8000	1413	7160	7160	8000
pH	S.U.	4.00	4.00	4.00	4.00	4.00
pH	S.U.	7.00	7.00	7.06	7.06	7.06
pH	S.U.	10.00	10.00	10.14	10.00	10.14
ORP	mV	220.0	231.8	220.0	220.0	220.0

Parameter	Units	Standard	LaMotte 2020we (Mark Chest)	LaMotte 2020we (Jessica Ware)	LaMotte 2020we (Kim Lapszynski)	LaMotte 2020we (Jake Swanson)
Turbidity	NTU	10	9.88	9.95	8.86	10.01

Date: 02/07/2023 Time: Midday

Parameter	Units	Standard	SmarTROLL SN 685779 (Mark Chest)	SmarTROLL SN 518784 (Jessica Ware)	SmarTROLL SN 811076 (Kim Lapszynski)	SmarTROLL SN 959867 (Jake Swanson)
DO	% saturation	100	100	100	100	100
Conductivity	µs/cm	1413/ 7160/ 8000	1413	1409	7160	8000
pH	S.U.	4.00	4.00	4.00	4.00	4.00
pH	S.U.	7.00	7.00	7.00	7.00	7.02
pH	S.U.	10.00	10.00	10.00	10.05	10.05
ORP	mV	220.0	231.8	220.0	220.0	220.0

Parameter	Units	Standard	LaMotte 2020we (Mark Chest)	LaMotte 2020we (Jessica Ware)	LaMotte 2020we (Kim Lapszynski)	LaMotte 2020we (Jake Swanson)
Turbidity	NTU	10	9.78	9.92	9.53	10.00

Notes:

DO - Dissolved Oxygen; us/cm - microsiemens/centimeter; ORP - oxidation-reduction potential; mV - millivolts; NTU - Nephelometric Turbidity Units; NC - Not calibrated

February 2023 Daily Calibration Log

Project Plant Yates

Field Staff: Mark Chest/ Jessica Ware/Jake Swanson/ Kim Lapszynski

Instrument Calibration

Date: 02/08/2023 Initial

Parameter	Units	Standard	SmarTROLL SN 685779 (Mark Chest)	SmarTROLL SN 518784 (Jessica Ware)	SmarTROLL SN 811076 (Kim Lapszynski)	SmarTROLL SN 959867 (Jake Swanson)
DO	% saturation	100	100	100	100	100
Conductivity	µs/cm	1413	1413	1409	1409	1409
pH	S.U.	4.00	4.00	4.00	4.00	4.00
pH	S.U.	7.00	7.02	7.04	7.04	7.02
pH	S.U.	10.00	10.05	10.05	10.11	10.05
ORP	mV	220.0	238.3	220.0	220.0	220.0

Parameter	Units	Standard	LaMotte 2020we (Mark Chest)	LaMotte 2020we (Jessica Ware)	LaMotte 2020we (Kim Lapszynski)	LaMotte 2020we (Jake Swanson)
Turbidity	NTU	10	9.98	10.08	9.96	10.00

Date: 02/08/2023 Time: Midday

Parameter	Units	Standard	SmarTROLL SN 685779 (Mark Chest)	SmarTROLL SN 518784 (Jessica Ware)	SmarTROLL SN 811076 (Kim Lapszynski)	SmarTROLL SN 959867 (Jake Swanson)
DO	% saturation	100	100	100	100	100
Conductivity	µs/cm	1413	1413	1409	1409	1409
pH	S.U.	4.00	4.00	4.00	4.00	4.00
pH	S.U.	7.00	7.00	7.00	7.02	7.02
pH	S.U.	10.00	10.00	10.00	10.05	10.05
ORP	mV	220.0	231.0	220.0	220.0	220.0

Parameter	Units	Standard	LaMotte 2020we (Mark Chest)	LaMotte 2020we (Jessica Ware)	LaMotte 2020we (Kim Lapszynski)	LaMotte 2020we (Jake Swanson)
Turbidity	NTU	10	9.87	9.96	9.46	10.02

Notes:

DO - Dissolved Oxygen; us/cm - microsiemens/centimeter; ORP - oxidation-reduction potential; mV - millivolts; NTU - Nephelometric Turbidity Units; NC - Not calibrated

February 2023 Daily Calibration Log

Project Plant Yates

Field Staff: Mark Chest/ Jessica Ware/Jake Swanson/ Kim Lapszynski

Instrument Calibration

Date: 02/09/2023 Initial

Parameter	Units	Standard	SmarTROLL SN 685779 (Mark Chest)	SmarTROLL SN 518784 (Jessica Ware)	SmarTROLL SN 811076 (Kim Lapszynski)	SmarTROLL SN 959867 (Jake Swanson)
DO	% saturation	100	100	100	100	100
Conductivity	µs/cm	1413	1413	1409	1409	1409
pH	S.U.	4.00	4.00	4.00	4.00	4.00
pH	S.U.	7.00	7.02	7.00	7.02	7.02
pH	S.U.	10.00	10.05	10.00	10.11	10.05
ORP	mV	220.0	237.2	220.0	220.0	220.0

Parameter	Units	Standard	LaMotte 2020we (Mark Chest)	LaMotte 2020we (Jessica Ware)	LaMotte 2020we (Kim Lapszynski)	LaMotte 2020we (Jake Swanson)
Turbidity	NTU	10	9.79	9.97	9.05	9.98

Date: 02/09/2023 Time: Midday

Parameter	Units	Standard	SmarTROLL SN 685779 (Mark Chest)	SmarTROLL SN 518784 (Jessica Ware)	SmarTROLL SN 811076 (Kim Lapszynski)	SmarTROLL SN 959867 (Jake Swanson)
DO	% saturation	100	100	100	100	100
Conductivity	µs/cm	1413	1413	1409	1409	1409
pH	S.U.	4.00	4.00	4.01	4.00	4.00
pH	S.U.	7.00	7.02	7.02	7.02	7.02
pH	S.U.	10.00	10.05	10.05	10.05	10.05
ORP	mV	220.0	233.4	220.0	220.0	220.0

Parameter	Units	Standard	LaMotte 2020we (Mark Chest)	LaMotte 2020we (Jessica Ware)	LaMotte 2020we (Kim Lapszynski)	LaMotte 2020we (Jake Swanson)
Turbidity	NTU	10	9.83	9.96	9.54	10.00

Notes:

DO - Dissolved Oxygen; us/cm - microsiemens/centimeter; ORP - oxidation-reduction potential; mV - millivolts; NTU - Nephelometric Turbidity Units; NC - Not calibrated

February 2023 Daily Calibration Log

Project Plant Yates

Field Staff: Mark Chest/ Jessica Ware/Jake Swanson/ Kim Lapszynski

Instrument Calibration

Date: 02/10/2023 Initial

Parameter	Units	Standard	SmarTROLL SN 685779 (Mark Chest)	SmarTROLL SN 518784 (Jessica Ware)	SmarTROLL SN 811076 (Kim Lapszynski)
DO	% saturation	100	100	100	100
Conductivity	µs/cm	1413	1413	1409	1409
pH	S.U.	4.00	4.00	4.00	4.01
pH	S.U.	7.00	7.02	7.04	7.04
pH	S.U.	10.00	10.11	10.11	10.11
ORP	mV	220.0	237.7	220.0	243.6

Parameter	Units	Standard	LaMotte 2020we (Mark Chest)	LaMotte 2020we (Jessica Ware)	LaMotte 2020we (Kim Lapszynski)
Turbidity	NTU	10	9.90	9.97	9.00

Notes:

DO - Dissolved Oxygen; us/cm - microsiemens/centimeter; ORP - oxidation-reduction potential; mV - millivolts; NTU - Nephelometric Turbidity Units; NC - Not calibrated

Client:		Georgia Power			
Project Location:		AMA AP-3, A, B and B'			
Date:		2/6/2023			
Sampler:		Kim Lapszynski			
Equipment:		water probe			
Well	Date	Time	Depth to Water (ft)	Well Depth (ft)	Comments
YGWA-6I	2/6/2023	09:01:00	20.14	69.03	--
YGWA-6S	2/6/2023	09:08:00	19.95	39.87	--
PZ-06D	2/6/2023	09:09:00	23.05	134.02	--
YGWA-20S	2/6/2023	09:22:00	10.99	29.52	--
YGWA-21I	2/6/2023	09:29:00	30.07	79.90	--
YGWA-5D	2/6/2023	09:38:00	19.36	129.13	--
YGWA-5I	2/6/2023	09:40:00	19.18	58.94	--
PZ-05S	2/6/2023	09:41:00	19.13	41.94	--
YGWA-4I	2/6/2023	09:49:00	23.64	48.81	--
PZ-04S	2/6/2023	09:50:00	25.16	33.33	--
PZ-48	2/6/2023	10:05:00	21.72	58.73	--
YGWA-18S	2/6/2023	10:17:00	20.73	39.97	--
YGWA-18I	2/6/2023	10:18:00	23.66	79.97	--
YGWA-17S	2/6/2023	10:41:00	11.57	39.85	--
PZ-37D	2/6/2023	12:04:00	3.93	202.44	--
YGWC-23S	2/6/2023	12:16:00	16.23	38.91	--
PZ-35	2/6/2023	12:52:00	11.52	50.01	--
YAMW-1	2/6/2023	12:54:00	11.32	69.93	--
PZ-24IB	2/6/2023	13:02:00	27.89	73.42	--
YGWC-24SB	2/6/2023	13:05:00	27.46	57.79	--
YGWC-49	2/6/2023	13:20:00	33.32	78.53	--

Client:		Georgia Power			
Project Location:		AMA R6 CCR Landfill			
Date:		2/6/2023			
Sampler:		Kim Lapszynski			
Equipment:		water probe			
Well	Date	Time	Depth to Water (ft)	Well Depth (ft)	Comments
YAMW-3	2/6/2023	11:25:00	37.59	91.44	--
YGWC-42	2/6/2023	11:30:00	29.54	59.76	--
YAMW-2	2/6/2023	11:37:00	22.97	46.48	--
YAMW-4	2/6/2023	11:42:00	33.39	96.55	--
YGWC-41	2/6/2023	11:45:00	29.93	67.32	--
YGWA-40	2/6/2023	11:51:00	23.02	48.23	--
PZ-37	2/6/2023	11:57:00	11.73	49.78	--
PZ-52D	2/6/2023	12:05:00	6.56	92.00	--
PZ-53D	2/6/2023	12:07:00	5.56	160.00	--
YAMW-5	2/6/2023	12:22:00	16.37	90.34	--
YGWC-38	2/6/2023	12:25:00	31.67	50.59	--
YGWA-39	2/6/2023	12:35:00	17.74	68.59	--
YGWC-43	2/6/2023	12:42:00	24.00	79.66	--
PZ-51	2/6/2023	12:45:00	9.77	36.00	--
YGWC-36A	2/6/2023	12:58:00	10.73	51.20	--
YGWC-50 - GAUGE ONLY	2/6/2023	13:36:00	15.01	39.28	--

Groundwater Sampling Form

Updated : 2/9/2023 11:24:09 AM
-05:00

Project Number	30053438	Well ID	YGWA-18I	Date	02/07/2023		
Project Location	AMA AP-3, A, B and B'		Weather(°F)				
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	69.67	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	23.65	Total Depth (ft-bmp)	79.97	Water Column(ft)	56.32	Gallons in Well	9.15
MP Elevation	790.57	Pump Intake (ft-bmp)	75	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	12:31	Well Volumes Purged	0.19	Sample ID	YAT-YGWA-18I	Sampled by	Jessica Ware
Purge Start	12:03	Gallons Purged	1.70	Replicate/ Code No.		Color	Clear
Purge End	12:29						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
12:03:00	00:00	250	23.64	6.38	91.69		8.15	14.9	131.80
12:08:00	05:00	200	23.88	5.88	92.66	1.25	3.62	16.5	140.78
12:13:00	10:00	200	23.95	6.01	92.41	0.75	3.71	16.5	132.73
12:18:00	15:00	200	23.99	5.96	92.68	1.02	3.75	16.5	134.27
12:23:00	20:00	200	24.02	5.99	92.58	0.84	3.84	16.5	132.13
12:28:00	25:00	200	24.01	6.00	92.04	1.19	3.95	16.6	131.37

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
Cations, Metals	250 mL Plastic	1	HNO3
Alk	250 mL Plastic	1	None
Cl, F, SO4	250 mL Plastic	1	None
TDS	500 mL Plastic	1	None

Comments: None

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____ Well Locked at Arrival: _____
 Condition of Well: _____ Well Locked at Departure: _____
 Well Completion: NA _____ Key Number To Well: NA _____

Groundwater Sampling Form

Updated : 2/9/2023 11:24:10 AM
-05:00

Project Number	30053438	Well ID	YGWA-18S	Date	02/07/2023		
Project Location	AMA AP-3, A, B and B'		Weather(°F)	61.7 degrees F and Clear. The wind is blowing S/SE at 6.9 mph.			
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	29.97	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	23.68	Total Depth (ft-bmp)	39.97	Water Column(ft)	16.29	Gallons in Well	2.65
MP Elevation	790.57	Pump Intake (ft-bmp)	35	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	13:48	Well Volumes Purged	0.50	Sample ID	YAT-YGWA-18S	Sampled by	Jessica Ware
Purge Start	13:19	Gallons Purged	1.32	Replicate/ Code No.		Color	Clear
Purge End	13:46						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
13:19:00	00:00	200	23.68	5.10	43.69	3.74	3.86	17.3	145.49
13:24:00	05:00	200	21.82	4.92	43.52	2.39	2.61	17.1	158.84
13:29:00	10:00	200	21.8	5.03	43.25	2.38	2.44	17.1	154.87
13:34:00	15:00	200	21.81	5.06	43.33	1.95	2.41	16.9	153.86
13:39:00	20:00	200	21.84	5.09	43.36	2.02	2.41	16.9	153.40
13:44:00	25:00	200	21.84	5.03	43.24	1.68	2.40	17.0	156.56

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
Cations, Metals	250 mL Plastic	1	HNO3
Cl, F, SO4	250 mL Plastic	1	None
Alkalinity	250 mL Plastic	1	None
TDS	500 mL Plastic	1	None

Comments: None

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot
 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
 1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____	Well Locked at Arrival: _____
Condition of Well: _____	Well Locked at Departure: _____
Well Completion: NA _____	Key Number To Well: NA _____

Groundwater Sampling Form

Updated : 2/9/2023 11:24:11 AM
-05:00

Project Number	30053438	Well ID	YGWA-39	Date	02/07/2023
Project Location	AMA R6 CCR Landfill		Weather(°F)	68.2 degrees F and Clear. The wind is blowing S/SW at 5.8 mph.	
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	58.09	Casing Diameter (in)	2
				Well Casing Material	PVC
Static Water Level (ft-bmp)	17.61	Total Depth (ft-bmp)	68.59	Water Column(ft)	50.98
				Gallons in Well	8.28
MP Elevation	818.19	Pump Intake (ft-bmp)	63	Purge Method	Low-Flow
				Sample Method	Low-Flow
Sample Time	16:15	Well Volumes Purged	0.15	Sample ID	YAT-YGWA-39
				Sampled by	Jessica Ware
Purge Start	15:51	Gallons Purged	1.27	Replicate/ Code No.	
				Color	Clear
Purge End	16:12				

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
15:51:00	00:00	200	17.9	7.65	379.53	2.10	8.19	20.7	183.56
15:56:00	05:00	200	17.98	5.63	365.82	1.03	0.25	18.6	71.36
16:01:00	10:00	200	18.02	5.51	364.28	0.88	0.17	18.4	89.50
16:06:00	15:00	200	18.08	5.48	362.22	0.65	0.21	18.2	80.24
16:11:00	20:00	200	18.04	5.49	358.41	0.73	0.19	18.2	82.59

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
Cations, Metals	250 mL Plastic	1	HNO3
TDS	500 mL Plastic	1	None
Alkalinity	250 mL Plastic	1	None
Cl, F, SO4	250 mL Plastic	1	None

Comments: Missing labels, some handwritten

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
 1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____	Well Locked at Arrival: _____
Condition of Well: _____	Well Locked at Departure: _____
Well Completion: NA	Key Number To Well: NA

Groundwater Sampling Form

Updated : 2/9/2023 11:24:11 AM
-05:00

Project Number	30053438	Well ID	PZ-37	Date	02/08/2023		
Project Location	AMA R6 CCR Landfill		Weather(°F)	57.2 degrees F and Cloudy. The wind is blowing S/SE at 4.7 mph.			
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	39.28	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	11.73	Total Depth (ft-bmp)	49.78	Water Column(ft)	38.05	Gallons in Well	6.18
MP Elevation	760.78	Pump Intake (ft-bmp)	45	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	09:46	Well Volumes Purged	0.21	Sample ID	YAT-PZ-37	Sampled by	Jessica Ware
Purge Start	09:22	Gallons Purged	1.27	Replicate/ Code No.	YAT-AMA-FD-3	Color	Clear
Purge End	09:43						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
09:22:00	00:00	200	11.92	5.28	954.09	1.19	3.56	16.8	191.84
09:27:00	05:00	200	11.94	5.22	952.70	1.09	3.47	16.8	192.75
09:32:00	10:00	200	11.94	5.19	950.97	0.87	3.42	16.8	192.89
09:37:00	15:00	200	11.91	5.16	952.56	0.90	3.29	16.9	199.36
09:42:00	20:00	200	11.95	5.15	953.88	0.98	3.31	17.0	202.05

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	4	HNO3
Cations ,Metals	250 mL Plastic	2	HNO3
TDS	500 mL Plastic	2	None
Alkalinity	250 mL Plastic	2	None
Cl, F, SO4	250 mL Plastic	2	None

Comments: None

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____ Well Locked at Arrival: _____
 Condition of Well: _____ Well Locked at Departure: _____
 Well Completion: NA _____ Key Number To Well: NA _____

Groundwater Sampling Form



Updated : 2/9/2023 11:24:12 AM
-05:00

Project Number 30053438 **Well ID** PZ-52D **Date** 02/08/2023

Project Location AMA R6 CCR Landfill **Weather(°F)**

Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	82	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	6.58	Total Depth (ft-bmp)	92	Water Column(ft)	85.42	Gallons in Well	13.88
MP Elevation	762.79	Pump Intake (ft-bmp)	87	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	11:16	Well Volumes Purged	0.11	Sample ID	YAT-PZ-52D	Sampled by	Jessica Ware
Purge Start	10:38	Gallons Purged	1.49	Replicate/ Code No.		Color	Clear

Purge End 11:14

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
10:38:00	00:00	250	7.45	6.24	681.76		0.64	17.7	-112.01
10:43:00	05:00	250	8.02	6.19	687.87	1.91	0.29	17.5	-135.59
10:48:00	10:00	200	9.09	6.20	689.00	1.61	0.22	17.6	-145.51
10:53:00	15:00	100	9.23	6.19	688.64	1.94	0.27	17.9	-148.15
10:58:00	20:00	100	9.45	6.11	696.90	1.40	0.26	18.0	-138.19
11:03:00	25:00	75	9.66	6.12	696.30	1.42	0.23	17.9	-137.23
11:08:00	30:00	75	9.64	6.13	696.31	1.23	0.25	18.4	-140.68
11:13:00	35:00	75	9.67	6.12	695.38	1.02	0.30	18.1	-138.61

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
Cations, Metals	250 mL Plastic	1	HNO3
Alkalinity	250 mL Plastic	1	None
Cl, F, SO4	250 mL Plastic	1	None
TDS	500 mL Plastic	1	None

Comments: None

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____	Well Locked at Arrival: _____
Condition of Well: _____	Well Locked at Departure: _____
Well Completion: NA _____	Key Number To Well: NA _____

Groundwater Sampling Form

Updated : 2/9/2023 11:24:13 AM
-05:00

Project Number 30053438 **Well ID** YGWC-42 **Date** 02/08/2023

Project Location AMA R6 CCR Landfill **Weather(°F)**

Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	49.36	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	29.45	Total Depth (ft-bmp)	59.76	Water Column(ft)	30.31	Gallons in Well	4.93
MP Elevation	797.86	Pump Intake (ft-bmp)	55	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	17:36	Well Volumes Purged	0.32	Sample ID	YAT-YGWC-42	Sampled by	Jessica Ware
Purge Start	16:37	Gallons Purged	1.59	Replicate/ Code No.		Color	Clear
Purge End	17:34						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
16:37:00	00:00	100	29.8	5.90	975.61	2.25	7.73	19.0	145.92
16:42:00	05:00	100	30.52	5.41	1032.24	1.08	2.20	19.1	99.29
16:47:00	10:00	100	30.78	5.35	1026.91	1.69	1.39	19.3	116.64
16:52:00	15:00	100	30.83	5.37	1024.15	1.75	1.51	19.8	141.85
16:57:00	20:00	100	30.71	5.39	1026.75	0.88	1.27	19.5	138.75
17:02:00	25:00	100	30.82	5.43	1023.71	0.90	1.20	19.3	136.85
17:07:00	30:00	100	31.02	5.43	1018.94	0.88	1.12	19.2	137.68
17:12:00	35:00	100	31.05	5.45	1018.33	0.70	1.30	19.5	247.70
17:17:00	40:00	100	31.06	5.48	1008.67	0.98	1.43	19.5	365.59
17:22:00	45:00	100	31.21	5.48	1004.29	0.66	1.23	19.2	376.52
17:27:00	50:00	100	31.32	5.48	1004.86	0.61	1.21	18.8	290.86
17:32:00	55:00	100	31.42	5.48	1005.33	0.94	1.20	18.8	258.34

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
Cations, Metals	250 mL Plastic	1	HNO3
TDS	500 mL Plastic	1	None
Cl, F, SO4	250 mL Plastic	1	None
Alkalinity	250 mL Plastic	1	None

Comments: None

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____

Well Locked at Arrival: _____

Groundwater Sampling Form

Updated : 2/9/2023 1:11:52 PM - 05:00

Project Number	30053438	Well ID	YAMW-3	Date	02/09/2023		
Project Location	AMA R6 CCR Landfill		Weather(°F)	60.1 degrees F and Light Drizzle. The wind is blowing S at 13.9 mph.			
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	81.45	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	37.42	Total Depth (ft-bmp)	91.44	Water Column(ft)	54.02	Gallons in Well	8.78
MP Elevation	796.05	Pump Intake (ft-bmp)	86	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	11:17	Well Volumes Purged	0.16	Sample ID	YAT-YAMW-3	Sampled by	Jessica Ware
Purge Start	10:29	Gallons Purged	1.39	Replicate/ Code No.		Color	Clear
Purge End	11:15						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
10:29:00	00:00	125	38.46	5.98	1108.95	8.25	3.59	16.9	105.90
10:34:00	05:00	125	39.11	5.86	1106.48	6.67	0.84	17.4	67.36
10:39:00	10:00	100	39.32	5.86	1103.79	5.88	0.73	17.4	60.19
10:44:00	15:00	100	39.55	5.87	1099.55	5.75	0.82	17.4	50.07
10:49:00	20:00	100	39.88	5.87	1092.94	5.11	0.84	17.6	36.30
10:54:00	25:00	100	39.92	5.88	1085.82	4.86	0.93	17.6	25.35
10:59:00	30:00	100	40.04	5.87	1083.93	4.94	0.95	17.7	18.54
11:04:00	35:00	100	40.19	5.88	1079.34	4.84	0.97	17.7	13.06
11:09:00	40:00	100	40.3	5.88	1064.97	4.91	0.96	17.9	8.26
11:14:00	45:00	100	40.41	5.89	1057.32	4.53	0.96	17.8	5.91

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
Cations, Metals	250 mL Plastic	1	HNO3
TDS	500 mL Plastic	1	None
Cl, F, SO4	250 mL Plastic	1	None
Alkalinity	250 mL Plastic	1	None

Comments: None

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
 1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____	Well Locked at Arrival: _____
Condition of Well: _____	Well Locked at Departure: _____
Well Completion: NA _____	Key Number To Well: NA _____

Groundwater Sampling Form



Updated : 2/9/2023 1:11:53 PM - 05:00

Project Number	30053438	Well ID	YGWC-23S	Date	02/08/2023
Project Location	AMA AP-3, A, B and B'		Weather(°F)	73.9 degrees F and Partly Cloudy. The wind is blowing S at 5.8 mph.	
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	28.61	Casing Diameter (in)	2
				Well Casing Material	PVC
Static Water Level (ft-bmp)	16.2	Total Depth (ft-bmp)	38.91	Water Column(ft)	22.71
				Gallons in Well	3.69
MP Elevation	764.91	Pump Intake (ft-bmp)	34	Purge Method	Low-Flow
				Sample Method	Low-Flow
Sample Time	15:35	Well Volumes Purged		Sample ID	YAT-YGWC-23S
				Sampled by	Jessica Ware
Purge Start	14:58	Gallons Purged		Replicate/ Code No.	
				Color	Clear
Purge End	15:34				

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
14:58:00	00:00	150	16.55	5.98	229.53	1.53	9.24	19.5	128.12
15:03:00	05:00	150	16.62	5.24	227.22	5.15	8.27	19.4	165.18
15:08:00	10:00	100	16.46	5.12	227.11	7.54	7.98	20.4	168.86
15:13:00	15:00	100	16.46	5.12	224.26	6.47	7.81	20.5	168.18
15:18:00	20:00	100	16.47	5.18	222.89	5.28	7.76	20.4	164.35
15:23:00	25:00	100	16.46	5.24	223.03	4.66	7.71	20.8	159.63
15:28:00	30:00	100	16.45	5.31	224.24	4.19	7.69	20.9	155.15
15:33:00	35:00	100	16.5	5.33	219.84	4.29	7.73	20.4	152.61

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
Cations, Metals	250 mL Plastic	1	HNO3
TDS	500 mL Plastic	1	None
Alkalinity	250 mL Plastic	1	None
Cl, F, SO4	250 mL Plastic	1	None

Comments: None

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
 1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____	Well Locked at Arrival: _____
Condition of Well: _____	Well Locked at Departure: _____
Well Completion: NA _____	Key Number To Well: NA _____

Groundwater Sampling Form

Updated : 2/9/2023 7:25:53 PM - 05:00

Project Number	30053438	Well ID	PZ-51	Date	02/09/2023
Project Location	AMA R6 CCR Landfill		Weather(°F)	68.4 degrees F and Cloudy. The wind is blowing S/SW at 11.4 mph.	
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	26.3	Casing Diameter (in)	2
				Well Casing Material	PVC
Static Water Level (ft-bmp)	9.75	Total Depth (ft-bmp)	36	Water Column(ft)	26.25
				Gallons in Well	4.27
MP Elevation	744.3	Pump Intake (ft-bmp)	33	Purge Method	Low-Flow
				Sample Method	Low-Flow
Sample Time	16:01	Well Volumes Purged	0.33	Sample ID	YAT-PZ-51
				Sampled by	Jessica Ware
Purge Start	15:08	Gallons Purged	1.40	Replicate/ Code No.	
				Color	Clear
Purge End	16:00				

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
15:08:00	00:00	100	9.8	5.46	794.43	3.20	4.05	19.1	75.98
15:13:00	05:00	100	9.91	5.10	749.18	3.57	3.05	17.6	145.28
15:18:00	10:00	100	9.93	5.08	750.62	6.82	2.93	17.2	156.28
15:23:00	15:00	100	9.96	5.08	751.82	9.08	2.89	17.1	168.56
15:28:00	20:00	100	9.97	5.10	751.42	8.16	2.88	17.1	176.71
15:33:00	25:00	100	9.96	5.11	752.69	7.56	2.86	17.1	183.62
15:38:00	30:00	100	9.96	5.12	752.85	6.53	2.84	17.2	188.67
15:43:00	35:00	100	9.97	5.13	752.64	5.61	2.82	17.1	192.83
15:48:00	40:00	100	9.95	5.13	752.06	4.72	2.80	17.0	196.57
15:53:00	45:00	100	9.96	5.14	751.25	4.35	2.77	17.0	199.35
15:58:00	50:00	100	9.97	5.14	752.01	3.85	2.76	16.8	201.95

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
Cations, Metals	250 mL Plastic	1	HNO3
TDS	500 mL Plastic	1	None
Alkalinity	250 mL Plastic	1	None
Cl, F, SO4	250 mL Plastic	1	None

Comments: None

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
 1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____ Well Locked at Arrival: _____
 Condition of Well: _____ Well Locked at Departure: _____

Groundwater Sampling Form



Updated : 2/10/2023 10:07:35 AM -05:00

Project Number	30053438	Well ID	YGWA-17S	Date	02/07/2023		
Project Location	AMA AP-3, A, B and B'		Weather(°F)	48.4 degrees F and Clear. The wind is blowing SE at 4.7 mph.			
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	29.65	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	11.65	Total Depth (ft-bmp)	39.85	Water Column(ft)	28.2	Gallons in Well	4.58
MP Elevation	783.05	Pump Intake (ft-bmp)	35	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	11:16	Well Volumes Purged	0.28	Sample ID	YAT-YGWA-17S	Sampled by	Jessica Ware
Purge Start	10:32	Gallons Purged	1.29	Replicate/ Code No.		Color	Clear
Purge End	11:14						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
10:32:00	00:00	100	11.65	5.65	86.52		5.27	15.9	155.52
10:37:00	05:00	125	11.78	5.41	82.66	1.48	3.91	15.0	153.86
10:42:00	10:00	125	11.82	5.43	78.91	1.90	2.46	15.7	140.76
10:47:00	15:00	125	11.81	5.45	79.44	1.46	2.16	15.9	134.12
10:52:00	20:00	125	11.85	5.49	79.91	1.83	2.05	15.9	136.11
10:57:00	25:00	125	11.84	5.47	80.03	1.67	1.96	16.0	136.84
11:02:00	30:00	125	11.83	5.46	79.65	1.76	1.77	16.2	137.74
11:07:00	35:00	125	11.82	5.47	79.68	1.77	1.76	16.2	137.55
11:12:00	40:00	125	11.83	5.47	79.75	1.61	1.75	16.2	139.01

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
App III/IV Metals, Cations	250 mL Plastic	1	HNO3
Alk	250 mL Plastic	1	None
Cl, F, SO4	250 mL Plastic	1	None
TDS	500 mL Plastic	1	None

Comments: None

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
 1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____	Well Locked at Arrival: _____
Condition of Well: _____	Well Locked at Departure: _____
Well Completion: NA	Key Number To Well: NA

Groundwater Sampling Form

Updated : 2/22/2023 10:12:44 AM -05:00

Project Number	30143623	Well ID	YGWA-21I	Date	02/07/2023		
Project Location	AMA AP-3, A, B and B'		Weather(°F)	Sunny, 60's			
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	69.6	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	30.09	Total Depth (ft-bmp)	79.9	Water Column(ft)	49.81	Gallons in Well	8.09
MP Elevation	783.7	Pump Intake (ft-bmp)	75	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	12:48	Well Volumes Purged	0.10	Sample ID	YAT-YGWA-21I	Sampled by	Kim Lapszynski
Purge Start	12:16	Gallons Purged	0.78	Replicate/ Code No.		Color	Clear
Purge End	12:47						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
12:16:00	00:00		30.09	6.99	128.39		1.04	19.8	-5.50
12:21:00	05:00	100	31.96	6.95	146.92	1.95	0.43	17.8	-57.33
12:25:00	09:28	100	32.48	6.87	151.52	1.22	0.23	17.7	-88.28
12:30:00	14:28	100	32.71	6.88	152.10	0.93	0.28	18.8	-104.42
12:35:00	19:28	100	32.96	6.89	151.66	1.02	0.28	18.6	-104.05
12:40:00	24:28	100	33.08	6.86	150.38	0.75	0.34	18.7	-99.55
12:45:00	29:28	100	33.27	6.82	147.85	0.57	0.36	18.6	-91.23

Constituent Sampled	Container	Number	Preservative
RAD 9315/9320, Alkalinity, TDS, Cations (Na, K, Mg), App III/IV Metals, Cl, F, SO4	1L Plastic, 500 mL Plastic, 250 mL Plastic	6	None, HNO3

Comments: Delays due to low-flow sampling templates not presented in the In-Situ app.

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
 1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____ Well Locked at Arrival: _____
 Condition of Well: _____ Well Locked at Departure: _____
 Well Completion: NA Key Number To Well: NA

Groundwater Sampling Form



Updated : 2/22/2023 10:13:08 AM -05:00

Project Number	30143623	Well ID	YGWA-20S	Date	02/07/2023
Project Location	AMA AP-3, A, B and B'		Weather(°F)	64.6 degrees F and Clear. The wind is blowing S at 6.9 mph	
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	19.22	Casing Diameter (in)	2
				Well Casing Material	PVC
Static Water Level (ft-bmp)	11.03	Total Depth (ft-bmp)	29.52	Water Column(ft)	18.49
				Gallons in Well	3
MP Elevation	767.12	Pump Intake (ft-bmp)	24.5	Purge Method	Low-Flow
				Sample Method	Low-Flow
Sample Time	14:50	Well Volumes Purged	0.40	Sample ID	YAT-YGWA-20S
				Sampled by	Kim Lapszynski
Purge Start	14:02	Gallons Purged	1.19	Replicate/ Code No.	
				Color	Clear
Purge End	14:48				

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
14:02:00	00:00	100	11.03	6.54	46.47		7.88	18.4	132.06
14:07:00	05:00	100	11.62	6.09	45.02	12.40	7.77	17.0	164.68
14:12:00	10:00	100	11.54	5.95	44.99	12.10	7.73	17.0	175.06
14:17:00	15:00	100	11.52	5.88	44.87	9.60	7.67	17.0	180.48
14:22:00	20:00	100	11.55	5.82	44.82	9.14	7.69	16.8	185.67
14:27:00	25:00	100	11.56	5.76	44.72	6.80	7.70	16.6	189.85
14:32:00	30:00	100	11.56	5.71	44.71	5.85	7.72	16.5	193.66
14:37:00	35:00	100	11.56	5.67	44.68	4.84	7.70	16.5	196.27
14:42:00	40:00	100	11.56	5.64	44.64	4.99	7.69	16.6	198.45
14:47:00	45:00	100	11.57	5.63	44.62	4.77	7.69	16.7	200.41

Constituent Sampled	Container	Number	Preservative
RAD 9315/9320, TDS, Alkalinity, App III/IV Metals, Cations(Na, K, Mg), Cl, F, SO4	1L Plastic, 500mL Plastic, 250mL Plastic	6	None, HNO3

Comments: Completed mid-day calibration.

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
 1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____	Well Locked at Arrival: _____
Condition of Well: _____	Well Locked at Departure: _____
Well Completion: NA	Key Number To Well: NA

Groundwater Sampling Form

Updated : 2/22/2023 10:13:26 AM -05:00

Project Number	30143623	Well ID	YGWA-5D	Date	02/07/2023		
Project Location	AMA AP-3, A, B and B'		Weather(°F)	67.1 degrees F and Clear. The wind is blowing S at 6.9 mph.			
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	78.83	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	19.43	Total Depth (ft-bmp)	129.13	Water Column(ft)	109.7	Gallons in Well	17.83
MP Elevation	784.53	Pump Intake (ft-bmp)	124	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	16:22	Well Volumes Purged	0.07	Sample ID	YAT-YGWA-5D	Sampled by	Kim Lapszynski
Purge Start	15:59	Gallons Purged	1.32	Replicate/ Code No.		Color	Clear
Purge End	16:20						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
15:59:00	00:00	250	19.43	7.46	215.27		8.15	16.9	85.46
16:04:00	05:00	250	20.23	6.80	233.23	1.71	0.56	16.7	-122.05
16:09:00	10:00	250	20.26	6.73	226.74	0.74	0.42	16.7	-125.79
16:14:00	15:00	250	20.42	6.66	218.99	0.68	0.36	16.7	-128.33
16:19:00	20:00	250	20.48	6.64	217.27	0.65	0.36	16.7	-135.34

Constituent Sampled	Container	Number	Preservative
RAD 9315/9320, TDS, Alkalinity, App III/IV Metals, Cations(Na, K, Mg), Cl, F, SO4	1L Plastic, 500mL Plastic, 250mL Plastic	6	None, HNO3

Comments: None

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot
 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
 1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____	Well Locked at Arrival: _____
Condition of Well: _____	Well Locked at Departure: _____
Well Completion: NA _____	Key Number To Well: NA _____

Groundwater Sampling Form



Updated : 2/22/2023 10:20:20 AM -05:00

Project Number	30143623	Well ID	YGWC-38	Date	02/08/2023		
Project Location	AMA R6 CCR Landfill		Weather(°F)	55.6 degrees F and Cloudy. The wind is blowing SE at 4.7 mph.			
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	39.59	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	31.47	Total Depth (ft-bmp)	50.59	Water Column(ft)	19.12	Gallons in Well	3.11
MP Elevation	799.69	Pump Intake (ft-bmp)	45	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	09:30	Well Volumes Purged	0.17	Sample ID	YAT-YGWC-38	Sampled by	Kim Lapszynski
Purge Start	09:09	Gallons Purged	0.53	Replicate/ Code No.	YAT-AMA-FD-2	Color	Clear
Purge End	09:29						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
09:09:00	00:00	100	31.47	7.28	686.85		10.00	14.0	175.93
09:14:00	05:00	100	32.03	5.29	652.51	3.65	4.51	16.2	190.59
09:19:00	10:00	100	32.18	5.21	645.57	4.42	3.70	16.4	196.13
09:24:00	15:00	100	32.24	5.18	642.20	3.47	3.69	16.5	195.67
09:29:00	20:00	100	32.27	5.16	640.29	2.38	3.69	16.5	197.16

Constituent Sampled	Container	Number	Preservative
RAD 9315/9320, TDS, App III/IV Metals, Cations(Na, K,Mg), Alkalinity, Cl, F, SO4	1L Plastic, 500mL Plastic, 250mL Plastic	6	None, HNO3

Comments: None

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot
 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
 1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____	Well Locked at Arrival: _____
Condition of Well: _____	Well Locked at Departure: _____
Well Completion: NA _____	Key Number To Well: NA _____

Groundwater Sampling Form



Updated : 2/22/2023 10:21:12 AM -05:00

Project Number	30143623	Well ID	YAMW-5	Date	02/08/2023		
Project Location	AMA R6 CCR Landfill		Weather(°F)	63.3 degrees F and Partly Cloudy. The wind is blowing S at 9.2 mph.			
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	80.3	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	16.32	Total Depth (ft-bmp)	90.34	Water Column(ft)	74.02	Gallons in Well	12.03
MP Elevation	788.9	Pump Intake (ft-bmp)	86.3	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	10:58	Well Volumes Purged	0.08	Sample ID	YAT-YAMW-5	Sampled by	Kim Lapszynski
Purge Start	10:36	Gallons Purged	0.92	Replicate/ Code No.		Color	Clear
Purge End	10:57						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
10:36:00	00:00	175	16.32	6.43	780.34		9.05	15.5	162.84
10:41:00	05:00	175	17.07	5.64	880.63	0.43	1.84	16.9	182.84
10:46:00	10:00	175	17.31	5.65	877.46	0.40	1.59	17.0	192.82
10:51:00	15:00	175	17.45	5.68	887.34	0.41	1.65	17.0	199.89
10:56:00	20:00	175	17.57	5.67	880.47	0.46	1.65	17.1	206.62

Constituent Sampled	Container	Number	Preservative
RAD 9315/9320, TDS, Alkalinity, AppIII/IV Metals, Cations (Na, K, Mg), Cl, F, SO4	1L Plastic, 500mL Plastic, 250mL Plastic	6	None, HNO3

Comments: None.

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
 1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____	Well Locked at Arrival: _____
Condition of Well: _____	Well Locked at Departure: _____
Well Completion: NA _____	Key Number To Well: NA _____

Groundwater Sampling Form



Updated : 2/22/2023 10:21:42 AM -05:00

Project Number	30143623	Well ID	YGWA-40	Date	02/08/2023
Project Location	AMA R6 CCR Landfill		Weather(°F)	65.7 degrees F and Cloudy. The wind is blowing S/SW at 5.8 mph.	
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	37.73	Casing Diameter (in)	2
		Well Casing Material			PVC
Static Water Level (ft-bmp)	22.95	Total Depth (ft-bmp)	48.23	Water Column(ft)	25.28
		Gallons in Well			4.11
MP Elevation	815.73	Pump Intake (ft-bmp)	42	Purge Method	Low-Flow
		Sample Method			Low-Flow
Sample Time	12:02	Well Volumes Purged	0.13	Sample ID	YAT-YGWA-40
		Sampled by			Kim Lapszynski
Purge Start	11:40	Gallons Purged	0.53	Replicate/ Code No.	
		Color			Clear
Purge End	12:00				

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
11:40:00	00:00	100	22.95	6.11	135.41		4.07	17.9	156.47
11:45:00	05:00	100	23.3	5.83	120.58	0.53	0.45	17.6	175.87
11:50:00	10:00	100	23.36	5.74	117.07	0.56	0.18	17.5	184.77
11:55:00	15:00	100	23.38	5.73	116.19	0.50	0.14	17.4	190.95
12:00:00	20:00	100	23.39	5.71	115.91	0.49	0.11	17.5	196.44

Constituent Sampled	Container	Number	Preservative
RAD 9315/9320, TDS, Alkalinity, App III/IV Metals, Cations (Na, K, Mg), Cl, F, SO4	1L Plastic, 500mL Plastic, 250mL Plastic	6	None, HNO3

Comments: Can not access well with field truck. Parked and walked equipment due to muddy/deep ruts at potential access point.

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
 1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____	Well Locked at Arrival: _____
Condition of Well: _____	Well Locked at Departure: _____
Well Completion: NA _____	Key Number To Well: NA _____

Groundwater Sampling Form



Updated : 2/22/2023 10:22:08 AM -05:00

Project Number	30143623	Well ID	YAMW-4	Date	02/08/2023		
Project Location	AMA R6 CCR Landfill		Weather(°F)	73.2 degrees F and Cloudy. The wind is blowing S at 3.4 mph.			
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	86.59	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	33.29	Total Depth (ft-bmp)	96.55	Water Column(ft)	63.26	Gallons in Well	10.28
MP Elevation	805.59	Pump Intake (ft-bmp)	91.55	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	14:52	Well Volumes Purged	0.07	Sample ID	YAT-YAMW-4	Sampled by	Kim Lapszynski
Purge Start	14:28	Gallons Purged	0.73	Replicate/ Code No.		Color	Clear
Purge End	14:49						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
14:28:00	00:00	150	33.29	6.93	721.11		8.93	18.8	165.91
14:33:00	05:00	150	35.44	6.34	760.01	1.36	2.64	18.8	176.50
14:38:00	10:00	150	35.54	6.22	788.80	2.96	0.75	18.5	186.88
14:43:00	15:00	100	35.51	6.18	791.09	1.93	0.71	19.1	188.59
14:48:00	20:00	100	35.67	6.19	790.33	1.38	0.63	18.9	191.86

Constituent Sampled	Container	Number	Preservative
RAD 9315/9320, TDS, Alkalinity, App III/IV Metals, Cations (Na, K, Mg), Cl, F, SO4	1L Plastic, 500mL Plastic, 250mL Plastic	6	None, HNO3

Comments: None.

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot
 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
 1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____	Well Locked at Arrival: _____
Condition of Well: _____	Well Locked at Departure: _____
Well Completion: NA _____	Key Number To Well: NA _____

Groundwater Sampling Form

Updated : 2/22/2023 10:22:33 AM -05:00

Project Number	30143623	Well ID	YGWC-41	Date	02/08/2023		
Project Location	AMA R6 CCR Landfill		Weather(°F)	73.9 degrees F and Partly Cloudy. The wind is blowing S at 5.8 mph.			
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	56.82	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	29.82	Total Depth (ft-bmp)	67.32	Water Column(ft)	37.5	Gallons in Well	6.09
MP Elevation	803.92	Pump Intake (ft-bmp)	62	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	16:30	Well Volumes Purged	0.26	Sample ID	YAT-YGWC-41	Sampled by	Kim Lapszynski
Purge Start	15:48	Gallons Purged	1.59	Replicate/ Code No.		Color	Clear
Purge End	16:29						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
15:48:00	00:00	150	29.82	7.07	449.93		8.76	19.6	189.19
15:53:00	05:00	150	30.4	5.46	457.81	0.53	6.15	18.9	246.30
15:58:00	10:00	150	30.31	5.17	463.23	0.61	5.31	19.0	259.69
16:03:00	15:00	150	30.41	5.04	459.08	0.42	5.00	18.5	268.12
16:08:00	20:00	150	30.53	4.90	457.92	0.49	4.94	18.5	275.16
16:13:00	25:00	150	30.53	4.81	456.55	0.44	4.96	18.4	280.08
16:18:00	30:00	150	30.53	4.76	458.80	0.58	5.01	18.3	283.89
16:23:00	35:00	150	30.53	4.71	461.29	0.50	5.01	18.4	287.05
16:28:00	40:00	150	30.54	4.69	463.65	0.53	5.01	18.4	289.35

Constituent Sampled	Container	Number	Preservative
RAD 9315/9320, TDS, Alkalinity, App III/IV Metals, Cations (Na, K, Mg), Cl, F, SO4	1L Plastic, 500mL Plastic, 250mL Plastic	6	None, HNO3

Comments: None.

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot
 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
 1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____ Well Locked at Arrival: _____
 Condition of Well: _____ Well Locked at Departure: _____
 Well Completion: NA Key Number To Well: NA

Groundwater Sampling Form

Updated : 2/22/2023 10:22:57 AM -05:00

Project Number	30143623	Well ID	YGWC-43	Date	02/08/2023		
Project Location	AMA R6 CCR Landfill		Weather(°F)	Sunny, 70's			
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	69.16	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	23.95	Total Depth (ft-bmp)	79.66	Water Column(ft)	55.71	Gallons in Well	9.05
MP Elevation	744.96	Pump Intake (ft-bmp)	75	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	18:00	Well Volumes Purged	0.11	Sample ID	YAT-YGWC-43	Sampled by	Kim Lapszynski
Purge Start	17:32	Gallons Purged	0.99	Replicate/ Code No.		Color	Clear
Purge End	17:58						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
17:32:00	00:00	150	23.95	6.27	569.74		9.06	17.6	202.34
17:37:00	05:00	150	24.08	5.74	630.83	2.70	0.64	17.3	-23.19
17:42:00	10:00	150	24.13	5.52	645.10	0.77	0.34	17.2	7.08
17:47:00	15:00	150	24.15	5.45	645.62	0.60	0.22	17.1	11.00
17:52:00	20:00	150	24.15	5.42	648.98	0.71	0.26	17.1	10.08
17:57:00	25:00	150	24.18	5.40	652.65	0.52	0.18	17.0	4.66

Constituent Sampled	Container	Number	Preservative
RAD 9315/9320, TDS, Alkalinity, App III/IV Metals, Cations (Na, K, Mg), Cl, F, SO4	1L Plastic, 500mL Plastic, 250mL Plastic	6	None, HNO3

Comments: None.

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot
 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
 1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____ Well Locked at Arrival: _____
 Condition of Well: _____ Well Locked at Departure: _____
 Well Completion: NA Key Number To Well: NA

Groundwater Sampling Form



Updated : 2/22/2023 10:23:26 AM -05:00

Project Number	30143623	Well ID	YGWA-4I	Date	02/09/2023
Project Location	AMA AP-3, A, B and B'		Weather(°F)	60.1 degrees F and Cloudy. The wind is blowing S at 10.3 mph.	
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	38.51	Casing Diameter (in)	2
Static Water Level (ft-bmp)	23.5	Total Depth (ft-bmp)	48.81	Water Column(ft)	25.31
MP Elevation	784.21	Pump Intake (ft-bmp)	45	Purge Method	Low-Flow
Sample Time	09:55	Well Volumes Purged	0.18	Sample ID	YAT-YGWA-4I
Purge Start	09:27	Gallons Purged	0.73	Replicate/ Code No.	
Purge End	09:52			Color	Clear

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
09:27:00	00:00	150	23.5	7.53	113.72		8.49	14.7	141.05
09:32:00	05:00	100	24.18	6.28	117.89	0.69	3.18	15.7	145.11
09:37:00	10:00	100	24.29	6.23	119.05	1.10	1.91	15.8	147.04
09:42:00	15:00	100	24.37	6.23	119.54	0.62	1.56	15.8	147.02
09:47:00	20:00	100	24.43	6.23	119.62	0.53	1.46	15.8	147.38
09:52:00	25:00	100	24.47	6.23	119.35	0.78	1.43	15.8	147.95

Constituent Sampled	Container	Number	Preservative
RAD 9315/9320, TDS, Alkalinity, Cations (Na, K, Mg), App III/IV Metals, Cl, F, SO4	1L Plastic, 500mL Plastic, 250mL Plastic	6	None, HNO3

Comments: None.

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
 1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____	Well Locked at Arrival: _____
Condition of Well: _____	Well Locked at Departure: _____
Well Completion: NA _____	Key Number To Well: NA _____

Groundwater Sampling Form

Updated : 2/22/2023 10:28:50 AM -05:00

Project Number 30053438 **Well ID** PZ-37D **Date** 02/08/2023

Project Location AMA AP-3, A, B and B' **Weather(°F)**

Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	192.44	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	3.91	Total Depth (ft-bmp)	202.44	Water Column(ft)	198.53	Gallons in Well	32.26
MP Elevation	761.12	Pump Intake (ft-bmp)	197	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	13:48	Well Volumes Purged	0.06	Sample ID	YAT-PZ-37D	Sampled by	Jessica Ware
Purge Start	12:46	Gallons Purged	1.85	Replicate/ Code No.		Color	Clear
Purge End	13:47						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
12:46:00	00:00	150	3.58	7.67	672.03	1.10	2.34	18.4	-233.11
12:51:00	05:00	150	4.69	7.62	752.56	0.97	1.00	18.2	-234.21
12:56:00	10:00	100	5.53	7.60	752.47	1.07	0.88	19.0	-237.97
13:01:00	15:00	100	5.87	7.62	752.32	0.87	0.89	19.9	-239.89
13:06:00	20:00	100	6.28	7.68	747.53	0.92	0.99	18.8	-245.27
13:11:00	25:00	100	6.75	7.69	743.31	1.00	0.92	19.1	-246.72
13:16:00	30:00	100	7.04	7.71	744.95	0.86	0.94	19.3	-249.26
13:21:00	35:00	100	7.29	7.74	747.63	1.24	0.92	19.5	-251.80
13:26:00	40:00	100	7.59	7.79	748.41	0.81	0.83	19.6	-258.81
13:31:00	45:00	100	7.9	7.84	750.03	1.00	0.84	20.0	-263.21
13:36:00	50:00	100	8.1	7.89	752.83	0.75	0.87	20.5	-266.40
13:41:00	55:00	100	8.18	7.93	754.45	0.90	0.94	21.3	-268.45
13:46:00	00:00	100	8.33	7.95	753.72	0.82	0.91	20.8	-270.56

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
Cations, Metals	250 mL Plastic	1	HNO3
TDS	500 mL Plastic	1	None
Alkalinity	250 mL Plastic	1	None
Cl, F, SO4	250 mL Plastic	1	None

Comments: Used peri pump

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
 1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Groundwater Sampling Form



Updated : 2/22/2023 10:30:33 AM -05:00

Project Number	30143623	Well ID	YGWC-36A	Date	02/09/2023		
Project Location	AMA R6 CCR Landfill		Weather(°F)	65.3 degrees F and Cloudy. The wind is blowing SW at 9.2 mph.			
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	689.7	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	10.57	Total Depth (ft-bmp)	51.2	Water Column(ft)	40.63	Gallons in Well	6.6
MP Elevation	739.61	Pump Intake (ft-bmp)	46	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	13:10	Well Volumes Purged	0.20	Sample ID	YAT-YGWC-36A	Sampled by	Kim Lapszynski
Purge Start	12:42	Gallons Purged	1.32	Replicate/ Code No.		Color	Clear
Purge End	13:08						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
12:42:00	00:00	200	10.57	6.54	103.18		4.91	17.8	141.26
12:47:00	05:00	200	10.86	5.82	115.61	6.26	3.36	18.3	177.48
12:52:00	10:00	200	10.9	5.76	118.59	4.63	3.92	18.3	191.68
12:57:00	15:00	200	10.91	5.70	133.02	3.46	3.99	18.3	203.50
13:02:00	20:00	200	10.92	5.68	138.70	1.70	3.98	18.3	212.59
13:07:00	25:00	200	10.91	5.67	139.25	0.80	3.98	18.3	219.63

Constituent Sampled	Container	Number	Preservative
RAD 9315/9320, TDS, Alkalinity, App III/IV Metals, Cations (Na, K, Mg), Cl, F, SO4	1L Plastic, 500mL Plastic, 250mL Plastic	6	None, HNO3

Comments: None.

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot
 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
 1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____	Well Locked at Arrival: _____
Condition of Well: _____	Well Locked at Departure: _____
Well Completion: NA _____	Key Number To Well: NA _____

Groundwater Sampling Form



Updated : 2/22/2023 10:32:02 AM -05:00

Project Number	30143623	Well ID	PZ-35	Date	02/09/2023		
Project Location	AMA AP-3, A, B and B'		Weather(°F)	68.2 degrees F and Mostly Cloudy. The wind is blowing SW at 10.3 mph.			
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	38.91	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	11.44	Total Depth (ft-bmp)	50.01	Water Column(ft)	38.57	Gallons in Well	6.27
MP Elevation	743.81	Pump Intake (ft-bmp)	45	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	14:48	Well Volumes Purged	0.19	Sample ID	YAT-PZ-35	Sampled by	Kim Lapszynski
Purge Start	14:13	Gallons Purged	1.19	Replicate/ Code No.		Color	Clear
Purge End	14:44						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
14:13:00	00:00	100	11.44	7.22	203.18		8.00	18.9	180.30
14:18:00	05:00	100	11.54	5.75	239.89	1.35	5.11	18.6	196.92
14:23:00	10:00	100	11.57	5.59	230.85	2.79	4.63	18.6	200.66
14:28:00	15:00	100	11.56	5.56	221.18	2.81	4.56	18.5	201.91
14:33:00	20:00	100	11.57	5.55	219.06	3.62	4.53	18.5	202.43
14:38:00	25:00	100	11.58	5.54	219.22	2.16	4.51	18.5	202.35
14:43:00	30:00	100	11.57	5.50	219.83	1.92	4.50	18.4	204.50

Constituent Sampled	Container	Number	Preservative
RAD 9315/9320, TDS, Alkalinity, App III/IV Metals, Cations (Ca, K, Mg), Cl, F, SO4	1L Plastic, 500mL Plastic, 250mL Plastic	6	None, HNO3

Comments: Purge rate 150mL/min in Vu-Situ log states 100 mL/min. Purge total actually 4500mL/min.

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
 1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____	Well Locked at Arrival: _____
Condition of Well: _____	Well Locked at Departure: _____
Well Completion: NA _____	Key Number To Well: NA _____

Groundwater Sampling Form

Updated : 2/22/2023 10:33:06 AM -05:00

Project Number	30143623	Well ID	YAMW-1	Date	02/09/2023		
Project Location	AMA AP-3, A, B and B'		Weather(°F)				
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	59.6	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	11.16	Total Depth (ft-bmp)	69.93	Water Column(ft)	58.77	Gallons in Well	9.55
MP Elevation	743.83	Pump Intake (ft-bmp)	64.6	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	15:56	Well Volumes Purged	0.08	Sample ID	YAT-YAMW-1	Sampled by	Kim Lapszynski
Purge Start	15:33	Gallons Purged	0.79	Replicate/ Code No.	YAT-AMA-R6-FD-1	Color	Clear
Purge End	15:54						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
15:33:00	00:00	150		6.77	437.89		6.88	18.1	177.93
15:38:00	05:00	150	11.75	6.02	508.48	2.50	1.92	18.3	194.37
15:43:00	10:00	150	11.88	5.77	545.80	3.64	2.06	18.3	209.19
15:48:00	15:00	150	11.92	5.73	555.74	1.96	2.07	18.2	217.62
15:53:00	20:00	150	11.95	5.73	556.47	1.54	2.01	18.2	223.00

Constituent Sampled	Container	Number	Preservative
RAD 9315/9320, TDS, Alkalinity, App III/IV Metals, Cations (Na, K, Mg), Cl, F, SO4	1L Plastic, 500mL Plastic, 250mL Plastic	12	None, HNO3

Comments: None.

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
 1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____	Well Locked at Arrival: _____
Condition of Well: _____	Well Locked at Departure: _____
Well Completion: NA _____	Key Number To Well: NA _____

Groundwater Sampling Form

Updated : 2/22/2023 10:33:40 AM -05:00

Project Number	30143623	Well ID	YGWA-5I	Date	02/09/2023
Project Location	AMA AP-3, A, B and B'		Weather(°F)	62.6 degrees F and Mostly Cloudy. The wind is blowing S/SW at 8.1 mph.	
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	48.64	Casing Diameter (in)	2
				Well Casing Material	PVC
Static Water Level (ft-bmp)	19.06	Total Depth (ft-bmp)	58.94	Water Column(ft)	39.88
				Gallons in Well	6.48
MP Elevation	784.54	Pump Intake (ft-bmp)	53	Purge Method	Low-Flow
				Sample Method	Low-Flow
Sample Time	11:26	Well Volumes Purged	0.08	Sample ID	YAT-YGWA-5I
				Sampled by	Kim Lapszynski
Purge Start	11:03	Gallons Purged	0.53	Replicate/ Code No.	
				Color	Clear
Purge End	11:24				

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
11:03:00	00:00	100	19.06	7.11	70.88		8.71	15.4	122.00
11:08:00	05:00	100	19.22	6.15	67.99	1.03	6.25	16.3	143.52
11:13:00	10:00	100	19.23	5.94	68.99	0.74	6.16	16.5	158.08
11:18:00	15:00	100	19.24	5.91	69.23	0.70	6.15	16.5	164.37
11:23:00	20:00	100	19.24	5.90	69.31	0.78	6.16	16.6	169.40

Constituent Sampled	Container	Number	Preservative
RAD 9315/9320, TDS, Alkalinity, App III/IV Metals, Cations (Na, K, Mg), Cl, F, SO4	1L Plastic, 500mL Plastic, 250mL Plastic	6	None, HNO3

Comments: None.

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
 1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____	Well Locked at Arrival: _____
Condition of Well: _____	Well Locked at Departure: _____
Well Completion: NA _____	Key Number To Well: NA _____

Groundwater Sampling Form

Updated : 2/22/2023 10:34:24 AM -05:00

Project Number	30143623	Well ID	YGWC-24SB	Date	02/10/2023		
Project Location	AMA AP-3, A, B and B'		Weather(°F)	50.4 degrees F and Drizzle. The wind is blowing N at 8.1 mph.			
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	47.59	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	27.36	Total Depth (ft-bmp)	57.79	Water Column(ft)	30.43	Gallons in Well	4.94
MP Elevation	764.89	Pump Intake (ft-bmp)	52	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	09:45	Well Volumes Purged	0.48	Sample ID	YAT-YGWC-24SB	Sampled by	Kim Lapszynski
Purge Start	08:44	Gallons Purged	2.38	Replicate/ Code No.		Color	Clear
Purge End	09:44						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
08:44:00	00:00	150	27.36	6.17	119.19		7.92	14.8	209.07
08:49:00	05:00	150	27.72	5.85	86.17	20.60	7.90	15.8	199.13
08:54:00	10:00	150	27.72	5.78	82.35	19.60	7.90	15.9	193.93
08:59:00	15:00	150	27.72	5.73	81.38	13.90	7.87	15.8	196.63
09:04:00	20:00	150	27.73	5.73	80.05	12.40	7.85	15.8	193.99
09:09:00	25:00	150	27.72	5.74	80.18	11.13	7.86	15.8	194.06
09:14:00	30:00	150	27.72	5.74	80.42	8.95	7.88	15.7	195.15
09:19:00	35:00	150	27.72	5.73	80.01	6.54	7.90	15.8	197.83
09:24:00	40:00	150	27.72	5.70	79.78	5.45	7.91	15.8	199.57
09:29:00	45:00	150	27.72	5.72	79.76	5.15	7.89	15.8	201.91
09:34:00	50:00	150	27.71	5.73	79.29	4.36	7.92	15.7	204.42
09:39:00	55:00	150	27.71	5.73	79.17	3.85	7.94	15.7	205.70
09:44:00	00:00	150	27.71	5.67	78.86	3.09	7.95	15.8	209.65

Constituent Sampled	Container	Number	Preservative
RAD 9315/9320, TDS, Alkalinity, App III/IV Metals, Cations (Na, K, Mg), Cl, F, SO4	1L Plastic, 500mL Plastic, 250mL Plastic	6	None, HNO3

Comments: None.

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
 1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____ Well Locked at Arrival: _____
 Condition of Well: _____ Well Locked at Departure: _____
 Well Completion: NA Key Number To Well: NA

Groundwater Sampling Form



Updated : 2/22/2023 10:34:48 AM -05:00

Project Number	30143623	Well ID	YAMW-2	Date	02/08/2023		
Project Location	AMA R6 CCR Landfill		Weather(°F)				
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	36.44	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	22.85	Total Depth (ft-bmp)	46.48	Water Column(ft)	23.63	Gallons in Well	3.84
MP Elevation	781.04	Pump Intake (ft-bmp)	41.44	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	13:55	Well Volumes Purged	0.42	Sample ID	YAT-YAMW-2	Sampled by	Kim Lapszynski
Purge Start	13:16	Gallons Purged	1.62	Replicate/ Code No.		Color	Clear
Purge End	13:52						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
13:16:00	00:00	175	22.85	7.96	122.62		9.18	17.7	163.96
13:21:00	05:00	175	22.94	5.63	88.00	4.46	3.49	17.5	192.02
13:26:00	10:00	175	22.96	5.60	87.50	1.94	3.26	17.6	188.12
13:31:00	15:00	175	22.97	5.75	86.62	1.55	3.20	17.6	186.17
13:36:00	20:00	175	22.96	5.76	85.93	1.24	3.16	17.7	187.65
13:41:00	25:00	175	22.96	5.89	85.39	1.28	3.11	17.7	186.29
13:46:00	30:00	175	22.96	5.95	85.80	1.09	3.14	17.6	190.87
13:51:00	35:00	175	22.96	5.95	85.77	0.78	3.16	17.6	194.87

Constituent Sampled	Container	Number	Preservative
RAD 9315/9320, TDS, Alkalinity, App III/IV, Cations (Na, K, Mg), Cl, F, SO4	1L Plastic, 500mL Plastic, 250mL Plastic	6	None, HNO3

Comments: None.

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
 1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____ Well Locked at Arrival: _____
 Condition of Well: _____ Well Locked at Departure: _____
 Well Completion: NA _____ Key Number To Well: NA _____

Groundwater Sampling Form



Updated : 2/22/2023 10:36:08 AM -05:00

Project Number	30143608	Well ID	YGWC-49	Date	02/09/2023
Project Location	AMA AP-3, A, B and B'		Weather(°F)	68.0 degrees F and Cloudy. The wind is blowing SW at 6.9 mph.	
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	68.03	Casing Diameter (in)	2
Static Water Level (ft-bmp)	33.25	Total Depth (ft-bmp)	78.53	Water Column(ft)	45.28
MP Elevation	782.73	Pump Intake (ft-bmp)	73	Purge Method	Low-Flow
Sample Time	15:00	Well Volumes Purged	0.16	Sample ID	YAT-YGWC-49
Purge Start	14:39	Gallons Purged	1.19	Replicate/ Code No.	
Purge End	14:59			Color	Clear

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
14:39:00	00:00	225	33.25	6.55	224.37	0.56	7.23	17.4	92.99
14:44:00	05:00	225	33.88	5.56	208.93	0.50	2.78	17.9	138.89
14:49:00	10:00	225	34.12	5.58	205.16	0.56	2.65	17.8	152.19
14:54:00	15:00	225	34.18	5.60	206.17	0.41	2.58	17.8	160.08
14:59:00	20:00	225	34.18	5.61	207.78	0.47	2.61	17.8	166.45

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
Cations ,Metals	250 mL Plastic	1	HNO3
TDS	500 mL Plastic	1	None
Alkalinity	250 mL Plastic	1	None
Cl, F, SO4	500 mL Plastic	1	None

Comments: Good

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
 1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____	Well Locked at Arrival: _____
Condition of Well: _____	Well Locked at Departure: _____
Well Completion: NA	Key Number To Well: NA

Groundwater Gauging Well Inspection Report

Project Location: AMA AP-3, A, B and B'			Yes	No	N/A
Permit Number:					
Well ID: YGWA-6I					
Person Gauging: Kim Lapszynski					
Date: 2/6/2023					
Time: 09:01:00					
1 Location Identification:					
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d	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"/>	<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"/>	<input type="checkbox"/>	
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the casing have a functioning weep hole?	<input type="checkbox"/>	<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"/>	<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"/>	<input type="checkbox"/>	
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input 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"/>	<input type="checkbox"/>	
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>	
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>	
5 Sampling: Groundwater Wells Only:					
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6 Based on your professional judgement, is the well construction / location:					
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7 Corrective actions as needed, by date:					
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location: AMA AP-3, A, B and B'			Yes	No	N/A
Permit Number:					
Well ID: YGWA-6S					
Person Gauging: Kim Lapszynski					
Date: 2/6/2023					
Time: 09:08:00					
1 Location Identification:					
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d	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"/>	<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"/>	<input type="checkbox"/>	
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the casing have a functioning weep hole?	<input type="checkbox"/>	<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"/>	<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"/>	<input type="checkbox"/>	
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input 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"/>	<input type="checkbox"/>	
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>	
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>	
5 Sampling: Groundwater Wells Only:					
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6 Based on your professional judgement, is the well construction / location:					
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7 Corrective actions as needed, by date:					
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location: AMA AP-3, A, B and B'			Yes	No	N/A
Permit Number:					
Well ID: PZ-06D					
Person Gauging: Kim Lapszynski					
Date: 2/6/2023					
Time: 09:09:00					
1 Location Identification:					
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d	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"/>	<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"/>	<input type="checkbox"/>	
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the casing have a functioning weep hole?	<input type="checkbox"/>	<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"/>	<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"/>	<input type="checkbox"/>	
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input 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"/>	<input type="checkbox"/>	
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>	
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>	
5 Sampling: Groundwater Wells Only:					
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6 Based on your professional judgement, is the well construction / location:					
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7 Corrective actions as needed, by date:					
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location: AMA AP-3, A, B and B'			Yes	No	N/A
Permit Number:					
Well ID: YGWA-20S					
Person Gauging: Kim Lapszynski					
Date: 2/6/2023					
Time: 09:22:00					
1 Location Identification:					
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d	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"/>	<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"/>	<input type="checkbox"/>	
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>	
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input 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"/>	<input type="checkbox"/>	
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>	
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>	
5 Sampling: Groundwater Wells Only:					
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6 Based on your professional judgement, is the well construction / location:					
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7 Corrective actions as needed, by date:					
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location: AMA AP-3, A, B and B'			Yes	No	N/A
Permit Number:					
Well ID: YGWA-211					
Person Gauging: Kim Lapszynski					
Date: 2/6/2023					
Time: 09:29:00					
1 Location Identification:					
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	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"/>	<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"/>	<input type="checkbox"/>	
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>	
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input 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"/>	<input type="checkbox"/>	
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>	
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>	
5 Sampling: Groundwater Wells Only:					
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6 Based on your professional judgement, is the well construction / location:					
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7 Corrective actions as needed, by date:					
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location: AMA AP-3, A, B and B'			Yes	No	N/A
Permit Number:					
Well ID: YGWA-5D					
Person Gauging: Kim Lapszynski					
Date: 2/6/2023					
Time: 09:38:00					
1 Location Identification:					
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d	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"/>	<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"/>	<input type="checkbox"/>	
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>	
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input 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"/>	<input type="checkbox"/>	
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>	
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>	
5 Sampling: Groundwater Wells Only:					
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6 Based on your professional judgement, is the well construction / location:					
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7 Corrective actions as needed, by date:					
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location: AMA AP-3, A, B and B'				
Permit Number:				
Well ID: YGWA-5I				
Person Gauging: Kim Lapszynski				
Date: 2/6/2023				
Time: 09:40:00				
		Yes	No	N/A
1	Location Identification:			
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d	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"/>	<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"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input 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"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>
5	Sampling: Groundwater Wells Only:			
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6	Based on your professional judgement, is the well construction / location:			
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Corrective actions as needed, by date:			
8	Date by when corrective actions are needed:			

Groundwater Gauging Well Inspection Report

Project Location: AMA AP-3, A, B and B'			Yes	No	N/A
Permit Number:					
Well ID: PZ-05S					
Person Gauging: Kim Lapszynski					
Date: 2/6/2023					
Time: 09:41:00					
1 Location Identification:					
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d	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"/>	<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"/>	<input type="checkbox"/>	
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>	
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input 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"/>	<input type="checkbox"/>	
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>	
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>	
5 Sampling: Groundwater Wells Only:					
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6 Based on your professional judgement, is the well construction / location:					
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7 Corrective actions as needed, by date:					
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location: AMA AP-3, A, B and B'			Yes	No	N/A
Permit Number:					
Well ID: YGWA-4I					
Person Gauging: Kim Lapszynski					
Date: 2/6/2023					
Time: 09:49:00					
1 Location Identification:					
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d	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"/>	<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"/>	<input type="checkbox"/>	
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>	
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input 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"/>	<input type="checkbox"/>	
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>	
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>	
5 Sampling: Groundwater Wells Only:					
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6 Based on your professional judgement, is the well construction / location:					
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7 Corrective actions as needed, by date:					
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location: AMA AP-3, A, B and B'			Yes	No	N/A
Permit Number:					
Well ID: PZ-04S					
Person Gauging: Kim Lapszynski					
Date: 2/6/2023					
Time: 09:50:00					
1 Location Identification:					
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d	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"/>	<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"/>	<input type="checkbox"/>	
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>	
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input 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"/>	<input type="checkbox"/>	
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>	
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>	
5 Sampling: Groundwater Wells Only:					
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6 Based on your professional judgement, is the well construction / location:					
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7 Corrective actions as needed, by date:					
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location: AMA AP-3, A, B and B'			Yes	No	N/A
Permit Number:					
Well ID: PZ-48					
Person Gauging: Kim Lapszynski					
Date: 2/6/2023					
Time: 10:05:00					
1 Location Identification:					
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d	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"/>	<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"/>	<input type="checkbox"/>	
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>	
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input 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"/>	<input type="checkbox"/>	
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>	
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>	
5 Sampling: Groundwater Wells Only:					
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6 Based on your professional judgement, is the well construction / location:					
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7 Corrective actions as needed, by date:					
Needs brush clearing.					
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location: AMA AP-3, A, B and B'			Yes	No	N/A
Permit Number:					
Well ID: YGWA-18S					
Person Gauging: Kim Lapszynski					
Date: 2/6/2023					
Time: 10:17:00					
1 Location Identification:					
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d	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"/>	<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"/>	<input type="checkbox"/>	
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>	
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input 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"/>	<input type="checkbox"/>	
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>	
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>	
5 Sampling: Groundwater Wells Only:					
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6 Based on your professional judgement, is the well construction / location:					
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7 Corrective actions as needed, by date:					
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location: AMA AP-3, A, B and B'			Yes	No	N/A
Permit Number:					
Well ID: YGWA-18I					
Person Gauging: Kim Lapszynski					
Date: 2/6/2023					
Time: 10:18:00					
1 Location Identification:					
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d	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"/>	<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"/>	<input type="checkbox"/>	
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>	
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input 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"/>	<input type="checkbox"/>	
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>	
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>	
5 Sampling: Groundwater Wells Only:					
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6 Based on your professional judgement, is the well construction / location:					
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7 Corrective actions as needed, by date:					
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location: AMA AP-3, A, B and B'			Yes	No	N/A
Permit Number:					
Well ID: YGWA-17S					
Person Gauging: Kim Lapszynski					
Date: 2/6/2023					
Time: 10:41:00					
1 Location Identification:					
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d	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"/>	<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"/>	<input type="checkbox"/>	
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>	
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input 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"/>	<input type="checkbox"/>	
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>	
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>	
5 Sampling: Groundwater Wells Only:					
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6 Based on your professional judgement, is the well construction / location:					
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7 Corrective actions as needed, by date:					
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location: AMA R6 CCR Landfill			Yes	No	N/A
Permit Number:					
Well ID: YAMW-3					
Person Gauging: Kim Lapszynski					
Date: 2/6/2023					
Time: 11:25:00					
1 Location Identification:					
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d	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"/>	<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"/>	<input type="checkbox"/>	
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>	
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input 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"/>	<input type="checkbox"/>	
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>	
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>	
5 Sampling: Groundwater Wells Only:					
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6 Based on your professional judgement, is the well construction / location:					
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7 Corrective actions as needed, by date:					
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location: AMA R6 CCR Landfill			Yes	No	N/A
Permit Number:					
Well ID: YGWC-42					
Person Gauging: Kim Lapszynski					
Date: 2/6/2023					
Time: 11:30:00					
1 Location Identification:					
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d	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"/>	<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"/>	<input type="checkbox"/>	
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>	
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input 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"/>	<input type="checkbox"/>	
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>	
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>	
5 Sampling: Groundwater Wells Only:					
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6 Based on your professional judgement, is the well construction / location:					
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7 Corrective actions as needed, by date:					
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location: AMA R6 CCR Landfill			Yes	No	N/A
Permit Number:					
Well ID: YAMW-2					
Person Gauging: Kim Lapszynski					
Date: 2/6/2023					
Time: 11:37:00					
1 Location Identification:					
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d	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"/>	<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"/>	<input type="checkbox"/>	
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>	
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input 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"/>	<input type="checkbox"/>	
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>	
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>	
5 Sampling: Groundwater Wells Only:					
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6 Based on your professional judgement, is the well construction / location:					
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7 Corrective actions as needed, by date:					
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location: AMA R6 CCR Landfill			Yes	No	N/A
Permit Number:					
Well ID: YAMW-4					
Person Gauging: Kim Lapszynski					
Date: 2/6/2023					
Time: 11:42:00					
1 Location Identification:					
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d	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"/>	<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"/>	<input type="checkbox"/>	
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>	
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input 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"/>	<input type="checkbox"/>	
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>	
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>	
5 Sampling: Groundwater Wells Only:					
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6 Based on your professional judgement, is the well construction / location:					
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7 Corrective actions as needed, by date:					
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location: AMA R6 CCR Landfill			Yes	No	N/A
Permit Number:					
Well ID: YGWC-41					
Person Gauging: Kim Lapszynski					
Date: 2/6/2023					
Time: 11:45:00					
1 Location Identification:					
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d	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"/>	<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"/>	<input type="checkbox"/>	
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>	
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input 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"/>	<input type="checkbox"/>	
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>	
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>	
5 Sampling: Groundwater Wells Only:					
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6 Based on your professional judgement, is the well construction / location:					
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7 Corrective actions as needed, by date:					
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location: AMA R6 CCR Landfill				
Permit Number:				
Well ID: YGWA-40				
Person Gauging: Kim Lapszynski				
Date: 2/6/2023				
Time: 11:51:00				
		Yes	No	N/A
1	Location Identification:			
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d	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"/>	<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"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input 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"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>
5	Sampling: Groundwater Wells Only:			
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6	Based on your professional judgement, is the well construction / location:			
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Corrective actions as needed, by date:			
8	Date by when corrective actions are needed:			

Groundwater Gauging Well Inspection Report

Project Location: AMA R6 CCR Landfill			Yes	No	N/A
Permit Number:					
Well ID: PZ-37					
Person Gauging: Kim Lapszynski					
Date: 2/6/2023					
Time: 11:57:00					
1 Location Identification:					
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d	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"/>	<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"/>	<input type="checkbox"/>	
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>	
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input 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"/>	<input type="checkbox"/>	
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>	
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>	
5 Sampling: Groundwater Wells Only:					
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6 Based on your professional judgement, is the well construction / location:					
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7 Corrective actions as needed, by date:					
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location: AMA AP-3, A, B and B'				
Permit Number:				
Well ID: PZ-37D				
Person Gauging: Kim Lapszynski				
Date: 2/6/2023				
Time: 12:04:00				
		Yes	No	N/A
1	Location Identification:			
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d	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"/>	<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"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input 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"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>
5	Sampling: Groundwater Wells Only:			
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6	Based on your professional judgement, is the well construction / location:			
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Corrective actions as needed, by date:			
8	Date by when corrective actions are needed:			

Groundwater Gauging Well Inspection Report

Project Location: AMA R6 CCR Landfill				
Permit Number:				
Well ID: PZ-53D				
Person Gauging: Kim Lapszynski				
Date: 2/6/2023				
Time: 12:07:00				
		Yes	No	N/A
1	Location Identification:			
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d	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"/>	<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"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input 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"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>
5	Sampling: Groundwater Wells Only:			
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6	Based on your professional judgement, is the well construction / location:			
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Corrective actions as needed, by date:			
8	Date by when corrective actions are needed:			

Groundwater Gauging Well Inspection Report

Project Location: AMA R6 CCR Landfill			Yes	No	N/A
Permit Number:					
Well ID: PZ-52D					
Person Gauging: Kim Lapszynski					
Date: 2/6/2023					
Time: 12:05:00					
1 Location Identification:					
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d	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"/>	<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"/>	<input type="checkbox"/>	
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>	
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input 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"/>	<input type="checkbox"/>	
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>	
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the depth of the well consistent with the original well log?	<input type="checkbox"/>	<input 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"/>	<input type="checkbox"/>	
5 Sampling: Groundwater Wells Only:					
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6 Based on your professional judgement, is the well construction / location:					
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7 Corrective actions as needed, by date:					
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location: AMA AP-3, A, B and B'			Yes	No	N/A
Permit Number:					
Well ID: YGWC-23S					
Person Gauging: Kim Lapszynski					
Date: 2/6/2023					
Time: 12:16:00					
1 Location Identification:					
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d	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"/>	<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"/>	<input type="checkbox"/>	
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>	
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input 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"/>	<input type="checkbox"/>	
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>	
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>	
5 Sampling: Groundwater Wells Only:					
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6 Based on your professional judgement, is the well construction / location:					
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7 Corrective actions as needed, by date:					
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location: AMA R6 CCR Landfill			Yes	No	N/A
Permit Number:					
Well ID: YAMW-5					
Person Gauging: Kim Lapszynski					
Date: 2/6/2023					
Time: 12:22:00					
1 Location Identification:					
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d	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"/>	<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"/>	<input type="checkbox"/>	
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>	
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input 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"/>	<input type="checkbox"/>	
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>	
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>	
5 Sampling: Groundwater Wells Only:					
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6 Based on your professional judgement, is the well construction / location:					
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7 Corrective actions as needed, by date:					
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location: AMA R6 CCR Landfill				
Permit Number:				
Well ID: YGWC-38				
Person Gauging: Kim Lapszynski				
Date: 2/6/2023				
Time: 12:25:00				
		Yes	No	N/A
1	Location Identification:			
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d	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"/>	<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"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input 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"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>
5	Sampling: Groundwater Wells Only:			
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6	Based on your professional judgement, is the well construction / location:			
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Corrective actions as needed, by date:			
8	Date by when corrective actions are needed:			

Groundwater Gauging Well Inspection Report

Project Location: AMA R6 CCR Landfill			Yes	No	N/A
Permit Number:					
Well ID: YGWA-39					
Person Gauging: Kim Lapszynski					
Date: 2/6/2023					
Time: 12:35:00					
1 Location Identification:					
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d	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"/>	<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"/>	<input type="checkbox"/>	
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>	
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input 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"/>	<input type="checkbox"/>	
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>	
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>	
5 Sampling: Groundwater Wells Only:					
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6 Based on your professional judgement, is the well construction / location:					
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7 Corrective actions as needed, by date:					
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location: AMA R6 CCR Landfill			Yes	No	N/A
Permit Number:					
Well ID: YGWC-43					
Person Gauging: Kim Lapszynski					
Date: 2/6/2023					
Time: 12:42:00					
1 Location Identification:					
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d	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"/>	<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"/>	<input type="checkbox"/>	
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>	
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input 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"/>	<input type="checkbox"/>	
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>	
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>	
5 Sampling: Groundwater Wells Only:					
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6 Based on your professional judgement, is the well construction / location:					
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7 Corrective actions as needed, by date:					
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location: AMA R6 CCR Landfill			Yes	No	N/A
Permit Number:					
Well ID: PZ-51					
Person Gauging: Kim Lapszynski					
Date: 2/6/2023					
Time: 12:45:00					
1 Location Identification:					
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d	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"/>	<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"/>	<input type="checkbox"/>	
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>	
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input 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"/>	<input type="checkbox"/>	
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>	
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>	
5 Sampling: Groundwater Wells Only:					
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6 Based on your professional judgement, is the well construction / location:					
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7 Corrective actions as needed, by date:					
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location: AMA AP-3, A, B and B'				
Permit Number:				
Well ID: PZ-35				
Person Gauging: Kim Lapszynski				
Date: 2/6/2023				
Time: 12:52:00				
		Yes	No	N/A
1	Location Identification:			
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d	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"/>	<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"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input 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"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>
5	Sampling: Groundwater Wells Only:			
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6	Based on your professional judgement, is the well construction / location:			
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Corrective actions as needed, by date:			
8	Date by when corrective actions are needed:			

Groundwater Gauging Well Inspection Report

Project Location: AMA AP-3, A, B and B'			Yes	No	N/A
Permit Number:					
Well ID: YAMW-1					
Person Gauging: Kim Lapszynski					
Date: 2/6/2023					
Time: 12:54:00					
1 Location Identification:					
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d	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"/>	<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"/>	<input type="checkbox"/>	
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>	
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input 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"/>	<input type="checkbox"/>	
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>	
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>	
5 Sampling: Groundwater Wells Only:					
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6 Based on your professional judgement, is the well construction / location:					
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7 Corrective actions as needed, by date:					
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location: AMA R6 CCR Landfill			Yes	No	N/A
Permit Number:					
Well ID: YGWC-36A					
Person Gauging: Kim Lapszynski					
Date: 2/6/2023					
Time: 12:58:00					
1 Location Identification:					
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d	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"/>	<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"/>	<input type="checkbox"/>	
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>	
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input 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"/>	<input type="checkbox"/>	
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>	
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>	
5 Sampling: Groundwater Wells Only:					
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6 Based on your professional judgement, is the well construction / location:					
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7 Corrective actions as needed, by date:					
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location: AMA AP-3, A, B and B'			Yes	No	N/A
Permit Number:					
Well ID: YGWC-24SB					
Person Gauging: Kim Lapszynski					
Date: 2/6/2023					
Time: 13:05:00					
1 Location Identification:					
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d	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"/>	<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"/>	<input type="checkbox"/>	
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>	
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input 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"/>	<input type="checkbox"/>	
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>	
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>	
5 Sampling: Groundwater Wells Only:					
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6 Based on your professional judgement, is the well construction / location:					
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7 Corrective actions as needed, by date:					
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location: AMA AP-3, A, B and B'				
Permit Number:				
Well ID: PZ-241B				
Person Gauging: Kim Lapszynski				
Date: 2/6/2023				
Time: 13:02:00				
		Yes	No	N/A
1	Location Identification:			
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d	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"/>	<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"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input 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"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>
5	Sampling: Groundwater Wells Only:			
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6	Based on your professional judgement, is the well construction / location:			
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Corrective actions as needed, by date:			
8	Date by when corrective actions are needed:			

Groundwater Gauging Well Inspection Report

Project Location: AMA AP-3, A, B and B'			Yes	No	N/A
Permit Number:					
Well ID: YGWC-49					
Person Gauging: Kim Lapszynski					
Date: 2/6/2023					
Time: 13:20:00					
1 Location Identification:					
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d	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"/>	<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"/>	<input type="checkbox"/>	
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>	
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input 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"/>	<input type="checkbox"/>	
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>	
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>	
5 Sampling: Groundwater Wells Only:					
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6 Based on your professional judgement, is the well construction / location:					
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7 Corrective actions as needed, by date:					
8 Date by when corrective actions are needed:					

Upgradient Wells

Groundwater Sampling Form

Updated : 2/22/2023 9:59:13 AM
-05:00

Project Number	30052922	Well ID	YGWA-1I	Date	02/07/2023
Project Location	AP-2	Weather(°F)	Clear 51 F		
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	43.3	Casing Diameter (in)	2
Static Water Level (ft-bmp)	39.06	Total Depth (ft-bmp)	53.6	Water Column(ft)	14.54
MP Elevation	836.6	Pump Intake (ft-bmp)	49	Purge Method	Low-Flow
Sample Time	11:45	Well Volumes Purged	0.64	Sample ID	YAT-YGWA-1I
Purge Start	11:03	Gallons Purged	1.52	Replicate/ Code No.	
Purge End	11:38			Color	Clear

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
11:03:00	00:00	200	39.06	6.71	74.95	0.87	9.78	15.3	187.74
11:08:00	05:00	200	39.98	6.17	101.76	0.77	4.83	16.0	-37.34
11:13:00	10:00	150	40.4	6.57	98.30	1.03	1.59	15.9	-102.75
11:18:00	15:00	150	40.53	6.55	89.26	1.13	1.36	16.0	-86.28
11:23:00	20:00	150	40.72	6.51	82.44	0.95	1.43	16.2	-71.08
11:28:00	25:00	150	40.83	6.50	77.12	1.02	1.63	16.2	-54.52
11:33:00	30:00	150	40.9	6.50	76.30	0.88	1.67	16.5	-43.97
11:38:00	35:00	150	40.96	6.53	75.28	0.71	1.70	16.8	-36.16

Constituent Sampled	Container	Number	Preservative
Chloride	250 mL Plastic	1	None
RAD Chem	1L Plastic	2	HNO3
Metals	250 mL Plastic	1	HNO3
Alkalinity	250 mL Plastic	1	None
TDS	500 mL Plastic	1	None

Comments: None

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
 1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____	Well Locked at Arrival: _____
Condition of Well: _____	Well Locked at Departure: _____
Well Completion: NA	Key Number To Well: NA

Groundwater Sampling Form



Updated : 2/22/2023 9:59:36 AM
-05:00

Project Number 30052922 **Well ID** YGWA-1D **Date** 02/07/2023

Project Location AP-2 **Weather(°F)** 61.7 degrees F and Clear. The wind is blowing S/SE at 6.9 mph.

Measuring Pt. Description Top of Inner Casing **Screen Setting (ft-bmp)** 78.05 **Casing Diameter (in)** 2 **Well Casing Material** PVC

Static Water Level (ft-bmp) 49.88 **Total Depth (ft-bmp)** 128.85 **Water Column(ft)** 78.97 **Gallons in Well** 12.83

MP Elevation 837.25 **Pump Intake (ft-bmp)** 108 **Purge Method** Low-Flow **Sample Method** Low-Flow

Sample Time 13:40 **Well Volumes Purged** 0.16 **Sample ID** YAT-YGWA-1D **Sampled by** Jake Swanson

Purge Start 12:50 **Gallons Purged** 2.11 **Replicate/ Code No.** **Color** Clear

Purge End 13:30

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
12:50:00	00:00	200	49.88	6.04	95.34	0.93	2.87	27.5	31.25
12:55:00	05:00	200	49.93	6.92	166.35	2.01	7.56	17.5	21.03
13:00:00	10:00	200	49.96	7.03	176.90	1.84	1.49	17.0	-159.72
13:05:00	15:00	200	49.98	7.41	184.42	1.02	0.53	16.7	-196.20
13:10:00	20:00	200	49.98	7.62	183.98	0.96	0.31	16.6	-204.58
13:15:00	25:00	200	49.98	7.73	182.14	0.70	0.23	16.6	-209.10
13:20:00	30:00	200	50	7.79	180.31	0.67	0.21	16.5	-214.08
13:25:00	35:00	200	50.03	7.83	177.23	0.82	0.24	16.5	-212.30
13:30:00	40:00	200	50.04	7.86	174.24	0.98	0.30	16.4	-202.69

Constituent Sampled	Container	Number	Preservative
Chloride	250 mL Plastic	1	None
RAD Chem	1L Plastic	2	HNO3
Metals	250 mL Plastic	1	HNO3
Alkalinity	250 mL Plastic	1	None
TDS	500 mL Plastic	1	None

Comments: None

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____ Well Locked at Arrival: _____
 Condition of Well: _____ Well Locked at Departure: _____
 Well Completion: NA Key Number To Well: NA

Groundwater Sampling Form

Updated : 2/22/2023 9:59:54 AM
-05:00

Project Number 30052922 **Well ID** YGWA-2I **Date** 02/07/2023

Project Location AP-2 **Weather(°F)** 61.7 degrees F and Clear. The wind is blowing S/SE at 6.9 mph.

Measuring Pt. Description Top of Inner Casing **Screen Setting (ft-bmp)** 53.45 **Casing Diameter (in)** 2 **Well Casing Material** PVC

Static Water Level (ft-bmp) 46.07 **Total Depth (ft-bmp)** 63.75 **Water Column(ft)** 17.68 **Gallons in Well** 2.87

MP Elevation 866.25 **Pump Intake (ft-bmp)** 60 **Purge Method** Low-Flow **Sample Method** Low-Flow

Sample Time 15:40 **Well Volumes Purged** 0.53 **Sample ID** YAT-YGWA-2I **Sampled by** Jake Swanson

Purge Start 14:46 **Gallons Purged** 1.52 **Replicate/ Code No.** **Color** Clear

Purge End 15:31

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
14:46:00	00:00	200	46.07	6.81	208.20	2.92	8.22	17.4	143.75
14:51:00	05:00	200	47.9	6.77	233.52	1.65	1.49	17.3	-103.02
14:56:00	10:00	200	48.64	6.95	235.72	1.76	0.81	17.3	-115.31
15:01:00	15:00	150	49.43	6.98	233.36	1.08	0.64	17.1	-107.13
15:06:00	20:00	100	49.8	6.97	232.52	0.83	0.62	17.5	-98.21
15:11:00	25:00	100	50.01	6.96	229.02	0.95	0.79	17.5	-91.66
15:16:00	30:00	100	50.45	6.96	225.23	0.80	0.99	17.5	-84.30
15:21:00	35:00	50	50.91	6.96	221.96	0.76	1.21	17.8	-77.35
15:26:00	40:00	50	51.04	6.94	220.61	0.73	1.29	18.0	-73.97
15:31:00	45:00	50	51.2	6.94	219.50	0.70	1.33	18.0	-72.20

Constituent Sampled	Container	Number	Preservative
Chloride	250 mL Plastic	1	None
RAD Chem	1L Plastic	2	HNO3
Metals	250 mL Plastic	1	HNO3
Alkalinity	250 mL Plastic	1	None
TDS	500 mL Plastic	1	None

Comments: Bump check before purge begins

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____ Well Locked at Arrival: _____
Condition of Well: _____ Well Locked at Departure: _____
Well Completion: NA Key Number To Well: NA

Groundwater Sampling Form



Updated : 2/22/2023 10:01:40 AM -05:00

Project Number	30052922	Well ID	YGWA-14S	Date	02/08/2023		
Project Location	AP-2	Weather(°F)	66 cloudy				
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	24.66	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	19.53	Total Depth (ft-bmp)	34.96	Water Column(ft)	15.43	Gallons in Well	2.51
MP Elevation	748.76	Pump Intake (ft-bmp)	30	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	13:50	Well Volumes Purged	0.53	Sample ID	YAT-YGWA-14S	Sampled by	Jake Swanson
Purge Start	13:21	Gallons Purged	1.32	Replicate/ Code No.		Color	Clear
Purge End	13:46						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
13:21:00	00:00	200	19.53	6.86	67.00	1.17	9.13	18.0	131.31
13:26:00	05:00	200	19.91	5.30	67.90	1.45	5.73	18.5	163.63
13:31:00	10:00	200	19.91	5.31	67.18	0.73	5.61	18.6	160.08
13:36:00	15:00	200	19.92	5.38	66.83	0.66	5.50	18.6	157.66
13:41:00	20:00	200	19.92	5.39	67.68	0.49	5.36	18.6	158.21
13:46:00	25:00	200	19.92	5.39	67.84	0.62	5.22	18.7	159.49

Constituent Sampled	Container	Number	Preservative
Chloride	250 mL Plastic	1	None
RAD Chem	1L Plastic	2	HNO3
Metals	250 mL Plastic	1	HNO3
Alkalinity	250 mL Plastic	1	None
TDS	500 mL Plastic	1	None

Comments: None

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot
 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
 1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____ Well Locked at Arrival: _____
 Condition of Well: _____ Well Locked at Departure: _____
 Well Completion: NA Key Number To Well: NA

Groundwater Sampling Form



Updated : 2/22/2023 10:02:05 AM -05:00

Project Number	30052922	Well ID	YGWA-30I	Date	02/08/2023
Project Location	AP-2	Weather(°F)	72 partly cloudy		
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	49.18	Casing Diameter (in)	2
		Well Casing Material	PVC		
Static Water Level (ft-bmp)	44.62	Total Depth (ft-bmp)	59.48	Water Column(ft)	14.86
		Gallons in Well	2.41		
MP Elevation	762.58	Pump Intake (ft-bmp)	54.5	Purge Method	Low-Flow
		Sample Method	Low-Flow		
Sample Time	15:10	Well Volumes Purged	0.77	Sample ID	YAT-YGWA-30I
		Sampled by	Jake Swanson		
Purge Start	14:27	Gallons Purged	1.85	Replicate/ Code No.	
		Color	Clear		
Purge End	15:02				

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
14:27:00	00:00	200	44.62	6.51	38.42	0.74	9.21	19.7	93.36
14:32:00	05:00	200	44.64	5.84	40.67	0.56	7.38	18.7	131.42
14:37:00	10:00	200	44.64	5.98	40.69	0.51	7.09	18.1	129.26
14:42:00	15:00	200	44.64	6.19	40.52	0.53	7.07	17.8	122.98
14:47:00	20:00	200	44.65	6.30	40.58	0.48	7.03	17.7	119.06
14:52:00	25:00	200	44.65	6.37	40.45	0.53	7.02	17.8	116.80
14:57:00	30:00	200	44.65	6.42	40.25	0.55	7.00	17.8	115.88
15:02:00	35:00	200	44.66	6.43	40.31	0.58	7.01	17.8	115.69

Constituent Sampled	Container	Number	Preservative
Chloride	250 mL Plastic	1	None
RAD Chem	1L Plastic	2	HNO3
Metals	250 mL Plastic	1	HNO3
Alkalinity	250 mL Plastic	1	None
TDS	500 mL Plastic	1	None

Comments: None

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
 1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____	Well Locked at Arrival: _____
Condition of Well: _____	Well Locked at Departure: _____
Well Completion: NA	Key Number To Well: NA

Groundwater Sampling Form



Updated : 2/22/2023 10:02:53 AM -05:00

Project Number	30052922	Well ID	YGWA-3D	Date	02/08/2023		
Project Location	AP-2	Weather(°F)	52 cloudy				
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	83.88	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	31.82	Total Depth (ft-bmp)	134.18	Water Column(ft)	102.36	Gallons in Well	16.63
MP Elevation	796.78	Pump Intake (ft-bmp)	113	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	11:40	Well Volumes Purged	0.11	Sample ID	YAT-YGWA-3D	Sampled by	Jake Swanson
Purge Start	10:59	Gallons Purged	1.85	Replicate/ Code No.		Color	Clear
Purge End	11:34						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
10:59:00	00:00	200	31.82	7.71	265.26	0.91	9.45	17.1	-6.04
11:04:00	05:00	200	31.89	7.04	266.72	0.72	1.88	17.3	-141.70
11:09:00	10:00	200	31.9	7.28	266.07	0.69	0.47	17.4	-184.24
11:14:00	15:00	200	31.9	7.56	267.05	0.61	0.24	17.2	-194.59
11:19:00	20:00	200	31.9	7.74	267.28	0.81	0.18	17.2	-193.00
11:24:00	25:00	200	31.9	7.82	267.46	0.77	0.14	17.2	-187.03
11:29:00	30:00	200	31.9	7.86	267.67	0.63	0.12	17.1	-185.02
11:34:00	35:00	200	31.9	7.88	267.70	0.51	0.13	17.2	-184.32

Constituent Sampled	Container	Number	Preservative
Chloride	250 mL Plastic	1	None
RAD Chem	1L Plastic	2	HNO3
Metals	250 mL Plastic	1	HNO3
Alkalinity	250 mL Plastic	1	None
TDS	500 mL Plastic	1	None

Comments: None

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
 1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____ Well Locked at Arrival: _____
 Condition of Well: _____ Well Locked at Departure: _____
 Well Completion: NA Key Number To Well: NA

Groundwater Sampling Form

Updated : 2/22/2023 10:03:12 AM -05:00

Project Number	30052922	Well ID	YGWA-3I	Date	02/08/2023		
Project Location	AP-2	Weather(°F)	52 cloudy				
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	48.85	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	52.28	Total Depth (ft-bmp)	59.05	Water Column(ft)	6.77	Gallons in Well	1.1
MP Elevation	796.55	Pump Intake (ft-bmp)	54	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	10:00	Well Volumes Purged	1.20	Sample ID	YAT-YGWA-3I	Sampled by	Jake Swanson
Purge Start	09:06	Gallons Purged	1.32	Replicate/ Code No.		Color	Clear
Purge End	09:56						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
09:06:00	00:00	100	52.28	7.59	254.58	1.21	9.56	14.3	163.95
09:11:00	05:00	100	52.44	7.54	250.79	0.80	8.94	15.2	159.85
09:16:00	10:00	100	52.47	7.62	298.21	0.71	5.75	15.2	150.01
09:21:00	15:00	100	52.49	7.66	310.51	0.66	4.59	15.3	129.40
09:26:00	20:00	100	52.5	7.68	310.24	0.70	3.63	15.3	30.64
09:31:00	25:00	100	52.5	7.69	303.53	0.75	2.85	15.3	-30.95
09:36:00	30:00	100	52.5	7.70	298.00	0.71	2.10	15.3	-62.01
09:41:00	35:00	100	52.5	7.71	291.26	0.50	1.63	15.4	-81.60
09:46:00	40:00	100	52.5	7.71	284.01	0.53	1.35	15.4	-94.81
09:51:00	45:00	100	52.5	7.72	278.59	0.72	1.27	15.4	-102.18
09:56:00	50:00	100	52.5	7.73	274.63	0.80	1.22	15.4	-107.55

Constituent Sampled	Container	Number	Preservative
Chloride	250 mL Plastic	1	None
RAD Chem	1L Plastic	2	HNO3
Metals	250 mL Plastic	1	HNO3
Alkalinity	250 mL Plastic	1	None
TDS	500 mL Plastic	1	None

Comments: None

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
 1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____ Well Locked at Arrival: _____
 Condition of Well: _____ Well Locked at Departure: _____

Groundwater Sampling Form

Updated : 2/9/2023 11:24:11 AM
-05:00

Project Number	30053438	Well ID	YGWA-39	Date	02/07/2023		
Project Location	AMA R6 CCR Landfill		Weather(°F)	68.2 degrees F and Clear. The wind is blowing S/SW at 5.8 mph.			
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	58.09	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	17.61	Total Depth (ft-bmp)	68.59	Water Column(ft)	50.98	Gallons in Well	8.28
MP Elevation	818.19	Pump Intake (ft-bmp)	63	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	16:15	Well Volumes Purged	0.15	Sample ID	YAT-YGWA-39	Sampled by	Jessica Ware
Purge Start	15:51	Gallons Purged	1.27	Replicate/ Code No.		Color	Clear
Purge End	16:12						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
15:51:00	00:00	200	17.9	7.65	379.53	2.10	8.19	20.7	183.56
15:56:00	05:00	200	17.98	5.63	365.82	1.03	0.25	18.6	71.36
16:01:00	10:00	200	18.02	5.51	364.28	0.88	0.17	18.4	89.50
16:06:00	15:00	200	18.08	5.48	362.22	0.65	0.21	18.2	80.24
16:11:00	20:00	200	18.04	5.49	358.41	0.73	0.19	18.2	82.59

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
Cations, Metals	250 mL Plastic	1	HNO3
TDS	500 mL Plastic	1	None
Alkalinity	250 mL Plastic	1	None
Cl, F, SO4	250 mL Plastic	1	None

Comments: Missing labels, some handwritten

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____ Well Locked at Arrival: _____
Condition of Well: _____ Well Locked at Departure: _____
Well Completion: NA Key Number To Well: NA

Groundwater Sampling Form

Updated : 2/22/2023 10:12:44 AM -05:00

Project Number	30143623	Well ID	YGWA-21I	Date	02/07/2023		
Project Location	AMA AP-3, A, B and B'		Weather(°F)	Sunny, 60's			
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	69.6	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	30.09	Total Depth (ft-bmp)	79.9	Water Column(ft)	49.81	Gallons in Well	8.09
MP Elevation	783.7	Pump Intake (ft-bmp)	75	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	12:48	Well Volumes Purged	0.10	Sample ID	YAT-YGWA-21I	Sampled by	Kim Lapszynski
Purge Start	12:16	Gallons Purged	0.78	Replicate/ Code No.		Color	Clear
Purge End	12:47						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
12:16:00	00:00		30.09	6.99	128.39		1.04	19.8	-5.50
12:21:00	05:00	100	31.96	6.95	146.92	1.95	0.43	17.8	-57.33
12:25:00	09:28	100	32.48	6.87	151.52	1.22	0.23	17.7	-88.28
12:30:00	14:28	100	32.71	6.88	152.10	0.93	0.28	18.8	-104.42
12:35:00	19:28	100	32.96	6.89	151.66	1.02	0.28	18.6	-104.05
12:40:00	24:28	100	33.08	6.86	150.38	0.75	0.34	18.7	-99.55
12:45:00	29:28	100	33.27	6.82	147.85	0.57	0.36	18.6	-91.23

Constituent Sampled	Container	Number	Preservative
RAD 9315/9320, Alkalinity, TDS, Cations (Na, K, Mg), App III/IV Metals, Cl, F, SO4	1L Plastic, 500 mL Plastic, 250 mL Plastic	6	None, HNO3

Comments: Delays due to low-flow sampling templates not presented in the In-Situ app.

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot
 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
 1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____ Well Locked at Arrival: _____
 Condition of Well: _____ Well Locked at Departure: _____
 Well Completion: NA Key Number To Well: NA

Groundwater Sampling Form



Updated : 2/22/2023 10:13:08 AM -05:00

Project Number	30143623	Well ID	YGWA-20S	Date	02/07/2023
Project Location	AMA AP-3, A, B and B'		Weather(°F)	64.6 degrees F and Clear. The wind is blowing S at 6.9 mph	
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	19.22	Casing Diameter (in)	2
				Well Casing Material	PVC
Static Water Level (ft-bmp)	11.03	Total Depth (ft-bmp)	29.52	Water Column(ft)	18.49
				Gallons in Well	3
MP Elevation	767.12	Pump Intake (ft-bmp)	24.5	Purge Method	Low-Flow
				Sample Method	Low-Flow
Sample Time	14:50	Well Volumes Purged	0.40	Sample ID	YAT-YGWA-20S
				Sampled by	Kim Lapszynski
Purge Start	14:02	Gallons Purged	1.19	Replicate/ Code No.	
				Color	Clear
Purge End	14:48				

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
14:02:00	00:00	100	11.03	6.54	46.47		7.88	18.4	132.06
14:07:00	05:00	100	11.62	6.09	45.02	12.40	7.77	17.0	164.68
14:12:00	10:00	100	11.54	5.95	44.99	12.10	7.73	17.0	175.06
14:17:00	15:00	100	11.52	5.88	44.87	9.60	7.67	17.0	180.48
14:22:00	20:00	100	11.55	5.82	44.82	9.14	7.69	16.8	185.67
14:27:00	25:00	100	11.56	5.76	44.72	6.80	7.70	16.6	189.85
14:32:00	30:00	100	11.56	5.71	44.71	5.85	7.72	16.5	193.66
14:37:00	35:00	100	11.56	5.67	44.68	4.84	7.70	16.5	196.27
14:42:00	40:00	100	11.56	5.64	44.64	4.99	7.69	16.6	198.45
14:47:00	45:00	100	11.57	5.63	44.62	4.77	7.69	16.7	200.41

Constituent Sampled	Container	Number	Preservative
RAD 9315/9320, TDS, Alkalinity, App III/IV Metals, Cations(Na, K, Mg), Cl, F, SO4	1L Plastic, 500mL Plastic, 250mL Plastic	6	None, HNO3

Comments: Completed mid-day calibration.

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
 1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____	Well Locked at Arrival: _____
Condition of Well: _____	Well Locked at Departure: _____
Well Completion: NA	Key Number To Well: NA

Groundwater Sampling Form



Updated : 2/22/2023 10:21:42 AM -05:00

Project Number	30143623	Well ID	YGWA-40	Date	02/08/2023
Project Location	AMA R6 CCR Landfill		Weather(°F)	65.7 degrees F and Cloudy. The wind is blowing S/SW at 5.8 mph.	
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	37.73	Casing Diameter (in)	2
Static Water Level (ft-bmp)	22.95	Total Depth (ft-bmp)	48.23	Water Column(ft)	25.28
MP Elevation	815.73	Pump Intake (ft-bmp)	42	Purge Method	Low-Flow
Sample Time	12:02	Well Volumes Purged	0.13	Sample ID	YAT-YGWA-40
Purge Start	11:40	Gallons Purged	0.53	Replicate/ Code No.	
Purge End	12:00				
Well Casing Material	PVC				
Gallons in Well	4.11				
Sample Method	Low-Flow				
Sampled by	Kim Lapszynski				
Color	Clear				

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
11:40:00	00:00	100	22.95	6.11	135.41		4.07	17.9	156.47
11:45:00	05:00	100	23.3	5.83	120.58	0.53	0.45	17.6	175.87
11:50:00	10:00	100	23.36	5.74	117.07	0.56	0.18	17.5	184.77
11:55:00	15:00	100	23.38	5.73	116.19	0.50	0.14	17.4	190.95
12:00:00	20:00	100	23.39	5.71	115.91	0.49	0.11	17.5	196.44

Constituent Sampled	Container	Number	Preservative
RAD 9315/9320, TDS, Alkalinity, App III/IV Metals, Cations (Na, K, Mg), Cl, F, SO4	1L Plastic, 500mL Plastic, 250mL Plastic	6	None, HNO3

Comments: Can not access well with field truck. Parked and walked equipment due to muddy/deep ruts at potential access point.

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
 1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____	Well Locked at Arrival: _____
Condition of Well: _____	Well Locked at Departure: _____
Well Completion: NA _____	Key Number To Well: NA _____

Groundwater Sampling Form



Updated : 2/10/2023 10:07:35 AM -05:00

Project Number	30053438	Well ID	YGWA-17S	Date	02/07/2023
Project Location	AMA AP-3, A, B and B'		Weather(°F)	48.4 degrees F and Clear. The wind is blowing SE at 4.7 mph.	
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	29.65	Casing Diameter (in)	2
				Well Casing Material	PVC
Static Water Level (ft-bmp)	11.65	Total Depth (ft-bmp)	39.85	Water Column(ft)	28.2
				Gallons in Well	4.58
MP Elevation	783.05	Pump Intake (ft-bmp)	35	Purge Method	Low-Flow
				Sample Method	Low-Flow
Sample Time	11:16	Well Volumes Purged	0.28	Sample ID	YAT-YGWA-17S
				Sampled by	Jessica Ware
Purge Start	10:32	Gallons Purged	1.29	Replicate/ Code No.	
				Color	Clear
Purge End	11:14				

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
10:32:00	00:00	100	11.65	5.65	86.52		5.27	15.9	155.52
10:37:00	05:00	125	11.78	5.41	82.66	1.48	3.91	15.0	153.86
10:42:00	10:00	125	11.82	5.43	78.91	1.90	2.46	15.7	140.76
10:47:00	15:00	125	11.81	5.45	79.44	1.46	2.16	15.9	134.12
10:52:00	20:00	125	11.85	5.49	79.91	1.83	2.05	15.9	136.11
10:57:00	25:00	125	11.84	5.47	80.03	1.67	1.96	16.0	136.84
11:02:00	30:00	125	11.83	5.46	79.65	1.76	1.77	16.2	137.74
11:07:00	35:00	125	11.82	5.47	79.68	1.77	1.76	16.2	137.55
11:12:00	40:00	125	11.83	5.47	79.75	1.61	1.75	16.2	139.01

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
App III/IV Metals, Cations	250 mL Plastic	1	HNO3
Alk	250 mL Plastic	1	None
Cl, F, SO4	250 mL Plastic	1	None
TDS	500 mL Plastic	1	None

Comments: None

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
 1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____	Well Locked at Arrival: _____
Condition of Well: _____	Well Locked at Departure: _____
Well Completion: NA	Key Number To Well: NA

Groundwater Sampling Form

Updated : 2/9/2023 11:24:10 AM
-05:00

Project Number	30053438	Well ID	YGWA-18S	Date	02/07/2023		
Project Location	AMA AP-3, A, B and B'		Weather(°F)	61.7 degrees F and Clear. The wind is blowing S/SE at 6.9 mph.			
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	29.97	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	23.68	Total Depth (ft-bmp)	39.97	Water Column(ft)	16.29	Gallons in Well	2.65
MP Elevation	790.57	Pump Intake (ft-bmp)	35	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	13:48	Well Volumes Purged	0.50	Sample ID	YAT-YGWA-18S	Sampled by	Jessica Ware
Purge Start	13:19	Gallons Purged	1.32	Replicate/ Code No.		Color	Clear
Purge End	13:46						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
13:19:00	00:00	200	23.68	5.10	43.69	3.74	3.86	17.3	145.49
13:24:00	05:00	200	21.82	4.92	43.52	2.39	2.61	17.1	158.84
13:29:00	10:00	200	21.8	5.03	43.25	2.38	2.44	17.1	154.87
13:34:00	15:00	200	21.81	5.06	43.33	1.95	2.41	16.9	153.86
13:39:00	20:00	200	21.84	5.09	43.36	2.02	2.41	16.9	153.40
13:44:00	25:00	200	21.84	5.03	43.24	1.68	2.40	17.0	156.56

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
Cations, Metals	250 mL Plastic	1	HNO3
Cl, F, SO4	250 mL Plastic	1	None
Alkalinity	250 mL Plastic	1	None
TDS	500 mL Plastic	1	None

Comments: None

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot
 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
 1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____ Well Locked at Arrival: _____
 Condition of Well: _____ Well Locked at Departure: _____
 Well Completion: NA Key Number To Well: NA

Groundwater Sampling Form



Updated : 2/22/2023 10:13:26 AM -05:00

Project Number	30143623	Well ID	YGWA-5D	Date	02/07/2023		
Project Location	AMA AP-3, A, B and B'		Weather(°F)	67.1 degrees F and Clear. The wind is blowing S at 6.9 mph.			
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	78.83	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	19.43	Total Depth (ft-bmp)	129.13	Water Column(ft)	109.7	Gallons in Well	17.83
MP Elevation	784.53	Pump Intake (ft-bmp)	124	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	16:22	Well Volumes Purged	0.07	Sample ID	YAT-YGWA-5D	Sampled by	Kim Lapszynski
Purge Start	15:59	Gallons Purged	1.32	Replicate/ Code No.		Color	Clear
Purge End	16:20						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
15:59:00	00:00	250	19.43	7.46	215.27		8.15	16.9	85.46
16:04:00	05:00	250	20.23	6.80	233.23	1.71	0.56	16.7	-122.05
16:09:00	10:00	250	20.26	6.73	226.74	0.74	0.42	16.7	-125.79
16:14:00	15:00	250	20.42	6.66	218.99	0.68	0.36	16.7	-128.33
16:19:00	20:00	250	20.48	6.64	217.27	0.65	0.36	16.7	-135.34

Constituent Sampled	Container	Number	Preservative
RAD 9315/9320, TDS, Alkalinity, App III/IV Metals, Cations(Na, K, Mg), Cl, F, SO4	1L Plastic, 500mL Plastic, 250mL Plastic	6	None, HNO3

Comments: None

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot
 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
 1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____	Well Locked at Arrival: _____
Condition of Well: _____	Well Locked at Departure: _____
Well Completion: NA _____	Key Number To Well: NA _____

Groundwater Sampling Form

Updated : 2/9/2023 11:24:09 AM
-05:00

Project Number	30053438	Well ID	YGWA-18I	Date	02/07/2023		
Project Location	AMA AP-3, A, B and B'		Weather(°F)				
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	69.67	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	23.65	Total Depth (ft-bmp)	79.97	Water Column(ft)	56.32	Gallons in Well	9.15
MP Elevation	790.57	Pump Intake (ft-bmp)	75	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	12:31	Well Volumes Purged	0.19	Sample ID	YAT-YGWA-18I	Sampled by	Jessica Ware
Purge Start	12:03	Gallons Purged	1.70	Replicate/ Code No.		Color	Clear
Purge End	12:29						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
12:03:00	00:00	250	23.64	6.38	91.69		8.15	14.9	131.80
12:08:00	05:00	200	23.88	5.88	92.66	1.25	3.62	16.5	140.78
12:13:00	10:00	200	23.95	6.01	92.41	0.75	3.71	16.5	132.73
12:18:00	15:00	200	23.99	5.96	92.68	1.02	3.75	16.5	134.27
12:23:00	20:00	200	24.02	5.99	92.58	0.84	3.84	16.5	132.13
12:28:00	25:00	200	24.01	6.00	92.04	1.19	3.95	16.6	131.37

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
Cations, Metals	250 mL Plastic	1	HNO3
Alk	250 mL Plastic	1	None
Cl, F, SO4	250 mL Plastic	1	None
TDS	500 mL Plastic	1	None

Comments: None

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot
 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
 1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____ Well Locked at Arrival: _____
 Condition of Well: _____ Well Locked at Departure: _____
 Well Completion: NA Key Number To Well: NA

Groundwater Sampling Form



Updated : 2/22/2023 10:33:40 AM -05:00

Project Number	30143623	Well ID	YGWA-5I	Date	02/09/2023
Project Location	AMA AP-3, A, B and B'		Weather(°F)	62.6 degrees F and Mostly Cloudy. The wind is blowing S/SW at 8.1 mph.	
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	48.64	Casing Diameter (in)	2
				Well Casing Material	PVC
Static Water Level (ft-bmp)	19.06	Total Depth (ft-bmp)	58.94	Water Column(ft)	39.88
				Gallons in Well	6.48
MP Elevation	784.54	Pump Intake (ft-bmp)	53	Purge Method	Low-Flow
				Sample Method	Low-Flow
Sample Time	11:26	Well Volumes Purged	0.08	Sample ID	YAT-YGWA-5I
				Sampled by	Kim Lapszynski
Purge Start	11:03	Gallons Purged	0.53	Replicate/ Code No.	
				Color	Clear
Purge End	11:24				

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
11:03:00	00:00	100	19.06	7.11	70.88		8.71	15.4	122.00
11:08:00	05:00	100	19.22	6.15	67.99	1.03	6.25	16.3	143.52
11:13:00	10:00	100	19.23	5.94	68.99	0.74	6.16	16.5	158.08
11:18:00	15:00	100	19.24	5.91	69.23	0.70	6.15	16.5	164.37
11:23:00	20:00	100	19.24	5.90	69.31	0.78	6.16	16.6	169.40

Constituent Sampled	Container	Number	Preservative
RAD 9315/9320, TDS, Alkalinity, App III/IV Metals, Cations (Na, K, Mg), Cl, F, SO4	1L Plastic, 500mL Plastic, 250mL Plastic	6	None, HNO3

Comments: None.

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
 1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____	Well Locked at Arrival: _____
Condition of Well: _____	Well Locked at Departure: _____
Well Completion: NA _____	Key Number To Well: NA _____

Groundwater Sampling Form



Updated : 2/22/2023 10:23:26 AM -05:00

Project Number	30143623	Well ID	YGWA-4I	Date	02/09/2023
Project Location	AMA AP-3, A, B and B'		Weather(°F)	60.1 degrees F and Cloudy. The wind is blowing S at 10.3 mph.	
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	38.51	Casing Diameter (in)	2
				Well Casing Material	PVC
Static Water Level (ft-bmp)	23.5	Total Depth (ft-bmp)	48.81	Water Column(ft)	25.31
				Gallons in Well	4.11
MP Elevation	784.21	Pump Intake (ft-bmp)	45	Purge Method	Low-Flow
				Sample Method	Low-Flow
Sample Time	09:55	Well Volumes Purged	0.18	Sample ID	YAT-YGWA-4I
				Sampled by	Kim Lapszynski
Purge Start	09:27	Gallons Purged	0.73	Replicate/ Code No.	
				Color	Clear
Purge End	09:52				

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
09:27:00	00:00	150	23.5	7.53	113.72		8.49	14.7	141.05
09:32:00	05:00	100	24.18	6.28	117.89	0.69	3.18	15.7	145.11
09:37:00	10:00	100	24.29	6.23	119.05	1.10	1.91	15.8	147.04
09:42:00	15:00	100	24.37	6.23	119.54	0.62	1.56	15.8	147.02
09:47:00	20:00	100	24.43	6.23	119.62	0.53	1.46	15.8	147.38
09:52:00	25:00	100	24.47	6.23	119.35	0.78	1.43	15.8	147.95

Constituent Sampled	Container	Number	Preservative
RAD 9315/9320, TDS, Alkalinity, Cations (Na, K, Mg), App III/IV Metals, Cl, F, SO4	1L Plastic, 500mL Plastic, 250mL Plastic	6	None, HNO3

Comments: None.

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
 1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____	Well Locked at Arrival: _____
Condition of Well: _____	Well Locked at Departure: _____
Well Completion: NA _____	Key Number To Well: NA _____

Groundwater Sampling Form

Updated : 2/22/2023 9:54:25 AM
-05:00

Project Number	30143608	Well ID	GWA-2	Date	02/07/2023		
Project Location	Gypsum Landfill		Weather(°F)	56 °F, Cold, SW winds at 5 mph.			
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	42.1	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	37.49	Total Depth (ft-bmp)	52.13	Water Column(ft)	14.64	Gallons in Well	2.38
MP Elevation	805.62	Pump Intake (ft-bmp)	47	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	11:48	Well Volumes Purged	0.78	Sample ID	YAT-GWA-2	Sampled by	Mark Chest
Purge Start	11:08	Gallons Purged	1.85	Replicate/ Code No.		Color	Clear
Purge End	11:43						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
11:08:00	00:00		37.49	6.58	264.36		7.37	16.6	201.73
11:09:00	00:26	200	37.49	6.16	285.68	0.56	5.96	17.1	167.95
11:14:00	05:26	200	38.59	6.02	295.43	0.58	0.79	17.0	178.41
11:19:00	10:26	200	39.4	5.98	278.20	1.00	0.77	17.0	191.22
11:24:00	15:26	200	39.75	5.97	269.44	0.25	0.60	17.1	188.69
11:29:00	20:26	200	39.99	5.95	265.58	0.99	0.52	17.2	182.50
11:34:00	25:26	200	40.13	5.94	262.73	1.17	0.46	17.2	176.16
11:39:00	30:26	200	40.2	5.92	261.81	0.70	0.43	17.3	169.56
11:44:00	35:26	200	40.33	5.94	260.35	1.09	0.42	17.3	162.08

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
Cations ,Metals	250 mL Plastic	1	HNO3
TDS	500 mL Plastic	1	None
Cl, F, and SO4	250 mL Plastic	1	None
Alkalinity	250 mL Plastic	1	None

Comments: Good

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____ Well Locked at Arrival: _____
 Condition of Well: _____ Well Locked at Departure: _____
 Well Completion: NA Key Number To Well: NA

Groundwater Sampling Form

Updated : 2/22/2023 9:56:23 AM
-05:00

Project Number	30143608	Well ID	YGWA-47	Date	02/08/2023		
Project Location	AP-1	Weather(°F)	68.0 degrees F and Mostly Cloudy. The wind is blowing S at 5.8 mph.				
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	49.4	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	35.25	Total Depth (ft-bmp)	59.19	Water Column(ft)	23.94	Gallons in Well	3.89
MP Elevation	758.22	Pump Intake (ft-bmp)	54	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	17:02	Well Volumes Purged	0.27	Sample ID	YAT-YGWA-47	Sampled by	Mark Chest
Purge Start	16:23	Gallons Purged	1.06	Replicate/ Code No.		Color	Clear
Purge End	16:45						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
16:23:00	00:00	200	35.25	5.91	191.39	2.14	6.32	18.8	190.41
16:28:00	05:00	200	35.29	5.17	194.56	0.43	3.20	18.4	215.07
16:33:00	10:00	200	35.29	5.13	194.36	0.32	2.88	18.4	217.37
16:38:00	15:00	200	35.29	5.16	194.76	0.46	2.80	18.2	216.94
16:43:00	20:00	200	35.29	5.22	195.55	0.46	2.74	18.3	215.55

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
Cations ,Metals	250 mL Plastic	1	HNO3
TDS	500 mL Plastic	1	None
Alkalinity	250 mL Plastic	1	None
Cl, F, SO4	500 mL Plastic	1	None

Comments: Good

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____ Well Locked at Arrival: _____
 Condition of Well: _____ Well Locked at Departure: _____
 Well Completion: NA _____ Key Number To Well: NA _____

Groundwater Gauging Well Inspection Report

Project Location:		AP-2			
Permit Number:					
Well ID:		YGWA-30I			
Person Gauging:		Jake Swanson			
Date:		2/6/2023			
Time:		01:38:00			
			Yes	No	N/A
1	Location Identification:				
a	Is the well visible and accessible?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d	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"/>	<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"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?		<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?		<input checked="" type="checkbox"/>	<input 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"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?		<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?		<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>
5	Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6	Based on your professional judgement, is the well construction / location:				
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	and 2) comply with the applicable regulatory requirements?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

Project Location:		AP-2			
Permit Number:					
Well ID:		PZ-3S			
Person Gauging:		Kim Lapszynski			
Date:		2/6/2023			
Time:		10:55:00			
			Yes	No	N/A
1	Location Identification:				
a	Is the well visible and accessible?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d	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"/>	<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"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?		<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?		<input checked="" type="checkbox"/>	<input 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"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?		<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?		<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>
5	Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6	Based on your professional judgement, is the well construction / location:				
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	and 2) comply with the applicable regulatory requirements?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

Project Location: AP-2			Yes	No	N/A
Permit Number:					
Well ID: YGWA-3I					
Person Gauging: Kim Lapszynski					
Date: 2/6/2023					
Time: 10:56:00					
1 Location Identification:					
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d	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"/>	<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"/>	<input type="checkbox"/>	
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>	
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input 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"/>	<input type="checkbox"/>	
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>	
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>	
5 Sampling: Groundwater Wells Only:					
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6 Based on your professional judgement, is the well construction / location:					
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7 Corrective actions as needed, by date:					
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location: AP-2			Yes	No	N/A
Permit Number:					
Well ID: YGWA-3D					
Person Gauging: Kim Lapszynski					
Date: 2/6/2023					
Time: 10:57:00					
1 Location Identification:					
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d	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"/>	<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"/>	<input type="checkbox"/>	
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>	
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input 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"/>	<input type="checkbox"/>	
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>	
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>	
5 Sampling: Groundwater Wells Only:					
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6 Based on your professional judgement, is the well construction / location:					
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7 Corrective actions as needed, by date:					
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location: AP-2			Yes	No	N/A
Permit Number:					
Well ID: YGWA-2I					
Person Gauging: Kim Lapszynski					
Date: 2/6/2023					
Time: 11:06:00					
1 Location Identification:					
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d	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"/>	<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"/>	<input type="checkbox"/>	
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>	
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input 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"/>	<input type="checkbox"/>	
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>	
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>	
5 Sampling: Groundwater Wells Only:					
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6 Based on your professional judgement, is the well construction / location:					
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7 Corrective actions as needed, by date:					
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location: AP-2			Yes	No	N/A
Permit Number:					
Well ID: YGWA-1D					
Person Gauging: Kim Lapszynski					
Date: 2/6/2023					
Time: 11:10:00					
1 Location Identification:					
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	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"/>	<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"/>	<input type="checkbox"/>	
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>	
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input 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"/>	<input type="checkbox"/>	
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>	
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>	
5 Sampling: Groundwater Wells Only:					
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6 Based on your professional judgement, is the well construction / location:					
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7 Corrective actions as needed, by date:					
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location:		AP-2			
Permit Number:					
Well ID:		PZ-1S			
Person Gauging:		Kim Lapszynski			
Date:		2/6/2023			
Time:		11:11:00			
			Yes	No	N/A
1	Location Identification:				
a	Is the well visible and accessible?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d	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"/>	<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"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?		<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?		<input checked="" type="checkbox"/>	<input 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"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?		<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?		<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>
5	Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6	Based on your professional judgement, is the well construction / location:				
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	and 2) comply with the applicable regulatory requirements?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

Project Location: AP-2			Yes	No	N/A
Permit Number:					
Well ID: YGWA-11					
Person Gauging: Kim Lapszynski					
Date: 2/6/2023					
Time: 11:12:00					
1 Location Identification:					
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d	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"/>	<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"/>	<input type="checkbox"/>	
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>	
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input 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"/>	<input type="checkbox"/>	
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>	
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>	
5 Sampling: Groundwater Wells Only:					
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6 Based on your professional judgement, is the well construction / location:					
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7 Corrective actions as needed, by date:					
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location:		AP-2			
Permit Number:					
Well ID:		YGWA-14S			
Person Gauging:		Jake Swanson			
Date:		2/6/2023			
Time:		02:12:00			
			Yes	No	N/A
1	Location Identification:				
a	Is the well visible and accessible?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d	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"/>	<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"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?		<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?		<input checked="" type="checkbox"/>	<input 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"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?		<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?		<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>
5	Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6	Based on your professional judgement, is the well construction / location:				
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	and 2) comply with the applicable regulatory requirements?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

Project Location: Gypsum Landfill			Yes	No	N/A
Permit Number:					
Well ID: GWA-2					
Person Gauging: Jake Swanson					
Date: 2/6/2023					
Time: 09:16:00					
1 Location Identification:					
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well properly identified with the correct well ID?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d	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"/>	<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"/>	<input type="checkbox"/>	
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>	
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input 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"/>	<input type="checkbox"/>	
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>	
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>	
5 Sampling: Groundwater Wells Only:					
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6 Based on your professional judgement, is the well construction / location:					
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7 Corrective actions as needed, by date:					
Well ID is faded and bollards needs painting					
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location:		AP-1			
Permit Number:					
Well ID:		YGWA-47			
Person Gauging:		Jake Swanson			
Date:		2/6/2023			
Time:		11:02:00			
			Yes	No	N/A
1	Location Identification:				
a	Is the well visible and accessible?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d	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"/>	<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"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?		<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?		<input checked="" type="checkbox"/>	<input 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"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?		<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?		<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>
5	Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6	Based on your professional judgement, is the well construction / location:				
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	and 2) comply with the applicable regulatory requirements?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

Project Location: AMA R6 CCR Landfill				
Permit Number:				
Well ID: YGWA-39				
Person Gauging: Kim Lapszynski				
Date: 2/6/2023				
Time: 12:35:00				
		Yes	No	N/A
1	Location Identification:			
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d	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"/>	<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"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input 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"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>
5	Sampling: Groundwater Wells Only:			
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6	Based on your professional judgement, is the well construction / location:			
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Corrective actions as needed, by date:			
8	Date by when corrective actions are needed:			

Groundwater Gauging Well Inspection Report

Project Location: AMA AP-3, A, B and B'			Yes	No	N/A
Permit Number:					
Well ID: YGWA-211					
Person Gauging: Kim Lapszynski					
Date: 2/6/2023					
Time: 09:29:00					
1 Location Identification:					
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	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"/>	<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"/>	<input type="checkbox"/>	
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>	
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input 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"/>	<input type="checkbox"/>	
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>	
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>	
5 Sampling: Groundwater Wells Only:					
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6 Based on your professional judgement, is the well construction / location:					
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7 Corrective actions as needed, by date:					
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location: AMA R6 CCR Landfill				
Permit Number:				
Well ID: YGWA-40				
Person Gauging: Kim Lapszynski				
Date: 2/6/2023				
Time: 11:51:00				
		Yes	No	N/A
1	Location Identification:			
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d	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"/>	<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"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input 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"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>
5	Sampling: Groundwater Wells Only:			
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6	Based on your professional judgement, is the well construction / location:			
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Corrective actions as needed, by date:			
8	Date by when corrective actions are needed:			

Groundwater Gauging Well Inspection Report

Project Location: AMA AP-3, A, B and B'			Yes	No	N/A
Permit Number:					
Well ID: YGWA-17S					
Person Gauging: Kim Lapszynski					
Date: 2/6/2023					
Time: 10:41:00					
1 Location Identification:					
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d	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"/>	<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"/>	<input type="checkbox"/>	
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>	
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input 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"/>	<input type="checkbox"/>	
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>	
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>	
5 Sampling: Groundwater Wells Only:					
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6 Based on your professional judgement, is the well construction / location:					
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7 Corrective actions as needed, by date:					
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location: AMA AP-3, A, B and B'			Yes	No	N/A
Permit Number:					
Well ID: YGWA-18I					
Person Gauging: Kim Lapszynski					
Date: 2/6/2023					
Time: 10:18:00					
1 Location Identification:					
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d	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"/>	<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"/>	<input type="checkbox"/>	
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>	
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input 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"/>	<input type="checkbox"/>	
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>	
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>	
5 Sampling: Groundwater Wells Only:					
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6 Based on your professional judgement, is the well construction / location:					
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7 Corrective actions as needed, by date:					
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location: AMA AP-3, A, B and B'			Yes	No	N/A
Permit Number:					
Well ID: YGWA-20S					
Person Gauging: Kim Lapszynski					
Date: 2/6/2023					
Time: 09:22:00					
1 Location Identification:					
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d	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"/>	<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"/>	<input type="checkbox"/>	
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>	
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input 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"/>	<input type="checkbox"/>	
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>	
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>	
5 Sampling: Groundwater Wells Only:					
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6 Based on your professional judgement, is the well construction / location:					
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7 Corrective actions as needed, by date:					
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location: AMA AP-3, A, B and B'			Yes	No	N/A
Permit Number:					
Well ID: YGWA-5D					
Person Gauging: Kim Lapszynski					
Date: 2/6/2023					
Time: 09:38:00					
1 Location Identification:					
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d	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"/>	<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"/>	<input type="checkbox"/>	
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>	
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input 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"/>	<input type="checkbox"/>	
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>	
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>	
5 Sampling: Groundwater Wells Only:					
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6 Based on your professional judgement, is the well construction / location:					
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7 Corrective actions as needed, by date:					
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location: AMA AP-3, A, B and B'			Yes	No	N/A
Permit Number:					
Well ID: YGWA-5I					
Person Gauging: Kim Lapszynski					
Date: 2/6/2023					
Time: 09:40:00					
1 Location Identification:					
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d	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"/>	<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"/>	<input type="checkbox"/>	
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>	
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input 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"/>	<input type="checkbox"/>	
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>	
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>	
5 Sampling: Groundwater Wells Only:					
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6 Based on your professional judgement, is the well construction / location:					
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7 Corrective actions as needed, by date:					
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location: AMA AP-3, A, B and B'			Yes	No	N/A
Permit Number:					
Well ID: YGWA-18S					
Person Gauging: Kim Lapszynski					
Date: 2/6/2023					
Time: 10:17:00					
1 Location Identification:					
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d	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"/>	<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"/>	<input type="checkbox"/>	
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>	
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input 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"/>	<input type="checkbox"/>	
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>	
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input 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"/>	<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"/>	<input type="checkbox"/>	
5 Sampling: Groundwater Wells Only:					
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6 Based on your professional judgement, is the well construction / location:					
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7 Corrective actions as needed, by date:					
8 Date by when corrective actions are needed:					

Appendix B

Analytical Laboratory Data and Validation Reports

Georgia Power Co. – Plant Yates

Data Review Report

Metals, General Chemistry, and Radium Analyses

SDGs #92651579 and 92651580

Analyses Performed By:

Pace Analytical Services – Asheville, North Carolina

Pace Analytical Services – Peachtree Corners, Georgia

Pace Analytical Services – Greensburg, Pennsylvania

Report #49112R

Review Level: Tier II

Project: 30143622.3

Summary

This Data Review Report summarizes the review of Sample Delivery Groups (SDGs) #92651579 and 92651580 for samples collected in association with the Georgia Power Company – Plant Yates. The review was conducted as a Tier II evaluation and included review of data package completeness. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the chain of custody form and a table summarizing the data validation qualifiers. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis		
					RAD	MET	GEN CHEM
YAT-YGWC-23S	92651579001 92651580001	Water	2/8/2023		X	X	X
YAT-YGWC-42	92651579002 92651580002	Water	2/8/2023		X	X	X
YAT-PZ-37	92651579003 92651580003	Water	2/8/2023		X	X	X
YAT-AMA-R6-FD-3	92651579004 92651580004	Water	2/8/2023	YAT-PZ-37	X	X	X
YAT-PZ-37D	92651579005 92651580005	Water	2/8/2023		X	X	X
YAT-PZ-52D	92651579006 92651580006	Water	2/8/2023		X	X	X
YAT-AMA-R6-EB-1	92651579007 92651580007	Water	2/8/2023		X	X	X
YAT-AMA-R6-FB-2	92651579008 92651580008	Water	2/8/2023		X	X	X
YAT-YGWC-38	92651579009 92651580009	Water	2/8/2023		X	X	X
YAT-AMA-R6-FD-2	92651579010 92651580010	Water	2/8/2023	YAT-YGWC-38	X	X	X
YAT-YGWC-41	92651579011 92651580011	Water	2/8/2023		X	X	X
YAT-YGWC-43	92651579012 92651580012	Water	2/8/2023		X	X	X

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Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis		
					RAD	MET	GEN CHEM
YAT-YAMW-2	92651579013 92651580013	Water	2/8/2023		X	X	X
YAT-YAMW-4	92651579014 92651580014	Water	2/8/2023		X	X	X
YAT-YAMW-5	92651579015 92651580015	Water	2/8/2023		X	X	X
YAT-YAMW-1	92651579016 92651580016	Water	2/9/2023		X	X	X
YAT-AMA-R6-FD-1	92651579017 92651580017	Water	2/9/2023	YAT-YAMW-1	X	X	X
YAT-YGWC-36A	92651579018 92651580018	Water	2/9/2023		X	X	X
YAT-AMA-R6-FB-1	92651579020 92651580020	Water	2/9/2023		X	X	X
YAT-YGWC-24SB	92651579021 92651580021	Water	2/10/2023		X	X	X
YAT-PZ-51	92651579022 92651580055	Water	2/9/2023		X	X	X
YAT-AMA-R6-EB-2	92651579023 92651580023	Water	2/9/2023		X	X	X
YAT-YGWC-49	92651579024 92651580024	Water	2/9/2023		X	X	X
YAT-YAMW-3	92651579025 92651580025	Water	2/9/2023		X	X	X
YAT-PZ-35	92651576012 92651578012	Water	2/9/2023		X	X	X

Notes:

1. Metals and total dissolved solids (TDS) analysis performed by Pace Analytical Services – Peachtree Corners, Georgia.
2. Alkalinity and anions (chloride, fluoride, and sulfate) analysis performed by Pace Analytical Services – Asheville, North Carolina.
3. Radium analysis performed by Pace Analytical Services – Greensburg, Pennsylvania.
4. pH analysis performed as a field measurement.

Analytical Data Package Documentation

The table below evaluates the data package completeness.

Items Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Sample receipt condition		X		X	
2. Requested analyses and sample results		X		X	
3. Master tracking list		X		X	
4. Methods of analysis		X		X	
5. Reporting limits		X		X	
6. Sample collection date		X		X	
7. Laboratory sample received date		X		X	
8. Sample preservation verification (as applicable)		X		X	
9. Sample preparation/extraction/analysis dates		X		X	
10. Fully executed chain-of-custody form		X		X	
11. Narrative summary of QA or sample problems provided		X		X	
12. Data package completeness and compliance		X		X	

Note:

QA = quality assurance

Inorganic Analysis Introduction

Analyses were performed according to United States Environmental Protection Agency (USEPA) SW-846 Methods 6010D, 6020B, 7470A, 9315, and 9320; Standard Method (SM) SM4500-H+ B, SM2540C, and SM2320B; and USEPA Method 300.0. Data were reviewed in accordance with USEPA Region IV Data Validation Standard Operating Procedures for Contract Laboratory Program Inorganic Data by Inductively Coupled Plasma–Atomic Emission Spectroscopy and Inductively Coupled Plasma–Mass Spectroscopy (September 2011, Rev. 2), USEPA Region IV Data Validation Standard Operating Procedures for Contract Laboratory Program Mercury Data by Cold Vapor Atomic Absorption (September 2011, Rev. 2), and the USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review, EPA 542-R-20-006, November 2020 (with reference to the historical USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review, OSWER 9240.1-45, October 2004, as appropriate).

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and that it was already subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with the USEPA National Functional Guidelines:

- Concentration (C) Qualifiers
 - U The analyte was analyzed for but not detected. The associated value is the analyte instrument detection limit.
 - J The reported value was obtained from a reading less than the reporting limit (RL), but greater than or equal to the method detection limit (MDL).
- Quantitation (Q) Qualifiers
 - E The reported value is estimated due to the presence of interference.
 - N Spiked sample recovery is not within control limits.
 - * Duplicate analysis is not within control limits.
- Validation Qualifiers
 - J The analyte was positively identified; however, the associated numerical value is an estimated concentration only.
 - UJ The analyte was not detected above the reporting limit. However, the reported limit is approximate and may or may not represent the actual limit of detection.
 - UB Analyte considered non-detect at the listed value due to associated blank contamination.
 - R The sample results are rejected.

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Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

Metals Analyses

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 6010D/6020B	Water	180 days from collection to analysis	Cool to <6°C; preserved to a pH of less than 2 s.u.
SW-846 7470A	Water	28 days from collection to analysis	Cool to <6°C; preserved to a pH of less than 2 s.u.

Note:

s.u. = standard units

All samples were analyzed within the specified holding times.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

All compounds associated with the QA blanks exhibited a concentration less than the MDL, with the exception of the compounds listed in the following table. Sample results less than the BAL associated with the following sample locations were qualified as listed in the following table.

Sample Locations	Analytes	Sample Result	Qualification
YAT-YGWC-42 YAT-PZ-52D YAT-YGWC-41 YAT-YGWC-43 YAT-YAMW-4 YAT-YAMW-5	Arsenic (EB, FB)	Detected sample results <RL and <BAL	"UB" at the RL

Sample Locations	Analytes	Sample Result	Qualification
YAT-YAMW-1 YAT-AMA-R6-FD-1 YAT-YGWC-36A YAT-YGWC-24SB YAT-PZ-35	Arsenic (FB)	Detected sample results <RL and <BAL	"UB" at the RL
YAT-YGWC-36A YAT-YGWC-49	Boron (EB)		
YAT-PZ-35	Boron (EB)	Detected sample results >RL and <BAL	"UB" at detected sample result

Notes:

EB = Equipment blank

FB = Field blank

RL = Reporting limit

3. Matrix Spike/Matrix Spike Duplicate (MS/MSD)/Laboratory Duplicate Analysis

MS/MSD and laboratory duplicate data are used to assess the precision and accuracy of the analytical method.

3.1 MS/MSD Analysis

All metal analytes must exhibit a percent recovery within the established acceptance limits of 75% to 125%. The MS recovery control limits do not apply for MS performed on sample locations where the analyte's concentration detected in the parent sample exceeds the MS concentration by a factor of four or greater.

The MS/MSD analysis performed using sample YAT-AMA-R6-FD-3 in association with SW-846 6020B analysis exhibited recoveries within the control limits.

The MS/MSD analysis performed using sample YAT-PZ-37 in association with SW-846 7470A analysis exhibited recoveries within the control limits.

MS/MSD analysis was not performed using a sample from this SDG in association with SW-846 6010D analysis.

3.2 Laboratory Duplicate Analysis

The laboratory duplicate relative percent difference (RPD) criterion is applied when parent and duplicate sample concentrations are greater than or equal to 5 times the RL. A control limit of 20% for water matrices is applied when the criteria above is true. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of one times the RL is applied for water matrices.

MS/MSD analysis was performed in replacement of the laboratory duplicate analysis in association with SW-846 6020B and SW-846 7470A analysis. The MS/MSD recoveries exhibited acceptable RPDs.

Laboratory duplicate or MS/MSD analysis was not performed using a sample from this SDG in association with SW-846 6010D analysis.

4. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 35% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices.

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
YAT-YAMW-1 / YAT-AMA-R6-FD-1	Calcium	31.7	29.0	8.9%
	Potassium	9.7	9.0	7.5%
	Sodium	22.2	20.4	8.5%
	Magnesium	25.4	23.4	8.2%
	Barium	0.078	0.081	3.8%
	Boron	0.63	0.66	4.7%
	Beryllium	0.00012 J	0.00013 J	AC
	Cobalt	0.0045 J	0.0046 J	
	Lithium	0.019 J	0.020 J	
	Selenium	0.0051	0.0050	
YAT-YGWC-38 / YAT-AMA-R6-FD-2	Calcium	55.3	56.5	2.1%
	Potassium	3.8	3.9	2.6%
	Sodium	18.1	18.4	1.6%
	Magnesium	27.5	27.9	1.4%
	Boron	4.1	4.0	2.5%
	Selenium	0.056	0.055	1.8%
	Barium	0.016	0.015	AC
	Beryllium	0.0020	0.0019	
	Cadmium	0.00068	0.00071	

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
	Lithium	0.0058 J	0.0056 J	
YAT-PZ-37 / YAT-AMA-R6-FD-3	Calcium	95.9	97.3	1.4%
	Potassium	4.6	4.5	2.2%
	Sodium	27.6	27.9	1.1%
	Magnesium	50.7	51.1	0.8%
	Boron	8.2	7.7	6.3%
	Selenium	0.16	0.15	6.5%
	Barium	0.022	0.021	AC
	Beryllium	0.0011	0.0011	
	Cadmium	0.00076	0.00069	
	Cobalt	0.0022 J	0.0020 J	
	Lithium	0.013 J	0.012 J	

Note:

AC = Acceptable

The differences in the results between the parent sample YAT-YAMW-1 and field duplicate sample YAT-AMA-R6-FD-1 were acceptable.

The differences in the results between the parent sample YAT-YGWC-38 and field duplicate sample YAT-AMA-R6-FD-2 were acceptable.

The differences in the results between the parent sample YAT-PZ-37 and field duplicate sample YAT-AMA-R6-FD-3 were acceptable.

5. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the accuracy of the analytical method independent of matrix interferences. The analytes associated with the LCS analysis must exhibit a percent recovery between the control limits of 80% and 120%.

The LCS analysis exhibited recoveries within the control limits.

6. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist for Metals

METALS: SW-846 6010D/6020B/7470A	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
Inductively Coupled Plasma-Atomic Emission Spectrometry (ICP-AES) Inductively Coupled Plasma-Mass Spectrometry (ICP-MS) Atomic Absorption – Manual Cold Vapor (CV)					
Tier II Validation					
Holding Times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method Blanks		X		X	
B. Equipment/Field Blanks		X	X		
Laboratory Control Sample (LCS) %R		X		X	
Matrix Spike (MS) %R		X		X	
Matrix Spike Duplicate (MSD) %R		X		X	
MS/MSD Precision (RPD)		X		X	
Laboratory Duplicate (RPD)	X				X
Field Duplicate (RPD)		X		X	

Notes:

%R Percent recovery

RPD Relative percent difference

General Chemistry Analyses

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
pH by SM4500-H+ B	Water	ASAP	Cool to <6°C
Total Dissolved Solids (TDS) by SM2540C	Water	7 days from collection to analysis	Cool to <6°C
Alkalinity by SM2320B	Water	14 days from collection to analysis	Cool to <6°C
Chloride, Fluoride, and Sulfate by USEPA 300.0	Water	28 days from collection to analysis	Cool to <6°C

All samples were analyzed within the specified holding times.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

All compounds associated with the QA blanks exhibited a concentration less than the MDL, with the exception of the compounds listed in the following table. Sample results less than the BAL associated with the following sample locations were qualified as listed in the following table.

Sample Locations	Analytes	Sample Result	Qualification
YAT-TGWC-23S YAT-YGWC-41 YAT-YGWC-43 YAT-YAMW-2 YAT-YAMW-4	TDS (FB)	Detected sample results >RL and <BAL	"UB" at detected sample result

Notes:

FB = Field blank

RL = Reporting limit

3. Matrix Spike/Matrix Spike Duplicate (MS/MSD)/Laboratory Duplicate Analysis

MS/MSD and laboratory duplicate data are used to assess the precision and accuracy of the analytical method.

3.1 MS/MSD Analysis

All analytes must exhibit a percent recovery within the established acceptance limits of 75% to 125%. The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the analyte's concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater. In instance where this is true, the data will not be qualified even if the percent recovery does not meet the control limits and the laboratory flag will be removed.

The MS/MSD analysis performed using samples YAT-YGWC-38, and YAT-AMA-R6-FD-2 in association with alkalinity analysis exhibited recoveries within the control limits.

The MS/MSD analysis performed using samples YAT-YGWC-23S, YAT-YAMW-5, and YAT-AMA-R6-FB-1 in association with anions analysis exhibited recoveries within the control limits.

3.2 Laboratory Duplicate Analysis

The laboratory duplicate relative percent difference (RPD) criterion is applied when parent and duplicate sample concentrations are greater than or equal to 5 times the RL. A control limit of 20% for water matrices is applied when the criteria above is true. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of one times the RL is applied for water matrices.

The laboratory duplicate analysis performed using samples YAT-PZ-37, YAT-YAMW-2, YAT-PZ-51 in association with TDS analysis exhibited an RPD or difference in the results within the control limit.

MS/MSD analysis was performed in replacement of the laboratory duplicate analysis in association with alkalinity and anions. The MS/MSD recoveries exhibited acceptable RPDs.

4. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 35% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices.

Results for duplicate samples are summarized in the following table.

Data Review Report

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
YAT-YAMW-1 / YAT-AMA-R6-FD-1	TDS	347	344	0.9%
	Alkalinity, Bicarbonate (CaCO3)	29.2	28.6	2.1%
	Alkalinity, Total as CaCO3	29.2	28.6	2.1%
	Chloride	5.4	5.4	0.0%
	Sulfate	209	208	0.5%
	Alkalinity, Carbonate (CaCO3)	5.0 U	5.0 U	AC
	Fluoride	0.10 U	0.10 U	
YAT-YGWC-38 / YAT-AMA-R6-FD-2	TDS	579	485	17.7%
	Sulfate	251	252	0.4%
	Alkalinity, Bicarbonate (CaCO3)	8.2	8.6	AC
	Alkalinity, Carbonate (CaCO3)	5.0 U	5.0 U	
	Alkalinity, Total as CaCO3	8.2	8.6	
	Chloride	3.9	3.8	
	Fluoride	0.10 U	0.10 U	
YAT-PZ-37 / YAT-AMA-R6-FD-3	TDS	822	884	7.3%
	Sulfate	449	453	0.9%
	Alkalinity, Bicarbonate (CaCO3)	13.2	12.8	AC
	Alkalinity, Carbonate (CaCO3)	5.0 U	5.0 U	
	Alkalinity, Total as CaCO3	13.2	12.8	
	Chloride	3.8	3.8	
	Fluoride	0.10 U	0.10 U	

Note:

AC = Acceptable

The differences in the results between the parent sample YAT-YAMW-1 and field duplicate sample YAT-AMA-R6-FD-1 were acceptable.

The differences in the results between the parent sample YAT-YGWC-38 and field duplicate sample YAT-AMA-R6-FD-2 were acceptable.

The differences in the results between the parent sample YAT-PZ-37 and field duplicate sample YAT-AMA-R6-FD-3 were acceptable.

5. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the accuracy of the analytical method independent of matrix interferences. The analytes associated with the LCS analysis must exhibit a percent recovery between the control limits of 80% and 120%.

The LCS analysis exhibited recoveries within the control limits.

6. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist for General Chemistry

General Chemistry: SM4500-H+ B, SM2540C, SM2320B, USEPA 300.0	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
Miscellaneous Instrumentation					
Tier II Validation					
Holding Times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method Blanks		X		X	
B. Equipment/Field Blanks		X	X		
Laboratory Control Sample (LCS) %R		X		X	
Matrix Spike (MS) %R		X		X	
Matrix Spike Duplicate (MSD) %R		X		X	
MS/MSD Precision (RPD)		X		X	
Laboratory Duplicate (RPD)		X		X	
Field Duplicate (RPD)		X		X	

Notes:

%R Percent recovery

RPD Relative percent difference

Radiological Analyses

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
Radium-226 by SW-846 9315	Water	180 days from collection to analysis	Preserved to a pH of less than 2 s.u.
Radium-228 by SW-846 9320	Water	180 days from collection to analysis	Preserved to a pH of less than 2 s.u.

Note:

s.u. = standard units

All samples were analyzed within the specified holding times.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and field/rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Field/rinse blanks measure contamination of samples during field operations.

Blank results should be verified to be accurately reported and that tolerance limits (± 2 sigma or standard deviation) were not exceeded; and blank results verified to be less than the minimum detectable concentration (MDC).

For blanks to be considered not applicable, verify net blank results are less than the associated uncertainty by evaluating the blank results based on the following three criteria. If either of these criteria is true, the blank is considered not suspect of contamination (or non-detect).

1. Is the blank result less than the uncertainty and less than the MDC?
2. Does the blank have an uncertainty greater than the result (or indistinguishable from background) or does the blank result fall between its uncertainty and its MDC?

If the blank QC results fall outside the appropriate tolerance limits or if the net blank results are not less than the associated uncertainty, the following equation for normalized absolute difference (NAD) should be used in determining the effect of possible blank contamination on the sample results:

$$\text{Normalized absolute difference}_{\text{MethodBlank}} = \frac{| \text{Sample} - \text{Blank} |}{\sqrt{(U_{\text{Sample}})^2 + (U_{\text{Blank}})^2}}$$

Where:

U_{Sample} = uncertainty of the sample

U_{Blank} = uncertainty of the blank

Sample = concentration of isotope in sample

Blank = concentration of isotope in blank

Normalized Absolute Difference	Qualification
> 2.58	None
1.96 > x < 2.58	J
x < 1.96	J*

Note:

* = Minimally the result should be qualified as estimated, J; however, if other quality indicators are deficient the validator may determine the result should be qualified as rejected, R

Radium-226 and Radium-228 were detected in the method blanks, equipment blanks, and field blanks, however, the activity was measured as less than the uncertainty and MDC. Hence, the blank results are considered non-detect and no qualification of the results was required.

3. Matrix Spike (MS)/Laboratory Duplicate Analysis

MS and laboratory duplicate data are used to assess the precision and accuracy of the analytical method.

3.1 MS Analysis

MS samples are not typically analyzed for gamma spectral content due to the inability of the laboratory to homogenize spike material with the sample.

If performed, the spike analysis must exhibit a percent recovery within the control limits of 70% to 130%. The MS recovery control limits do not apply for MS performed on sample locations where the analyte's concentration detected in the parent sample exceeds the MS concentration by a factor of four or greater. In instance where this is true, the data will not be qualified even if the percent recovery does not meet the control limits.

In the event the recovery is outside of this limit, a numerical indicator to make assessments is calculated, with a limit of ± 3 sigma for either.

The numerical performance indicator for a matrix spike sample is calculated by:

$$Z_{MS} = \frac{x - x_0 - c}{\sqrt{u^2(x) + u^2(x_0) + u^2(c)}}$$

Where:

x = measured concentration of the spiked sample.

x₀ = measured concentration of the unspiked sample.

c = spike concentration added.

u²(x), u²(x₀), u²(c) = the squares of the respective standard uncertainties of these values.

MS performance for all matrices is acceptable when the numerical performance indicator calculation yields a value between ± 3 sigma. Warning limits have been established as ± 2 sigma.

MS analysis was not performed using a sample from this SDG.

3.2 Laboratory Duplicate Analysis

Duplicate analyses are indicators of laboratory precision based on each sample matrix. For replicate analysis results to be considered in agreement the duplicate error ratio (DER) must be less than 2.13. In the event the DER is outside of the limit of 2.13, a numerical indicator to make assessments is calculated, with a limit of ± 3 sigma or standard deviation.

The numerical performance indicator for laboratory duplicates is calculated by:

$$Z_{Dup} = \frac{x_1 - x_2}{\sqrt{u^2(x_1) + u^2(x_2)}}$$

Where:

x_1, x_2 = two measured activity concentrations.

$u^2(x_1), u^2(x_2)$ = the combined standard uncertainty of each measurement squared.

Duplicate sample performance is acceptable when the numerical performance indicator calculation yields a value between ± 3 sigma. Warning limits have been established as ± 2 sigma.

The laboratory duplicate analysis performed on sample location YAT-YGCW-43 in association with SW-846 9315 analysis exhibited acceptable difference between the results.

Laboratory duplicate analysis was not performed on a sample from this SDG in association with SW-846 9320 analysis.

4. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. There are no specific review criteria for radiological field replicate analyses comparability. The degree of agreement between these replicates is to be used in conjunction with all of the remaining quality control results as an aid in the decision as to the overall quality of the data. Data are not to be qualified due to field replicates alone. To determine the level of agreement between the replicates, the following guidelines have been established:

Data should be considered in agreement if results are within a factor of four of each other. Data between a factor of four and five of each other should be considered as a minor discrepancy and data greater than a factor of five should be considered a major discrepancy.

The field duplicate sample results are summarized in the following table.

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
YAT-YAMW-1 / YAT-AMA-R6-FD-1	Radium-226	0.275 ± 0.152	0.163 ± 0.136	AC
	Radium-228	0.320 ± 0.320	0.266 ± 0.340	
	Total Radium	0.595 ± 0.472	0.429 ± 0.476	

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
YAT-YGWC-38 / YAT-AMA-R6-FD-2	Radium-226	0.116 ± 0.127	0.0510 ± 0.108	AC
	Radium-228	0.245 ± 0.342	0.903 ± 0.461	
	Total Radium	0.361 ± 0.469	0.954 ± 0.569	
YAT-PZ-37 / YAT-AMA-R6-FD-3	Radium-226	0.257 ± 0.147	0.272 ± 0.167	AC
	Radium-228	0.485 ± 0.350	0.292 ± 0.293	
	Total Radium	0.742 ± 0.497	0.564 ± 0.460	

Note:

AC = Acceptable

The differences in the results between the parent sample YAT-YAMW-1 and field duplicate sample YAT-AMA-R6-FD-1 were acceptable.

The differences in the results between the parent sample YAT-YGWC-38 and field duplicate sample YAT-AMA-R6-FD-2 were acceptable.

The differences in the results between the parent sample YAT-PZ-37 and field duplicate sample YAT-AMA-R6-FD-3 were acceptable.

5. Tracer or Carrier

Tracers and carriers are used in radiological separation methods to provide evaluation of chemical separation. Chemical yield is evaluated through the recovery of chemical species spiked into samples. Yield is evaluated radiometrically with a tracer and gravimetrically with a carrier. A control limit of 30% to 110% is applied to each sample spiked with either a carrier and/or a tracer.

The tracer and carrier analyses exhibited recoveries within the control limits.

6. Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) Analysis

The LCS/LCSD analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The analytes associated with the LCS/LCSD analysis must exhibit a percent recovery between the control limits of 60% to 135%. In the event the recovery is outside of this limit, a numerical indicator to make assessments is calculated, with a limit of +/- 3 sigma.

The numerical performance indicator for a laboratory control sample is calculated by:

$$Z_{LCS} = \frac{x - c}{\sqrt{u^2(x) + u^2(c)}}$$

Where:

x = Analytical result of the LCS

c = Known concentration of the LCS

$u^2(x)$ = combined standard uncertainty of the result squared.

$u^2(c)$ = combined standard uncertainty of the LCS value squared.

LCS performance is acceptable when the numerical performance indicator calculation yields a value between ± 3 sigma. Warning limits have been established as ± 2 sigma.

The LCS/LCSD analysis exhibited recoveries within the control limits.

7. Isotope Identification

For sample results to be considered “non-detect”, evaluate data based on the following two criteria. If either one of these criteria is true, the sample result is considered “non-detect”.

1. Sample result is less than the uncertainty and less than the MDC/MDA; or
2. Sample has an uncertainty greater than the result (or indistinguishable from background) or result falls between its uncertainty and its MDC/MDA.

Based on the above criteria sample results should be considered non-detect as follows:

- YAT-YGWC-42 – Radium-228
- YAT-AMA-R6-FD-2 and YAT-YGWC-41 – Radium-226 and total Radium
- YAT-PZ-37, YAT-AMA-R6-FD-3, YAT-YAMW-5, YAT-YAMW-1, YAT-PZ-51, and YAT-YGWC-49 – Radium-228 and total Radium
- YAT-YGWC-23S, YAT-PZ-52D, YAT-AMA-R6-EB-1, YAT-AMA-R6-FB-2, YAT-YGWC-38, YAT-YAMW-2, YAT-YAMW-4, YAT-AMA-R6-FD-1, YAT-YGWC-36A, YAT-AMA-R6-FB-1, YAT-YGWC-24SB, YAT-AMA-R6-EB-2, and YAT-PZ-35 – Radium-226, Radium-228, and total Radium

8. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist for Radiologicals

Radiologicals: SW-846 9315/9320	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
Miscellaneous Instrumentation					
Tier II Validation					
Holding Times		X		X	
Activity, +/- uncertainty, MDC/MDA		X		X	
Blanks					
A. Method Blanks		X		X	
B. Equipment/Field Blanks		X		X	
Carrier (Surrogate) %R		X		X	
Tracer (Surrogate) %R		X		X	
Laboratory Control Sample (LCS) %R		X		X	
Laboratory Control Sample Duplicate (LCSD) %R		X		X	
LCS/LCSD Precision (RPD)		X		X	
Matrix Spike (MS) %R	X				X
Matrix Spike Duplicate (MSD) %R	X				X
MS/MSD Precision (RPD)	X				X
Laboratory Duplicate (RPD)		X		X	
Field Duplicate (RPD)		X		X	

Notes:

%R Percent recovery

RPD Relative percent difference

VALIDATION PERFORMED BY: Jennifer Singer

SIGNATURE: 

DATE: April 26, 2023

PEER REVIEW: Joseph C. Houser

DATE: May 8, 2023

Chain of Custody / Data Qualifier Summary Table

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 2 of 2

Section A

Required Client Information:
 Company: GA Power
 Address: Atlanta, GA
 Email To: laucoker@southernco.com
 Phone: 470.620.6176 Fax
 Requested Due Date: Std TPT

Section B

Required Project Information:
 Report To: SCS Contacts
 Copy To: Arcadis Contacts
 Task No: YAT-CCR-ASSMT-202381
 Purchase Order #:
 Project Name: Plant Yates AMA-R6
 Project Number:

Section C

Invoice Information:
 Attention: Southern Co.
 Company Name:
 Address:
 Pace Quote:
 Pace Project Manager: Bonnie Vang
 Pace Profile #: 10840

Regulatory Agency:
 State / Location: Georgia

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / . -) Sample IDs must be unique	MATRIX CODE (see valid codes to left)	CODE	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Y/N	Requested Analysis Filtered (Y/N)							Residual Chlorine (Y/N)											
				SAMPLE TYPE (G-GRAB C-COMP)	START		END			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other		App III/IV Metals + Ca, Na, K	Cl, F, SO4	TDS (2540C)	RAD 9915/9320	Alkalinity (SMC230B)														
					DATE	TIME	DATE																	TIME													
1	YAT-YAMW-4	WG	G			-	-	6	3	3									X	X	X	X	X														
2	YAT-YAMW-5	WG	G			-	-	6	3	3									X	X	X	X	X														
3	YAT-PZ-37	WG	G	2/8	0946	-	-	6	3	3									X	X	X	X	X														
4	YAT-AMA-R6-FD-3	WG	G	2/8		-	-	6	3	3									X	X	X	X	X														
5	YAT-PZ-37D	WG	G	2/8	1348	-	-	6	3	3									X	X	X	X	X														
6	YAT-PZ-51	WG	G			-	-	6	3	3									X	X	X	X	X														
7	YAT-PZ-52D	WG	G	2/8	1116	-	-	6	3	3									X	X	X	X	X														
8	YAT-PZ-35	WG	G			-	-	6	3	3									X	X	X	X	X														
9	YAT-AMA-R6-EB-1	WG	G	2/8	1840	-	-	6	3	3									X	X	X	X	X														
10	YAT-AMA-R6-EB-2	WG	G			-	-	6	3	3									X	X	X	X	X														
11	YAT-AMA-R6-FB-1	WG	G			-	-	6	3	3									X	X	X	X	X														
12	YAT-AMA-R6-FB-2	WG	G	2/8	1100	-	-	6	3	3									X	X	X	X	X														

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	<u>Jessica Ware</u> / Arcadis	2/9/23	0855	<u>John Doe</u>	2/9/23	0855	
App III Metals: Boron 6020B, Ca 6010D	<u>Ryan Williams</u> / Pric	2/9/23	0920	<u>Ryan Williams</u> / Pric	2/9/23	0920	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg). Also add Ca, Na, K for this event. Alkalinity - report total, carbonate, and bicarbonate				<u>Charles Hunt</u>	2/9/23	1230	

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: (Arcadis) - Jessica Ware
 SIGNATURE of SAMPLER: (Arcadis) Jessica Ware DATE Signed: 2/9/23

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

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:	
Company: GA Power		Report To: SCS Contacts		Attention: Southern Co.	
Address: Atlanta, GA		Copy To: Arcadis Contacts		Company Name:	
Email To: lajucoker@southernco.com		Task No: YAT-CCR-ASSMT-2023S1		Address:	
Phone: 470.620.6176 Fax:		Purchase Order #:		Pace Quote:	
Requested Due Date: STR TAT		Project Name: Plant Yates AMA-R6		Pace Project Manager: Bonnie Vang	
		Project Number:		Pace Profile #: 10840	

Page : **1** Of **2**

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / . -) Sample ids must be unique	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMPL)	COLLECTED				SAMPLE TEMP AT COLLECTION	PRESERVATIVES										ANALYSES TEST	REQUESTED ANALYSES FILTERED (Y/N)										RESIDUAL CHLORINE (Y/N)									
				START		END			# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	App IIIIV Metals		Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Alkalinity (SM220B)	pH:															
				DATE	TIME	DATE	TIME																																
1	YAT-YGWC-23S	WG	G						5	2	3																												
2	YAT-YAMW-1	WG	G						5	2	3																												
3	YAT-AMA-FD-1	WG	G						5	2	3																												
4	YAT-YGWC-36A	WG	G						5	2	3																												
5	YAT-YGWC-49	WG	G						5	2	3																												
6	YAT-YGWC-38	WG	G						5	2	3																												
7	YAT-AMA-FD-2 YAT-AMA-R6-FD-2	WG	G						5	2	3																												
8	YAT-YGWC-41	WG	G						5	2	3																												
9	YAT-YGWC-42	WG	G						5	2	3																												
10	YAT-YGWC-43	WG	G						5	2	3																												
11	YAT-YAMW-2	WG	G						5	2	3																												
12	YAT-YAMW-3	WG	G						5	2	3																												

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Arizona Suite 300.0 (Cl, F, Sulfate)	<i>[Signature]</i> / Arcadis	2/9/23	0900	<i>[Signature]</i>	2/9/23	0500	
App III Metals: Boron 6020B, Ca 6010D	<i>[Signature]</i> / Arcadis	2/9/23	0923	<i>[Signature]</i> / Pace	2/9/23	0920	
Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg). Also add Ca, Na, K for this event. Alkalinity - report total, carbonate, and bicarbonate	<i>[Signature]</i> / Pace	2/9/23	1235	<i>[Signature]</i>	2/9/23	1235	

SAMPLER NAME AND SIGNATURE		TEMP in C
PRINT Name of SAMPLER:	<i>Kim Lapszynski</i>	
SIGNATURE of SAMPLER:	<i>[Signature]</i>	
DATE Signed:		<i>2/9/23</i>

Received on Ice (Y/N)	Carboy Sealed Cooler (Y/N)	Samples Intact (Y/N)
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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:

Company: GA Power
 Address: Atlanta, GA
 Email To: laucoker@southernco.com
 Phone: 470.620.6176
 Requested Due Date: Std TAT

Section B

Required Project Information:

Report To: SCS Contacts
 Copy To: Arcadis Contacts
 Task No: YAT-CCR-ASSMT-2023B1
 Project Name: Plant Yates AMA-R6
 Project Number:

Section C

Invoice Information:

Attention: Southern Co.
 Company Name:
 Address:
 Pace Quote:
 Pace Project Manager: Bonnie Vang
 Pace Profile #: 10840

Regulatory Agency
 State / Location
 Georgia

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 /, +) Sample ids must be unique	MATRIX Drinking Water Water Waste Water Product Sediment Sl Wipe Air Other Thru	CODE OW WT WW P SL CL WP AR OT TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G-GRAB C-COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Y/N	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)						
						START		END				Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol				Other					
						DATE	TIME	DATE	TIME																		
1	YAT-YAMW-4	WG	G							6	3	3								X	X	X	X	X			
2	YAT-YAMW-5	WG	G							6	3	3								X	X	X	X	X			
3	YAT-PZ-37	WG	G							6	3	3								X	X	X	X	X			
4	YAT-AMA-R6-FD-3	WG	G							6	3	3								X	X	X	X	X			
5	YAT-PZ-37D	WG	G							6	3	3								X	X	X	X	X			
6	YAT-PZ-51	WG	G							6	3	3								X	X	X	X	X			
7	YAT-PZ-52D	WG	G							6	3	3								X	X	X	X	X			
8	YAT-PZ-35	WG	G							6	3	3								X	X	X	X	X			
9	YAT-AMA-R6-EB-1	WG	G							6	3	3								X	X	X	X	X			
10	YAT-AMA-R6-EB-2	WG	G							6	3	3								X	X	X	X	X			
11	YAT-AMA-R6-FB-1	WG	G							6	3	3								X	X	X	X	X			
12	YAT-AMA-R6-FB-2	WG	G							6	3	3								X	X	X	X	X			

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	<i>Mi Li</i> / Arcadis	2/10/23	17:00	<i>Jennifer Van Alen</i> / Arcadis	2/10/23	12:00	
App III Metals: Boron 6020B, Ca 6010D	<i>Mi Li</i> / Arcadis						
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg). Also add Ca, Na, K for this event. Alkalinity - report total, carbonate, and bicarbonate	<i>Jennifer Van Alen</i> / Arcadis	2/10/23	14:00	<i>Charles Huntz</i> / Arcadis	2/10/23	14:00	

WO#: 92651579
 PM: BV Due Date: 03/02/23
 CLIENT: GA-GA Power

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: (Arcadis) - *Vin Lapinski*
 SIGNATURE of SAMPLER: (Arcadis) - *Mi Li* DATE Signed: 2/10/23

TEMP In C
 Received on Ice (Y/N)
 Custody Sealed (Y/N)
 Cooler (Y/N)
 Samples Intact (Y/N)

Section A

Required Client Information:

Company: GA Power
 Address: Atlanta, GA
 Email To: laucoker@southernco.com
 Phone: 470.620.6176 Fax:
 Requested Due Date: Std THT

Section B

Required Project Information:

Report To: SCS Contacts
 Copy To: Arcadia Contacts
 Task No: YAT-CCR-ASSMT-202381
 Purchase Order #:
 Project Name: Plant Yates AMA-R6
 Project Number:

Section C

Invoice Information:

Attention: Southern Co.
 Company Name:
 Address:
 Pace Quote:
 Pace Project Manager: Bonnie Vang
 Pace Profile #: 10840

Regulatory Agency:
 State / Location:
 Georgia

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample ids must be unique	MATRIX CODE (see valid codes to left)	CODE	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Y/N	Analysis Test	Residual Chlorine (Y/N)							
				START		END				Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other				App IIIIV Metals + Ca, Na, K	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Alkalinity (SM2320B)		
				DATE	TIME	DATE	TIME																				
1	YAT-YGWC-24SB	WG	G	2/10/23	0945	-	-	6	3		3															92851579	
2																											pH: 5.67
3																											
4																											
5																											
6																											
7																											
8																											
9																											
10																											
11																											
12																											

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	Kim Lapszynsk / Arcadis	2/10/23	1200	Jonathan Ware / Arcadis	2/10/23	1200	
App III Metals: Boron 6020B, Ca 6010D	Kim Lapszynsk						
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg). Also add Ca, Na, K for this event. Alkalinity - report total, carbonate, and bicarbonate	Jonathan Ware	2/10/23	1400	Kim Lapszynsk	2/10/23	1400	

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:	(Arcadis) - Kim Lapszynsk				
SIGNATURE of SAMPLER:	(Arcadis) - Kim Lapszynsk				
DATE Signed: 2/10/23					

CHAIN-OF-CUSTODY / Analytical Request Document

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Page: 2 of 2

Section A

Required Client Information:

Company: **GA Power**
 Address: **Atlanta, GA**
 Email To: **laucoker@southernco.com**
 Phone: **470.620.6176** Fax
 Requested Due Date: **STJ JAT**

Section B

Required Project Information:

Report To: **SCS Contacts**
 Copy To: **Arcadis Contacts**
 Task No: **YAT-CCR-ASSMT-202381**
 Purchase Order #:
 Project Name: **Plant Yates AMA-R6**
 Project Number:

Section C

Invoice Information:

Attention: **Southern Co.**
 Company Name:
 Address:
 Pace Quote:
 Pace Project Manager: **Bonnie Vang**
 Pace Profile #: **10840**

Regulatory Agency
 State / Location
 Georgia

ITEM #	SAMPLE ID <small>One Character per box. (A-Z, 0-9 / , -) Sample IDs must be unique</small>	MATRIX CODE <small>(see valid codes to left)</small>	SAMPLE TYPE <small>(G=GRAB C=COMP)</small>	COLLECTED				SAMPLE TEMP AT COLLECTION	PRESERVATIVES								ANALYSES TEST <small>App III/IV Metals + Ca, Na, K</small>	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)		
				START		END			# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol				Other	
				DATE	TIME	DATE	TIME														
1	YAT-YAMW-4	WG	G					6	3	3											
2	YAT-YAMW-5	WG	G					6	3	3											
3	YAT-PZ-37	WG	G					6	3	3											
4	YAT-AMA-R6-FD-3	WG	G					6	3	3											
5	YAT-PZ-37D	WG	G					6	3	3											
6	YAT-PZ-51	WG	G	2/9	1601			6	3	3											
7	YAT-PZ-52D	WG	G					6	3	3											
8	YAT-PZ-35	WG	G					6	3	3											
9	YAT-AMA-R6-EB-1	WG	G					6	3	3											
10	YAT-AMA-R6-EB-2	WG	G	2/9	1725			6	3	3											
11	YAT-AMA-R6-FB-1	WG	G					6	3	3											
12	YAT-AMA-R6-FB-2	WG	G					6	3	3											

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	<i>Jessica Ware</i> / Arcadis	2/10/23	1400	<i>Charles Hanks</i>	2/10/23	1400	
App III Metals: Boron 6020B, Ca 6010D							
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se)							
7040A: Mercury (Hg). Also add Ca, Na, K for this event.							
Alkalinity - report total, carbonate, and bicarbonate							

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:	(Arcadis) <i>Jessica Ware</i>				
SIGNATURE of SAMPLER:	(Arcadis) <i>Jessica Ware</i> DATE Signed: 2/10/23				

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : Of /

Section A

Required Client Information:

Company: GA Power
 Address: Atlanta, GA
 Email To: laucoker@southernco.com
 Phone: 470.620.6176 Fax
 Requested Due Date: SID TAT

Section B

Required Project Information:

Report To: SCS Contacts
 Copy To: Arcadis Contacts
 Task No: YAT-CCR-ASSMT-2023S1
 Purchase Order #:
 Project Name: Plant Yates AMA-R6
 Project Number:

Section C

Invoice Information:

Attention: Southern Co.
 Company Name:
 Address:
 Pace Quote:
 Pace Project Manager: Bonnie Vang
 Pace Profile #: 10840

Regulatory Agency
 State / Location
 Georgia

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 /, .-) Sample IDs must be unique	MATRIX Drinking Water DW Water WT Waste Water WW Product P Soli/Solid SL Oil OL Wipe WP Air AR Other OT Tissue TS	CODE	MATRIX CODE (see valid codes to left) SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Y/N	Requested Analyte Filtered (Y/N)	Residual Chlorine (Y/N)		
					START DATE	START TIME			END DATE	END TIME	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3				Methanol	Other
1	YAT-YGWC-23S			WG G		--		5	2	3					X	X	X	X	X		
2	YAT-YAMW-1			WG G		--		5	2	3					X	X	X	X	X		
3	YAT-AMA-FD-1			WG G		--		5	2	3					X	X	X	X	X		
4	YAT-YGWC-36A			WG G		--		5	2	3					X	X	X	X	X		
5	YAT-YGWC-49			WG G	2/9/23	1500	--	6	3	3					X	X	X	X	X		
6	YAT-YGWC-38			WG G		--		5	2	3					X	X	X	X	X		
7	YAT-AMA-FD-2			WG G		--		5	2	3					X	X	X	X	X		
8	YAT-YGWC-41			WG G		--		5	2	3					X	X	X	X	X		
9	YAT-YGWC-42			WG G		--		5	2	3					X	X	X	X	X		
10	YAT-YGWC-43			WG G		--		5	2	3					X	X	X	X	X		
11	YAT-YAMW-2			WG G		--		5	2	3					X	X	X	X	X		
12	YAT-YAMW-3			WG G		--		5	2	3					X	X	X	X	X		

92651579

pH:
pH:
pH:
pH:
pH: 5.61 024
pH:
pH:
pH:
pH:
pH:
pH:

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	<u>Matthew</u> /Arcadis	2/10/23	1200	<u>Mark Chest</u> /Arcadis	2/10/23	1200	
App III Metals: Boron 6020B, Ca 6010D Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A. Mercury (Hg). Also add Ca, Na, K for this event. Alkalinity - report total, carbonate, and bicarbonate	<u>Matthew</u> /Arcadis	2/10/23	1400	<u>Clmber</u> /Arcadis	2/10/23	1400	

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: Mark Chest (Arcadis)
 SIGNATURE of SAMPLER: Matthew DATE Signed: 2/10/23

TEMP in C
 Received on ice (Y/N)
 Custody Sealed Cooler (Y/N)
 Samples Intact (Y/N)

SDG	Sample ID	Method	Analyte	Result	Units	Validation Qualifier	Reason for Validation Qualifier
92651579	No qualifiers assigned						
92651580	YAT-YGWC-23S	SM2540C	TDS	158	mgL	UB	Blank contamination
	YAT-YGWC-42	SW846 6020B	Arsenic	0.0050	mgL	UB	Blank contamination
	YAT-PZ-52D	SW846 6020B	Arsenic	0.0050	mgL	UB	Blank contamination
	YAT-YGWC-41	SW846 6020B	Arsenic	0.0050	mgL	UB	Blank contamination
			SM2540C	TDS	257	mgL	UB
	YAT-YGWC-43	SW846 6020B	Arsenic	0.0050	mgL	UB	Blank contamination
			SM2540C	TDS	333	mgL	UB
	YAT-YAMW-2	SM2540C	TDS	190	mgL	UB	Blank contamination
	YAT-YAMW-4	SW846 6020B	Arsenic	0.0050	mgL	UB	Blank contamination
			SM2540C	TDS	402	mgL	UB
	YAT-YAMW-5	SW846 6020B	Arsenic	0.0050	mgL	UB	Blank contamination
	YAT-YAMW-1	SW846 6020B	Arsenic	0.0050	mgL	UB	Blank contamination
	YAT-AMA-R6-FD-1	SW846 6020B	Arsenic	0.0050	mgL	UB	Blank contamination
	YAT-YGWC-36A	SW846 6020B	Arsenic	0.0050	mgL	UB	Blank contamination
			Boron	0.040	mgL	UB	Blank contamination
	YAT-YGWC-24SB	SW846 6020B	Arsenic	0.0050	mgL	UB	Blank contamination
YAT-YGWC-49	SW846 6020B	Boron	0.040	mgL	UB	Blank contamination	
YAT-PZ-35	SW846 6020B	Arsenic	0.0050	mgL	UB	Blank contamination	
		Boron	0.076	mgL	UB	Blank contamination	

Abbreviations:

mg/L = milligrams per liter

Qualifiers:

UB = not detected due to blank contamination

April 14, 2023

Ms. Lauren Petty
Southern Company
42 Inverness Center Parkway
Birmingham, AL 35242

RE: Project: Plant Yates AMA-R6 RADS
Pace Project No.: 92651579

Dear Ms. Petty:

Enclosed are the analytical results for sample(s) received by the laboratory between February 09, 2023 and February 10, 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.

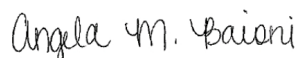
The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Greensburg

A revised report is being submitted on 4/14/23 to include all samples from the same reporting group.

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

Sincerely,



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

Enclosures

cc: Joju Abraham, Georgia Power-CCR
Lauren Coker, Georgia Pwer
Noelia Gangi, Georgia Power
Geoffrey Gay, ARCADIS - Atlanta
Ben Hodges, Georgia Power-CCR
Kristen Jurinko
Laura Midkiff, Georgia Power
Kelley Sharpe, ARCADIS - Atlanta

Alex Simpson, Arcadis
Michael Smilley, Georgia Power
Becky Steever, Arcadis
Tina Sullivan, ERM
Albert Zumbuhl, Arcadis



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Plant Yates AMA-R6 RADS
Pace Project No.: 92651579

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 Yates AMA-R6 RADS

Pace Project No.: 92651579

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92651579001	YAT-YGWC-23S	Water	02/08/23 15:35	02/09/23 12:35
92651579002	YAT-YGWC-42	Water	02/08/23 17:36	02/09/23 12:35
92651579003	YAT-PZ-37	Water	02/08/23 09:46	02/09/23 12:35
92651579004	YAT-AMA-R6-FD-3	Water	02/08/23 00:00	02/09/23 12:35
92651579005	YAT-PZ-37D	Water	02/08/23 13:48	02/09/23 12:35
92651579006	YAT-PZ-52D	Water	02/08/23 11:16	02/09/23 12:35
92651579007	YAT-AMA-R6-EB-1	Water	02/08/23 18:40	02/09/23 12:35
92651579008	YAT-AMA-R6-FB-2	Water	02/08/23 11:00	02/09/23 12:35
92651579009	YAT-YGWC-38	Water	02/08/23 09:30	02/09/23 12:35
92651579010	YAT-AMA-R6-FD-2	Water	02/08/23 00:00	02/09/23 12:35
92651579011	YAT-YGWC-41	Water	02/08/23 16:30	02/09/23 12:35
92651579012	YAT-YGWC-43	Water	02/08/23 18:00	02/09/23 12:35
92651579013	YAT-YAMW-2	Water	02/08/23 13:55	02/09/23 12:35
92651579014	YAT-YAMW-4	Water	02/08/23 14:52	02/09/23 12:35
92651579015	YAT-YAMW-5	Water	02/08/23 10:58	02/09/23 12:35
92651579016	YAT-YAMW-1	Water	02/09/23 15:56	02/10/23 14:00
92651579017	YAT-AMA-R6-FD-1	Water	02/09/23 00:00	02/10/23 14:00
92651579018	YAT-YGWC-36A	Water	02/09/23 13:10	02/10/23 14:00
92651579020	YAT-AMA-R6-FB-1	Water	02/09/23 16:55	02/10/23 14:00
92651579021	YAT-YGWC-24SB	Water	02/10/23 09:45	02/10/23 14:00
92651579022	YAT-PZ-51	Water	02/09/23 16:01	02/10/23 14:00
92651579023	YAT-AMA-R6-EB-2	Water	02/09/23 17:25	02/10/23 14:00
92651579024	YAT-YGWC-49	Water	02/09/23 15:00	02/10/23 14:00
92651579025	YAT-YAMW-3	Water	02/09/23 11:17	02/10/23 14:00
92651578012	YAT-PZ-35	Water	02/09/23 14:48	02/10/23 14:00

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Plant Yates AMA-R6 RADS
Pace Project No.: 92651579

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92651579001	YAT-YGWC-23S	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92651579002	YAT-YGWC-42	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92651579003	YAT-PZ-37	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92651579004	YAT-AMA-R6-FD-3	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92651579005	YAT-PZ-37D	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92651579006	YAT-PZ-52D	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92651579007	YAT-AMA-R6-EB-1	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92651579008	YAT-AMA-R6-FB-2	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92651579009	YAT-YGWC-38	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92651579010	YAT-AMA-R6-FD-2	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92651579011	YAT-YGWC-41	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92651579012	YAT-YGWC-43	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JGH	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92651579013	YAT-YAMW-2	EPA 9315	SLC	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Plant Yates AMA-R6 RADS
Pace Project No.: 92651579

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92651579014	YAT-YAMW-4	EPA 9320	JGH	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
92651579015	YAT-YAMW-5	EPA 9320	JGH	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
92651579016	YAT-YAMW-1	EPA 9320	JGH	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
92651579017	YAT-AMA-R6-FD-1	EPA 9320	JGH	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
92651579018	YAT-YGWC-36A	EPA 9320	JGH	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
92651579020	YAT-AMA-R6-FB-1	EPA 9320	JGH	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
92651579021	YAT-YGWC-24SB	EPA 9320	JGH	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
92651579022	YAT-PZ-51	EPA 9320	JGH	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
92651579023	YAT-AMA-R6-EB-2	EPA 9320	JGH	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
92651579024	YAT-YGWC-49	EPA 9320	JGH	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
92651579025	YAT-YAMW-3	EPA 9320	JGH	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
92651578012	YAT-PZ-35	EPA 9320	ZPC	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Plant Yates AMA-R6 RADS
Pace Project No.: 92651579

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		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 Yates AMA-R6 RADS
Pace Project No.: 92651579

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92651579001	YAT-YGWC-23S					
EPA 9315	Radium-226	0.151 ± 0.127 (0.229) C:93% T:NA	pCi/L		03/06/23 09:37	
EPA 9320	Radium-228	0.249 ± 0.299 (0.628) C:84% T:82%	pCi/L		03/01/23 12:27	
Total Radium Calculation	Total Radium	0.400 ± 0.426 (0.857)	pCi/L		03/06/23 15:33	
92651579002	YAT-YGWC-42					
EPA 9315	Radium-226	0.227 ± 0.140 (0.208) C:91% T:NA	pCi/L		03/06/23 09:37	
EPA 9320	Radium-228	0.590 ± 0.338 (0.606) C:84% T:87%	pCi/L		03/01/23 12:28	
Total Radium Calculation	Total Radium	0.817 ± 0.478 (0.814)	pCi/L		03/06/23 15:33	
92651579003	YAT-PZ-37					
EPA 9315	Radium-226	0.257 ± 0.147 (0.201) C:88% T:NA	pCi/L		03/06/23 09:37	
EPA 9320	Radium-228	0.485 ± 0.350 (0.679) C:84% T:84%	pCi/L		03/01/23 12:28	
Total Radium Calculation	Total Radium	0.742 ± 0.497 (0.880)	pCi/L		03/06/23 15:33	
92651579004	YAT-AMA-R6-FD-3					
EPA 9315	Radium-226	0.272 ± 0.167 (0.271) C:88% T:NA	pCi/L		03/06/23 09:37	
EPA 9320	Radium-228	0.292 ± 0.293 (0.600) C:81% T:85%	pCi/L		03/01/23 12:28	
Total Radium Calculation	Total Radium	0.564 ± 0.460 (0.871)	pCi/L		03/06/23 15:33	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Plant Yates AMA-R6 RADS
Pace Project No.: 92651579

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92651579005	YAT-PZ-37D					
EPA 9315	Radium-226	1.75 ± 0.420 (0.231) C:88% T:NA	pCi/L		03/06/23 09:37	
EPA 9320	Radium-228	0.621 ± 0.319 (0.549) C:83% T:96%	pCi/L		03/01/23 12:28	
Total Radium Calculation	Total Radium	2.37 ± 0.739 (0.780)	pCi/L		03/06/23 15:33	
92651579006	YAT-PZ-52D					
EPA 9315	Radium-226	0.126 ± 0.117 (0.217) C:90% T:NA	pCi/L		03/06/23 09:37	
EPA 9320	Radium-228	0.0922 ± 0.324 (0.733) C:81% T:88%	pCi/L		03/01/23 12:28	
Total Radium Calculation	Total Radium	0.218 ± 0.441 (0.950)	pCi/L		03/06/23 15:33	
92651579007	YAT-AMA-R6-EB-1					
EPA 9315	Radium-226	0.0843 ± 0.0958 (0.185) C:85% T:NA	pCi/L		03/06/23 09:37	
EPA 9320	Radium-228	0.652 ± 0.447 (0.875) C:79% T:86%	pCi/L		03/01/23 12:28	
Total Radium Calculation	Total Radium	0.736 ± 0.543 (1.06)	pCi/L		03/06/23 15:33	
92651579008	YAT-AMA-R6-FB-2					
EPA 9315	Radium-226	-0.00655 ± 0.111 (0.298) C:93% T:NA	pCi/L		03/06/23 08:47	
EPA 9320	Radium-228	0.390 ± 0.337 (0.683) C:85% T:94%	pCi/L		03/01/23 12:28	
Total Radium Calculation	Total Radium	0.390 ± 0.448 (0.981)	pCi/L		03/06/23 15:33	

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SUMMARY OF DETECTION

Project: Plant Yates AMA-R6 RADS
Pace Project No.: 92651579

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92651579009	YAT-YGWC-38					
EPA 9315	Radium-226	0.116 ± 0.127 (0.254) C:89% T:NA	pCi/L		03/06/23 08:48	
EPA 9320	Radium-228	0.245 ± 0.342 (0.735) C:83% T:90%	pCi/L		03/01/23 12:28	
Total Radium Calculation	Total Radium	0.361 ± 0.469 (0.989)	pCi/L		03/06/23 15:33	
92651579010	YAT-AMA-R6-FD-2					
EPA 9315	Radium-226	0.0510 ± 0.108 (0.253) C:85% T:NA	pCi/L		03/06/23 08:50	
EPA 9320	Radium-228	0.903 ± 0.461 (0.825) C:83% T:82%	pCi/L		03/01/23 12:28	
Total Radium Calculation	Total Radium	0.954 ± 0.569 (1.08)	pCi/L		03/06/23 15:33	
92651579011	YAT-YGWC-41					
EPA 9315	Radium-226	0.0774 ± 0.101 (0.211) C:82% T:NA	pCi/L		03/06/23 08:50	
EPA 9320	Radium-228	0.775 ± 0.383 (0.657) C:82% T:85%	pCi/L		03/01/23 12:28	
Total Radium Calculation	Total Radium	0.852 ± 0.484 (0.868)	pCi/L		03/06/23 15:33	
92651579012	YAT-YGWC-43					
EPA 9315	Radium-226	2.79 ± 0.578 (0.196) C:84% T:NA	pCi/L		03/06/23 08:53	
EPA 9320	Radium-228	0.938 ± 0.402 (0.639) C:78% T:90%	pCi/L		03/01/23 16:04	
Total Radium Calculation	Total Radium	3.73 ± 0.980 (0.835)	pCi/L		03/06/23 16:18	

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SUMMARY OF DETECTION

Project: Plant Yates AMA-R6 RADS
Pace Project No.: 92651579

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92651579013	YAT-YAMW-2					
EPA 9315	Radium-226	0.0762 ± 0.133 (0.303) C:89% T:NA	pCi/L		03/06/23 08:53	
EPA 9320	Radium-228	0.0232 ± 0.333 (0.771) C:80% T:78%	pCi/L		03/01/23 16:04	
Total Radium Calculation	Total Radium	0.0994 ± 0.466 (1.07)	pCi/L		03/06/23 16:18	
92651579014	YAT-YAMW-4					
EPA 9315	Radium-226	0.0980 ± 0.110 (0.209) C:71% T:NA	pCi/L		03/06/23 08:54	
EPA 9320	Radium-228	0.141 ± 0.283 (0.625) C:76% T:93%	pCi/L		03/01/23 16:04	
Total Radium Calculation	Total Radium	0.239 ± 0.393 (0.834)	pCi/L		03/06/23 16:18	
92651579015	YAT-YAMW-5					
EPA 9315	Radium-226	0.333 ± 0.157 (0.182) C:93% T:NA	pCi/L		03/06/23 08:54	
EPA 9320	Radium-228	0.169 ± 0.324 (0.713) C:73% T:84%	pCi/L		03/01/23 16:05	
Total Radium Calculation	Total Radium	0.502 ± 0.481 (0.895)	pCi/L		03/06/23 16:18	
92651579016	YAT-YAMW-1					
EPA 9315	Radium-226	0.275 ± 0.152 (0.196) C:83% T:NA	pCi/L		03/06/23 08:54	
EPA 9320	Radium-228	0.320 ± 0.320 (0.655) C:79% T:88%	pCi/L		03/01/23 16:05	
Total Radium Calculation	Total Radium	0.595 ± 0.472 (0.851)	pCi/L		03/06/23 16:18	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Plant Yates AMA-R6 RADS
Pace Project No.: 92651579

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92651579017	YAT-AMA-R6-FD-1					
EPA 9315	Radium-226	0.163 ± 0.136 (0.245) C:86% T:NA	pCi/L		03/06/23 08:54	
EPA 9320	Radium-228	0.266 ± 0.340 (0.721) C:83% T:81%	pCi/L		03/01/23 16:05	
Total Radium Calculation	Total Radium	0.429 ± 0.476 (0.966)	pCi/L		03/06/23 16:18	
92651579018	YAT-YGWC-36A					
EPA 9315	Radium-226	0.178 ± 0.129 (0.207) C:83% T:NA	pCi/L		03/06/23 08:54	
EPA 9320	Radium-228	0.148 ± 0.323 (0.717) C:80% T:85%	pCi/L		03/01/23 16:05	
Total Radium Calculation	Total Radium	0.326 ± 0.452 (0.924)	pCi/L		03/06/23 16:18	
92651579020	YAT-AMA-R6-FB-1					
EPA 9315	Radium-226	-0.0519 ± 0.0489 (0.210) C:85% T:NA	pCi/L		03/06/23 08:55	
EPA 9320	Radium-228	0.0468 ± 0.328 (0.757) C:74% T:85%	pCi/L		03/01/23 16:05	
Total Radium Calculation	Total Radium	0.0468 ± 0.377 (0.967)	pCi/L		03/06/23 16:18	
92651579021	YAT-YGWC-24SB					
EPA 9315	Radium-226	0.137 ± 0.130 (0.245) C:79% T:NA	pCi/L		03/06/23 08:55	
EPA 9320	Radium-228	-0.0498 ± 0.327 (0.776) C:76% T:86%	pCi/L		03/01/23 16:05	
Total Radium Calculation	Total Radium	0.137 ± 0.457 (1.02)	pCi/L		03/06/23 16:18	

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SUMMARY OF DETECTION

Project: Plant Yates AMA-R6 RADS
Pace Project No.: 92651579

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92651579022	YAT-PZ-51					
EPA 9315	Radium-226	0.235 ± 0.133 (0.168) C:88% T:NA	pCi/L		03/06/23 08:55	
EPA 9320	Radium-228	0.232 ± 0.322 (0.689) C:78% T:84%	pCi/L		03/01/23 16:05	
Total Radium Calculation	Total Radium	0.467 ± 0.455 (0.857)	pCi/L		03/06/23 16:18	
92651579023	YAT-AMA-R6-EB-2					
EPA 9315	Radium-226	0.0556 ± 0.0906 (0.200) C:84% T:NA	pCi/L		03/06/23 08:55	
EPA 9320	Radium-228	0.177 ± 0.342 (0.753) C:76% T:81%	pCi/L		03/01/23 16:05	
Total Radium Calculation	Total Radium	0.233 ± 0.433 (0.953)	pCi/L		03/06/23 16:18	
92651579024	YAT-YGWC-49					
EPA 9315	Radium-226	0.285 ± 0.157 (0.214) C:81% T:NA	pCi/L		03/06/23 11:17	
EPA 9320	Radium-228	0.382 ± 0.352 (0.714) C:78% T:84%	pCi/L		03/01/23 16:05	
Total Radium Calculation	Total Radium	0.667 ± 0.509 (0.928)	pCi/L		03/06/23 16:18	
92651579025	YAT-YAMW-3					
EPA 9315	Radium-226	1.33 ± 0.337 (0.199) C:94% T:NA	pCi/L		03/06/23 11:17	
EPA 9320	Radium-228	0.860 ± 0.390 (0.648) C:84% T:89%	pCi/L		03/01/23 16:06	
Total Radium Calculation	Total Radium	2.19 ± 0.727 (0.847)	pCi/L		03/06/23 16:18	

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SUMMARY OF DETECTION

Project: Plant Yates AMA-R6 RADS

Pace Project No.: 92651579

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92651578012	YAT-PZ-35					
EPA 9315	Radium-226	0.190 ± 0.178 (0.351) C:92% T:NA	pCi/L		03/03/23 08:45	
EPA 9320	Radium-228	0.528 ± 0.567 (1.19) C:81% T:89%	pCi/L		02/28/23 19:53	
Total Radium Calculation	Total Radium	0.718 ± 0.745 (1.54)	pCi/L		03/06/23 14:37	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates AMA-R6 RADS

Pace Project No.: 92651579

Sample: YAT-YGWC-23S **Lab ID: 92651579001** Collected: 02/08/23 15:35 Received: 02/09/23 12:35 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	0.151 ± 0.127 (0.229) C:93% T:NA	pCi/L	03/06/23 09:37	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.249 ± 0.299 (0.628) C:84% T:82%	pCi/L	03/01/23 12:27	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.400 ± 0.426 (0.857)	pCi/L	03/06/23 15:33	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates AMA-R6 RADS

Pace Project No.: 92651579

Sample: YAT-YGWC-42 **Lab ID: 92651579002** Collected: 02/08/23 17:36 Received: 02/09/23 12:35 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	0.227 ± 0.140 (0.208) C:91% T:NA	pCi/L	03/06/23 09:37	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.590 ± 0.338 (0.606) C:84% T:87%	pCi/L	03/01/23 12:28	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.817 ± 0.478 (0.814)	pCi/L	03/06/23 15:33	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates AMA-R6 RADS

Pace Project No.: 92651579

Sample: YAT-PZ-37 **Lab ID: 92651579003** Collected: 02/08/23 09:46 Received: 02/09/23 12:35 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	0.257 ± 0.147 (0.201) C:88% T:NA	pCi/L	03/06/23 09:37	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.485 ± 0.350 (0.679) C:84% T:84%	pCi/L	03/01/23 12:28	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.742 ± 0.497 (0.880)	pCi/L	03/06/23 15:33	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates AMA-R6 RADS

Pace Project No.: 92651579

Sample: YAT-AMA-R6-FD-3 **Lab ID: 92651579004** Collected: 02/08/23 00:00 Received: 02/09/23 12:35 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	0.272 ± 0.167 (0.271) C:88% T:NA	pCi/L	03/06/23 09:37	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.292 ± 0.293 (0.600) C:81% T:85%	pCi/L	03/01/23 12:28	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.564 ± 0.460 (0.871)	pCi/L	03/06/23 15:33	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates AMA-R6 RADS

Pace Project No.: 92651579

Sample: YAT-PZ-37D **Lab ID: 92651579005** Collected: 02/08/23 13:48 Received: 02/09/23 12:35 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	1.75 ± 0.420 (0.231) C:88% T:NA	pCi/L	03/06/23 09:37	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.621 ± 0.319 (0.549) C:83% T:96%	pCi/L	03/01/23 12:28	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	2.37 ± 0.739 (0.780)	pCi/L	03/06/23 15:33	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates AMA-R6 RADS

Pace Project No.: 92651579

Sample: YAT-PZ-52D **Lab ID: 92651579006** Collected: 02/08/23 11:16 Received: 02/09/23 12:35 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	0.126 ± 0.117 (0.217) C:90% T:NA	pCi/L	03/06/23 09:37	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.0922 ± 0.324 (0.733) C:81% T:88%	pCi/L	03/01/23 12:28	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.218 ± 0.441 (0.950)	pCi/L	03/06/23 15:33	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates AMA-R6 RADS

Pace Project No.: 92651579

Sample: YAT-AMA-R6-EB-1 **Lab ID:** 92651579007 Collected: 02/08/23 18:40 Received: 02/09/23 12:35 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	0.0843 ± 0.0958 (0.185) C:85% T:NA	pCi/L	03/06/23 09:37	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.652 ± 0.447 (0.875) C:79% T:86%	pCi/L	03/01/23 12:28	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.736 ± 0.543 (1.06)	pCi/L	03/06/23 15:33	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates AMA-R6 RADS

Pace Project No.: 92651579

Sample: YAT-AMA-R6-FB-2 **Lab ID: 92651579008** Collected: 02/08/23 11:00 Received: 02/09/23 12:35 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	-0.00655 ± 0.111 (0.298) C:93% T:NA	pCi/L	03/06/23 08:47	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.390 ± 0.337 (0.683) C:85% T:94%	pCi/L	03/01/23 12:28	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.390 ± 0.448 (0.981)	pCi/L	03/06/23 15:33	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates AMA-R6 RADS

Pace Project No.: 92651579

Sample: YAT-YGWC-38 **Lab ID: 92651579009** Collected: 02/08/23 09:30 Received: 02/09/23 12:35 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	0.116 ± 0.127 (0.254) C:89% T:NA	pCi/L	03/06/23 08:48	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.245 ± 0.342 (0.735) C:83% T:90%	pCi/L	03/01/23 12:28	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.361 ± 0.469 (0.989)	pCi/L	03/06/23 15:33	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates AMA-R6 RADS

Pace Project No.: 92651579

Sample: YAT-AMA-R6-FD-2 **Lab ID: 92651579010** Collected: 02/08/23 00:00 Received: 02/09/23 12:35 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	0.0510 ± 0.108 (0.253) C:85% T:NA	pCi/L	03/06/23 08:50	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.903 ± 0.461 (0.825) C:83% T:82%	pCi/L	03/01/23 12:28	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.954 ± 0.569 (1.08)	pCi/L	03/06/23 15:33	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates AMA-R6 RADS

Pace Project No.: 92651579

Sample: YAT-YGWC-41 **Lab ID: 92651579011** Collected: 02/08/23 16:30 Received: 02/09/23 12:35 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	0.0774 ± 0.101 (0.211) C:82% T:NA	pCi/L	03/06/23 08:50	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.775 ± 0.383 (0.657) C:82% T:85%	pCi/L	03/01/23 12:28	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.852 ± 0.484 (0.868)	pCi/L	03/06/23 15:33	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates AMA-R6 RADS

Pace Project No.: 92651579

Sample: YAT-YGWC-43 **Lab ID: 92651579012** Collected: 02/08/23 18:00 Received: 02/09/23 12:35 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	2.79 ± 0.578 (0.196) C:84% T:NA	pCi/L	03/06/23 08:53	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.938 ± 0.402 (0.639) C:78% T:90%	pCi/L	03/01/23 16:04	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	3.73 ± 0.980 (0.835)	pCi/L	03/06/23 16:18	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates AMA-R6 RADS

Pace Project No.: 92651579

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: YAT-YAMW-2 Lab ID: 92651579013 Collected: 02/08/23 13:55 Received: 02/09/23 12:35 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.0762 ± 0.133 (0.303) C:89% T:NA	pCi/L	03/06/23 08:53	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.0232 ± 0.333 (0.771) C:80% T:78%	pCi/L	03/01/23 16:04	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.0994 ± 0.466 (1.07)	pCi/L	03/06/23 16:18	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates AMA-R6 RADS

Pace Project No.: 92651579

Sample: YAT-YAMW-4 **Lab ID: 92651579014** Collected: 02/08/23 14:52 Received: 02/09/23 12:35 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	0.0980 ± 0.110 (0.209) C:71% T:NA	pCi/L	03/06/23 08:54	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.141 ± 0.283 (0.625) C:76% T:93%	pCi/L	03/01/23 16:04	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.239 ± 0.393 (0.834)	pCi/L	03/06/23 16:18	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates AMA-R6 RADS

Pace Project No.: 92651579

Sample: YAT-YAMW-5 **Lab ID: 92651579015** Collected: 02/08/23 10:58 Received: 02/09/23 12:35 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	0.333 ± 0.157 (0.182) C:93% T:NA	pCi/L	03/06/23 08:54	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.169 ± 0.324 (0.713) C:73% T:84%	pCi/L	03/01/23 16:05	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.502 ± 0.481 (0.895)	pCi/L	03/06/23 16:18	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates AMA-R6 RADS
Pace Project No.: 92651579

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: YAT-YAMW-1 Lab ID: 92651579016 Collected: 02/09/23 15:56 Received: 02/10/23 14:00 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.275 ± 0.152 (0.196) C:83% T:NA	pCi/L	03/06/23 08:54	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.320 ± 0.320 (0.655) C:79% T:88%	pCi/L	03/01/23 16:05	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.595 ± 0.472 (0.851)	pCi/L	03/06/23 16:18	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates AMA-R6 RADS

Pace Project No.: 92651579

Sample: YAT-AMA-R6-FD-1 **Lab ID: 92651579017** Collected: 02/09/23 00:00 Received: 02/10/23 14:00 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	0.163 ± 0.136 (0.245) C:86% T:NA	pCi/L	03/06/23 08:54	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.266 ± 0.340 (0.721) C:83% T:81%	pCi/L	03/01/23 16:05	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.429 ± 0.476 (0.966)	pCi/L	03/06/23 16:18	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates AMA-R6 RADS

Pace Project No.: 92651579

Sample: YAT-YGWC-36A **Lab ID: 92651579018** Collected: 02/09/23 13:10 Received: 02/10/23 14:00 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	0.178 ± 0.129 (0.207) C:83% T:NA	pCi/L	03/06/23 08:54	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.148 ± 0.323 (0.717) C:80% T:85%	pCi/L	03/01/23 16:05	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.326 ± 0.452 (0.924)	pCi/L	03/06/23 16:18	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates AMA-R6 RADS

Pace Project No.: 92651579

Sample: YAT-AMA-R6-FB-1 **Lab ID: 92651579020** Collected: 02/09/23 16:55 Received: 02/10/23 14:00 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	-0.0519 ± 0.0489 (0.210) C:85% T:NA	pCi/L	03/06/23 08:55	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.0468 ± 0.328 (0.757) C:74% T:85%	pCi/L	03/01/23 16:05	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.0468 ± 0.377 (0.967)	pCi/L	03/06/23 16:18	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates AMA-R6 RADS

Pace Project No.: 92651579

Sample: YAT-YGWC-24SB **Lab ID: 92651579021** Collected: 02/10/23 09:45 Received: 02/10/23 14:00 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	0.137 ± 0.130 (0.245) C:79% T:NA	pCi/L	03/06/23 08:55	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	-0.0498 ± 0.327 (0.776) C:76% T:86%	pCi/L	03/01/23 16:05	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.137 ± 0.457 (1.02)	pCi/L	03/06/23 16:18	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates AMA-R6 RADS

Pace Project No.: 92651579

Sample: YAT-PZ-51 **Lab ID: 92651579022** Collected: 02/09/23 16:01 Received: 02/10/23 14:00 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	0.235 ± 0.133 (0.168) C:88% T:NA	pCi/L	03/06/23 08:55	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.232 ± 0.322 (0.689) C:78% T:84%	pCi/L	03/01/23 16:05	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.467 ± 0.455 (0.857)	pCi/L	03/06/23 16:18	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates AMA-R6 RADS

Pace Project No.: 92651579

Sample: YAT-AMA-R6-EB-2 **Lab ID: 92651579023** Collected: 02/09/23 17:25 Received: 02/10/23 14:00 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	0.0556 ± 0.0906 (0.200) C:84% T:NA	pCi/L	03/06/23 08:55	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.177 ± 0.342 (0.753) C:76% T:81%	pCi/L	03/01/23 16:05	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.233 ± 0.433 (0.953)	pCi/L	03/06/23 16:18	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates AMA-R6 RADS

Pace Project No.: 92651579

Sample: YAT-YGWC-49 **Lab ID: 92651579024** Collected: 02/09/23 15:00 Received: 02/10/23 14:00 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	0.285 ± 0.157 (0.214) C:81% T:NA	pCi/L	03/06/23 11:17	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.382 ± 0.352 (0.714) C:78% T:84%	pCi/L	03/01/23 16:05	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.667 ± 0.509 (0.928)	pCi/L	03/06/23 16:18	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates AMA-R6 RADS

Pace Project No.: 92651579

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: YAT-YAMW-3 Lab ID: 92651579025 Collected: 02/09/23 11:17 Received: 02/10/23 14:00 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	1.33 ± 0.337 (0.199) C:94% T:NA	pCi/L	03/06/23 11:17	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.860 ± 0.390 (0.648) C:84% T:89%	pCi/L	03/01/23 16:06	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	2.19 ± 0.727 (0.847)	pCi/L	03/06/23 16:18	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates AMA-R6 RADS

Pace Project No.: 92651579

Sample: YAT-PZ-35 **Lab ID: 92651578012** Collected: 02/09/23 14:48 Received: 02/10/23 14:00 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	0.190 ± 0.178 (0.351) C:92% T:NA	pCi/L	03/03/23 08:45	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.528 ± 0.567 (1.19) C:81% T:89%	pCi/L	02/28/23 19:53	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.718 ± 0.745 (1.54)	pCi/L	03/06/23 14:37	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Yates AMA-R6 RADS

Pace Project No.: 92651579

QC Batch:	567131	Analysis Method:	EPA 9320
QC Batch Method:	EPA 9320	Analysis Description:	9320 Radium 228
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92651579001, 92651579002, 92651579003, 92651579004, 92651579005, 92651579006, 92651579007, 92651579008, 92651579009, 92651579010, 92651579011

METHOD BLANK:	2754456	Matrix:	Water
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Associated Lab Samples: 92651579001, 92651579002, 92651579003, 92651579004, 92651579005, 92651579006, 92651579007, 92651579008, 92651579009, 92651579010, 92651579011

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.301 ± 0.288 (0.581) C:83% T:81%	pCi/L	03/01/23 12:26	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Yates AMA-R6 RADS
 Pace Project No.: 92651579

QC Batch:	567130	Analysis Method:	EPA 9315
QC Batch Method:	EPA 9315	Analysis Description:	9315 Total Radium
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92651579001, 92651579002, 92651579003, 92651579004, 92651579005, 92651579006, 92651579007,
 92651579008, 92651579009, 92651579010, 92651579011

METHOD BLANK: 2754452 Matrix: Water

Associated Lab Samples: 92651579001, 92651579002, 92651579003, 92651579004, 92651579005, 92651579006, 92651579007,
 92651579008, 92651579009, 92651579010, 92651579011

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.0270 ± 0.0856 (0.277) C:88% T:NA	pCi/L	03/03/23 08:24	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Yates AMA-R6 RADS

Pace Project No.: 92651579

QC Batch: 567129

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92651578012

METHOD BLANK: 2754449

Matrix: Water

Associated Lab Samples: 92651578012

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.353 ± 0.207 (0.369) C:83% T:82%	pCi/L	03/03/23 11:44	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Yates AMA-R6 RADS

Pace Project No.: 92651579

QC Batch: 567128

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92651578012

METHOD BLANK: 2754448

Matrix: Water

Associated Lab Samples: 92651578012

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.113 ± 0.105 (0.185) C:106% T:NA	pCi/L	03/03/23 09:54	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Yates AMA-R6 RADS

Pace Project No.: 92651579

QC Batch: 567132

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92651579012, 92651579013, 92651579014, 92651579015, 92651579016, 92651579017, 92651579018, 92651579020, 92651579021, 92651579022, 92651579023, 92651579024, 92651579025

METHOD BLANK: 2754458

Matrix: Water

Associated Lab Samples: 92651579012, 92651579013, 92651579014, 92651579015, 92651579016, 92651579017, 92651579018, 92651579020, 92651579021, 92651579022, 92651579023, 92651579024, 92651579025

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0411 ± 0.0925 (0.219) C:93% T:NA	pCi/L	03/06/23 08:52	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Yates AMA-R6 RADS

Pace Project No.: 92651579

QC Batch:	567134	Analysis Method:	EPA 9320
QC Batch Method:	EPA 9320	Analysis Description:	9320 Radium 228
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92651579012, 92651579013, 92651579014, 92651579015, 92651579016, 92651579017, 92651579018, 92651579020, 92651579021, 92651579022, 92651579023, 92651579024, 92651579025

METHOD BLANK: 2754459 Matrix: Water

Associated Lab Samples: 92651579012, 92651579013, 92651579014, 92651579015, 92651579016, 92651579017, 92651579018, 92651579020, 92651579021, 92651579022, 92651579023, 92651579024, 92651579025

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	-0.267 ± 0.220 (0.602) C:77% T:85%	pCi/L	03/01/23 16:03	

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QUALIFIERS

Project: Plant Yates AMA-R6 RADS

Pace Project No.: 92651579

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.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Yates AMA-R6 RADS

Pace Project No.: 92651579

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92651579001	YAT-YGWC-23S	EPA 9315	567130		
92651579002	YAT-YGWC-42	EPA 9315	567130		
92651579003	YAT-PZ-37	EPA 9315	567130		
92651579004	YAT-AMA-R6-FD-3	EPA 9315	567130		
92651579005	YAT-PZ-37D	EPA 9315	567130		
92651579006	YAT-PZ-52D	EPA 9315	567130		
92651579007	YAT-AMA-R6-EB-1	EPA 9315	567130		
92651579008	YAT-AMA-R6-FB-2	EPA 9315	567130		
92651579009	YAT-YGWC-38	EPA 9315	567130		
92651579010	YAT-AMA-R6-FD-2	EPA 9315	567130		
92651579011	YAT-YGWC-41	EPA 9315	567130		
92651579012	YAT-YGWC-43	EPA 9315	567132		
92651579013	YAT-YAMW-2	EPA 9315	567132		
92651579014	YAT-YAMW-4	EPA 9315	567132		
92651579015	YAT-YAMW-5	EPA 9315	567132		
92651578012	YAT-PZ-35	EPA 9315	567128		
92651579016	YAT-YAMW-1	EPA 9315	567132		
92651579017	YAT-AMA-R6-FD-1	EPA 9315	567132		
92651579018	YAT-YGWC-36A	EPA 9315	567132		
92651579020	YAT-AMA-R6-FB-1	EPA 9315	567132		
92651579021	YAT-YGWC-24SB	EPA 9315	567132		
92651579022	YAT-PZ-51	EPA 9315	567132		
92651579023	YAT-AMA-R6-EB-2	EPA 9315	567132		
92651579024	YAT-YGWC-49	EPA 9315	567132		
92651579025	YAT-YAMW-3	EPA 9315	567132		
92651579001	YAT-YGWC-23S	EPA 9320	567131		
92651579002	YAT-YGWC-42	EPA 9320	567131		
92651579003	YAT-PZ-37	EPA 9320	567131		
92651579004	YAT-AMA-R6-FD-3	EPA 9320	567131		
92651579005	YAT-PZ-37D	EPA 9320	567131		
92651579006	YAT-PZ-52D	EPA 9320	567131		
92651579007	YAT-AMA-R6-EB-1	EPA 9320	567131		
92651579008	YAT-AMA-R6-FB-2	EPA 9320	567131		
92651579009	YAT-YGWC-38	EPA 9320	567131		
92651579010	YAT-AMA-R6-FD-2	EPA 9320	567131		
92651579011	YAT-YGWC-41	EPA 9320	567131		
92651579012	YAT-YGWC-43	EPA 9320	567134		
92651579013	YAT-YAMW-2	EPA 9320	567134		
92651579014	YAT-YAMW-4	EPA 9320	567134		
92651579015	YAT-YAMW-5	EPA 9320	567134		
92651578012	YAT-PZ-35	EPA 9320	567129		
92651579016	YAT-YAMW-1	EPA 9320	567134		
92651579017	YAT-AMA-R6-FD-1	EPA 9320	567134		
92651579018	YAT-YGWC-36A	EPA 9320	567134		
92651579020	YAT-AMA-R6-FB-1	EPA 9320	567134		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Yates AMA-R6 RADS
Pace Project No.: 92651579

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92651579021	YAT-YGWC-24SB	EPA 9320	567134		
92651579022	YAT-PZ-51	EPA 9320	567134		
92651579023	YAT-AMA-R6-EB-2	EPA 9320	567134		
92651579024	YAT-YGWC-49	EPA 9320	567134		
92651579025	YAT-YAMW-3	EPA 9320	567134		
92651579001	YAT-YGWC-23S	Total Radium Calculation	571818		
92651579002	YAT-YGWC-42	Total Radium Calculation	571818		
92651579003	YAT-PZ-37	Total Radium Calculation	571818		
92651579004	YAT-AMA-R6-FD-3	Total Radium Calculation	571818		
92651579005	YAT-PZ-37D	Total Radium Calculation	571818		
92651579006	YAT-PZ-52D	Total Radium Calculation	571818		
92651579007	YAT-AMA-R6-EB-1	Total Radium Calculation	571818		
92651579008	YAT-AMA-R6-FB-2	Total Radium Calculation	571818		
92651579009	YAT-YGWC-38	Total Radium Calculation	571818		
92651579010	YAT-AMA-R6-FD-2	Total Radium Calculation	571818		
92651579011	YAT-YGWC-41	Total Radium Calculation	571818		
92651579012	YAT-YGWC-43	Total Radium Calculation	571849		
92651579013	YAT-YAMW-2	Total Radium Calculation	571849		
92651579014	YAT-YAMW-4	Total Radium Calculation	571849		
92651579015	YAT-YAMW-5	Total Radium Calculation	571849		
92651578012	YAT-PZ-35	Total Radium Calculation	571751		
92651579016	YAT-YAMW-1	Total Radium Calculation	571849		
92651579017	YAT-AMA-R6-FD-1	Total Radium Calculation	571849		
92651579018	YAT-YGWC-36A	Total Radium Calculation	571849		
92651579020	YAT-AMA-R6-FB-1	Total Radium Calculation	571849		
92651579021	YAT-YGWC-24SB	Total Radium Calculation	571849		
92651579022	YAT-PZ-51	Total Radium Calculation	571849		
92651579023	YAT-AMA-R6-EB-2	Total Radium Calculation	571849		
92651579024	YAT-YGWC-49	Total Radium Calculation	571849		
92651579025	YAT-YAMW-3	Total Radium Calculation	571849		

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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#: 92651579



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

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: *2/9/23*
COE

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: *2.1* 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): *2.2*

JSDA 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 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# : 92651579

*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: 03/02/23

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-)	AG15-1 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)	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	1																										
2	2	1																										
3	2	1																										
4	2	1																										
5	2	1																										
6	2	1																										
7	2	1																										
8	2	1																										
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.

Page: 2 of 2

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:	Arcadis Contacts	Company Name:	Southern Co.
Email To:	ljajckker@southernco.com	Task No.:	YAT-COR-AS8MT-202381	Address:	
Phone:	470.620.6176	Purchase Order #:		Quote:	
Requested Due Date:	5/21/19	Project Name:	Plant Valias AMA-R8	Face Project Manager:	Bonnie Wang
		Project Number:		Face Profile #:	10840
				Regulatory Agency State / Location Georgia	

ITEM #	SAMPLE ID (A-Z, 0-9, /, -) Sample IDs must be unique	MATRIX Drinking Water Waste Water Surface Water Groundwater Other TS	CODE DW WW SW GW AR OT TS	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives						Analysis Test	Y/N	Requested Analyte Filtered (Y/N)	Residual Chlorine (Y/N)	PH: _____
				START DATE	END DATE			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3					
1	YAT-YAMW-4		WG G															
2	YAT-YAMW-5		WG G															
3	YAT-PZ-37		WG G	2/8	0946													
4	YAT-AMA-R8-FD-3		WG G	2/8														
5	YAT-PZ-37D		WG G	2/8	1348													
6	YAT-PZ-51		WG G															
7	YAT-PZ-52D		WG G	2/8	1116													
8	YAT-PZ-35		WG G															
9	YAT-AMA-R8-EB-1		WG G	2/8	1840													
10	YAT-AMA-R8-EB-2		WG G															
11	YAT-AMA-R8-FB-1		WG G															
12	YAT-AMA-R8-FB-2		WG G	2/8	1100													

RELINQUISHED BY / AFFILIATION				ACCEPTED BY / AFFILIATION				
App III Metals: Boron 8020B, Ca 8010D	<i>[Signature]</i>	Arcadis	2/9/23	0855	<i>[Signature]</i>	Arcadis	2/15/23	0855
App IV: Metals 8020B, Arsenic (As), Antimony (Sb), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se), Tin (Sn), Vanadium (V), Zinc (Zn)	<i>[Signature]</i>	Arcadis	2/9/23	0855	<i>[Signature]</i>	Arcadis	2/15/23	0855
7040A: Mercury (Hg). Also add Ca, Na, K for this event.	<i>[Signature]</i>	Arcadis	2/9/23	0855	<i>[Signature]</i>	Arcadis	2/15/23	0855
Alkalinity - report total, carbonate, and bicarbonate	<i>[Signature]</i>	Arcadis	2/9/23	0855	<i>[Signature]</i>	Arcadis	2/15/23	0855

SAMPLER NAME AND SIGNATURE		TEMP in C
PRINT Name of SAMPLER:	<i>[Signature]</i>	
SIGNATURE of SAMPLER:	<i>[Signature]</i>	
DATE Signed:	2/19/23	
Received on Ice (Y/N)		
Custody Sealed Cooler (Y/N)		
Samples Intact (Y/N)		



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

Project #:

WO#: 92651579

PM: BV

Due Date: 03/02/23

CLIENT: GA-GA Power

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

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: 2/9/23

CAW

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: 2.1

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): 2.2

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:	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 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# : 92651579

PM: BV

Due Date: 03/02/23

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 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-)	V5GU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)		
1	2	1																											
2	2	1																											
3	2	1																											
4	2	1																											
5	2	1																											
6	2	1																											
7	2	1																											
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		Section B		Section C	
Requested Client Information:	GA Power Atlanta GA	Requested Project Information:	Report To: SCS Contacts Copy To: Arcadis Contacts Task No: VAT-COR-ASSMT-202331	Invoice Information:	Attention: Southern Co.
Company:	GA Power	Plant Name:	Plant Yates ANMA-R6	Company Name:	Southern Co.
Address:	Atlanta GA	Purchase Order #:		Address:	
Email To:	laucoker@scsillumin.com	Project Number:		Plant Code:	
Phone:	470.620.6176			Plant Project Manager:	Bonnie Yang
Fax:				Plant Profile #:	10840
Requested Due Date:	5/20/23				
Regulatory Agency:	Georgia				

ITEM #	MATERIAL	CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED			SAMPLE TEMP AT COLLECTION	PRESERVATIVES								Y/N	ANALYSIS TEST				Residual Chlorine (Y/N)	pH:						
					START DATE	START TIME	END DATE		UNPRESERVED	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other		App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/8320			Alkalinity (SM2320B)					
																									DATE	TIME	DATE	TIME	DATE
1	YAT-YGWC-23S	WG G	WG G	G					5	2	3																		
2	YAT-YANM-1	WG G	WG G						5	2	3																		
3	YAT-YAMA-FD-1	WG G	WG G						5	2	3																		
4	YAT-YGWC-36A	WG G	WG G						5	2	3																		
5	YAT-YGWC-49	WG G	WG G						5	2	3																		
6	YAT-YGWC-38	WG G	WG G	08/23	0930				5	2	3																		
7	YAT-YAMA-FD-2	WG G	WG G	08/23					5	2	3																		
8	YAT-YGWC-41	WG G	WG G	08/23	1030				5	2	3																		
9	YAT-YGWC-42	WG G	WG G						5	2	3																		
10	YAT-YGWC-43	WG G	WG G	08/23	1800				5	2	3																		
11	YAT-YANM-2	WG G	WG G	08/23	1355				5	2	3																		
12	YAT-YANM-3	WG G	WG G						5	2	3																		

ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE		TIME		ACCEPTED BY / AFFILIATION		DATE		TIME		TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
Arcadis Suite 300.0 (C), F, Sulfite		K. S. Williams / Arcadis		2/6/23		0900		K. S. Williams / Arcadis		2/9/23		0500					
App III Metals, Boron 6020B, Ca 8010D, Barium (Ba), Cadmium (Cd), Chromium (Cr), Lithium (Li), Molybdenum (Mo), Selenium (Se), TDS, Mercury (Hg). Also add Ca, Na, K for this event. Alkalinity - report total, carbonate, and bicarbonate		K. S. Williams / Arcadis		2/9/23		0925		K. S. Williams / Arcadis		2/9/23		0920					
		K. S. Williams / Arcadis		2/9/23		1235		Bonnie Yang / Southern Co.		2/9/23		1235					

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: K. S. Williams

SIGNATURE of SAMPLER: *[Signature]*

DATE signed: 2/9/23

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: **2** of **2**

Company: GA Power	Report To: SCS Contacts	Attention: Southern Co.	
Address: Atlanta, GA	Copy To: Arcadis Contacts	Company Name:	Regulatory Agency:
Email To: jlucocker@southernco.com	Purchase Order #: VAT-CGR-ASBMT-202351	Address:	State / Location:
Phone: 470.620.6176	Project Name: Plant Yates AMA-RB	Pace Quote:	Georgia
Requested Due Date: START	Project Number:	Pace Project Manager: Ronan Wang	
		Pace Profile #: 10840	

ITEM #	SAMPLE ID <small>One Character per box. (A-Z, 0-9, /, -) Sample ids must be unique</small>	MATRIX <small>Drinking Water Waste Wastewater Process Water Surface Water Other</small>	CODE <small>DW WT WW SW SL CL WP AR OT TS</small>	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G-GRAB C-COMP)	COLLECTED		DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives						Analytes Test	Y/N	App III/IV Metals + Ca, Na, K	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Alkalinity (SM2320B)	Residual Chlorine (Y/N)	pH: 6.9 6.9 5.07 6.15		
						START	END					Unpreserved	H2SO4	HNO3	NaOH	Na2S2O3	Methanol										Other	
1	YAT-YAMW-4			WG G	G			2/12/23	0900		3										X	X	X	X	X			
2	YAT-YAMW-5			WG G	G			2/16/23	0520		3										X	X	X	X	X			
3	YAT-PZ-37			WG G	G						3										X	X	X	X	X			
4	YAT-AMA-R6-FD-3			WG G	G						3										X	X	X	X	X			
5	YAT-PZ-37D			WG G	G						3										X	X	X	X	X			
6	YAT-PZ-51			WG G	G						3										X	X	X	X	X			
7	YAT-PZ-52D			WG G	G						3										X	X	X	X	X			
8	YAT-PZ-35			WG G	G						3										X	X	X	X	X			
9	YAT-AMA-R6-EB-1			WG G	G						3										X	X	X	X	X			
10	YAT-AMA-R6-EB-2			WG G	G						3										X	X	X	X	X			
11	YAT-AMA-R6-FB-1			WG G	G						3										X	X	X	X	X			
12	YAT-AMA-R6-FB-2			WG G	G						3										X	X	X	X	X			

ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE		TIME		ACCEPTED BY / AFFILIATION		DATE		TIME		SAMPLE CONDITIONS	
Antons Suite 300.0 (Cl, F, Sulfide)		Ron Arcadis		2/12/23		0900		Ron Williams / Pace		2/12/23		0500			
App IV Metals: Boron (B), Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se), Tin (Sn), Vanadium (V), Zinc (Zn)		Ron Williams / Pace		2/9/23		0520		Ron Williams / Pace		2/9/23		0926			
7040A: Mercury (Hg). Also add Ca, Na, K for this event						1235		Ron Williams / Pace		2/9/23		1235			
Alkalinity - report total, carbonate, and bicarbonate															

SAMPLER NAME AND SIGNATURE			
PRINT NAME of SAMPLER:	(Arcadis) - Ron Williams	DATE Signed:	2/9/23
SIGNATURE of SAMPLER:	<i>Ron Williams</i>	DATE Signed:	2/9/23
TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

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:	
Company:	GA Power	Address:	Atlanta, GA
Report To:	Atlanta, GA	Copy To:	ARCADIS CONTACTS
Task No:	YAT-CCR-ASSMT-20231	Purchase Order #:	
Project Name:	Plant Yates AMA-R6	Project Number:	
Requested Due Date:	SEP 27 2023	State / Location:	Georgia
Section B		Required Project Information:	
Report To:	SCS Contacts	Attention:	Southern Co.
Company Name:	Arcadis	Address:	
Invoice Information:		Company Name:	
Page Quote:		Project Manager:	Bonnie Vang
Page Profile #:	10840	Requested Analysis Filtered (Y/N):	

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9, /, .)	MATRIX Drinking Water Waste Water Product Sewage Other	CODE DW WW P SL OK AR OT TS	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analyses Test	Residual Chlorine (Y/N)					
				START DATE	END DATE			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol			Other				
1	YAT-YGWC-23S		WG G				5														
2	YAT-YAMW-1		WG G	21/07/23	15:50		2														
3	YAT-YAMW-1		WG G	21/07/23	13:10		2														
4	YAT-YGWC-36A		WG G	21/07/23	13:10		2														
5	YAT-YGWC-49		WG G				2														
6	YAT-YGWC-38		WG G				2														
7	YAT-YAMA-FD-2		WG G				2														
8	YAT-YGWC-41		WG G				2														
9	YAT-YGWC-42		WG G				2														
10	YAT-YGWC-43		WG G				2														
11	YAT-YAMW-2		WG G				2														
12	YAT-YAMW-3		WG G				2														

ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		ACCEPTED BY / AFFILIATION		SAMPLE CONDITIONS	
Amonia Suda 300.0 (Cl, F, Sulfide)		Kim Lipschuski Arcadis		Bonnie Vang Arcadis		TEMP in C	
App III Metals: Boron 8020B, Ca 8010D		21/07/23		21/07/23		Received on Ice (Y/N)	
Barium (Ba), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb)		1200		1200		Custody Sealed Cooler (Y/N)	
Lithium (Li), Molybdenum (Mo), Selenium (Se)		1400		1400		Samples Intact (Y/N)	
7040d, Mercury (Hg), Also add Ca, Na, K for this event.		21/07/23		21/07/23			
Alkalinity - report total, carbonate, and bicarbonate							

MO#: 92651579
 PM: BV Due Date: 03/02/23
 CLIENT: GR-GR Power

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:
 Company: **GA Power**
 Address: **Atlanta, GA**
 Email To: **lgucke@southernco.com**
 Phone: **470.620.6176** Fax: **770**
 Requested Due Date: **3/10/23**

Section B

Requested Project Information:
 Report To: **SCS Contacts**
 Copy To: **Arcadis Contacts**
 Task No: **VAT-CCR-ASSMT-202281**
 Purchase Order #: **Plant Yates AMA-R6**
 Project Name: **Plant Yates AMA-R6**
 Project Number:

Section C

Invoice Information:
 Attention: **Southern Co.**
 Company Name:
 Address:
 Paces Quote:
 Paces Project Manager: **Rennie Yarns**
 Paces Profile #: **10840**

Regulatory Agency
 State / Location: **Georgia**

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9, /, -) Sample ids must be unique	MATRIX Drinking Water Water Waste Water Product Other Air Other Thru	CODE DW WT WW P SL OT AR OT TS	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS							Analyses Test	Residual Chlorine (Y/N)	pH:	
				DATE	TIME		Preservatives										Y/N
							Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol				
1	VAT-YAMW-4		WG				6	3	3	3							
2	VAT-YAMW-5		WG				6	3	3	3							
3	VAT-PZ-37		WG				6	3	3	3							
4	VAT-AMA-R6-FD-3		WG				6	3	3	3							
5	VAT-PZ-37D		WG				6	3	3	3							
6	VAT-PZ-51		WG				6	3	3	3							
7	VAT-PZ-52D		WG				6	3	3	3							
8	VAT-PZ-35		WG				6	3	3	3							
9	VAT-AMA-R6-EB-1		WG				6	3	3	3							
10	VAT-AMA-R6-EB-2		WG				6	3	3	3							
11	VAT-AMA-R6-FB-1		WG				6	3	3	3							
12	VAT-AMA-R6-FB-2		WG				6	3	3	3							

W0#: 92651579

PM: BV Due Date: 03/02/23
 CLIENT: GA-GA Power

SAMPLER NAME AND SIGNATURE		DATE	TIME	DATE	TIME	TEMP In C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
V. Lapszynski		2/10/23	17:00	2/10/23	14:00				
V. Lapszynski		2/10/23	17:00	2/10/23	14:00				

REIMBURSED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
V. Lapszynski	2/10/23	17:00	V. Lapszynski	2/10/23	14:00

Required Client Information:
 Company: GA Power
 Address: Atlanta, GA
 Email To: laucoker@southernco.com
 Phone: 470.620.6176
 Requested Due Date: 6/28/13

Required Project Information:
 Report To: SCS Contacts
 Copy To: Arcadia Contacts
 Task No: VAT-CGR-AS9MT-202231
 Purchase Order #: VAT-CGR-AS9MT-202231
 Project Name: Plant Yates AMA-R6
 Project Number:

Invoice Information:
 Attention: Southern Co.
 Company Name:
 Address:
 Price Quote: Ronnie Wang
 Pace Project Manager: Ronnie Wang
 Pace Profile #: 10840

Regulatory Agency:
 State / Location:
 Georgia

Requested Analytical Filtered (Y/N)

ITEM #	SAMPLE ID (A-Z, 0-9 / , -) One character per box. Sample ids must be unique	MATRIX		CODE		COLLECTED			SAMPLE TEMP AT COLLECTION	PRESERVATIVES								ANALYSES TEST				Residual Chlorine (Y/N)	pH: <u>5.67</u>		
		Drinking Water	Domestic	DW	WT	START DATE	TIME	END DATE		TIME	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	App III/IV Metals + Ca, Na, K	Cl, F, SO4	TDS (2540C)			RAD 9315/9320	Alkalinity (SM2320B)
		Water	Process	WW	P	DATE	TIME	DATE	TIME									X	X	X	X			X	
1	VAT-YGWC-24SB	WG	G			2/10/13	0945			6	3	3						X	X	X	X	X			
ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE		TIME		ACCEPTED BY / AFFILIATION		DATE		TIME		SAMPLE CONDITIONS											
Arcadia Suite 300.0 (Cl, F, Sulfide)		K. M. Superswask		2/10/13		1200		K. M. Superswask		2/10/13		1200													
App IV Metals: Boron 6020B, Ca 8010D		K. M. Superswask		2/10/13		1400		K. M. Superswask		2/10/13		1401													
App IV: Methyl 6020B, Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg). Also add Ca, Na, K for this event. Alkalinity - report total, carbonate, and bicarbonate																									
SAMPLER NAME AND SIGNATURE		PRINT Name of SAMPLER:		SIGNATURE of SAMPLER:		DATE Signed:		TEMP in C		Received on ice (Y/N)		Custody Sealed Cooler (Y/N)		Samples Intact (Y/N)											
		Arcadia - K. M. Superswask		[Signature]		2/10/13																			

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:
 Company: GA Power
 Address: Atlanta, GA
 Email To: [redacted]@southernco.com
 Phone: 470.620.6176 Fax
 Requested Due Date: **STO TAT**

Section B
 Required Project Information:
 Report To: SCS Contacts
 Copy To: Arcadis Contacts
 Test No.: VAT-COR-ASBMT-202391
 Purchase Order #: [redacted]
 Project Name: Plant Yates AMA-R6
 Project Number:

Section C
 Invoice Information:
 Attention: Southern Co.
 Company Name:
 Address:
 Price Quote:
 Price Project Manager: **Bonnie Wang**
 Price Profile #: 10840

Regulatory Agency
 State / Location
 Georgia

ITEM #	SAMPLE ID <small>One Character per box. (A-Z, 0-9 / -)</small> Sample IDs must be unique	MATRIX	CODE	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analytes Test	Requested Analytes Filtered (Y/N)	Residual Chlorine (Y/N)						
				START DATE	END DATE			H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other				App III/IV Metals + Ca, Na, K	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Alkalinity (SM2320B)	
1	YAT-YAMW-4	Matrix	WG G				6 3																
2	YAT-YAMW-5	Matrix	WG G				6 3																
3	YAT-PZ-37	Matrix	WG G				6 3																
4	YAT-AMA-R6-FD-3	Matrix	WG G				6 3																
5	YAT-PZ-37D	Matrix	WG G				6 3																
6	YAT-PZ-51	Matrix	WG G				6 3																
7	YAT-PZ-52D	Matrix	WG G	2/9	1601		6 3																
8	YAT-PZ-35	Matrix	WG G				6 3																
9	YAT-AMA-R6-EB-1	Matrix	WG G				6 3																
10	YAT-AMA-R6-EB-2	Matrix	WG G	2/9	1725		6 3																
11	YAT-AMA-R6-FB-1	Matrix	WG G				6 3																
12	YAT-AMA-R6-FB-2	Matrix	WG G				6 3																

Additional Comments:
 Arcadis
 Date: 2/10/23
 Time: 1400
 Accepted by: [Signature]
 Date: 2/10/23
 Time: 1400

Sampler Name and Signature:
 PRINT Name of Sampler: [redacted]
 SIGNATURE of SAMPLER: [Signature]
 DATE Signed: 2/10/23

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	Address: Atlanta, GA	Report To: SCS Contacts	Copy To: Arcadis Contacts	Attention: Southern Co.	Company Name: Southern Co.
Email To: laucoker@southernco.com	Phone: 470.620.6176	Task No: VAT-CCR-ASSMT-202391	Purchase Order #: VAT-AMA-R6	Address:	Address:
Requested Due Date: <u>5/10/24</u>	Fax:	Project Name: Plant Yates AMA-R6	Project Number:	Pace Quote:	Pace Project Manager: Bonnie Vang
				Pace Profile #:	10840
					State / Location: Georgia

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample IDs must be unique	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analyses Test	Requested Analyte Filtered (Y/N)	Residual Chlorine (Y/N)	pH:	
				START DATE	END DATE			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol					Other
1	YAT-YGWC-23S	WG G	G				5												
2	YAT-YAMW-1	WG G	G				5												
3	YAT-AMA-FD-1	WG G	G				5												
4	YAT-YGWC-36A	WG G	G				5												
5	YAT-YGWC-49	WG G	G	2/4/23	5:00		6												
6	YAT-YGWC-38	WG G	G				5												
7	YAT-AMA-FD-2	WG G	G				5												
8	YAT-YGWC-41	WG G	G				5												
9	YAT-YGWC-42	WG G	G				5												
10	YAT-YGWC-43	WG G	G				5												
11	YAT-YAMW-2	WG G	G				5												
12	YAT-YAMW-3	WG G	G				5												

ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE		TIME		ACCEPTED BY / AFFILIATION		DATE		TIME		SAMPLE CONDITIONS	
Annona Suite 300.0 (Cl, F, Sulfate)		M. Williams		2/10/23		1200		M. Williams		2/10/23		1200		Received on Ice (Y/N)	
App III Metals: Boron (B), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb),		Arcadis		2/10/23		1400		M. Williams		2/10/23		1400		Custody Sealed Cooler (Y/N)	
Benzium (L), Manganese (Mn), Selenium (Se),		Southern Co		2/10/23		1400		M. Williams		2/10/23		1400		Samples Intact (Y/N)	
Lithium (Li), Molybdenum (Mo), Selenium (Se),															
Zinc (Zn), Mercury (Hg). Also add Ca, Na, K for this event.															
Alkalinity - report total, carbonate, and bicarbonate															

SAMPLER NAME AND SIGNATURE		PRINT Name of SAMPLER:	SIGNATURE OF SAMPLER:	DATE Signed:
M. Williams		M. Williams	[Signature]	2/10/23

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:
 Company: GA Power
 Address: Atlanta, GA
 Email To: laucocker@southernco.com
 Phone: 470.620.6178
 Requested Due Date: 11/17/11

Section B
 Required Project Information:
 Report To: SCS Contacts
 Copy To: Arcadia Contacts
 Trail No: YAT-CCR-4848MT-20281
 Purchase Order #: Plant Yates AMA-R6
 Project Name: Plant Yates AMA-R6
 Project Number: 10840

Section C
 Invoice Information:
 Attention: Southern Co.
 Company Name:
 Address:
 Pace Quote:
 Pace Project Manager: Bonnie Vang
 Pace Profile #: 10840

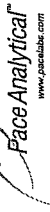
Regulatory Agency: Georgia
 State / Location:
 Page: 1 of 1

ITEM #	SAMPLE ID <small>One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique</small>	MATRIX CODE <small>DW = Drinking Water WW = Waste Water PW = Process Water SL = Stormwater CL = Cooling Water AL = Air OT = Other Tissue</small>	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	PRESERVATIVES							Analytes Test	Residual Chlorine (Y/N)				
					START DATE	END DATE		Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol			Other			
1	YAT-YGWC-235	WG G	WG G																	
2	YAT-YAMW-1	WG G	WG G																	
3	YAT-AMA-FD-1	WG G	WG G																	
4	YAT-YGWC-36A	WG G	WG G																	
5	YAT-YGWC-49	WG G	WG G																	
6	YAT-YGWC-38	WG G	WG G																	
7	YAT-AMA-FD-2	WG G	WG G																	
8	YAT-YGWC-41	WG G	WG G																	
9	YAT-YGWC-42	WG G	WG G																	
10	YAT-YGWC-43	WG G	WG G																	
11	YAT-YAMW-2	WG G	WG G																	
12	YAT-YAMW-3	WG G	WG G																	
ADDITIONAL COMMENTS			RELINQUISHED BY / AFFILIATION			DATE			TIME			ACCEPTED BY / AFFILIATION			DATE			TIME		
Athens Site 300.0 (C) F. Suite 10			Jesse De Vire, Arcadia			2/10/13			1400			Charles Furre - 2110123			1400			App III Metals: Boron 60208, Ca 6010D, Beryllium (B), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se), Vanadium (V), Zinc 7040A, Mercury (Hg). Also add Ca, Na, K for this event. Alkalinity - report total, carbonate, and bicarbonate		

SAMPLER NAME AND SIGNATURE: Jessica Ware
 PRINT Name of SAMPLER: JESSICA WARE
 SIGNATURE of SAMPLER: Jessica Ware
 DATE Signed: 2/10/13

TEMP in C: 92.65
 Received on Ice (Y/N): ONS
 Custody Sealed Cooler (Y/N): ONS
 Samples Intact (Y/N): ONS

Quality Control Sample Performance Assessment



Test: Ra-228
Analyst: JJS1
Date: 2/27/2023
Worklist: 71484
Matrix: WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2754456
MB concentration:	0.301
M/B 2 Sigma CSU:	0.288
MB MDC:	0.581
MB Numerical Performance Indicator:	2.05
MB Status vs Numerical Indicator:	Warning
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	
	LCSD71484	LCSD71484
Count Date:	3/1/2023	3/1/2023
Spike I.D.:	22-040	22-040
Decay Corrected Spike Concentration (pCi/mL):	33.389	33.389
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.807	0.809
Target Conc. (pCi/L, g, F):	4.139	4.127
Uncertainty (Calculated):	0.203	0.202
Result (pCi/L, g, F):	4.239	3.636
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.991	0.862
Numerical Performance Indicator:	0.19	-1.09
Percent Recovery:	102.40%	88.09%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

Duplicate Sample Assessment	Enter Duplicate sample IDs if other than LCS/LCSD in the space below:
Sample I.D.:	
Duplicate Sample I.D.:	
Sample Result 2 Sigma CSU (pCi/L, g, F):	
Sample Duplicate Result (pCi/L, g, F):	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	
Are sample and/or duplicate results below RL?	
Duplicate Numerical Performance Indicator:	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	
Duplicate Status vs Numerical Indicator:	
Duplicate Status vs RPD:	
% RPD Limit:	

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

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

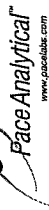
Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

Handwritten: VAR 3/2/23

Handwritten: VAR 3/2/23

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228
Analyst: JGH
Date: 2/27/2023
Worklist: 71486
Matrix: WT

Method Blank Assessment	
MB Sample ID	2754459
MB concentration:	-0.267
MB 2 Sigma CSU:	0.220
MB MDC:	0.602
MB Numerical Performance Indicator:	-2.37
MB Status vs Numerical Indicator:	Warning
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCS/2 (Y or N)?	
	Y	N
Count Date:	3/1/2023	LCSD71486
Spike I.D.:	22-040	22-040
Decay Corrected Spike Concentration (pCi/mL):	33.388	33.388
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.805	0.806
Target Conc. (pCi/L, g, F):	4.146	4.144
Uncertainty (Calculated):	0.203	0.203
Result (pCi/L, g, F):	2.972	3.505
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.774	0.834
Numerical Performance Indicator:	-2.87	-1.46
Percent Recovery:	71.69%	84.58%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

Duplicate Sample Assessment	
Sample I.D.:	LCSD71486
Duplicate Sample I.D.:	LCSD71486
Duplicate Result (pCi/L, g, F):	2.972
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.774
Sample Duplicate Result (pCi/L, g, F):	3.505
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.834
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	-0.918
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	16.49%
Duplicate Status vs Numerical Indicator:	Pass
Duplicate Status vs RPD:	Pass
% RPD Limit:	36%

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

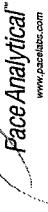
Matrix Spike/Matrix Spike Duplicate Sample Assessment
Sample I.D. Sample MS I.D. Sample MSD I.D. Sample Matrix Spike Result: Matrix Spike Result 2 Sigma CSU (pCi/L, g, F): Sample Matrix Spike Duplicate Result: Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F): Duplicate Numerical Performance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

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

Comments:

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Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
Analyst: SLC
Date: 2/24/2023
Worklist: 71483
Matrix: WT

Method Blank Assessment	
MB Sample ID	2754452
MB concentration:	-0.027
M/B 2 Sigma CSU:	0.086
MB MDC:	0.277
MB Numerical Performance Indicator:	-0.62
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment	LCS (Y or N)?	
	LCS71483	LCS071483
Count Date:	3/6/2023	3/6/2023
Spike I.D.:	19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.019	24.019
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.504	0.505
Target Conc. (pCi/L, g, F):	4.767	4.755
Uncertainty (Calculated):	0.057	0.057
Result (pCi/L, g, F):	5.059	4.773
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.918	0.884
Numerical Performance Indicator:	0.62	0.04
Percent Recovery:	106.12%	100.37%
Status vs Numerical Indicator:	Pass	Pass
Status vs Recovery:	N/A	N/A
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

Duplicate Sample Assessment	LCS (Y or N)?	
	LCS71483	LCS071483
Sample I.D.:	92651607001	92651607001DUP
Duplicate Sample I.D.:	0.193	0.193
Sample Result (pCi/L, g, F):	0.918	0.152
Sample Duplicate Result (pCi/L, g, F):	4.773	0.055
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.884	0.103
Are sample and/or duplicate results below RL?	NO	See Below ##
Duplicate Numerical Performance Indicator:	0.440	1.471
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	5.57%	111.19%
Duplicate Status vs Numerical Indicator:	Pass	Pass
Duplicate Status vs RPD:	N/A	N/A
% RPD Limit:	25%	25%

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

Comments:

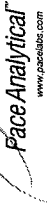
5/1
3-6-23

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

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

4M3/6/23

Quality Control Sample Performance Assessment



Analyst: Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
Analyst: SLC
Date: 2/24/2023
Worklist: 71485
Matrix: DW

Method Blank Assessment	
MB Sample ID	2754458
MB concentration:	0.041
M/B Counting Uncertainty:	0.092
MB MDC:	0.219
MB Numerical Performance Indicator:	0.87
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCS (Y or N)?		Y
	LCS71485	LCS71485	
Count Date:	3/6/2023	3/6/2023	LCSD71485
Spike I.D.:	19-033	19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.019	24.019	24.019
Volume Used (mL):	0.10	0.10	0.10
Aliquot Volume (L, g, F):	0.503	0.503	0.502
Target Conc. (pCi/L, g, F):	4.773	4.773	4.784
Uncertainty (Calculated):	0.057	0.057	0.057
Result (pCi/L, g, F):	5.338	5.338	5.531
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.548	0.548	0.540
Numerical Performance Indicator:	2.01	2.01	2.70
Percent Recovery:	111.84%	111.84%	115.61%
Status vs Numerical Indicator:	N/A	N/A	N/A
Status vs Recovery:	Pass	Pass	Pass
Upper % Recovery Limits:	125%	125%	125%
Lower % Recovery Limits:	75%	75%	75%

Duplicate Sample Assessment	LCS71485	92651579012DUP
Sample I.D.:	LCS71485	92651579012DUP
Duplicate Sample I.D.:	5.338	2.791
Sample Result Counting Uncertainty (pCi/L, g, F):	0.548	0.414
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.531	0.168
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.540	0.432
Are sample and/or duplicate results below RL?	NO	See Below #
Duplicate Numerical Performance Indicator:	-0.491	-1.235
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	3.31%	12.65%
Duplicate Status vs Numerical Indicator:	N/A	N/A
Duplicate Status vs RPD:	Pass	Pass
% RPD Limit:	25%	25%

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

Comments:

ET
3/6/23

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

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

UAM3/4/23

April 18, 2023

Ms. Lauren Petty
Southern Company
42 Inverness Center Parkway
Birmingham, AL 35242

RE: Project: Plant Yates AMA-R6
Pace Project No.: 92651580

Dear Ms. Petty:

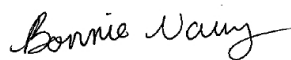
Enclosed are the analytical results for sample(s) received by the laboratory between February 09, 2023 and February 10, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where 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: Joju Abraham, Georgia Power-CCR
Lauren Coker, Georgia Pwer
Noelia Gangi, Georgia Power
Geoffrey Gay, ARCADIS - Atlanta
Ben Hodges, Georgia Power-CCR
Kristen Jurinko
Laura Midkiff, Georgia Power
Kelley Sharpe, ARCADIS - Atlanta
Alex Simpson, Arcadis
Michael Smilley, Georgia Power

Becky Steever, Arcadis
Tina Sullivan, ERM
Albert Zumbuhl, Arcadis



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Plant Yates AMA-R6

Pace Project No.: 92651580

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 Yates AMA-R6

Pace Project No.: 92651580

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92651580001	YAT-YGWC-23S	Water	02/08/23 15:35	02/09/23 12:35
92651580002	YAT-YGWC-42	Water	02/08/23 17:36	02/09/23 12:35
92651580003	YAT-PZ-37	Water	02/08/23 09:46	02/09/23 12:35
92651580004	YAT-AMA-R6-FD-3	Water	02/08/23 00:00	02/09/23 12:35
92651580005	YAT-PZ-37D	Water	02/08/23 13:48	02/09/23 12:35
92651580006	YAT-PZ-52D	Water	02/08/23 11:16	02/09/23 12:35
92651580007	YAT-AMA-R6-EB-1	Water	02/08/23 18:40	02/09/23 12:35
92651580008	YAT-AMA-R6-FB-2	Water	02/08/23 11:00	02/09/23 12:35
92651580009	YAT-YGWC-38	Water	02/08/23 09:30	02/09/23 12:35
92651580010	YAT-AMA-R6-FD-2	Water	02/08/23 00:00	02/09/23 12:35
92651580011	YAT-YGWC-41	Water	02/08/23 16:30	02/09/23 12:35
92651580012	YAT-YGWC-43	Water	02/08/23 18:00	02/09/23 12:35
92651580013	YAT-YAMW-2	Water	02/08/23 13:55	02/09/23 12:35
92651580014	YAT-YAMW-4	Water	02/08/23 14:52	02/09/23 12:35
92651580015	YAT-YAMW-5	Water	02/08/23 10:58	02/09/23 12:35
92651580016	YAT-YAMW-1	Water	02/09/23 15:56	02/10/23 14:00
92651580017	YAT-AMA-R6-FD-1	Water	02/09/23 00:00	02/10/23 14:00
92651580018	YAT-YGWC-36A	Water	02/09/23 13:10	02/10/23 14:00
92651580020	YAT-AMA-R6-FB-1	Water	02/09/23 16:55	02/10/23 14:00
92651580021	YAT-YGWC-24SB	Water	02/10/23 09:45	02/10/23 14:00
92651580022	YAT-PZ-51	Water	02/09/23 16:01	02/10/23 14:00
92651580023	YAT-AMA-R6-EB-2	Water	02/09/23 17:25	02/10/23 14:00
92651580024	YAT-YGWC-49	Water	02/09/23 15:00	02/10/23 14:00
92651580025	YAT-YAMW-3	Water	02/09/23 11:17	02/10/23 14:00
92651576012	YAT-PZ-35	Water	02/09/23 14:48	02/10/23 14:00

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92651580001	YAT-YGWC-23S	EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	JCM	3
92651580002	YAT-YGWC-42	EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	JCM	3
92651580003	YAT-PZ-37	EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	JCM	3
92651580004	YAT-AMA-R6-FD-3	EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	JCM	3
92651580005	YAT-PZ-37D	EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	JCM	3
92651580006	YAT-PZ-52D	EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	JCM	3
92651580007	YAT-AMA-R6-EB-1	EPA 6010D	MS	4

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92651580008	YAT-AMA-R6-FB-2	EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	JCM	3
		EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
92651580009	YAT-YGWC-38	EPA 300.0 Rev 2.1 1993	JCM	3
		EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	JCM	3
		EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
92651580010	YAT-AMA-R6-FD-2	SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	JCM	3
		EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	JCM	3
		EPA 6010D	MS	4
92651580011	YAT-YGWC-41	EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	JCM	3
		EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
92651580012	YAT-YGWC-43	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
92651580013	YAT-YAMW-2	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	MS	4
		EPA 6020B	CW1	13

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92651580014	YAT-YAMW-4	EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
92651580015	YAT-YAMW-5	SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92651580016	YAT-YAMW-1	EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	JCM	3
		EPA 6010D	MS	4
		EPA 6020B	CW1	13
92651580017	YAT-AMA-R6-FD-1	EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	JCM	3
		EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
92651580018	YAT-YGWC-36A	SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	JCM	3
		EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	JCM	3
92651580020	YAT-AMA-R6-FB-1	EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		EPA 6010D	MS	4

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SAMPLE ANALYTE COUNT

Project: Plant Yates AMA-R6

Pace Project No.: 92651580

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	JCM	3
92651580021	YAT-YGWC-24SB	EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	JCM	3
92651580022	YAT-PZ-51	EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	JCM	3
92651580023	YAT-AMA-R6-EB-2	EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	JCM	3
92651580024	YAT-YGWC-49	EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	JCM	3
92651580025	YAT-YAMW-3	EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	JCM	3
92651576012	YAT-PZ-35	EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	JCM	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 Yates AMA-R6

Pace Project No.: 92651580

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92651580001	YAT-YGWC-23S					
	Performed by	Client			03/03/23 10:09	
	Collected By	Jessica Ware			03/03/23 10:09	
	Collected Date	02/08/23			03/03/23 10:09	
	Collected Time	15:35			03/03/23 10:09	
	pH	5.33	Std. Units		03/03/23 10:09	
EPA 6010D	Calcium	10.9	mg/L	1.0	02/22/23 17:51	
EPA 6010D	Potassium	1.1	mg/L	0.20	02/22/23 17:51	
EPA 6010D	Sodium	14.6	mg/L	1.0	02/22/23 17:51	
EPA 6010D	Magnesium	8.9	mg/L	0.050	02/22/23 17:51	
EPA 6020B	Barium	0.053	mg/L	0.0050	02/24/23 12:57	
EPA 6020B	Beryllium	0.00022J	mg/L	0.00050	02/24/23 12:57	
EPA 6020B	Boron	1.6	mg/L	0.040	02/24/23 12:57	
EPA 6020B	Chromium	0.0014J	mg/L	0.0050	02/24/23 12:57	
EPA 6020B	Lithium	0.0028J	mg/L	0.030	02/24/23 12:57	
EPA 6020B	Selenium	0.035	mg/L	0.0050	02/24/23 12:57	
SM 2540C-2015	Total Dissolved Solids	158	mg/L	25.0	02/13/23 16:49	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	10.0	mg/L	5.0	02/16/23 19:39	
SM 2320B-2011	Alkalinity, Total as CaCO3	10.0	mg/L	5.0	02/16/23 19:39	
EPA 300.0 Rev 2.1 1993	Chloride	2.0	mg/L	1.0	02/11/23 17:05	
EPA 300.0 Rev 2.1 1993	Sulfate	78.0	mg/L	1.0	02/11/23 17:05	M1
92651580002	YAT-YGWC-42					
	Performed by	Client			03/03/23 10:10	
	Collected By	Jessica Ware			03/03/23 10:10	
	Collected Date	02/08/23			03/03/23 10:10	
	Collected Time	17:36			03/03/23 10:10	
	pH	5.48	Std. Units		03/03/23 10:10	
EPA 6010D	Calcium	74.6	mg/L	1.0	02/22/23 17:56	
EPA 6010D	Potassium	10.9	mg/L	0.20	02/22/23 17:56	
EPA 6010D	Sodium	32.9	mg/L	1.0	02/22/23 17:56	
EPA 6010D	Magnesium	77.7	mg/L	0.050	02/22/23 17:56	
EPA 6020B	Arsenic	0.0025J	mg/L	0.0050	02/24/23 13:03	
EPA 6020B	Barium	0.023	mg/L	0.0050	02/24/23 13:03	
EPA 6020B	Beryllium	0.000062J	mg/L	0.00050	02/24/23 13:03	
EPA 6020B	Boron	14.5	mg/L	0.40	02/25/23 14:00	
EPA 6020B	Cadmium	0.00014J	mg/L	0.00050	02/24/23 13:03	
EPA 6020B	Cobalt	0.0018J	mg/L	0.0050	02/24/23 13:03	
EPA 6020B	Lithium	0.046	mg/L	0.030	02/24/23 13:03	
EPA 6020B	Molybdenum	0.00081J	mg/L	0.010	02/24/23 13:03	
EPA 6020B	Selenium	0.041	mg/L	0.0050	02/24/23 13:03	
SM 2540C-2015	Total Dissolved Solids	853	mg/L	25.0	02/13/23 16:49	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	34.3	mg/L	5.0	02/16/23 19:44	
SM 2320B-2011	Alkalinity, Total as CaCO3	34.3	mg/L	5.0	02/16/23 19:44	
EPA 300.0 Rev 2.1 1993	Chloride	3.4	mg/L	1.0	02/11/23 17:48	
EPA 300.0 Rev 2.1 1993	Fluoride	0.080J	mg/L	0.10	02/11/23 17:48	
EPA 300.0 Rev 2.1 1993	Sulfate	494	mg/L	10.0	02/12/23 04:30	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92651580003	YAT-PZ-37					
	Performed by	Client			03/03/23 10:11	
	Collected By	Jessica Ware			03/03/23 10:11	
	Collected Date	02/08/23			03/03/23 10:11	
	Collected Time	09:46			03/03/23 10:11	
	pH	5.15	Std. Units		03/03/23 10:11	
EPA 6010D	Calcium	95.9	mg/L	1.0	02/22/23 18:00	
EPA 6010D	Potassium	4.6	mg/L	0.20	02/22/23 18:00	
EPA 6010D	Sodium	27.6	mg/L	1.0	02/22/23 18:00	
EPA 6010D	Magnesium	50.7	mg/L	0.050	02/22/23 18:00	
EPA 6020B	Barium	0.022	mg/L	0.0050	02/24/23 13:09	
EPA 6020B	Beryllium	0.0011	mg/L	0.00050	02/24/23 13:09	
EPA 6020B	Boron	8.2	mg/L	0.040	02/24/23 13:09	
EPA 6020B	Cadmium	0.00076	mg/L	0.00050	02/24/23 13:09	
EPA 6020B	Cobalt	0.0022J	mg/L	0.0050	02/24/23 13:09	
EPA 6020B	Lithium	0.013J	mg/L	0.030	02/24/23 13:09	
EPA 6020B	Selenium	0.16	mg/L	0.0050	02/24/23 13:09	
SM 2540C-2015	Total Dissolved Solids	822	mg/L	25.0	02/13/23 16:50	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	13.2	mg/L	5.0	02/16/23 19:51	
SM 2320B-2011	Alkalinity, Total as CaCO3	13.2	mg/L	5.0	02/16/23 19:51	
EPA 300.0 Rev 2.1 1993	Chloride	3.8	mg/L	1.0	02/11/23 18:03	
EPA 300.0 Rev 2.1 1993	Sulfate	449	mg/L	10.0	02/12/23 04:44	
92651580004	YAT-AMA-R6-FD-3					
EPA 6010D	Calcium	97.3	mg/L	1.0	02/22/23 18:05	
EPA 6010D	Potassium	4.5	mg/L	0.20	02/22/23 18:05	
EPA 6010D	Sodium	27.9	mg/L	1.0	02/22/23 18:05	
EPA 6010D	Magnesium	51.1	mg/L	0.050	02/22/23 18:05	
EPA 6020B	Barium	0.021	mg/L	0.0050	02/24/23 13:15	
EPA 6020B	Beryllium	0.0011	mg/L	0.00050	02/24/23 13:15	
EPA 6020B	Boron	7.7	mg/L	0.040	02/24/23 13:15	
EPA 6020B	Cadmium	0.00069	mg/L	0.00050	02/24/23 13:15	
EPA 6020B	Cobalt	0.0020J	mg/L	0.0050	02/24/23 13:15	
EPA 6020B	Lithium	0.012J	mg/L	0.030	02/24/23 13:15	
EPA 6020B	Selenium	0.15	mg/L	0.0050	02/24/23 13:15	
SM 2540C-2015	Total Dissolved Solids	884	mg/L	25.0	02/13/23 16:51	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	12.8	mg/L	5.0	02/16/23 19:57	
SM 2320B-2011	Alkalinity, Total as CaCO3	12.8	mg/L	5.0	02/16/23 19:57	
EPA 300.0 Rev 2.1 1993	Chloride	3.8	mg/L	1.0	02/11/23 18:17	
EPA 300.0 Rev 2.1 1993	Sulfate	453	mg/L	10.0	02/12/23 04:58	
92651580005	YAT-PZ-37D					
	Performed by	Client			03/03/23 10:12	
	Collected By	Jessica Ware			03/03/23 10:12	
	Collected Date	02/08/23			03/03/23 10:12	
	Collected Time	13:48			03/03/23 10:12	
	pH	7.95	Std. Units		03/03/23 10:12	
EPA 6010D	Calcium	55.2	mg/L	1.0	02/22/23 18:10	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Plant Yates AMA-R6

Pace Project No.: 92651580

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92651580005	YAT-PZ-37D					
EPA 6010D	Potassium	12.4	mg/L	0.20	02/22/23 18:10	
EPA 6010D	Sodium	72.9	mg/L	1.0	02/22/23 18:10	
EPA 6010D	Magnesium	10.1	mg/L	0.050	02/22/23 18:10	
EPA 6020B	Antimony	0.0015J	mg/L	0.0030	02/24/23 13:39	
EPA 6020B	Barium	0.018	mg/L	0.0050	02/24/23 13:39	
EPA 6020B	Boron	0.70	mg/L	0.040	02/24/23 13:39	
EPA 6020B	Lithium	0.0088J	mg/L	0.030	02/24/23 13:39	
EPA 6020B	Molybdenum	0.0024J	mg/L	0.010	02/24/23 13:39	
SM 2540C-2015	Total Dissolved Solids	477	mg/L	25.0	02/13/23 16:52	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	131	mg/L	5.0	02/16/23 20:03	
SM 2320B-2011	Alkalinity, Total as CaCO3	131	mg/L	5.0	02/16/23 20:03	
EPA 300.0 Rev 2.1 1993	Chloride	33.5	mg/L	1.0	02/11/23 19:01	
EPA 300.0 Rev 2.1 1993	Fluoride	0.20	mg/L	0.10	02/11/23 19:01	
EPA 300.0 Rev 2.1 1993	Sulfate	177	mg/L	4.0	02/12/23 05:14	
92651580006	YAT-PZ-52D					
	Performed by	Client			03/03/23 10:27	
	Collected By	Jessica Ware			03/03/23 10:27	
	Collected Date	02/08/23			03/03/23 10:27	
	Collected Time	11:16			03/03/23 10:27	
	pH	6.12	Std. Units		03/03/23 10:27	
EPA 6010D	Calcium	22.9	mg/L	1.0	02/22/23 18:15	
EPA 6010D	Potassium	7.8	mg/L	0.20	02/22/23 18:15	
EPA 6010D	Sodium	45.0	mg/L	1.0	02/22/23 18:15	
EPA 6010D	Magnesium	44.4	mg/L	0.050	02/22/23 18:15	
EPA 6020B	Arsenic	0.0032J	mg/L	0.0050	02/24/23 14:24	
EPA 6020B	Barium	0.012	mg/L	0.0050	02/24/23 14:24	
EPA 6020B	Boron	1.2	mg/L	0.040	02/24/23 14:24	
EPA 6020B	Cobalt	0.0026J	mg/L	0.0050	02/24/23 14:24	
EPA 6020B	Lithium	0.025J	mg/L	0.030	02/24/23 14:24	
EPA 6020B	Molybdenum	0.0050J	mg/L	0.010	02/24/23 14:24	
EPA 6020B	Selenium	0.0057	mg/L	0.0050	02/24/23 14:24	
SM 2540C-2015	Total Dissolved Solids	542	mg/L	25.0	02/13/23 16:52	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	36.2	mg/L	5.0	02/16/23 20:13	
SM 2320B-2011	Alkalinity, Total as CaCO3	36.2	mg/L	5.0	02/16/23 20:13	
EPA 300.0 Rev 2.1 1993	Chloride	2.0	mg/L	1.0	02/11/23 19:15	
EPA 300.0 Rev 2.1 1993	Fluoride	0.070J	mg/L	0.10	02/11/23 19:15	
EPA 300.0 Rev 2.1 1993	Sulfate	279	mg/L	6.0	02/12/23 05:28	
92651580007	YAT-AMA-R6-EB-1					
EPA 6020B	Arsenic	0.0034J	mg/L	0.0050	02/24/23 14:30	
92651580008	YAT-AMA-R6-FB-2					
EPA 6020B	Arsenic	0.0027J	mg/L	0.0050	02/24/23 14:36	
SM 2540C-2015	Total Dissolved Solids	84.0	mg/L	25.0	02/13/23 16:53	
92651580009	YAT-YGWC-38					
	Performed by	Client			03/03/23 10:28	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Plant Yates AMA-R6

Pace Project No.: 92651580

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92651580009	YAT-YGWC-38					
	Collected By	Jessica Ware			03/03/23 10:28	
	Collected Date	02/08/23			03/03/23 10:28	
	Collected Time	09:30			03/03/23 10:28	
	pH	5.16	Std. Units		03/03/23 10:28	
EPA 6010D	Calcium	55.3	mg/L	1.0	02/22/23 18:29	
EPA 6010D	Potassium	3.8	mg/L	0.20	02/22/23 18:29	
EPA 6010D	Sodium	18.1	mg/L	1.0	02/22/23 18:29	
EPA 6010D	Magnesium	27.5	mg/L	0.050	02/22/23 18:29	
EPA 6020B	Barium	0.016	mg/L	0.0050	02/24/23 14:42	
EPA 6020B	Beryllium	0.0020	mg/L	0.00050	02/24/23 14:42	
EPA 6020B	Boron	4.1	mg/L	0.040	02/24/23 14:42	
EPA 6020B	Cadmium	0.00068	mg/L	0.00050	02/24/23 14:42	
EPA 6020B	Lithium	0.0058J	mg/L	0.030	02/24/23 14:42	
EPA 6020B	Selenium	0.056	mg/L	0.0050	02/24/23 14:42	
SM 2540C-2015	Total Dissolved Solids	579	mg/L	25.0	02/13/23 16:54	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	8.2	mg/L	5.0	02/16/23 20:39	
SM 2320B-2011	Alkalinity, Total as CaCO3	8.2	mg/L	5.0	02/16/23 20:39	
EPA 300.0 Rev 2.1 1993	Chloride	3.9	mg/L	1.0	02/11/23 19:59	
EPA 300.0 Rev 2.1 1993	Sulfate	251	mg/L	5.0	02/12/23 05:43	
92651580010	YAT-AMA-R6-FD-2					
EPA 6010D	Calcium	56.5	mg/L	1.0	02/22/23 18:34	
EPA 6010D	Potassium	3.9	mg/L	0.20	02/22/23 18:34	
EPA 6010D	Sodium	18.4	mg/L	1.0	02/22/23 18:34	
EPA 6010D	Magnesium	27.9	mg/L	0.050	02/22/23 18:34	
EPA 6020B	Barium	0.015	mg/L	0.0050	02/24/23 14:48	
EPA 6020B	Beryllium	0.0019	mg/L	0.00050	02/24/23 14:48	
EPA 6020B	Boron	4.0	mg/L	0.040	02/24/23 14:48	
EPA 6020B	Cadmium	0.00071	mg/L	0.00050	02/24/23 14:48	
EPA 6020B	Lithium	0.0056J	mg/L	0.030	02/24/23 14:48	
EPA 6020B	Selenium	0.055	mg/L	0.0050	02/24/23 14:48	
SM 2540C-2015	Total Dissolved Solids	485	mg/L	25.0	02/13/23 16:54	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	8.6	mg/L	5.0	02/16/23 20:55	
SM 2320B-2011	Alkalinity, Total as CaCO3	8.6	mg/L	5.0	02/16/23 20:55	
EPA 300.0 Rev 2.1 1993	Chloride	3.8	mg/L	1.0	02/11/23 20:13	
EPA 300.0 Rev 2.1 1993	Sulfate	252	mg/L	5.0	02/12/23 05:58	
92651580011	YAT-YGWC-41					
	Performed by	Client			03/03/23 10:34	
	Collected By	Jessica Ware			03/03/23 10:34	
	Collected Date	02/08/23			03/03/23 10:34	
	Collected Time	16:30			03/03/23 10:34	
	pH	4.69	Std. Units		03/03/23 10:34	
EPA 6010D	Calcium	14.4	mg/L	1.0	02/22/23 18:49	
EPA 6010D	Potassium	2.3	mg/L	0.20	02/22/23 18:49	
EPA 6010D	Sodium	14.3	mg/L	1.0	02/22/23 18:49	
EPA 6010D	Magnesium	17.4	mg/L	0.050	02/22/23 18:49	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92651580011	YAT-YGWC-41					
EPA 6020B	Arsenic	0.0027J	mg/L	0.0050	02/24/23 14:54	
EPA 6020B	Barium	0.022	mg/L	0.0050	02/24/23 14:54	
EPA 6020B	Beryllium	0.0013	mg/L	0.00050	02/24/23 14:54	
EPA 6020B	Boron	3.3	mg/L	0.040	02/24/23 14:54	
EPA 6020B	Lithium	0.0021J	mg/L	0.030	02/24/23 14:54	
EPA 6020B	Selenium	0.027	mg/L	0.0050	02/24/23 14:54	
SM 2540C-2015	Total Dissolved Solids	257	mg/L	25.0	02/13/23 16:55	
EPA 300.0 Rev 2.1 1993	Chloride	4.0	mg/L	1.0	02/13/23 23:51	
EPA 300.0 Rev 2.1 1993	Sulfate	119	mg/L	2.0	02/14/23 13:10	
92651580012	YAT-YGWC-43					
	Performed by	Client			03/03/23 10:34	
	Collected By	Jessica Ware			03/03/23 10:34	
	Collected Date	02/08/23			03/03/23 10:34	
	Collected Time	18:00			03/03/23 10:34	
	pH	5.40	Std. Units		03/03/23 10:34	
EPA 6010D	Calcium	11.0	mg/L	1.0	02/22/23 18:54	
EPA 6010D	Potassium	6.5	mg/L	0.20	02/22/23 18:54	
EPA 6010D	Sodium	18.3	mg/L	1.0	02/22/23 18:54	
EPA 6010D	Magnesium	25.8	mg/L	0.050	02/22/23 18:54	
EPA 6020B	Arsenic	0.0033J	mg/L	0.0050	02/24/23 15:00	
EPA 6020B	Barium	0.031	mg/L	0.0050	02/24/23 15:00	
EPA 6020B	Beryllium	0.00036J	mg/L	0.00050	02/24/23 15:00	
EPA 6020B	Boron	2.5	mg/L	0.040	02/24/23 15:00	
EPA 6020B	Cobalt	0.00049J	mg/L	0.0050	02/24/23 15:00	
EPA 6020B	Lithium	0.015J	mg/L	0.030	02/24/23 15:00	
EPA 6020B	Molybdenum	0.0016J	mg/L	0.010	02/24/23 15:00	
SM 2540C-2015	Total Dissolved Solids	333	mg/L	25.0	02/13/23 16:55	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	33.9	mg/L	5.0	02/17/23 12:07	
SM 2320B-2011	Alkalinity, Total as CaCO3	33.9	mg/L	5.0	02/17/23 12:07	
EPA 300.0 Rev 2.1 1993	Chloride	2.4	mg/L	1.0	02/14/23 00:06	
EPA 300.0 Rev 2.1 1993	Fluoride	0.11	mg/L	0.10	02/14/23 00:06	
EPA 300.0 Rev 2.1 1993	Sulfate	164	mg/L	3.0	02/14/23 13:25	
92651580013	YAT-YAMW-2					
	Performed by	Client			03/03/23 10:35	
	Collected By	Jessica Ware			03/03/23 10:35	
	Collected Date	02/08/23			03/03/23 10:35	
	Collected Time	13:55			03/03/23 10:35	
	pH	5.95	Std. Units		03/03/23 10:35	
EPA 6010D	Calcium	1.2	mg/L	1.0	02/22/23 18:58	
EPA 6010D	Potassium	0.69	mg/L	0.20	02/22/23 18:58	
EPA 6010D	Sodium	6.7	mg/L	1.0	02/22/23 18:58	
EPA 6010D	Magnesium	2.0	mg/L	0.050	02/22/23 18:58	
EPA 6020B	Barium	0.0064	mg/L	0.0050	02/24/23 15:06	
EPA 6020B	Beryllium	0.000055J	mg/L	0.00050	02/24/23 15:06	
EPA 6020B	Boron	0.031J	mg/L	0.040	02/24/23 15:06	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Plant Yates AMA-R6

Pace Project No.: 92651580

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92651580013	YAT-YAMW-2					
SM 2540C-2015	Total Dissolved Solids	190	mg/L	25.0	02/14/23 11:56	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	15.3	mg/L	5.0	02/17/23 12:13	
SM 2320B-2011	Alkalinity, Total as CaCO3	15.3	mg/L	5.0	02/17/23 12:13	
EPA 300.0 Rev 2.1 1993	Chloride	2.5	mg/L	1.0	02/14/23 00:21	
EPA 300.0 Rev 2.1 1993	Fluoride	0.061J	mg/L	0.10	02/14/23 00:21	
EPA 300.0 Rev 2.1 1993	Sulfate	6.7	mg/L	1.0	02/14/23 00:21	
92651580014	YAT-YAMW-4					
	Performed by	Client			03/03/23 10:36	
	Collected By	Jessica Ware			03/03/23 10:36	
	Collected Date	02/08/23			03/03/23 10:36	
	Collected Time	14:52			03/03/23 10:36	
	pH	6.19	Std. Units		03/03/23 10:36	
EPA 6010D	Calcium	12.0	mg/L	1.0	02/22/23 19:03	
EPA 6010D	Potassium	6.1	mg/L	0.20	02/22/23 19:03	
EPA 6010D	Sodium	25.3	mg/L	1.0	02/22/23 19:03	
EPA 6010D	Magnesium	39.2	mg/L	0.050	02/22/23 19:03	
EPA 6020B	Arsenic	0.0037J	mg/L	0.0050	02/24/23 15:12	
EPA 6020B	Barium	0.0030J	mg/L	0.0050	02/24/23 15:12	
EPA 6020B	Boron	3.0	mg/L	0.040	02/24/23 15:12	
EPA 6020B	Cobalt	0.00085J	mg/L	0.0050	02/24/23 15:12	
EPA 6020B	Lithium	0.033	mg/L	0.030	02/24/23 15:12	
EPA 6020B	Molybdenum	0.0076J	mg/L	0.010	02/24/23 15:12	
EPA 6020B	Selenium	0.017	mg/L	0.0050	02/24/23 15:12	
SM 2540C-2015	Total Dissolved Solids	402	mg/L	25.0	02/14/23 11:59	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	58.1	mg/L	5.0	02/17/23 12:19	
SM 2320B-2011	Alkalinity, Total as CaCO3	58.1	mg/L	5.0	02/17/23 12:19	
EPA 300.0 Rev 2.1 1993	Chloride	1.5	mg/L	1.0	02/14/23 00:36	
EPA 300.0 Rev 2.1 1993	Fluoride	0.079J	mg/L	0.10	02/14/23 00:36	
EPA 300.0 Rev 2.1 1993	Sulfate	192	mg/L	4.0	02/14/23 13:40	
92651580015	YAT-YAMW-5					
	Performed by	Client			03/03/23 10:36	
	Collected By	Jessica Ware			03/03/23 10:36	
	Collected Date	02/08/23			03/03/23 10:36	
	Collected Time	10:58			03/03/23 10:36	
	pH	5.67	Std. Units		03/03/23 10:36	
EPA 6010D	Calcium	52.3	mg/L	1.0	02/22/23 19:08	
EPA 6010D	Potassium	7.8	mg/L	0.20	02/22/23 19:08	
EPA 6010D	Sodium	41.7	mg/L	1.0	02/22/23 19:08	
EPA 6010D	Magnesium	49.0	mg/L	0.050	02/22/23 19:08	
EPA 6020B	Arsenic	0.0038J	mg/L	0.0050	02/24/23 15:18	
EPA 6020B	Barium	0.039	mg/L	0.0050	02/24/23 15:18	
EPA 6020B	Beryllium	0.00013J	mg/L	0.00050	02/24/23 15:18	
EPA 6020B	Boron	6.5	mg/L	0.040	02/24/23 15:18	
EPA 6020B	Cadmium	0.00046J	mg/L	0.00050	02/24/23 15:18	
EPA 6020B	Lithium	0.014J	mg/L	0.030	02/24/23 15:18	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Plant Yates AMA-R6

Pace Project No.: 92651580

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92651580015	YAT-YAMW-5					
EPA 6020B	Selenium	0.052	mg/L	0.0050	02/24/23 15:18	
SM 2540C-2015	Total Dissolved Solids	660	mg/L	25.0	02/14/23 11:59	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	13.1	mg/L	5.0	02/17/23 12:27	
SM 2320B-2011	Alkalinity, Total as CaCO3	13.1	mg/L	5.0	02/17/23 12:27	
EPA 300.0 Rev 2.1 1993	Chloride	3.8	mg/L	1.0	02/14/23 00:51	
EPA 300.0 Rev 2.1 1993	Fluoride	0.050J	mg/L	0.10	02/14/23 00:51	M1
EPA 300.0 Rev 2.1 1993	Sulfate	368	mg/L	8.0	02/14/23 14:39	
92651580016	YAT-YAMW-1					
	Performed by	Client			03/03/23 10:37	
	Collected By	Jessica Ware			03/03/23 10:37	
	Collected Date	02/09/23			03/03/23 10:37	
	Collected Time	15:56			03/03/23 10:37	
	pH	5.73	Std. Units		03/03/23 10:37	
EPA 6010D	Calcium	31.7	mg/L	1.0	02/23/23 17:31	
EPA 6010D	Potassium	9.7	mg/L	0.20	02/23/23 17:31	
EPA 6010D	Sodium	22.2	mg/L	1.0	02/23/23 17:31	
EPA 6010D	Magnesium	25.4	mg/L	0.050	02/23/23 17:31	
EPA 6020B	Arsenic	0.0034J	mg/L	0.0050	02/24/23 15:40	
EPA 6020B	Barium	0.078	mg/L	0.0050	02/24/23 15:40	
EPA 6020B	Beryllium	0.00012J	mg/L	0.00050	02/24/23 15:40	
EPA 6020B	Boron	0.63	mg/L	0.040	02/24/23 15:40	
EPA 6020B	Cobalt	0.0045J	mg/L	0.0050	02/24/23 15:40	
EPA 6020B	Lithium	0.019J	mg/L	0.030	02/24/23 15:40	
EPA 6020B	Selenium	0.0051	mg/L	0.0050	02/24/23 15:40	
SM 2540C-2015	Total Dissolved Solids	347	mg/L	25.0	02/15/23 18:41	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	29.2	mg/L	5.0	02/17/23 19:36	
SM 2320B-2011	Alkalinity, Total as CaCO3	29.2	mg/L	5.0	02/17/23 19:36	
EPA 300.0 Rev 2.1 1993	Chloride	5.4	mg/L	1.0	02/14/23 22:06	
EPA 300.0 Rev 2.1 1993	Sulfate	209	mg/L	4.0	02/15/23 09:31	
92651580017	YAT-AMA-R6-FD-1					
EPA 6010D	Calcium	29.0	mg/L	1.0	02/23/23 17:36	
EPA 6010D	Potassium	9.0	mg/L	0.20	02/23/23 17:36	
EPA 6010D	Sodium	20.4	mg/L	1.0	02/23/23 17:36	
EPA 6010D	Magnesium	23.4	mg/L	0.050	02/23/23 17:36	
EPA 6020B	Arsenic	0.0036J	mg/L	0.0050	02/24/23 15:46	
EPA 6020B	Barium	0.081	mg/L	0.0050	02/24/23 15:46	
EPA 6020B	Beryllium	0.00013J	mg/L	0.00050	02/24/23 15:46	
EPA 6020B	Boron	0.66	mg/L	0.040	02/24/23 15:46	
EPA 6020B	Cobalt	0.0046J	mg/L	0.0050	02/24/23 15:46	
EPA 6020B	Lithium	0.020J	mg/L	0.030	02/24/23 15:46	
EPA 6020B	Selenium	0.0050	mg/L	0.0050	02/24/23 15:46	
SM 2540C-2015	Total Dissolved Solids	344	mg/L	25.0	02/16/23 19:18	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	28.6	mg/L	5.0	02/17/23 19:42	
SM 2320B-2011	Alkalinity, Total as CaCO3	28.6	mg/L	5.0	02/17/23 19:42	
EPA 300.0 Rev 2.1 1993	Chloride	5.4	mg/L	1.0	02/14/23 23:06	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Plant Yates AMA-R6

Pace Project No.: 92651580

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92651580017	YAT-AMA-R6-FD-1					
EPA 300.0 Rev 2.1 1993	Sulfate	208	mg/L	4.0	02/15/23 09:45	
92651580018	YAT-YGWC-36A					
	Performed by	Client			03/03/23 10:38	
	Collected By	Jessica Ware			03/03/23 10:38	
	Collected Date	02/09/23			03/03/23 10:38	
	Collected Time	13:10			03/03/23 10:38	
	pH	5.67	Std. Units		03/03/23 10:38	
EPA 6010D	Calcium	9.2	mg/L	1.0	02/23/23 17:41	
EPA 6010D	Potassium	1.1	mg/L	0.20	02/23/23 17:41	
EPA 6010D	Sodium	14.7	mg/L	1.0	02/23/23 17:41	
EPA 6010D	Magnesium	4.0	mg/L	0.050	02/23/23 17:41	
EPA 6020B	Arsenic	0.0047J	mg/L	0.0050	02/24/23 15:52	
EPA 6020B	Barium	0.097	mg/L	0.0050	02/24/23 15:52	
EPA 6020B	Beryllium	0.00066	mg/L	0.00050	02/24/23 15:52	
EPA 6020B	Boron	0.028J	mg/L	0.040	02/24/23 15:52	
EPA 6020B	Lithium	0.0010J	mg/L	0.030	02/24/23 15:52	
EPA 6020B	Selenium	0.0027J	mg/L	0.0050	02/24/23 15:52	
SM 2540C-2015	Total Dissolved Solids	116	mg/L	25.0	02/16/23 19:19	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	10.6	mg/L	5.0	02/17/23 19:48	
SM 2320B-2011	Alkalinity, Total as CaCO3	10.6	mg/L	5.0	02/17/23 19:48	
EPA 300.0 Rev 2.1 1993	Chloride	5.9	mg/L	1.0	02/14/23 23:21	
EPA 300.0 Rev 2.1 1993	Sulfate	50.8	mg/L	1.0	02/14/23 23:21	
92651580020	YAT-AMA-R6-FB-1					
EPA 6020B	Arsenic	0.0045J	mg/L	0.0050	02/24/23 15:58	
92651580021	YAT-YGWC-24SB					
	Performed by	Client			03/03/23 10:39	
	Collected By	Jessica Ware			03/03/23 10:39	
	Collected Date	02/10/23			03/03/23 10:39	
	Collected Time	09:45			03/03/23 10:39	
	pH	5.67	Std. Units		03/03/23 10:39	
EPA 6010D	Potassium	1.0	mg/L	0.20	02/23/23 17:51	BC
EPA 6010D	Sodium	9.3	mg/L	1.0	02/23/23 17:51	
EPA 6010D	Calcium	2.4	mg/L	1.0	02/23/23 17:51	
EPA 6010D	Magnesium	1.8	mg/L	0.050	02/23/23 17:51	
EPA 6020B	Arsenic	0.0035J	mg/L	0.0050	02/24/23 16:04	
EPA 6020B	Barium	0.031	mg/L	0.0050	02/24/23 16:04	
EPA 6020B	Beryllium	0.000054J	mg/L	0.00050	02/24/23 16:04	
SM 2540C-2015	Total Dissolved Solids	66.0	mg/L	25.0	02/16/23 16:30	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	12.6	mg/L	5.0	02/17/23 19:58	
SM 2320B-2011	Alkalinity, Total as CaCO3	12.6	mg/L	5.0	02/17/23 19:58	
EPA 300.0 Rev 2.1 1993	Chloride	9.1	mg/L	1.0	02/15/23 00:51	
EPA 300.0 Rev 2.1 1993	Fluoride	0.051J	mg/L	0.10	02/15/23 00:51	
EPA 300.0 Rev 2.1 1993	Sulfate	0.50J	mg/L	1.0	02/15/23 00:51	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92651580022	YAT-PZ-51					
	Performed by	Client			03/03/23 10:40	
	Collected By	Jessica Ware			03/03/23 10:40	
	Collected Date	02/09/23			03/03/23 10:40	
	Collected Time	16:01			03/03/23 10:40	
	pH	5.14	Std. Units		03/03/23 10:40	
EPA 6010D	Potassium	4.7	mg/L	0.20	02/23/23 17:55	
EPA 6010D	Sodium	18.8	mg/L	1.0	02/23/23 17:55	
EPA 6010D	Calcium	54.3	mg/L	1.0	02/23/23 17:55	
EPA 6010D	Magnesium	45.6	mg/L	0.050	02/23/23 17:55	
EPA 6020B	Barium	0.015	mg/L	0.0050	02/24/23 20:03	
EPA 6020B	Beryllium	0.0024	mg/L	0.00050	02/25/23 14:47	
EPA 6020B	Boron	6.9	mg/L	0.040	02/25/23 14:47	
EPA 6020B	Cadmium	0.0018	mg/L	0.00050	02/24/23 20:03	
EPA 6020B	Cobalt	0.0071	mg/L	0.0050	02/24/23 20:03	
EPA 6020B	Lithium	0.0045J	mg/L	0.030	02/24/23 20:03	
EPA 6020B	Selenium	0.028	mg/L	0.0050	02/24/23 20:03	
SM 2540C-2015	Total Dissolved Solids	582	mg/L	25.0	02/15/23 18:42	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	10.9	mg/L	5.0	02/17/23 20:13	
SM 2320B-2011	Alkalinity, Total as CaCO3	10.9	mg/L	5.0	02/17/23 20:13	
EPA 300.0 Rev 2.1 1993	Chloride	4.7	mg/L	1.0	02/15/23 01:05	
EPA 300.0 Rev 2.1 1993	Fluoride	0.13	mg/L	0.10	02/15/23 01:05	
EPA 300.0 Rev 2.1 1993	Sulfate	370	mg/L	7.0	02/15/23 10:00	
92651580023	YAT-AMA-R6-EB-2					
EPA 6020B	Boron	0.027J	mg/L	0.040	02/25/23 14:53	
92651580024	YAT-YGWC-49					
	Performed by	Client			03/03/23 10:40	
	Collected By	Jessica Ware			03/03/23 10:40	
	Collected Date	02/09/23			03/03/23 10:40	
	Collected Time	15:00			03/03/23 10:40	
	pH	5.61	Std. Units		03/03/23 10:40	
EPA 6010D	Calcium	11.8	mg/L	1.0	02/23/23 18:15	
EPA 6010D	Potassium	1.8	mg/L	0.20	02/23/23 18:15	
EPA 6010D	Sodium	17.2	mg/L	1.0	02/23/23 18:15	
EPA 6010D	Magnesium	8.0	mg/L	0.050	02/23/23 18:15	
EPA 6020B	Barium	0.063	mg/L	0.0050	02/27/23 20:32	
EPA 6020B	Beryllium	0.00012J	mg/L	0.00050	02/27/23 20:32	
EPA 6020B	Boron	0.014J	mg/L	0.040	02/27/23 20:32	
EPA 6020B	Chromium	0.0020J	mg/L	0.0050	02/27/23 20:32	
EPA 6020B	Lithium	0.0033J	mg/L	0.030	02/27/23 20:32	
EPA 6020B	Selenium	0.0054	mg/L	0.0050	02/27/23 20:32	
SM 2540C-2015	Total Dissolved Solids	145	mg/L	25.0	02/15/23 18:43	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	17.2	mg/L	5.0	02/17/23 20:23	
SM 2320B-2011	Alkalinity, Total as CaCO3	17.2	mg/L	5.0	02/17/23 20:23	
EPA 300.0 Rev 2.1 1993	Chloride	4.4	mg/L	1.0	02/15/23 02:20	
EPA 300.0 Rev 2.1 1993	Sulfate	71.1	mg/L	1.0	02/15/23 02:20	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Plant Yates AMA-R6

Pace Project No.: 92651580

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92651580025	YAT-YAMW-3					
	Performed by	Client			03/19/23 15:53	
	Collected By	JW			03/19/23 15:53	
	Collected Date	02/09/23			03/19/23 15:53	
	Collected Time	11:17			03/19/23 15:53	
	pH	5.89	Std. Units		03/19/23 15:53	
EPA 6010D	Calcium	33.0	mg/L	1.0	02/23/23 18:20	
EPA 6010D	Potassium	16.6	mg/L	0.20	02/23/23 18:20	
EPA 6010D	Sodium	50.0	mg/L	1.0	02/23/23 18:20	
EPA 6010D	Magnesium	59.2	mg/L	0.050	02/23/23 18:20	
EPA 6020B	Barium	0.045	mg/L	0.0050	02/27/23 20:38	
EPA 6020B	Beryllium	0.000062J	mg/L	0.00050	02/27/23 20:38	
EPA 6020B	Boron	8.1	mg/L	0.040	02/27/23 20:38	
EPA 6020B	Cobalt	0.066	mg/L	0.0050	02/27/23 20:38	
EPA 6020B	Lithium	0.048	mg/L	0.030	02/27/23 20:38	
EPA 6020B	Molybdenum	0.0067J	mg/L	0.010	02/27/23 20:38	
SM 2540C-2015	Total Dissolved Solids	727	mg/L	25.0	02/15/23 18:43	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	53.7	mg/L	5.0	02/17/23 20:28	
SM 2320B-2011	Alkalinity, Total as CaCO3	53.7	mg/L	5.0	02/17/23 20:28	
EPA 300.0 Rev 2.1 1993	Chloride	9.6	mg/L	1.0	02/15/23 02:35	
EPA 300.0 Rev 2.1 1993	Fluoride	0.079J	mg/L	0.10	02/15/23 02:35	
EPA 300.0 Rev 2.1 1993	Sulfate	419	mg/L	8.0	02/15/23 10:15	
92651576012	YAT-PZ-35					
	Performed by	Client			03/19/23 16:05	
	Collected By	VL			03/19/23 16:05	
	Collected Date	02/09/23			03/19/23 16:05	
	Collected Time	14:48			03/19/23 16:05	
	pH	5.50	Std. Units		03/19/23 16:05	
EPA 6010D	Potassium	1.7	mg/L	0.20	02/22/23 21:27	
EPA 6010D	Sodium	15.9	mg/L	1.0	02/22/23 21:27	
EPA 6010D	Calcium	14.5	mg/L	1.0	02/22/23 21:27	
EPA 6010D	Magnesium	8.0	mg/L	0.050	02/22/23 21:27	
EPA 6020B	Arsenic	0.0028J	mg/L	0.0050	02/23/23 18:04	
EPA 6020B	Barium	0.13	mg/L	0.0050	02/23/23 18:04	
EPA 6020B	Beryllium	0.00080	mg/L	0.00050	02/23/23 18:04	
EPA 6020B	Boron	0.076	mg/L	0.040	02/23/23 18:04	
EPA 6020B	Cadmium	0.00025J	mg/L	0.00050	02/23/23 18:04	
EPA 6020B	Chromium	0.0016J	mg/L	0.0050	02/23/23 18:04	
EPA 6020B	Lithium	0.0026J	mg/L	0.030	02/23/23 18:04	
EPA 6020B	Selenium	0.0041J	mg/L	0.0050	02/23/23 18:04	
SM 2540C-2015	Total Dissolved Solids	196	mg/L	25.0	02/15/23 12:03	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	9.3	mg/L	5.0	02/17/23 17:29	
SM 2320B-2011	Alkalinity, Total as CaCO3	9.3	mg/L	5.0	02/17/23 17:29	
EPA 300.0 Rev 2.1 1993	Chloride	5.4	mg/L	1.0	02/14/23 18:52	
EPA 300.0 Rev 2.1 1993	Sulfate	84.6	mg/L	1.0	02/14/23 18:52	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Sample: YAT-YGWC-23S									
Lab ID: 92651580001									
Collected: 02/08/23 15:35									
Received: 02/09/23 12:35									
Matrix: Water									
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	Client				1		03/03/23 10:09		
Collected By	Jessica Ware				1		03/03/23 10:09		
Collected Date	02/08/23				1		03/03/23 10:09		
Collected Time	15:35				1		03/03/23 10:09		
pH	5.33	Std. Units			1		03/03/23 10:09		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	10.9	mg/L	1.0	0.12	1	02/21/23 17:00	02/22/23 17:51	7440-70-2	
Potassium	1.1	mg/L	0.20	0.15	1	02/21/23 17:00	02/22/23 17:51	7440-09-7	
Sodium	14.6	mg/L	1.0	0.58	1	02/21/23 17:00	02/22/23 17:51	7440-23-5	
Magnesium	8.9	mg/L	0.050	0.012	1	02/21/23 17:00	02/22/23 17:51	7439-95-4	
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	02/23/23 17:01	02/24/23 12:57	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/23/23 17:01	02/24/23 12:57	7440-38-2	
Barium	0.053	mg/L	0.0050	0.00067	1	02/23/23 17:01	02/24/23 12:57	7440-39-3	
Beryllium	0.00022J	mg/L	0.00050	0.000054	1	02/23/23 17:01	02/24/23 12:57	7440-41-7	
Boron	1.6	mg/L	0.040	0.0086	1	02/23/23 17:01	02/24/23 12:57	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/23 17:01	02/24/23 12:57	7440-43-9	
Chromium	0.0014J	mg/L	0.0050	0.0011	1	02/23/23 17:01	02/24/23 12:57	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/23/23 17:01	02/24/23 12:57	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/23 17:01	02/24/23 12:57	7439-92-1	
Lithium	0.0028J	mg/L	0.030	0.00073	1	02/23/23 17:01	02/24/23 12:57	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/23 17:01	02/24/23 12:57	7439-98-7	
Selenium	0.035	mg/L	0.0050	0.0014	1	02/23/23 17:01	02/24/23 12:57	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/23 17:01	02/24/23 12:57	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	03/02/23 09:00	03/02/23 14:10	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	158	mg/L	25.0	25.0	1		02/13/23 16:49		
2320B Alkalinity									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	10.0	mg/L	5.0	5.0	1		02/16/23 19:39		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/16/23 19:39		
Alkalinity, Total as CaCO3	10.0	mg/L	5.0	5.0	1		02/16/23 19:39		

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ANALYTICAL RESULTS

Project: Plant Yates AMA-R6

Pace Project No.: 92651580

Sample: YAT-YGWC-23S **Lab ID: 92651580001** Collected: 02/08/23 15:35 Received: 02/09/23 12:35 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	2.0	mg/L	1.0	0.60	1		02/11/23 17:05	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/11/23 17:05	16984-48-8	
Sulfate	78.0	mg/L	1.0	0.50	1		02/11/23 17:05	14808-79-8	M1

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ANALYTICAL RESULTS

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Sample: YAT-YGWC-42 Lab ID: 92651580002 Collected: 02/08/23 17:36 Received: 02/09/23 12:35 Matrix: Water									
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	Client				1		03/03/23 10:10		
Collected By	Jessica Ware				1		03/03/23 10:10		
Collected Date	02/08/23				1		03/03/23 10:10		
Collected Time	17:36				1		03/03/23 10:10		
pH	5.48	Std. Units			1		03/03/23 10:10		
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	02/21/23 17:00	02/22/23 17:56	7440-70-2	
Potassium	10.9	mg/L	0.20	0.15	1	02/21/23 17:00	02/22/23 17:56	7440-09-7	
Sodium	32.9	mg/L	1.0	0.58	1	02/21/23 17:00	02/22/23 17:56	7440-23-5	
Magnesium	77.7	mg/L	0.050	0.012	1	02/21/23 17:00	02/22/23 17:56	7439-95-4	
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	02/23/23 17:01	02/24/23 13:03	7440-36-0	
Arsenic	0.0025J	mg/L	0.0050	0.0022	1	02/23/23 17:01	02/24/23 13:03	7440-38-2	
Barium	0.023	mg/L	0.0050	0.00067	1	02/23/23 17:01	02/24/23 13:03	7440-39-3	
Beryllium	0.000062J	mg/L	0.00050	0.000054	1	02/23/23 17:01	02/24/23 13:03	7440-41-7	
Boron	14.5	mg/L	0.40	0.086	10	02/23/23 17:01	02/25/23 14:00	7440-42-8	
Cadmium	0.00014J	mg/L	0.00050	0.00011	1	02/23/23 17:01	02/24/23 13:03	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/23 17:01	02/24/23 13:03	7440-47-3	
Cobalt	0.0018J	mg/L	0.0050	0.00039	1	02/23/23 17:01	02/24/23 13:03	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/23 17:01	02/24/23 13:03	7439-92-1	
Lithium	0.046	mg/L	0.030	0.00073	1	02/23/23 17:01	02/24/23 13:03	7439-93-2	
Molybdenum	0.00081J	mg/L	0.010	0.00074	1	02/23/23 17:01	02/24/23 13:03	7439-98-7	
Selenium	0.041	mg/L	0.0050	0.0014	1	02/23/23 17:01	02/24/23 13:03	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/23 17:01	02/24/23 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	03/02/23 09:00	03/02/23 14:13	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	853	mg/L	25.0	25.0	1		02/13/23 16:49		
2320B Alkalinity									
Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO ₃)	34.3	mg/L	5.0	5.0	1		02/16/23 19:44		
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	5.0	5.0	1		02/16/23 19:44		
Alkalinity, Total as CaCO ₃	34.3	mg/L	5.0	5.0	1		02/16/23 19:44		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Yates AMA-R6

Pace Project No.: 92651580

Sample: YAT-YGWC-42 **Lab ID: 92651580002** Collected: 02/08/23 17:36 Received: 02/09/23 12:35 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	3.4	mg/L	1.0	0.60	1		02/11/23 17:48	16887-00-6	
Fluoride	0.080J	mg/L	0.10	0.050	1		02/11/23 17:48	16984-48-8	
Sulfate	494	mg/L	10.0	5.0	10		02/12/23 04:30	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

Sample: YAT-PZ-37 Lab ID: 92651580003 Collected: 02/08/23 09:46 Received: 02/09/23 12:35 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	Client				1		03/03/23 10:11		
Collected By	Jessica Ware				1		03/03/23 10:11		
Collected Date	02/08/23				1		03/03/23 10:11		
Collected Time	09:46				1		03/03/23 10:11		
pH	5.15	Std. Units			1		03/03/23 10:11		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	95.9	mg/L	1.0	0.12	1	02/21/23 17:00	02/22/23 18:00	7440-70-2	
Potassium	4.6	mg/L	0.20	0.15	1	02/21/23 17:00	02/22/23 18:00	7440-09-7	
Sodium	27.6	mg/L	1.0	0.58	1	02/21/23 17:00	02/22/23 18:00	7440-23-5	
Magnesium	50.7	mg/L	0.050	0.012	1	02/21/23 17:00	02/22/23 18:00	7439-95-4	
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	02/23/23 17:01	02/24/23 13:09	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/23/23 17:01	02/24/23 13:09	7440-38-2	
Barium	0.022	mg/L	0.0050	0.00067	1	02/23/23 17:01	02/24/23 13:09	7440-39-3	
Beryllium	0.0011	mg/L	0.00050	0.000054	1	02/23/23 17:01	02/24/23 13:09	7440-41-7	
Boron	8.2	mg/L	0.040	0.0086	1	02/23/23 17:01	02/24/23 13:09	7440-42-8	
Cadmium	0.00076	mg/L	0.00050	0.00011	1	02/23/23 17:01	02/24/23 13:09	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/23 17:01	02/24/23 13:09	7440-47-3	
Cobalt	0.0022J	mg/L	0.0050	0.00039	1	02/23/23 17:01	02/24/23 13:09	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/23 17:01	02/24/23 13:09	7439-92-1	
Lithium	0.013J	mg/L	0.030	0.00073	1	02/23/23 17:01	02/24/23 13:09	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/23 17:01	02/24/23 13:09	7439-98-7	
Selenium	0.16	mg/L	0.0050	0.0014	1	02/23/23 17:01	02/24/23 13:09	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/23 17:01	02/24/23 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	03/02/23 09:00	03/02/23 14:16	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	822	mg/L	25.0	25.0	1		02/13/23 16:50		
2320B Alkalinity									
Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	13.2	mg/L	5.0	5.0	1		02/16/23 19:51		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/16/23 19:51		
Alkalinity, Total as CaCO3	13.2	mg/L	5.0	5.0	1		02/16/23 19:51		

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ANALYTICAL RESULTS

Project: Plant Yates AMA-R6

Pace Project No.: 92651580

Sample: YAT-PZ-37 **Lab ID: 92651580003** Collected: 02/08/23 09:46 Received: 02/09/23 12:35 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	3.8	mg/L	1.0	0.60	1		02/11/23 18:03	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/11/23 18:03	16984-48-8	
Sulfate	449	mg/L	10.0	5.0	10		02/12/23 04:44	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

Sample: YAT-AMA-R6-FD-3 **Lab ID:** 92651580004 Collected: 02/08/23 00:00 Received: 02/09/23 12:35 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	97.3	mg/L	1.0	0.12	1	02/21/23 17:00	02/22/23 18:05	7440-70-2	
Potassium	4.5	mg/L	0.20	0.15	1	02/21/23 17:00	02/22/23 18:05	7440-09-7	
Sodium	27.9	mg/L	1.0	0.58	1	02/21/23 17:00	02/22/23 18:05	7440-23-5	
Magnesium	51.1	mg/L	0.050	0.012	1	02/21/23 17:00	02/22/23 18:05	7439-95-4	
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	02/23/23 17:01	02/24/23 13:15	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/23/23 17:01	02/24/23 13:15	7440-38-2	
Barium	0.021	mg/L	0.0050	0.00067	1	02/23/23 17:01	02/24/23 13:15	7440-39-3	
Beryllium	0.0011	mg/L	0.00050	0.000054	1	02/23/23 17:01	02/24/23 13:15	7440-41-7	
Boron	7.7	mg/L	0.040	0.0086	1	02/23/23 17:01	02/24/23 13:15	7440-42-8	
Cadmium	0.00069	mg/L	0.00050	0.00011	1	02/23/23 17:01	02/24/23 13:15	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/23 17:01	02/24/23 13:15	7440-47-3	
Cobalt	0.0020J	mg/L	0.0050	0.00039	1	02/23/23 17:01	02/24/23 13:15	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/23 17:01	02/24/23 13:15	7439-92-1	
Lithium	0.012J	mg/L	0.030	0.00073	1	02/23/23 17:01	02/24/23 13:15	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/23 17:01	02/24/23 13:15	7439-98-7	
Selenium	0.15	mg/L	0.0050	0.0014	1	02/23/23 17:01	02/24/23 13:15	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/23 17:01	02/24/23 13:15	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	03/02/23 09:00	03/02/23 14:27	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	884	mg/L	25.0	25.0	1		02/13/23 16:51		
2320B Alkalinity									
Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO ₃)	12.8	mg/L	5.0	5.0	1		02/16/23 19:57		
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	5.0	5.0	1		02/16/23 19:57		
Alkalinity, Total as CaCO ₃	12.8	mg/L	5.0	5.0	1		02/16/23 19:57		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	3.8	mg/L	1.0	0.60	1		02/11/23 18:17	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/11/23 18:17	16984-48-8	
Sulfate	453	mg/L	10.0	5.0	10		02/12/23 04:58	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

Sample: YAT-PZ-37D		Lab ID: 92651580005		Collected: 02/08/23 13:48		Received: 02/09/23 12:35		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	Client				1		03/03/23 10:12		
Collected By	Jessica Ware				1		03/03/23 10:12		
Collected Date	02/08/23				1		03/03/23 10:12		
Collected Time	13:48				1		03/03/23 10:12		
pH	7.95	Std. Units			1		03/03/23 10:12		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	55.2	mg/L	1.0	0.12	1	02/21/23 17:00	02/22/23 18:10	7440-70-2	
Potassium	12.4	mg/L	0.20	0.15	1	02/21/23 17:00	02/22/23 18:10	7440-09-7	
Sodium	72.9	mg/L	1.0	0.58	1	02/21/23 17:00	02/22/23 18:10	7440-23-5	
Magnesium	10.1	mg/L	0.050	0.012	1	02/21/23 17:00	02/22/23 18:10	7439-95-4	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.0015J	mg/L	0.0030	0.00078	1	02/23/23 17:01	02/24/23 13:39	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/23/23 17:01	02/24/23 13:39	7440-38-2	
Barium	0.018	mg/L	0.0050	0.00067	1	02/23/23 17:01	02/24/23 13:39	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/23/23 17:01	02/24/23 13:39	7440-41-7	
Boron	0.70	mg/L	0.040	0.0086	1	02/23/23 17:01	02/24/23 13:39	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/23 17:01	02/24/23 13:39	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/23 17:01	02/24/23 13:39	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/23/23 17:01	02/24/23 13:39	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/23 17:01	02/24/23 13:39	7439-92-1	
Lithium	0.0088J	mg/L	0.030	0.00073	1	02/23/23 17:01	02/24/23 13:39	7439-93-2	
Molybdenum	0.0024J	mg/L	0.010	0.00074	1	02/23/23 17:01	02/24/23 13:39	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/23 17:01	02/24/23 13:39	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/23 17:01	02/24/23 13:39	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	03/02/23 09:00	03/02/23 14:29	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	477	mg/L	25.0	25.0	1		02/13/23 16:52		
2320B Alkalinity									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	131	mg/L	5.0	5.0	1		02/16/23 20:03		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/16/23 20:03		
Alkalinity, Total as CaCO3	131	mg/L	5.0	5.0	1		02/16/23 20:03		

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ANALYTICAL RESULTS

Project: Plant Yates AMA-R6

Pace Project No.: 92651580

Sample: YAT-PZ-37D **Lab ID: 92651580005** Collected: 02/08/23 13:48 Received: 02/09/23 12:35 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	33.5	mg/L	1.0	0.60	1		02/11/23 19:01	16887-00-6	
Fluoride	0.20	mg/L	0.10	0.050	1		02/11/23 19:01	16984-48-8	
Sulfate	177	mg/L	4.0	2.0	4		02/12/23 05:14	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Sample: YAT-PZ-52D									
Lab ID: 92651580006 Collected: 02/08/23 11:16 Received: 02/09/23 12:35 Matrix: Water									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	Client				1		03/03/23 10:27		
Collected By	Jessica Ware				1		03/03/23 10:27		
Collected Date	02/08/23				1		03/03/23 10:27		
Collected Time	11:16				1		03/03/23 10:27		
pH	6.12	Std. Units			1		03/03/23 10:27		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	22.9	mg/L	1.0	0.12	1	02/21/23 17:00	02/22/23 18:15	7440-70-2	
Potassium	7.8	mg/L	0.20	0.15	1	02/21/23 17:00	02/22/23 18:15	7440-09-7	
Sodium	45.0	mg/L	1.0	0.58	1	02/21/23 17:00	02/22/23 18:15	7440-23-5	
Magnesium	44.4	mg/L	0.050	0.012	1	02/21/23 17:00	02/22/23 18:15	7439-95-4	
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	02/23/23 17:01	02/24/23 14:24	7440-36-0	
Arsenic	0.0032J	mg/L	0.0050	0.0022	1	02/23/23 17:01	02/24/23 14:24	7440-38-2	
Barium	0.012	mg/L	0.0050	0.00067	1	02/23/23 17:01	02/24/23 14:24	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/23/23 17:01	02/24/23 14:24	7440-41-7	
Boron	1.2	mg/L	0.040	0.0086	1	02/23/23 17:01	02/24/23 14:24	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/23 17:01	02/24/23 14:24	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/23 17:01	02/24/23 14:24	7440-47-3	
Cobalt	0.0026J	mg/L	0.0050	0.00039	1	02/23/23 17:01	02/24/23 14:24	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/23 17:01	02/24/23 14:24	7439-92-1	
Lithium	0.025J	mg/L	0.030	0.00073	1	02/23/23 17:01	02/24/23 14:24	7439-93-2	
Molybdenum	0.0050J	mg/L	0.010	0.00074	1	02/23/23 17:01	02/24/23 14:24	7439-98-7	
Selenium	0.0057	mg/L	0.0050	0.0014	1	02/23/23 17:01	02/24/23 14:24	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/23 17:01	02/24/23 14:24	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	03/02/23 09:00	03/02/23 14:37	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	542	mg/L	25.0	25.0	1		02/13/23 16:52		
2320B Alkalinity									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	36.2	mg/L	5.0	5.0	1		02/16/23 20:13		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/16/23 20:13		
Alkalinity, Total as CaCO3	36.2	mg/L	5.0	5.0	1		02/16/23 20:13		

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ANALYTICAL RESULTS

Project: Plant Yates AMA-R6

Pace Project No.: 92651580

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Sample: YAT-PZ-52D									
Lab ID: 92651580006									
Collected: 02/08/23 11:16									
Received: 02/09/23 12:35									
Matrix: Water									
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	2.0	mg/L	1.0	0.60	1		02/11/23 19:15	16887-00-6	
Fluoride	0.070J	mg/L	0.10	0.050	1		02/11/23 19:15	16984-48-8	
Sulfate	279	mg/L	6.0	3.0	6		02/12/23 05:28	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates AMA-R6

Pace Project No.: 92651580

Sample: YAT-AMA-R6-EB-1 **Lab ID:** 92651580007 Collected: 02/08/23 18:40 Received: 02/09/23 12:35 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	02/21/23 17:00	02/22/23 18:20	7440-70-2	
Potassium	ND	mg/L	0.20	0.15	1	02/21/23 17:00	02/22/23 18:20	7440-09-7	
Sodium	ND	mg/L	1.0	0.58	1	02/21/23 17:00	02/22/23 18:20	7440-23-5	
Magnesium	ND	mg/L	0.050	0.012	1	02/21/23 17:00	02/22/23 18:20	7439-95-4	
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	02/23/23 17:01	02/24/23 14:30	7440-36-0	
Arsenic	0.0034J	mg/L	0.0050	0.0022	1	02/23/23 17:01	02/24/23 14:30	7440-38-2	
Barium	ND	mg/L	0.0050	0.00067	1	02/23/23 17:01	02/24/23 14:30	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/23/23 17:01	02/24/23 14:30	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/23/23 17:01	02/24/23 14:30	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/23 17:01	02/24/23 14:30	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/23 17:01	02/24/23 14:30	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/23/23 17:01	02/24/23 14:30	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/23 17:01	02/24/23 14:30	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/23/23 17:01	02/24/23 14:30	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/23 17:01	02/24/23 14:30	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/23 17:01	02/24/23 14:30	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/23 17:01	02/24/23 14:30	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	03/02/23 09:00	03/02/23 14:40	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		02/13/23 16:53		
2320B Alkalinity									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/16/23 20:20		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/16/23 20:20		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		02/16/23 20:20		
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		02/11/23 19:30	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/11/23 19:30	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		02/11/23 19:30	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

Sample: YAT-AMA-R6-FB-2 **Lab ID: 92651580008** Collected: 02/08/23 11:00 Received: 02/09/23 12:35 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	02/21/23 17:00	02/22/23 18:25	7440-70-2	
Potassium	ND	mg/L	0.20	0.15	1	02/21/23 17:00	02/22/23 18:25	7440-09-7	
Sodium	ND	mg/L	1.0	0.58	1	02/21/23 17:00	02/22/23 18:25	7440-23-5	
Magnesium	ND	mg/L	0.050	0.012	1	02/21/23 17:00	02/22/23 18:25	7439-95-4	
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	02/23/23 17:01	02/24/23 14:36	7440-36-0	
Arsenic	0.0027J	mg/L	0.0050	0.0022	1	02/23/23 17:01	02/24/23 14:36	7440-38-2	
Barium	ND	mg/L	0.0050	0.00067	1	02/23/23 17:01	02/24/23 14:36	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/23/23 17:01	02/24/23 14:36	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/23/23 17:01	02/24/23 14:36	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/23 17:01	02/24/23 14:36	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/23 17:01	02/24/23 14:36	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/23/23 17:01	02/24/23 14:36	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/23 17:01	02/24/23 14:36	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/23/23 17:01	02/24/23 14:36	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/23 17:01	02/24/23 14:36	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/23 17:01	02/24/23 14:36	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/23 17:01	02/24/23 14:36	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	03/02/23 09:00	03/02/23 14:42	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	84.0	mg/L	25.0	25.0	1		02/13/23 16:53		
2320B Alkalinity									
Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/16/23 20:34		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/16/23 20:34		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		02/16/23 20:34		
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		02/11/23 19:44	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/11/23 19:44	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		02/11/23 19:44	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Sample: YAT-YGWC-38 Lab ID: 9265158009 Collected: 02/08/23 09:30 Received: 02/09/23 12:35 Matrix: Water									
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	Client				1		03/03/23 10:28		
Collected By	Jessica Ware				1		03/03/23 10:28		
Collected Date	02/08/23				1		03/03/23 10:28		
Collected Time	09:30				1		03/03/23 10:28		
pH	5.16	Std. Units			1		03/03/23 10:28		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	55.3	mg/L	1.0	0.12	1	02/21/23 17:00	02/22/23 18:29	7440-70-2	
Potassium	3.8	mg/L	0.20	0.15	1	02/21/23 17:00	02/22/23 18:29	7440-09-7	
Sodium	18.1	mg/L	1.0	0.58	1	02/21/23 17:00	02/22/23 18:29	7440-23-5	
Magnesium	27.5	mg/L	0.050	0.012	1	02/21/23 17:00	02/22/23 18:29	7439-95-4	
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	02/23/23 17:01	02/24/23 14:42	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/23/23 17:01	02/24/23 14:42	7440-38-2	
Barium	0.016	mg/L	0.0050	0.00067	1	02/23/23 17:01	02/24/23 14:42	7440-39-3	
Beryllium	0.0020	mg/L	0.00050	0.000054	1	02/23/23 17:01	02/24/23 14:42	7440-41-7	
Boron	4.1	mg/L	0.040	0.0086	1	02/23/23 17:01	02/24/23 14:42	7440-42-8	
Cadmium	0.00068	mg/L	0.00050	0.00011	1	02/23/23 17:01	02/24/23 14:42	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/23 17:01	02/24/23 14:42	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/23/23 17:01	02/24/23 14:42	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/23 17:01	02/24/23 14:42	7439-92-1	
Lithium	0.0058J	mg/L	0.030	0.00073	1	02/23/23 17:01	02/24/23 14:42	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/23 17:01	02/24/23 14:42	7439-98-7	
Selenium	0.056	mg/L	0.0050	0.0014	1	02/23/23 17:01	02/24/23 14:42	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/23 17:01	02/24/23 14:42	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	03/02/23 09:00	03/02/23 14:45	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	579	mg/L	25.0	25.0	1		02/13/23 16:54		
2320B Alkalinity									
Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO ₃)	8.2	mg/L	5.0	5.0	1		02/16/23 20:39		
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	5.0	5.0	1		02/16/23 20:39		
Alkalinity, Total as CaCO ₃	8.2	mg/L	5.0	5.0	1		02/16/23 20:39		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Yates AMA-R6

Pace Project No.: 92651580

Sample: YAT-YGWC-38 **Lab ID: 92651580009** Collected: 02/08/23 09:30 Received: 02/09/23 12:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	3.9	mg/L	1.0	0.60	1		02/11/23 19:59	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/11/23 19:59	16984-48-8	
Sulfate	251	mg/L	5.0	2.5	5		02/12/23 05:43	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

Sample: YAT-AMA-R6-FD-2 **Lab ID:** 92651580010 Collected: 02/08/23 00:00 Received: 02/09/23 12:35 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	56.5	mg/L	1.0	0.12	1	02/21/23 17:00	02/22/23 18:34	7440-70-2	
Potassium	3.9	mg/L	0.20	0.15	1	02/21/23 17:00	02/22/23 18:34	7440-09-7	
Sodium	18.4	mg/L	1.0	0.58	1	02/21/23 17:00	02/22/23 18:34	7440-23-5	
Magnesium	27.9	mg/L	0.050	0.012	1	02/21/23 17:00	02/22/23 18:34	7439-95-4	
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	02/23/23 17:01	02/24/23 14:48	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/23/23 17:01	02/24/23 14:48	7440-38-2	
Barium	0.015	mg/L	0.0050	0.00067	1	02/23/23 17:01	02/24/23 14:48	7440-39-3	
Beryllium	0.0019	mg/L	0.00050	0.000054	1	02/23/23 17:01	02/24/23 14:48	7440-41-7	
Boron	4.0	mg/L	0.040	0.0086	1	02/23/23 17:01	02/24/23 14:48	7440-42-8	
Cadmium	0.00071	mg/L	0.00050	0.00011	1	02/23/23 17:01	02/24/23 14:48	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/23 17:01	02/24/23 14:48	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/23/23 17:01	02/24/23 14:48	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/23 17:01	02/24/23 14:48	7439-92-1	
Lithium	0.0056J	mg/L	0.030	0.00073	1	02/23/23 17:01	02/24/23 14:48	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/23 17:01	02/24/23 14:48	7439-98-7	
Selenium	0.055	mg/L	0.0050	0.0014	1	02/23/23 17:01	02/24/23 14:48	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/23 17:01	02/24/23 14:48	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	03/02/23 09:00	03/02/23 14:48	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	485	mg/L	25.0	25.0	1		02/13/23 16:54		
2320B Alkalinity									
Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	8.6	mg/L	5.0	5.0	1		02/16/23 20:55		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/16/23 20:55		
Alkalinity, Total as CaCO3	8.6	mg/L	5.0	5.0	1		02/16/23 20:55		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	3.8	mg/L	1.0	0.60	1		02/11/23 20:13	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/11/23 20:13	16984-48-8	
Sulfate	252	mg/L	5.0	2.5	5		02/12/23 05:58	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

Sample: YAT-YGWC-41	Lab ID: 92651580011	Collected: 02/08/23 16:30	Received: 02/09/23 12:35	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	Client				1		03/03/23 10:34		
Collected By	Jessica Ware				1		03/03/23 10:34		
Collected Date	02/08/23				1		03/03/23 10:34		
Collected Time	16:30				1		03/03/23 10:34		
pH	4.69	Std. Units			1		03/03/23 10:34		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	14.4	mg/L	1.0	0.12	1	02/21/23 17:00	02/22/23 18:49	7440-70-2	
Potassium	2.3	mg/L	0.20	0.15	1	02/21/23 17:00	02/22/23 18:49	7440-09-7	
Sodium	14.3	mg/L	1.0	0.58	1	02/21/23 17:00	02/22/23 18:49	7440-23-5	
Magnesium	17.4	mg/L	0.050	0.012	1	02/21/23 17:00	02/22/23 18:49	7439-95-4	
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	02/23/23 17:01	02/24/23 14:54	7440-36-0	
Arsenic	0.0027J	mg/L	0.0050	0.0022	1	02/23/23 17:01	02/24/23 14:54	7440-38-2	
Barium	0.022	mg/L	0.0050	0.00067	1	02/23/23 17:01	02/24/23 14:54	7440-39-3	
Beryllium	0.0013	mg/L	0.00050	0.000054	1	02/23/23 17:01	02/24/23 14:54	7440-41-7	
Boron	3.3	mg/L	0.040	0.0086	1	02/23/23 17:01	02/24/23 14:54	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/23 17:01	02/24/23 14:54	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/23 17:01	02/24/23 14:54	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/23/23 17:01	02/24/23 14:54	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/23 17:01	02/24/23 14:54	7439-92-1	
Lithium	0.0021J	mg/L	0.030	0.00073	1	02/23/23 17:01	02/24/23 14:54	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/23 17:01	02/24/23 14:54	7439-98-7	
Selenium	0.027	mg/L	0.0050	0.0014	1	02/23/23 17:01	02/24/23 14:54	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/23 17:01	02/24/23 14:54	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	03/02/23 09:00	03/02/23 14:50	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	257	mg/L	25.0	25.0	1		02/13/23 16:55		
2320B Alkalinity									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/17/23 12:02		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/17/23 12:02		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		02/17/23 12:02		

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ANALYTICAL RESULTS

Project: Plant Yates AMA-R6

Pace Project No.: 92651580

Sample: YAT-YGWC-41 **Lab ID: 92651580011** Collected: 02/08/23 16:30 Received: 02/09/23 12:35 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	4.0	mg/L	1.0	0.60	1		02/13/23 23:51	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/13/23 23:51	16984-48-8	
Sulfate	119	mg/L	2.0	1.0	2		02/14/23 13:10	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Sample: YAT-YGWC-43 Lab ID: 92651580012 Collected: 02/08/23 18:00 Received: 02/09/23 12:35 Matrix: Water									
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	Client				1		03/03/23 10:34		
Collected By	Jessica Ware				1		03/03/23 10:34		
Collected Date	02/08/23				1		03/03/23 10:34		
Collected Time	18:00				1		03/03/23 10:34		
pH	5.40	Std. Units			1		03/03/23 10:34		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	11.0	mg/L	1.0	0.12	1	02/21/23 17:00	02/22/23 18:54	7440-70-2	
Potassium	6.5	mg/L	0.20	0.15	1	02/21/23 17:00	02/22/23 18:54	7440-09-7	
Sodium	18.3	mg/L	1.0	0.58	1	02/21/23 17:00	02/22/23 18:54	7440-23-5	
Magnesium	25.8	mg/L	0.050	0.012	1	02/21/23 17:00	02/22/23 18:54	7439-95-4	
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	02/23/23 17:01	02/24/23 15:00	7440-36-0	
Arsenic	0.0033J	mg/L	0.0050	0.0022	1	02/23/23 17:01	02/24/23 15:00	7440-38-2	
Barium	0.031	mg/L	0.0050	0.00067	1	02/23/23 17:01	02/24/23 15:00	7440-39-3	
Beryllium	0.00036J	mg/L	0.00050	0.000054	1	02/23/23 17:01	02/24/23 15:00	7440-41-7	
Boron	2.5	mg/L	0.040	0.0086	1	02/23/23 17:01	02/24/23 15:00	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/23 17:01	02/24/23 15:00	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/23 17:01	02/24/23 15:00	7440-47-3	
Cobalt	0.00049J	mg/L	0.0050	0.00039	1	02/23/23 17:01	02/24/23 15:00	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/23 17:01	02/24/23 15:00	7439-92-1	
Lithium	0.015J	mg/L	0.030	0.00073	1	02/23/23 17:01	02/24/23 15:00	7439-93-2	
Molybdenum	0.0016J	mg/L	0.010	0.00074	1	02/23/23 17:01	02/24/23 15:00	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/23 17:01	02/24/23 15:00	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/23 17:01	02/24/23 15:00	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	03/02/23 09:00	03/02/23 14:53	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	333	mg/L	25.0	25.0	1		02/13/23 16:55		
2320B Alkalinity									
Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO ₃)	33.9	mg/L	5.0	5.0	1		02/17/23 12:07		
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	5.0	5.0	1		02/17/23 12:07		
Alkalinity, Total as CaCO ₃	33.9	mg/L	5.0	5.0	1		02/17/23 12:07		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Yates AMA-R6

Pace Project No.: 92651580

Sample: YAT-YGWC-43 **Lab ID: 92651580012** Collected: 02/08/23 18:00 Received: 02/09/23 12:35 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	2.4	mg/L	1.0	0.60	1		02/14/23 00:06	16887-00-6	
Fluoride	0.11	mg/L	0.10	0.050	1		02/14/23 00:06	16984-48-8	
Sulfate	164	mg/L	3.0	1.5	3		02/14/23 13:25	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates AMA-R6

Pace Project No.: 92651580

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Sample: YAT-YAMW-2									
Lab ID: 92651580013									
Collected: 02/08/23 13:55									
Received: 02/09/23 12:35									
Matrix: Water									
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	Client				1		03/03/23 10:35		
Collected By	Jessica Ware				1		03/03/23 10:35		
Collected Date	02/08/23				1		03/03/23 10:35		
Collected Time	13:55				1		03/03/23 10:35		
pH	5.95	Std. Units			1		03/03/23 10:35		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	1.2	mg/L	1.0	0.12	1	02/21/23 17:00	02/22/23 18:58	7440-70-2	
Potassium	0.69	mg/L	0.20	0.15	1	02/21/23 17:00	02/22/23 18:58	7440-09-7	
Sodium	6.7	mg/L	1.0	0.58	1	02/21/23 17:00	02/22/23 18:58	7440-23-5	
Magnesium	2.0	mg/L	0.050	0.012	1	02/21/23 17:00	02/22/23 18:58	7439-95-4	
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	02/23/23 17:01	02/24/23 15:06	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/23/23 17:01	02/24/23 15:06	7440-38-2	
Barium	0.0064	mg/L	0.0050	0.00067	1	02/23/23 17:01	02/24/23 15:06	7440-39-3	
Beryllium	0.000055J	mg/L	0.00050	0.000054	1	02/23/23 17:01	02/24/23 15:06	7440-41-7	
Boron	0.031J	mg/L	0.040	0.0086	1	02/23/23 17:01	02/24/23 15:06	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/23 17:01	02/24/23 15:06	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/23 17:01	02/24/23 15:06	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/23/23 17:01	02/24/23 15:06	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/23 17:01	02/24/23 15:06	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/23/23 17:01	02/24/23 15:06	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/23 17:01	02/24/23 15:06	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/23 17:01	02/24/23 15:06	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/23 17:01	02/24/23 15:06	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	03/02/23 09:00	03/02/23 14:56	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	190	mg/L	25.0	25.0	1		02/14/23 11:56		
2320B Alkalinity									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	15.3	mg/L	5.0	5.0	1		02/17/23 12:13		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/17/23 12:13		
Alkalinity, Total as CaCO3	15.3	mg/L	5.0	5.0	1		02/17/23 12:13		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Yates AMA-R6

Pace Project No.: 92651580

Sample: YAT-YAMW-2 **Lab ID: 92651580013** Collected: 02/08/23 13:55 Received: 02/09/23 12:35 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	2.5	mg/L	1.0	0.60	1		02/14/23 00:21	16887-00-6	
Fluoride	0.061J	mg/L	0.10	0.050	1		02/14/23 00:21	16984-48-8	
Sulfate	6.7	mg/L	1.0	0.50	1		02/14/23 00:21	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Sample: YAT-YAMW-4 Lab ID: 92651580014 Collected: 02/08/23 14:52 Received: 02/09/23 12:35 Matrix: Water									
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	Client				1		03/03/23 10:36		
Collected By	Jessica Ware				1		03/03/23 10:36		
Collected Date	02/08/23				1		03/03/23 10:36		
Collected Time	14:52				1		03/03/23 10:36		
pH	6.19	Std. Units			1		03/03/23 10:36		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	12.0	mg/L	1.0	0.12	1	02/21/23 17:00	02/22/23 19:03	7440-70-2	
Potassium	6.1	mg/L	0.20	0.15	1	02/21/23 17:00	02/22/23 19:03	7440-09-7	
Sodium	25.3	mg/L	1.0	0.58	1	02/21/23 17:00	02/22/23 19:03	7440-23-5	
Magnesium	39.2	mg/L	0.050	0.012	1	02/21/23 17:00	02/22/23 19:03	7439-95-4	
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	02/23/23 17:01	02/24/23 15:12	7440-36-0	
Arsenic	0.0037J	mg/L	0.0050	0.0022	1	02/23/23 17:01	02/24/23 15:12	7440-38-2	
Barium	0.0030J	mg/L	0.0050	0.00067	1	02/23/23 17:01	02/24/23 15:12	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/23/23 17:01	02/24/23 15:12	7440-41-7	
Boron	3.0	mg/L	0.040	0.0086	1	02/23/23 17:01	02/24/23 15:12	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/23 17:01	02/24/23 15:12	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/23 17:01	02/24/23 15:12	7440-47-3	
Cobalt	0.00085J	mg/L	0.0050	0.00039	1	02/23/23 17:01	02/24/23 15:12	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/23 17:01	02/24/23 15:12	7439-92-1	
Lithium	0.033	mg/L	0.030	0.00073	1	02/23/23 17:01	02/24/23 15:12	7439-93-2	
Molybdenum	0.0076J	mg/L	0.010	0.00074	1	02/23/23 17:01	02/24/23 15:12	7439-98-7	
Selenium	0.017	mg/L	0.0050	0.0014	1	02/23/23 17:01	02/24/23 15:12	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/23 17:01	02/24/23 15:12	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	03/02/23 09:00	03/02/23 14:58	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	402	mg/L	25.0	25.0	1		02/14/23 11:59		
2320B Alkalinity									
Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO ₃)	58.1	mg/L	5.0	5.0	1		02/17/23 12:19		
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	5.0	5.0	1		02/17/23 12:19		
Alkalinity, Total as CaCO ₃	58.1	mg/L	5.0	5.0	1		02/17/23 12:19		

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ANALYTICAL RESULTS

Project: Plant Yates AMA-R6

Pace Project No.: 92651580

Sample: YAT-YAMW-4 **Lab ID: 92651580014** Collected: 02/08/23 14:52 Received: 02/09/23 12:35 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	1.5	mg/L	1.0	0.60	1		02/14/23 00:36	16887-00-6	
Fluoride	0.079J	mg/L	0.10	0.050	1		02/14/23 00:36	16984-48-8	
Sulfate	192	mg/L	4.0	2.0	4		02/14/23 13:40	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Sample: YAT-YAMW-5									
Lab ID: 92651580015									
Collected: 02/08/23 10:58									
Received: 02/09/23 12:35									
Matrix: Water									
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	Client				1		03/03/23 10:36		
Collected By	Jessica Ware				1		03/03/23 10:36		
Collected Date	02/08/23				1		03/03/23 10:36		
Collected Time	10:58				1		03/03/23 10:36		
pH	5.67	Std. Units			1		03/03/23 10:36		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	52.3	mg/L	1.0	0.12	1	02/21/23 17:00	02/22/23 19:08	7440-70-2	
Potassium	7.8	mg/L	0.20	0.15	1	02/21/23 17:00	02/22/23 19:08	7440-09-7	
Sodium	41.7	mg/L	1.0	0.58	1	02/21/23 17:00	02/22/23 19:08	7440-23-5	
Magnesium	49.0	mg/L	0.050	0.012	1	02/21/23 17:00	02/22/23 19:08	7439-95-4	
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	02/23/23 17:01	02/24/23 15:18	7440-36-0	
Arsenic	0.0038J	mg/L	0.0050	0.0022	1	02/23/23 17:01	02/24/23 15:18	7440-38-2	
Barium	0.039	mg/L	0.0050	0.00067	1	02/23/23 17:01	02/24/23 15:18	7440-39-3	
Beryllium	0.00013J	mg/L	0.00050	0.000054	1	02/23/23 17:01	02/24/23 15:18	7440-41-7	
Boron	6.5	mg/L	0.040	0.0086	1	02/23/23 17:01	02/24/23 15:18	7440-42-8	
Cadmium	0.00046J	mg/L	0.00050	0.00011	1	02/23/23 17:01	02/24/23 15:18	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/23 17:01	02/24/23 15:18	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/23/23 17:01	02/24/23 15:18	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/23 17:01	02/24/23 15:18	7439-92-1	
Lithium	0.014J	mg/L	0.030	0.00073	1	02/23/23 17:01	02/24/23 15:18	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/23 17:01	02/24/23 15:18	7439-98-7	
Selenium	0.052	mg/L	0.0050	0.0014	1	02/23/23 17:01	02/24/23 15:18	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/23 17:01	02/24/23 15:18	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	03/02/23 09:00	03/02/23 15:01	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	660	mg/L	25.0	25.0	1		02/14/23 11:59		
2320B Alkalinity									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	13.1	mg/L	5.0	5.0	1		02/17/23 12:27		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/17/23 12:27		
Alkalinity, Total as CaCO3	13.1	mg/L	5.0	5.0	1		02/17/23 12:27		

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ANALYTICAL RESULTS

Project: Plant Yates AMA-R6

Pace Project No.: 92651580

Sample: YAT-YAMW-5 **Lab ID: 92651580015** Collected: 02/08/23 10:58 Received: 02/09/23 12:35 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	3.8	mg/L	1.0	0.60	1		02/14/23 00:51	16887-00-6	
Fluoride	0.050J	mg/L	0.10	0.050	1		02/14/23 00:51	16984-48-8	M1
Sulfate	368	mg/L	8.0	4.0	8		02/14/23 14:39	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

Sample: YAT-YAMW-1		Lab ID: 92651580016		Collected: 02/09/23 15:56		Received: 02/10/23 14:00		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	Client				1		03/03/23 10:37		
Collected By	Jessica Ware				1		03/03/23 10:37		
Collected Date	02/09/23				1		03/03/23 10:37		
Collected Time	15:56				1		03/03/23 10:37		
pH	5.73	Std. Units			1		03/03/23 10:37		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	31.7	mg/L	1.0	0.12	1	02/23/23 10:34	02/23/23 17:31	7440-70-2	
Potassium	9.7	mg/L	0.20	0.15	1	02/23/23 10:34	02/23/23 17:31	7440-09-7	
Sodium	22.2	mg/L	1.0	0.58	1	02/23/23 10:34	02/23/23 17:31	7440-23-5	
Magnesium	25.4	mg/L	0.050	0.012	1	02/23/23 10:34	02/23/23 17:31	7439-95-4	
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	02/23/23 17:01	02/24/23 15:40	7440-36-0	
Arsenic	0.0034J	mg/L	0.0050	0.0022	1	02/23/23 17:01	02/24/23 15:40	7440-38-2	
Barium	0.078	mg/L	0.0050	0.00067	1	02/23/23 17:01	02/24/23 15:40	7440-39-3	
Beryllium	0.00012J	mg/L	0.00050	0.000054	1	02/23/23 17:01	02/24/23 15:40	7440-41-7	
Boron	0.63	mg/L	0.040	0.0086	1	02/23/23 17:01	02/24/23 15:40	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/23 17:01	02/24/23 15:40	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/23 17:01	02/24/23 15:40	7440-47-3	
Cobalt	0.0045J	mg/L	0.0050	0.00039	1	02/23/23 17:01	02/24/23 15:40	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/23 17:01	02/24/23 15:40	7439-92-1	
Lithium	0.019J	mg/L	0.030	0.00073	1	02/23/23 17:01	02/24/23 15:40	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/23 17:01	02/24/23 15:40	7439-98-7	
Selenium	0.0051	mg/L	0.0050	0.0014	1	02/23/23 17:01	02/24/23 15:40	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/23 17:01	02/24/23 15:40	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	03/02/23 09:00	03/02/23 15:09	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	347	mg/L	25.0	25.0	1		02/15/23 18:41		
2320B Alkalinity									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	29.2	mg/L	5.0	5.0	1		02/17/23 19:36		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/17/23 19:36		
Alkalinity, Total as CaCO3	29.2	mg/L	5.0	5.0	1		02/17/23 19:36		

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ANALYTICAL RESULTS

Project: Plant Yates AMA-R6

Pace Project No.: 92651580

Sample: YAT-YAMW-1 **Lab ID: 92651580016** Collected: 02/09/23 15:56 Received: 02/10/23 14:00 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	5.4	mg/L	1.0	0.60	1		02/14/23 22:06	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/14/23 22:06	16984-48-8	
Sulfate	209	mg/L	4.0	2.0	4		02/15/23 09:31	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

Sample: YAT-AMA-R6-FD-1 **Lab ID:** 92651580017 Collected: 02/09/23 00:00 Received: 02/10/23 14:00 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	29.0	mg/L	1.0	0.12	1	02/23/23 10:34	02/23/23 17:36	7440-70-2	
Potassium	9.0	mg/L	0.20	0.15	1	02/23/23 10:34	02/23/23 17:36	7440-09-7	
Sodium	20.4	mg/L	1.0	0.58	1	02/23/23 10:34	02/23/23 17:36	7440-23-5	
Magnesium	23.4	mg/L	0.050	0.012	1	02/23/23 10:34	02/23/23 17:36	7439-95-4	
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	02/23/23 17:01	02/24/23 15:46	7440-36-0	
Arsenic	0.0036J	mg/L	0.0050	0.0022	1	02/23/23 17:01	02/24/23 15:46	7440-38-2	
Barium	0.081	mg/L	0.0050	0.00067	1	02/23/23 17:01	02/24/23 15:46	7440-39-3	
Beryllium	0.00013J	mg/L	0.00050	0.000054	1	02/23/23 17:01	02/24/23 15:46	7440-41-7	
Boron	0.66	mg/L	0.040	0.0086	1	02/23/23 17:01	02/24/23 15:46	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/23 17:01	02/24/23 15:46	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/23 17:01	02/24/23 15:46	7440-47-3	
Cobalt	0.0046J	mg/L	0.0050	0.00039	1	02/23/23 17:01	02/24/23 15:46	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/23 17:01	02/24/23 15:46	7439-92-1	
Lithium	0.020J	mg/L	0.030	0.00073	1	02/23/23 17:01	02/24/23 15:46	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/23 17:01	02/24/23 15:46	7439-98-7	
Selenium	0.0050	mg/L	0.0050	0.0014	1	02/23/23 17:01	02/24/23 15:46	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/23 17:01	02/24/23 15:46	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	03/02/23 09:00	03/02/23 15:11	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	344	mg/L	25.0	25.0	1		02/16/23 19:18		
2320B Alkalinity									
Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	28.6	mg/L	5.0	5.0	1		02/17/23 19:42		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/17/23 19:42		
Alkalinity, Total as CaCO3	28.6	mg/L	5.0	5.0	1		02/17/23 19:42		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	5.4	mg/L	1.0	0.60	1		02/14/23 23:06	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/14/23 23:06	16984-48-8	
Sulfate	208	mg/L	4.0	2.0	4		02/15/23 09:45	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Sample: YAT-YGWC-36A									
Lab ID: 92651580018									
Collected: 02/09/23 13:10									
Received: 02/10/23 14:00									
Matrix: Water									
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	Client				1		03/03/23 10:38		
Collected By	Jessica Ware				1		03/03/23 10:38		
Collected Date	02/09/23				1		03/03/23 10:38		
Collected Time	13:10				1		03/03/23 10:38		
pH	5.67	Std. Units			1		03/03/23 10:38		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	9.2	mg/L	1.0	0.12	1	02/23/23 10:34	02/23/23 17:41	7440-70-2	
Potassium	1.1	mg/L	0.20	0.15	1	02/23/23 10:34	02/23/23 17:41	7440-09-7	
Sodium	14.7	mg/L	1.0	0.58	1	02/23/23 10:34	02/23/23 17:41	7440-23-5	
Magnesium	4.0	mg/L	0.050	0.012	1	02/23/23 10:34	02/23/23 17:41	7439-95-4	
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	02/23/23 17:01	02/24/23 15:52	7440-36-0	
Arsenic	0.0047J	mg/L	0.0050	0.0022	1	02/23/23 17:01	02/24/23 15:52	7440-38-2	
Barium	0.097	mg/L	0.0050	0.00067	1	02/23/23 17:01	02/24/23 15:52	7440-39-3	
Beryllium	0.00066	mg/L	0.00050	0.000054	1	02/23/23 17:01	02/24/23 15:52	7440-41-7	
Boron	0.028J	mg/L	0.040	0.0086	1	02/23/23 17:01	02/24/23 15:52	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/23 17:01	02/24/23 15:52	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/23 17:01	02/24/23 15:52	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/23/23 17:01	02/24/23 15:52	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/23 17:01	02/24/23 15:52	7439-92-1	
Lithium	0.0010J	mg/L	0.030	0.00073	1	02/23/23 17:01	02/24/23 15:52	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/23 17:01	02/24/23 15:52	7439-98-7	
Selenium	0.0027J	mg/L	0.0050	0.0014	1	02/23/23 17:01	02/24/23 15:52	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/23 17:01	02/24/23 15:52	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	03/02/23 09:00	03/02/23 15:14	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	116	mg/L	25.0	25.0	1		02/16/23 19:19		
2320B Alkalinity									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	10.6	mg/L	5.0	5.0	1		02/17/23 19:48		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/17/23 19:48		
Alkalinity, Total as CaCO3	10.6	mg/L	5.0	5.0	1		02/17/23 19:48		

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ANALYTICAL RESULTS

Project: Plant Yates AMA-R6

Pace Project No.: 92651580

Sample: YAT-YGWC-36A **Lab ID: 92651580018** Collected: 02/09/23 13:10 Received: 02/10/23 14:00 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	5.9	mg/L	1.0	0.60	1		02/14/23 23:21	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/14/23 23:21	16984-48-8	
Sulfate	50.8	mg/L	1.0	0.50	1		02/14/23 23:21	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

Sample: YAT-AMA-R6-FB-1 **Lab ID: 92651580020** Collected: 02/09/23 16:55 Received: 02/10/23 14:00 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									
Potassium	ND	mg/L	0.20	0.15	1	02/23/23 10:34	02/23/23 17:46	7440-09-7	
Sodium	ND	mg/L	1.0	0.58	1	02/23/23 10:34	02/23/23 17:46	7440-23-5	
Calcium	ND	mg/L	1.0	0.12	1	02/23/23 10:34	02/23/23 17:46	7440-70-2	
Magnesium	ND	mg/L	0.050	0.012	1	02/23/23 10:34	02/23/23 17:46	7439-95-4	
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	02/23/23 17:01	02/24/23 15:58	7440-36-0	
Arsenic	0.0045J	mg/L	0.0050	0.0022	1	02/23/23 17:01	02/24/23 15:58	7440-38-2	
Barium	ND	mg/L	0.0050	0.00067	1	02/23/23 17:01	02/24/23 15:58	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/23/23 17:01	02/24/23 15:58	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/23/23 17:01	02/24/23 15:58	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/23 17:01	02/24/23 15:58	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/23 17:01	02/24/23 15:58	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/23/23 17:01	02/24/23 15:58	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/23 17:01	02/24/23 15:58	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/23/23 17:01	02/24/23 15:58	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/23 17:01	02/24/23 15:58	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/23 17:01	02/24/23 15:58	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/23 17:01	02/24/23 15:58	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	03/02/23 09:00	03/02/23 15:16	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		02/15/23 18:41		
2320B Alkalinity									
Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/17/23 19:54		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/17/23 19:54		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		02/17/23 19:54		
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		02/15/23 00:06	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/15/23 00:06	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		02/15/23 00:06	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Sample: YAT-YGWC-24SB									
Lab ID: 92651580021									
Collected: 02/10/23 09:45									
Received: 02/10/23 14:00									
Matrix: Water									
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	Client				1		03/03/23 10:39		
Collected By	Jessica Ware				1		03/03/23 10:39		
Collected Date	02/10/23				1		03/03/23 10:39		
Collected Time	09:45				1		03/03/23 10:39		
pH	5.67	Std. Units			1		03/03/23 10:39		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Potassium	1.0	mg/L	0.20	0.15	1	02/23/23 10:34	02/23/23 17:51	7440-09-7	BC
Sodium	9.3	mg/L	1.0	0.58	1	02/23/23 10:34	02/23/23 17:51	7440-23-5	
Calcium	2.4	mg/L	1.0	0.12	1	02/23/23 10:34	02/23/23 17:51	7440-70-2	
Magnesium	1.8	mg/L	0.050	0.012	1	02/23/23 10:34	02/23/23 17:51	7439-95-4	
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	02/23/23 17:01	02/24/23 16:04	7440-36-0	
Arsenic	0.0035J	mg/L	0.0050	0.0022	1	02/23/23 17:01	02/24/23 16:04	7440-38-2	
Barium	0.031	mg/L	0.0050	0.00067	1	02/23/23 17:01	02/24/23 16:04	7440-39-3	
Beryllium	0.000054J	mg/L	0.00050	0.000054	1	02/23/23 17:01	02/24/23 16:04	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/23/23 17:01	02/24/23 16:04	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/23 17:01	02/24/23 16:04	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/23 17:01	02/24/23 16:04	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/23/23 17:01	02/24/23 16:04	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/23 17:01	02/24/23 16:04	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/23/23 17:01	02/24/23 16:04	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/23 17:01	02/24/23 16:04	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/23 17:01	02/24/23 16:04	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/23 17:01	02/24/23 16:04	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	03/02/23 09:00	03/02/23 13:22	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	66.0	mg/L	25.0	25.0	1		02/16/23 16:30		
2320B Alkalinity									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	12.6	mg/L	5.0	5.0	1		02/17/23 19:58		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/17/23 19:58		
Alkalinity, Total as CaCO3	12.6	mg/L	5.0	5.0	1		02/17/23 19:58		

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ANALYTICAL RESULTS

Project: Plant Yates AMA-R6

Pace Project No.: 92651580

Sample: YAT-YGWC-24SB **Lab ID: 92651580021** Collected: 02/10/23 09:45 Received: 02/10/23 14:00 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	9.1	mg/L	1.0	0.60	1		02/15/23 00:51	16887-00-6	
Fluoride	0.051J	mg/L	0.10	0.050	1		02/15/23 00:51	16984-48-8	
Sulfate	0.50J	mg/L	1.0	0.50	1		02/15/23 00:51	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Sample: YAT-PZ-51									
Lab ID: 92651580022									
Collected: 02/09/23 16:01									
Received: 02/10/23 14:00									
Matrix: Water									
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	Client				1		03/03/23 10:40		
Collected By	Jessica Ware				1		03/03/23 10:40		
Collected Date	02/09/23				1		03/03/23 10:40		
Collected Time	16:01				1		03/03/23 10:40		
pH	5.14	Std. Units			1		03/03/23 10:40		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Potassium	4.7	mg/L	0.20	0.15	1	02/23/23 10:34	02/23/23 17:55	7440-09-7	
Sodium	18.8	mg/L	1.0	0.58	1	02/23/23 10:34	02/23/23 17:55	7440-23-5	
Calcium	54.3	mg/L	1.0	0.12	1	02/23/23 10:34	02/23/23 17:55	7440-70-2	
Magnesium	45.6	mg/L	0.050	0.012	1	02/23/23 10:34	02/23/23 17:55	7439-95-4	
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	02/24/23 09:12	02/24/23 20:03	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/24/23 09:12	02/24/23 20:03	7440-38-2	
Barium	0.015	mg/L	0.0050	0.00067	1	02/24/23 09:12	02/24/23 20:03	7440-39-3	
Beryllium	0.0024	mg/L	0.00050	0.000054	1	02/24/23 09:12	02/25/23 14:47	7440-41-7	
Boron	6.9	mg/L	0.040	0.0086	1	02/24/23 09:12	02/25/23 14:47	7440-42-8	
Cadmium	0.0018	mg/L	0.00050	0.00011	1	02/24/23 09:12	02/24/23 20:03	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/24/23 09:12	02/24/23 20:03	7440-47-3	
Cobalt	0.0071	mg/L	0.0050	0.00039	1	02/24/23 09:12	02/24/23 20:03	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/24/23 09:12	02/24/23 20:03	7439-92-1	
Lithium	0.0045J	mg/L	0.030	0.00073	1	02/24/23 09:12	02/24/23 20:03	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/24/23 09:12	02/24/23 20:03	7439-98-7	
Selenium	0.028	mg/L	0.0050	0.0014	1	02/24/23 09:12	02/24/23 20:03	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/24/23 09:12	02/24/23 20:03	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	03/02/23 09:00	03/02/23 13:25	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	582	mg/L	25.0	25.0	1		02/15/23 18:42		
2320B Alkalinity									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	10.9	mg/L	5.0	5.0	1		02/17/23 20:13		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/17/23 20:13		
Alkalinity, Total as CaCO3	10.9	mg/L	5.0	5.0	1		02/17/23 20:13		

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ANALYTICAL RESULTS

Project: Plant Yates AMA-R6

Pace Project No.: 92651580

Sample: YAT-PZ-51 **Lab ID: 92651580022** Collected: 02/09/23 16:01 Received: 02/10/23 14:00 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	4.7	mg/L	1.0	0.60	1		02/15/23 01:05	16887-00-6	
Fluoride	0.13	mg/L	0.10	0.050	1		02/15/23 01:05	16984-48-8	
Sulfate	370	mg/L	7.0	3.5	7		02/15/23 10:00	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

Sample: YAT-AMA-R6-EB-2 **Lab ID:** 92651580023 Collected: 02/09/23 17:25 Received: 02/10/23 14:00 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									
Potassium	ND	mg/L	0.20	0.15	1	02/23/23 10:34	02/23/23 18:00	7440-09-7	
Sodium	ND	mg/L	1.0	0.58	1	02/23/23 10:34	02/23/23 18:00	7440-23-5	
Calcium	ND	mg/L	1.0	0.12	1	02/23/23 10:34	02/23/23 18:00	7440-70-2	
Magnesium	ND	mg/L	0.050	0.012	1	02/23/23 10:34	02/23/23 18:00	7439-95-4	
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	02/24/23 09:12	02/24/23 20:09	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/24/23 09:12	02/24/23 20:09	7440-38-2	
Barium	ND	mg/L	0.0050	0.00067	1	02/24/23 09:12	02/24/23 20:09	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/24/23 09:12	02/25/23 14:53	7440-41-7	
Boron	0.027J	mg/L	0.040	0.0086	1	02/24/23 09:12	02/25/23 14:53	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/24/23 09:12	02/24/23 20:09	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/24/23 09:12	02/24/23 20:09	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/24/23 09:12	02/24/23 20:09	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/24/23 09:12	02/24/23 20:09	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/24/23 09:12	02/24/23 20:09	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/24/23 09:12	02/24/23 20:09	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/24/23 09:12	02/24/23 20:09	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/24/23 09:12	02/24/23 20:09	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	03/02/23 09:00	03/02/23 13:27	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		02/15/23 18:42		
2320B Alkalinity									
Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/17/23 20:18		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/17/23 20:18		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		02/17/23 20:18		
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		02/15/23 02:05	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/15/23 02:05	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		02/15/23 02:05	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

Sample: YAT-YGWC-49 **Lab ID: 92651580024** Collected: 02/09/23 15:00 Received: 02/10/23 14:00 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	Client				1		03/03/23 10:40		
Collected By	Jessica Ware				1		03/03/23 10:40		
Collected Date	02/09/23				1		03/03/23 10:40		
Collected Time	15:00				1		03/03/23 10:40		
pH	5.61	Std. Units			1		03/03/23 10:40		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	11.8	mg/L	1.0	0.12	1	02/23/23 10:34	02/23/23 18:15	7440-70-2	
Potassium	1.8	mg/L	0.20	0.15	1	02/23/23 10:34	02/23/23 18:15	7440-09-7	
Sodium	17.2	mg/L	1.0	0.58	1	02/23/23 10:34	02/23/23 18:15	7440-23-5	
Magnesium	8.0	mg/L	0.050	0.012	1	02/23/23 10:34	02/23/23 18:15	7439-95-4	
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	02/27/23 12:04	02/27/23 20:32	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/27/23 12:04	02/27/23 20:32	7440-38-2	
Barium	0.063	mg/L	0.0050	0.00067	1	02/27/23 12:04	02/27/23 20:32	7440-39-3	
Beryllium	0.00012J	mg/L	0.00050	0.000054	1	02/27/23 12:04	02/27/23 20:32	7440-41-7	
Boron	0.014J	mg/L	0.040	0.0086	1	02/27/23 12:04	02/27/23 20:32	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/27/23 12:04	02/27/23 20:32	7440-43-9	
Chromium	0.0020J	mg/L	0.0050	0.0011	1	02/27/23 12:04	02/27/23 20:32	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/27/23 12:04	02/27/23 20:32	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/27/23 12:04	02/27/23 20:32	7439-92-1	
Lithium	0.0033J	mg/L	0.030	0.00073	1	02/27/23 12:04	02/27/23 20:32	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/27/23 12:04	02/27/23 20:32	7439-98-7	
Selenium	0.0054	mg/L	0.0050	0.0014	1	02/27/23 12:04	02/27/23 20:32	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/27/23 12:04	02/27/23 20:32	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	03/02/23 09:00	03/02/23 13:30	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	145	mg/L	25.0	25.0	1		02/15/23 18:43		
2320B Alkalinity									
Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	17.2	mg/L	5.0	5.0	1		02/17/23 20:23		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/17/23 20:23		
Alkalinity, Total as CaCO3	17.2	mg/L	5.0	5.0	1		02/17/23 20:23		

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ANALYTICAL RESULTS

Project: Plant Yates AMA-R6

Pace Project No.: 92651580

Sample: YAT-YGWC-49 **Lab ID: 92651580024** Collected: 02/09/23 15:00 Received: 02/10/23 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
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	0.60	1		02/15/23 02:20	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/15/23 02:20	16984-48-8	
Sulfate	71.1	mg/L	1.0	0.50	1		02/15/23 02:20	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

Sample: YAT-YAMW-3		Lab ID: 92651580025		Collected: 02/09/23 11:17		Received: 02/10/23 14:00		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	Client				1		03/19/23 15:53		
Collected By	JW				1		03/19/23 15:53		
Collected Date	02/09/23				1		03/19/23 15:53		
Collected Time	11:17				1		03/19/23 15:53		
pH	5.89	Std. Units			1		03/19/23 15:53		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	33.0	mg/L	1.0	0.12	1	02/23/23 10:34	02/23/23 18:20	7440-70-2	
Potassium	16.6	mg/L	0.20	0.15	1	02/23/23 10:34	02/23/23 18:20	7440-09-7	
Sodium	50.0	mg/L	1.0	0.58	1	02/23/23 10:34	02/23/23 18:20	7440-23-5	
Magnesium	59.2	mg/L	0.050	0.012	1	02/23/23 10:34	02/23/23 18:20	7439-95-4	
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	02/27/23 12:04	02/27/23 20:38	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/27/23 12:04	02/27/23 20:38	7440-38-2	
Barium	0.045	mg/L	0.0050	0.00067	1	02/27/23 12:04	02/27/23 20:38	7440-39-3	
Beryllium	0.000062J	mg/L	0.00050	0.000054	1	02/27/23 12:04	02/27/23 20:38	7440-41-7	
Boron	8.1	mg/L	0.040	0.0086	1	02/27/23 12:04	02/27/23 20:38	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/27/23 12:04	02/27/23 20:38	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/27/23 12:04	02/27/23 20:38	7440-47-3	
Cobalt	0.066	mg/L	0.0050	0.00039	1	02/27/23 12:04	02/27/23 20:38	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/27/23 12:04	02/27/23 20:38	7439-92-1	
Lithium	0.048	mg/L	0.030	0.00073	1	02/27/23 12:04	02/27/23 20:38	7439-93-2	
Molybdenum	0.0067J	mg/L	0.010	0.00074	1	02/27/23 12:04	02/27/23 20:38	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/27/23 12:04	02/27/23 20:38	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/27/23 12:04	02/27/23 20:38	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	03/02/23 09:00	03/02/23 13:33	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	727	mg/L	25.0	25.0	1		02/15/23 18:43		
2320B Alkalinity									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	53.7	mg/L	5.0	5.0	1		02/17/23 20:28		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/17/23 20:28		
Alkalinity, Total as CaCO3	53.7	mg/L	5.0	5.0	1		02/17/23 20:28		

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ANALYTICAL RESULTS

Project: Plant Yates AMA-R6

Pace Project No.: 92651580

Sample: YAT-YAMW-3 **Lab ID: 92651580025** Collected: 02/09/23 11:17 Received: 02/10/23 14:00 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	9.6	mg/L	1.0	0.60	1		02/15/23 02:35	16887-00-6	
Fluoride	0.079J	mg/L	0.10	0.050	1		02/15/23 02:35	16984-48-8	
Sulfate	419	mg/L	8.0	4.0	8		02/15/23 10:15	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Sample: YAT-PZ-35									
Lab ID: 92651576012									
Collected: 02/09/23 14:48									
Received: 02/10/23 14:00									
Matrix: Water									
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	Client				1		03/19/23 16:05		
Collected By	VL				1		03/19/23 16:05		
Collected Date	02/09/23				1		03/19/23 16:05		
Collected Time	14:48				1		03/19/23 16:05		
pH	5.50	Std. Units			1		03/19/23 16:05		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Potassium	1.7	mg/L	0.20	0.15	1	02/22/23 13:52	02/22/23 21:27	7440-09-7	
Sodium	15.9	mg/L	1.0	0.58	1	02/22/23 13:52	02/22/23 21:27	7440-23-5	
Calcium	14.5	mg/L	1.0	0.12	1	02/22/23 13:52	02/22/23 21:27	7440-70-2	
Magnesium	8.0	mg/L	0.050	0.012	1	02/22/23 13:52	02/22/23 21:27	7439-95-4	
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	02/22/23 17:00	02/23/23 18:04	7440-36-0	
Arsenic	0.0028J	mg/L	0.0050	0.0022	1	02/22/23 17:00	02/23/23 18:04	7440-38-2	
Barium	0.13	mg/L	0.0050	0.00067	1	02/22/23 17:00	02/23/23 18:04	7440-39-3	
Beryllium	0.00080	mg/L	0.00050	0.000054	1	02/22/23 17:00	02/23/23 18:04	7440-41-7	
Boron	0.076	mg/L	0.040	0.0086	1	02/22/23 17:00	02/23/23 18:04	7440-42-8	
Cadmium	0.00025J	mg/L	0.00050	0.00011	1	02/22/23 17:00	02/23/23 18:04	7440-43-9	
Chromium	0.0016J	mg/L	0.0050	0.0011	1	02/22/23 17:00	02/23/23 18:04	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/22/23 17:00	02/23/23 18:04	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/22/23 17:00	02/23/23 18:04	7439-92-1	
Lithium	0.0026J	mg/L	0.030	0.00073	1	02/22/23 17:00	02/23/23 18:04	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/22/23 17:00	02/23/23 18:04	7439-98-7	
Selenium	0.0041J	mg/L	0.0050	0.0014	1	02/22/23 17:00	02/23/23 18:04	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/22/23 17:00	02/23/23 18:04	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	02/27/23 15:15	02/28/23 11:12	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	196	mg/L	25.0	25.0	1		02/15/23 12:03		
2320B Alkalinity									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO3)	9.3	mg/L	5.0	5.0	1		02/17/23 17:29		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/17/23 17:29		
Alkalinity, Total as CaCO3	9.3	mg/L	5.0	5.0	1		02/17/23 17:29		

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ANALYTICAL RESULTS

Project: Plant Yates AMA-R6

Pace Project No.: 92651580

Sample: YAT-PZ-35 **Lab ID: 92651576012** Collected: 02/09/23 14:48 Received: 02/10/23 14:00 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	5.4	mg/L	1.0	0.60	1		02/14/23 18:52	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/14/23 18:52	16984-48-8	
Sulfate	84.6	mg/L	1.0	0.50	1		02/14/23 18:52	14808-79-8	

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QUALITY CONTROL DATA

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

QC Batch: 757276 Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92651580001, 92651580002, 92651580003, 92651580004, 92651580005, 92651580006, 92651580007, 92651580008, 92651580009, 92651580010, 92651580011, 92651580012, 92651580013, 92651580014, 92651580015

METHOD BLANK: 3934070 Matrix: Water
Associated Lab Samples: 92651580001, 92651580002, 92651580003, 92651580004, 92651580005, 92651580006, 92651580007, 92651580008, 92651580009, 92651580010, 92651580011, 92651580012, 92651580013, 92651580014, 92651580015

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	02/22/23 17:03	
Magnesium	mg/L	ND	0.050	0.012	02/22/23 17:03	
Potassium	mg/L	ND	0.20	0.15	02/22/23 17:03	
Sodium	mg/L	ND	1.0	0.58	02/22/23 17:03	

LABORATORY CONTROL SAMPLE: 3934071

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0	103	80-120	
Magnesium	mg/L	1	1.0	101	80-120	
Potassium	mg/L	1	0.99	99	80-120	
Sodium	mg/L	1	0.98J	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3934072 3934073

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92651415003 Result	Spike Conc.	Spike Conc.	Conc.								
Calcium	mg/L	179	1	1	187	190	757	1090	75-125	2	20	M1	
Magnesium	mg/L	117	1	1	122	124	519	698	75-125	1	20		
Potassium	mg/L	2.7	1	1	3.9	3.9	115	115	75-125	0	20		
Sodium	mg/L	7.0	1	1	8.2	8.4	126	144	75-125	2	20	M1	

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QUALITY CONTROL DATA

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

QC Batch: 757456 Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92651576012

METHOD BLANK: 3934803 Matrix: Water
Associated Lab Samples: 92651576012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	02/22/23 19:18	
Magnesium	mg/L	ND	0.050	0.012	02/22/23 19:18	
Potassium	mg/L	ND	0.20	0.15	02/22/23 19:18	
Sodium	mg/L	ND	1.0	0.58	02/22/23 19:18	

LABORATORY CONTROL SAMPLE: 3934804

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	0.97J	97	80-120	
Magnesium	mg/L	1	0.98	98	80-120	
Potassium	mg/L	1	1.0	100	80-120	
Sodium	mg/L	1	0.94J	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3934805 3934806

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92651576001 Result	Spike Conc.	Spike Conc.	Result						
Calcium	mg/L	11.9	1	1	13.1	13.1	126	119	75-125	0	20 M1
Magnesium	mg/L	10.7	1	1	12.0	11.9	125	118	75-125	1	20
Potassium	mg/L	9.1	1	1	10.3	10.3	122	121	75-125	0	20
Sodium	mg/L	14.9	1	1	16.2	16.1	135	123	75-125	1	20 M1

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QUALITY CONTROL DATA

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

QC Batch: 757680 Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92651580016, 92651580017, 92651580018, 92651580020, 92651580021, 92651580022, 92651580023, 92651580024, 92651580025

METHOD BLANK: 3935828 Matrix: Water
Associated Lab Samples: 92651580016, 92651580017, 92651580018, 92651580020, 92651580021, 92651580022, 92651580023, 92651580024, 92651580025

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	02/23/23 15:59	
Magnesium	mg/L	ND	0.050	0.012	02/23/23 15:59	
Potassium	mg/L	ND	0.20	0.15	02/23/23 15:59	
Sodium	mg/L	ND	1.0	0.58	02/23/23 15:59	

LABORATORY CONTROL SAMPLE: 3935829

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	0.98J	98	80-120	
Magnesium	mg/L	1	1.0	100	80-120	
Potassium	mg/L	1	1.1	109	80-120	
Sodium	mg/L	1	1.0	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3935830 3935831

Parameter	Units	92649235041		MS		MSD		% Rec	% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result								
Calcium	mg/L	113	1	1	1	112	111	-96	-182	75-125	1	20	M1		
Magnesium	mg/L	36.0	1	1	1	36.3	36.0	33	6	75-125	1	20	M1		
Potassium	mg/L	2.8	1	1	1	3.8	3.8	97	97	75-125	0	20			
Sodium	mg/L	5.8	1	1	1	6.8	6.7	98	91	75-125	1	20			

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QUALITY CONTROL DATA

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

QC Batch: 757520 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92651576012

METHOD BLANK: 3935190 Matrix: Water
Associated Lab Samples: 92651576012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	02/23/23 16:03	
Arsenic	mg/L	ND	0.0050	0.0022	02/23/23 16:03	
Barium	mg/L	ND	0.0050	0.00067	02/23/23 16:03	
Beryllium	mg/L	ND	0.00050	0.000054	02/23/23 16:03	
Boron	mg/L	ND	0.040	0.0086	02/23/23 16:03	
Cadmium	mg/L	ND	0.00050	0.00011	02/23/23 16:03	
Chromium	mg/L	ND	0.0050	0.0011	02/23/23 16:03	
Cobalt	mg/L	ND	0.0050	0.00039	02/23/23 16:03	
Lead	mg/L	ND	0.0010	0.00089	02/23/23 16:03	
Lithium	mg/L	ND	0.030	0.00073	02/23/23 16:03	
Molybdenum	mg/L	ND	0.010	0.00074	02/23/23 16:03	
Selenium	mg/L	ND	0.0050	0.0014	02/23/23 16:03	
Thallium	mg/L	ND	0.0010	0.00018	02/23/23 16:03	

LABORATORY CONTROL SAMPLE: 3935191

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	106	80-120	
Arsenic	mg/L	0.1	0.099	99	80-120	
Barium	mg/L	0.1	0.10	102	80-120	
Beryllium	mg/L	0.1	0.11	106	80-120	
Boron	mg/L	1	1.1	105	80-120	
Cadmium	mg/L	0.1	0.099	99	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	0.10	100	80-120	
Lithium	mg/L	0.1	0.11	106	80-120	
Molybdenum	mg/L	0.1	0.10	101	80-120	
Selenium	mg/L	0.1	0.096	96	80-120	
Thallium	mg/L	0.1	0.10	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3935192 3935193

Parameter	Units	92651576005 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Spike Conc.	MSD Spike Conc.	MS Result						
Antimony	mg/L	ND	0.1	0.1	0.11	0.11	107	108	75-125	1	20	
Arsenic	mg/L	ND	0.1	0.1	0.10	0.10	101	101	75-125	1	20	

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QUALITY CONTROL DATA

Project: Plant Yates AMA-R6

Pace Project No.: 92651580

Parameter	Units	3935192		3935193		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92651576005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Barium	mg/L	0.049	0.1	0.1	0.16	0.16	111	107	75-125	3	20		
Beryllium	mg/L	ND	0.1	0.1	0.10	0.10	102	101	75-125	2	20		
Boron	mg/L	1.0	1	1	2.1	2.0	106	94	75-125	6	20		
Cadmium	mg/L	ND	0.1	0.1	0.10	0.10	102	103	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	0.0015J	0.1	0.1	0.10	0.10	102	103	75-125	1	20		
Lead	mg/L	ND	0.1	0.1	0.10	0.10	101	100	75-125	0	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	102	102	75-125	0	20		
Selenium	mg/L	ND	0.1	0.1	0.10	0.10	101	101	75-125	0	20		
Thallium	mg/L	ND	0.1	0.1	0.10	0.10	101	100	75-125	1	20		

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QUALITY CONTROL DATA

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

QC Batch: 757801 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92651580001, 92651580002, 92651580003, 92651580004, 92651580005, 92651580006, 92651580007, 92651580008, 92651580009, 92651580010, 92651580011, 92651580012, 92651580013, 92651580014, 92651580015, 92651580016, 92651580017, 92651580018, 92651580020, 92651580021

METHOD BLANK: 3936697 Matrix: Water
Associated Lab Samples: 92651580001, 92651580002, 92651580003, 92651580004, 92651580005, 92651580006, 92651580007, 92651580008, 92651580009, 92651580010, 92651580011, 92651580012, 92651580013, 92651580014, 92651580015, 92651580016, 92651580017, 92651580018, 92651580020, 92651580021

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	02/24/23 12:45	
Arsenic	mg/L	ND	0.0050	0.0022	02/24/23 12:45	
Barium	mg/L	ND	0.0050	0.00067	02/24/23 12:45	
Beryllium	mg/L	ND	0.00050	0.000054	02/24/23 12:45	
Boron	mg/L	ND	0.040	0.0086	02/24/23 12:45	
Cadmium	mg/L	ND	0.00050	0.00011	02/24/23 12:45	
Chromium	mg/L	ND	0.0050	0.0011	02/24/23 12:45	
Cobalt	mg/L	ND	0.0050	0.00039	02/24/23 12:45	
Lead	mg/L	ND	0.0010	0.00089	02/24/23 12:45	
Lithium	mg/L	ND	0.030	0.00073	02/24/23 12:45	
Molybdenum	mg/L	ND	0.010	0.00074	02/24/23 12:45	
Selenium	mg/L	ND	0.0050	0.0014	02/24/23 12:45	
Thallium	mg/L	ND	0.0010	0.00018	02/24/23 12:45	

LABORATORY CONTROL SAMPLE: 3936698

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.10	104	80-120	
Arsenic	mg/L	0.1	0.098	98	80-120	
Barium	mg/L	0.1	0.097	97	80-120	
Beryllium	mg/L	0.1	0.099	99	80-120	
Boron	mg/L	1	0.99	99	80-120	
Cadmium	mg/L	0.1	0.097	97	80-120	
Chromium	mg/L	0.1	0.099	99	80-120	
Cobalt	mg/L	0.1	0.098	98	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	0.10	100	80-120	
Selenium	mg/L	0.1	0.095	95	80-120	
Thallium	mg/L	0.1	0.097	97	80-120	

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QUALITY CONTROL DATA

Project: Plant Yates AMA-R6

Pace Project No.: 92651580

Parameter	Units	92651580004		3936699		3936700		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result								
Antimony	mg/L	ND	0.1	0.1	0.11	0.10	105	102	75-125	3	20			
Arsenic	mg/L	ND	0.1	0.1	0.10	0.10	100	100	75-125	0	20			
Barium	mg/L	0.021	0.1	0.1	0.12	0.12	104	102	75-125	2	20			
Beryllium	mg/L	0.0011	0.1	0.1	0.089	0.085	88	84	75-125	5	20			
Boron	mg/L	7.7	1	1	8.8	8.5	104	75	75-125	3	20			
Cadmium	mg/L	0.00069	0.1	0.1	0.098	0.098	98	98	75-125	0	20			
Chromium	mg/L	ND	0.1	0.1	0.095	0.093	95	92	75-125	3	20			
Cobalt	mg/L	0.0020J	0.1	0.1	0.096	0.095	94	93	75-125	1	20			
Lead	mg/L	ND	0.1	0.1	0.094	0.092	94	92	75-125	3	20			
Lithium	mg/L	0.012J	0.1	0.1	0.10	0.10	91	87	75-125	3	20			
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.10	101	99	75-125	2	20			
Selenium	mg/L	0.15	0.1	0.1	0.26	0.26	106	107	75-125	0	20			
Thallium	mg/L	ND	0.1	0.1	0.094	0.092	94	92	75-125	3	20			

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QUALITY CONTROL DATA

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

QC Batch: 757842 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92651580022, 92651580023

METHOD BLANK: 3936983 Matrix: Water
Associated Lab Samples: 92651580022, 92651580023

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	02/24/23 17:22	
Arsenic	mg/L	0.0036J	0.0050	0.0022	02/24/23 17:22	
Barium	mg/L	ND	0.0050	0.00067	02/24/23 17:22	
Beryllium	mg/L	ND	0.00050	0.000054	02/25/23 14:35	
Boron	mg/L	ND	0.040	0.0086	02/25/23 14:35	
Cadmium	mg/L	ND	0.00050	0.00011	02/24/23 17:22	
Chromium	mg/L	ND	0.0050	0.0011	02/24/23 17:22	
Cobalt	mg/L	ND	0.0050	0.00039	02/24/23 17:22	
Lead	mg/L	ND	0.0010	0.00089	02/24/23 17:22	
Lithium	mg/L	ND	0.030	0.00073	02/25/23 14:35	
Molybdenum	mg/L	ND	0.010	0.00074	02/24/23 17:22	
Selenium	mg/L	ND	0.0050	0.0014	02/24/23 17:22	
Thallium	mg/L	ND	0.0010	0.00018	02/24/23 17:22	

LABORATORY CONTROL SAMPLE: 3936984

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	109	80-120	
Arsenic	mg/L	0.1	0.10	105	80-120	
Barium	mg/L	0.1	0.10	102	80-120	
Beryllium	mg/L	0.1	0.10	101	80-120	
Boron	mg/L	1	1.1	106	80-120	
Cadmium	mg/L	0.1	0.10	102	80-120	
Chromium	mg/L	0.1	0.10	102	80-120	
Cobalt	mg/L	0.1	0.10	102	80-120	
Lead	mg/L	0.1	0.11	106	80-120	
Lithium	mg/L	0.1	0.11	106	80-120	
Molybdenum	mg/L	0.1	0.10	104	80-120	
Selenium	mg/L	0.1	0.10	100	80-120	
Thallium	mg/L	0.1	0.10	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3936985 3936986

Parameter	Units	92651768018 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	0.1	0.11	0.11	109	114	75-125	5	20	
Arsenic	mg/L	ND	0.1	0.1	0.10	0.10	102	105	75-125	2	20	

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QUALITY CONTROL DATA

Project: Plant Yates AMA-R6

Pace Project No.: 92651580

Parameter	Units	92651768018		3936985		3936986		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec							
Barium	mg/L	12.8 ug/L	0.1	0.1	0.11	0.12	101	106	75-125	5	20			
Beryllium	mg/L	ND	0.1	0.1	0.082	0.085	82	85	75-125	3	20			
Boron	mg/L	ND	1	1	0.82	0.86	81	85	75-125	4	20			
Cadmium	mg/L	ND	0.1	0.1	0.10	0.10	102	105	75-125	3	20			
Chromium	mg/L	ND	0.1	0.1	0.094	0.095	93	94	75-125	1	20			
Cobalt	mg/L	ND	0.1	0.1	0.092	0.094	92	94	75-125	2	20			
Lead	mg/L	ND	0.1	0.1	0.10	0.10	101	104	75-125	3	20			
Lithium	mg/L	ND	0.1	0.1	0.086	0.090	86	90	75-125	5	20			
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.11	104	110	75-125	5	20			
Selenium	mg/L	ND	0.1	0.1	0.10	0.11	104	106	75-125	2	20			
Thallium	mg/L	ND	0.1	0.1	0.10	0.11	103	105	75-125	2	20			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

QC Batch: 758264 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92651580024, 92651580025

METHOD BLANK: 3938725 Matrix: Water
Associated Lab Samples: 92651580024, 92651580025

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	02/27/23 17:51	
Arsenic	mg/L	ND	0.0050	0.0022	02/27/23 17:51	
Barium	mg/L	ND	0.0050	0.00067	02/27/23 17:51	
Beryllium	mg/L	ND	0.00050	0.000054	02/27/23 17:51	
Boron	mg/L	ND	0.040	0.0086	02/27/23 17:51	
Cadmium	mg/L	ND	0.00050	0.00011	02/27/23 17:51	
Chromium	mg/L	ND	0.0050	0.0011	02/27/23 17:51	
Cobalt	mg/L	ND	0.0050	0.00039	02/27/23 17:51	
Lead	mg/L	ND	0.0010	0.00089	02/27/23 17:51	
Lithium	mg/L	ND	0.030	0.00073	02/27/23 17:51	
Molybdenum	mg/L	ND	0.010	0.00074	02/27/23 17:51	
Selenium	mg/L	ND	0.0050	0.0014	02/27/23 17:51	
Thallium	mg/L	ND	0.0010	0.00018	02/27/23 17:51	

LABORATORY CONTROL SAMPLE: 3938726

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.12	116	80-120	
Arsenic	mg/L	0.1	0.10	101	80-120	
Barium	mg/L	0.1	0.10	101	80-120	
Beryllium	mg/L	0.1	0.11	106	80-120	
Boron	mg/L	1	1.1	105	80-120	
Cadmium	mg/L	0.1	0.10	103	80-120	
Chromium	mg/L	0.1	0.10	104	80-120	
Cobalt	mg/L	0.1	0.10	103	80-120	
Lead	mg/L	0.1	0.10	103	80-120	
Lithium	mg/L	0.1	0.10	104	80-120	
Molybdenum	mg/L	0.1	0.10	102	80-120	
Selenium	mg/L	0.1	0.10	102	80-120	
Thallium	mg/L	0.1	0.10	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3938727 3938728

Parameter	Units	92649235016 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Antimony	mg/L	ND	0.1	0.1	0.12	0.12	117	120	75-125	2	20	
Arsenic	mg/L	ND	0.1	0.1	0.11	0.11	105	107	75-125	2	20	

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QUALITY CONTROL DATA

Project: Plant Yates AMA-R6

Pace Project No.: 92651580

Parameter	Units	3938727		3938728		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92649235016 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Barium	mg/L	0.025	0.1	0.1	0.13	0.13	104	106	75-125	2	20		
Beryllium	mg/L	ND	0.1	0.1	0.099	0.11	99	105	75-125	6	20		
Boron	mg/L	0.017J	1	1	1.0	1.1	100	105	75-125	5	20		
Cadmium	mg/L	ND	0.1	0.1	0.10	0.11	104	106	75-125	2	20		
Chromium	mg/L	ND	0.1	0.1	0.099	0.10	99	102	75-125	3	20		
Cobalt	mg/L	ND	0.1	0.1	0.097	0.10	97	100	75-125	3	20		
Lead	mg/L	ND	0.1	0.1	0.096	0.10	96	101	75-125	5	20		
Lithium	mg/L	ND	0.1	0.1	0.10	0.11	100	105	75-125	5	20		
Molybdenum	mg/L	0.0070J	0.1	0.1	0.11	0.11	101	104	75-125	2	20		
Selenium	mg/L	ND	0.1	0.1	0.11	0.11	105	106	75-125	1	20		
Thallium	mg/L	ND	0.1	0.1	0.10	0.10	100	102	75-125	3	20		

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QUALITY CONTROL DATA

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

QC Batch: 758312	Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A	Analysis Description: 7470 Mercury
	Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92651576012

METHOD BLANK: 3939045 Matrix: Water

Associated Lab Samples: 92651576012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	02/28/23 10:25	

LABORATORY CONTROL SAMPLE: 3939046

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3939047 3939048

Parameter	Units	3939047		3939048		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	0.0023	0.0023	89	89	75-125	0	20	

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QUALITY CONTROL DATA

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

QC Batch:	758956	Analysis Method:	EPA 7470A
QC Batch Method:	EPA 7470A	Analysis Description:	7470 Mercury
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92651580001, 92651580002, 92651580003, 92651580004, 92651580005, 92651580006, 92651580007, 92651580008, 92651580009, 92651580010, 92651580011, 92651580012, 92651580013, 92651580014, 92651580015, 92651580016, 92651580017, 92651580018, 92651580020

METHOD BLANK: 3942309 Matrix: Water
Associated Lab Samples: 92651580001, 92651580002, 92651580003, 92651580004, 92651580005, 92651580006, 92651580007, 92651580008, 92651580009, 92651580010, 92651580011, 92651580012, 92651580013, 92651580014, 92651580015, 92651580016, 92651580017, 92651580018, 92651580020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	03/02/23 14:05	

LABORATORY CONTROL SAMPLE: 3942310

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0024	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3942311 3942312

Parameter	Units	3942311		3942312		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		92651580003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Mercury	mg/L	ND	0.0025	0.0025	0.0021	0.0023	83	94	75-125	12	20	

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QUALITY CONTROL DATA

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

QC Batch: 758957 Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92651580021, 92651580022, 92651580023, 92651580024, 92651580025

METHOD BLANK: 3942313 Matrix: Water
Associated Lab Samples: 92651580021, 92651580022, 92651580023, 92651580024, 92651580025

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	03/02/23 12:20	

LABORATORY CONTROL SAMPLE: 3942314

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0025	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3942315 3942316

Parameter	Units	3942315		3942316		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92649235041 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Mercury	mg/L	ND	0.0025	0.0025	0.0024	0.0024	94	94	75-125	0	20 H1

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QUALITY CONTROL DATA

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

QC Batch:	755473	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: 92651580001, 92651580002, 92651580003, 92651580004, 92651580005, 92651580006, 92651580007, 92651580008, 92651580009, 92651580010, 92651580011, 92651580012

METHOD BLANK: 3925080 Matrix: Water
Associated Lab Samples: 92651580001, 92651580002, 92651580003, 92651580004, 92651580005, 92651580006, 92651580007, 92651580008, 92651580009, 92651580010, 92651580011, 92651580012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	02/13/23 16:22	

LABORATORY CONTROL SAMPLE: 3925081

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	397	99	80-120	

SAMPLE DUPLICATE: 3925082

Parameter	Units	92651537006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	116	85.0	31	10	D6

SAMPLE DUPLICATE: 3925083

Parameter	Units	92651580003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	822	839	2	10	

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QUALITY CONTROL DATA

Project: Plant Yates AMA-R6

Pace Project No.: 92651580

QC Batch: 755730

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: 92651580013, 92651580014, 92651580015

METHOD BLANK: 3926329

Matrix: Water

Associated Lab Samples: 92651580013, 92651580014, 92651580015

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	02/14/23 11:56	

LABORATORY CONTROL SAMPLE: 3926330

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	396	99	80-120	

SAMPLE DUPLICATE: 3926331

Parameter	Units	92651580013 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	190	203	7	10	

SAMPLE DUPLICATE: 3926332

Parameter	Units	92651382012 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	141	138	2	10	

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QUALITY CONTROL DATA

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

QC Batch: 755982 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: 92651576012

METHOD BLANK: 3927602 Matrix: Water
Associated Lab Samples: 92651576012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	02/15/23 11:50	

LABORATORY CONTROL SAMPLE: 3927603

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	377	94	80-120	

SAMPLE DUPLICATE: 3927604

Parameter	Units	92651771004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	31.0	29.0	7	10	

SAMPLE DUPLICATE: 3927605

Parameter	Units	92650184006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	619	623	1	10	

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QUALITY CONTROL DATA

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

QC Batch: 755997 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: 92651580016, 92651580020, 92651580022, 92651580023, 92651580024, 92651580025

METHOD BLANK: 3927731 Matrix: Water
Associated Lab Samples: 92651580016, 92651580020, 92651580022, 92651580023, 92651580024, 92651580025

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	02/15/23 18:35	

LABORATORY CONTROL SAMPLE: 3927732

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	384	96	80-120	

SAMPLE DUPLICATE: 3927733

Parameter	Units	92651576013 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	246	153	47	10	

SAMPLE DUPLICATE: 3927734

Parameter	Units	92651580022 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	582	676	15	10	

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QUALITY CONTROL DATA

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

QC Batch: 756280 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: 92651580017, 92651580018, 92651580021

METHOD BLANK: 3929095 Matrix: Water
Associated Lab Samples: 92651580017, 92651580018, 92651580021

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	02/16/23 15:00	

LABORATORY CONTROL SAMPLE: 3929096

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	377	94	80-120	

SAMPLE DUPLICATE: 3929098

Parameter	Units	92651771019 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	123	119	3	10	

SAMPLE DUPLICATE: 3929113

Parameter	Units	92651771011 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	169	185	9	10	

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QUALITY CONTROL DATA

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

QC Batch: 756067 Analysis Method: SM 2320B-2011
QC Batch Method: SM 2320B-2011 Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92651580001, 92651580002, 92651580003, 92651580004, 92651580005, 92651580006, 92651580007, 92651580008, 92651580009, 92651580010

METHOD BLANK: 3928180 Matrix: Water
Associated Lab Samples: 92651580001, 92651580002, 92651580003, 92651580004, 92651580005, 92651580006, 92651580007, 92651580008, 92651580009, 92651580010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	02/16/23 17:37	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	02/16/23 17:37	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	02/16/23 17:37	

LABORATORY CONTROL SAMPLE: 3928181

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

LABORATORY CONTROL SAMPLE: 3928182

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.2	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3928183 3928184

Parameter	Units	92651580009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	8.2	50	50	59.3	60.4	102	104	80-120	2	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3928185 3928186

Parameter	Units	92651580010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	8.6	50	50	61.0	61.3	105	105	80-120	1	25	

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QUALITY CONTROL DATA

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

QC Batch: 756119 Analysis Method: SM 2320B-2011
QC Batch Method: SM 2320B-2011 Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92651580011, 92651580012, 92651580013, 92651580014, 92651580015

METHOD BLANK: 3928501 Matrix: Water
Associated Lab Samples: 92651580011, 92651580012, 92651580013, 92651580014, 92651580015

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	02/17/23 11:43	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	02/17/23 11:43	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	02/17/23 11:43	

LABORATORY CONTROL SAMPLE: 3928502

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.5	101	80-120	

LABORATORY CONTROL SAMPLE: 3928503

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3928504 3928505

Parameter	Units	3928504		3928505		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		92651771001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Alkalinity, Total as CaCO3	mg/L	219	50	50	262	271	86	104	80-120	3	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3928506 3928507

Parameter	Units	3928506		3928507		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		92651771002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Alkalinity, Total as CaCO3	mg/L	242	50	50	287	284	90	83	80-120	1	25	

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QUALITY CONTROL DATA

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

QC Batch: 756264 Analysis Method: SM 2320B-2011
QC Batch Method: SM 2320B-2011 Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92651576012

METHOD BLANK: 3929037 Matrix: Water
Associated Lab Samples: 92651576012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	02/17/23 15:34	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	02/17/23 15:34	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	02/17/23 15:34	

LABORATORY CONTROL SAMPLE: 3929038

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.9	102	80-120	

LABORATORY CONTROL SAMPLE: 3929039

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.3	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3929040 3929041

Parameter	Units	92651382018		92651382019		MS Result	MSD Result	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	57.7	50	50	111	113	107	111	80-120	1	25		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3929042 3929043

Parameter	Units	92651382019		92651382018		MS Result	MSD Result	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	26.4	50	50	78.1	79.1	103	105	80-120	1	25		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

QC Batch: 756267 Analysis Method: SM 2320B-2011
QC Batch Method: SM 2320B-2011 Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92651580016, 92651580017, 92651580018, 92651580020, 92651580021, 92651580022, 92651580023, 92651580024, 92651580025

METHOD BLANK: 3929051 Matrix: Water
Associated Lab Samples: 92651580016, 92651580017, 92651580018, 92651580020, 92651580021, 92651580022, 92651580023, 92651580024, 92651580025

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	02/17/23 18:59	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	02/17/23 18:59	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	02/17/23 18:59	

LABORATORY CONTROL SAMPLE: 3929052

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.4	101	80-120	

LABORATORY CONTROL SAMPLE: 3929053

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	52.9	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3929054 3929055

Parameter	Units	92651771011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	166	50	50	229	226	126	118	80-120	2	25	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3929056 3929057

Parameter	Units	92651771012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	ND	50	50	49.0	49.2	98	98	80-120	0	25	

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QUALITY CONTROL DATA

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

QC Batch: 755348 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: 92651580001, 92651580002, 92651580003, 92651580004, 92651580005, 92651580006, 92651580007, 92651580008, 92651580009, 92651580010

METHOD BLANK: 3924712 Matrix: Water
Associated Lab Samples: 92651580001, 92651580002, 92651580003, 92651580004, 92651580005, 92651580006, 92651580007, 92651580008, 92651580009, 92651580010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/11/23 13:13	
Fluoride	mg/L	ND	0.10	0.050	02/11/23 13:13	
Sulfate	mg/L	ND	1.0	0.50	02/11/23 13:13	

LABORATORY CONTROL SAMPLE: 3924713

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	48.6	97	90-110	
Fluoride	mg/L	2.5	2.4	97	90-110	
Sulfate	mg/L	50	48.7	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3924714 3924715

Parameter	Units	92651512003		MS		MSD		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Conc.	Result	Result							
Chloride	mg/L	6.1	50	50	54.1	55.5	96	99	90-110	3	10			
Fluoride	mg/L	0.086J	2.5	2.5	2.5	2.5	95	98	90-110	3	10			
Sulfate	mg/L	10.2	50	50	58.6	60.1	97	100	90-110	3	10			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3924716 3924717

Parameter	Units	92651580001		MS		MSD		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Conc.	Result	Result							
Chloride	mg/L	2.0	50	50	50.9	52.4	98	101	90-110	3	10			
Fluoride	mg/L	ND	2.5	2.5	2.4	2.4	93	96	90-110	4	10			
Sulfate	mg/L	78.0	50	50	120	121	83	87	90-110	1	10	M1		

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QUALITY CONTROL DATA

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

QC Batch: 755595 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: 92651580011, 92651580012, 92651580013, 92651580014, 92651580015

METHOD BLANK: 3925880 Matrix: Water
Associated Lab Samples: 92651580011, 92651580012, 92651580013, 92651580014, 92651580015

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/13/23 22:52	
Fluoride	mg/L	ND	0.10	0.050	02/13/23 22:52	
Sulfate	mg/L	ND	1.0	0.50	02/13/23 22:52	

LABORATORY CONTROL SAMPLE: 3925881

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	51.1	102	90-110	
Fluoride	mg/L	2.5	2.7	107	90-110	
Sulfate	mg/L	50	50.9	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3925882 3925883

Parameter	Units	92651580015		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
Chloride	mg/L	3.8	50	50	53.5	56.1	99	105	90-110	5	10		
Fluoride	mg/L	0.050J	2.5	2.5	3.0	3.0	117	117	90-110	0	10	M1	
Sulfate	mg/L	368	50	50	417	420	99	104	90-110	1	10		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3925884 3925885

Parameter	Units	92651415007		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
Chloride	mg/L	ND	50	50	51.3	52.7	103	105	90-110	3	10		
Fluoride	mg/L	ND	2.5	2.5	2.6	2.7	106	107	90-110	1	10		
Sulfate	mg/L	ND	50	50	51.3	53.3	102	106	90-110	4	10		

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QUALITY CONTROL DATA

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

QC Batch: 755672 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: 92651576012, 92651580016, 92651580017, 92651580018

METHOD BLANK: 3926089 Matrix: Water
Associated Lab Samples: 92651576012, 92651580016, 92651580017, 92651580018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/14/23 13:03	
Fluoride	mg/L	ND	0.10	0.050	02/14/23 13:03	
Sulfate	mg/L	ND	1.0	0.50	02/14/23 13:03	

LABORATORY CONTROL SAMPLE: 3926090

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.9	100	90-110	
Fluoride	mg/L	2.5	2.6	105	90-110	
Sulfate	mg/L	50	49.1	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3926091 3926092

Parameter	Units	92651576004		MS		MSD		% Rec	% Rec	% Rec	Limits	RPD	Max	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result							
Chloride	mg/L	15.1	50	50	50	65.5	66.8	101	103	90-110	2	10		
Fluoride	mg/L	0.070J	2.5	2.5	2.5	2.6	2.7	101	104	90-110	3	10		
Sulfate	mg/L	89.7	50	50	50	147	148	114	116	90-110	1	10	M1	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3926093 3926094

Parameter	Units	92651614002		MS		MSD		% Rec	% Rec	% Rec	Limits	RPD	Max	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result							
Chloride	mg/L	5.9	50	50	50	58.0	58.3	104	105	90-110	0	10		
Fluoride	mg/L	0.11	2.5	2.5	2.5	2.8	2.8	106	108	90-110	1	10		
Sulfate	mg/L	193	50	50	50	243	244	101	102	90-110	0	10		

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QUALITY CONTROL DATA

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

QC Batch: 755677 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: 92651580020, 92651580021, 92651580022, 92651580023, 92651580024, 92651580025

METHOD BLANK: 3926115 Matrix: Water
Associated Lab Samples: 92651580020, 92651580021, 92651580022, 92651580023, 92651580024, 92651580025

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/14/23 23:36	
Fluoride	mg/L	ND	0.10	0.050	02/14/23 23:36	
Sulfate	mg/L	ND	1.0	0.50	02/14/23 23:36	

LABORATORY CONTROL SAMPLE: 3926116

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.2	100	90-110	
Fluoride	mg/L	2.5	2.7	107	90-110	
Sulfate	mg/L	50	50.4	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3926117 3926118

Parameter	Units	92651580020		92651580021		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Chloride	mg/L	ND	50	50	51.6	52.4	103	104	90-110	2	10		
Fluoride	mg/L	ND	2.5	2.5	2.6	2.7	105	107	90-110	2	10		
Sulfate	mg/L	ND	50	50	51.2	52.2	102	104	90-110	2	10		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3926119 3926120

Parameter	Units	92651824004		92651824005		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Chloride	mg/L	2.4	50	50	53.9	55.9	103	107	90-110	4	10		
Fluoride	mg/L	0.27	2.5	2.5	3.0	3.1	107	112	90-110	4	10	M1	
Sulfate	mg/L	15.4	50	50	66.4	68.6	102	106	90-110	3	10		

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QUALIFIERS

Project: Plant Yates AMA-R6

Pace Project No.: 92651580

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

BC The same analyte was detected in an associated blank at a concentration above 1/2 the reporting limit but below the laboratory reporting limit.

D6 The precision between the sample and sample duplicate exceeded laboratory control limits.

H1 Analysis conducted outside the EPA method holding time.

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

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92651580001	YAT-YGWC-23S				
92651580002	YAT-YGWC-42				
92651580003	YAT-PZ-37				
92651580005	YAT-PZ-37D				
92651580006	YAT-PZ-52D				
92651580009	YAT-YGWC-38				
92651580011	YAT-YGWC-41				
92651580012	YAT-YGWC-43				
92651580013	YAT-YAMW-2				
92651580014	YAT-YAMW-4				
92651580015	YAT-YAMW-5				
92651576012	YAT-PZ-35				
92651580016	YAT-YAMW-1				
92651580018	YAT-YGWC-36A				
92651580021	YAT-YGWC-24SB				
92651580022	YAT-PZ-51				
92651580024	YAT-YGWC-49				
92651580025	YAT-YAMW-3				
92651580001	YAT-YGWC-23S	EPA 3010A	757276	EPA 6010D	757302
92651580002	YAT-YGWC-42	EPA 3010A	757276	EPA 6010D	757302
92651580003	YAT-PZ-37	EPA 3010A	757276	EPA 6010D	757302
92651580004	YAT-AMA-R6-FD-3	EPA 3010A	757276	EPA 6010D	757302
92651580005	YAT-PZ-37D	EPA 3010A	757276	EPA 6010D	757302
92651580006	YAT-PZ-52D	EPA 3010A	757276	EPA 6010D	757302
92651580007	YAT-AMA-R6-EB-1	EPA 3010A	757276	EPA 6010D	757302
92651580008	YAT-AMA-R6-FB-2	EPA 3010A	757276	EPA 6010D	757302
92651580009	YAT-YGWC-38	EPA 3010A	757276	EPA 6010D	757302
92651580010	YAT-AMA-R6-FD-2	EPA 3010A	757276	EPA 6010D	757302
92651580011	YAT-YGWC-41	EPA 3010A	757276	EPA 6010D	757302
92651580012	YAT-YGWC-43	EPA 3010A	757276	EPA 6010D	757302
92651580013	YAT-YAMW-2	EPA 3010A	757276	EPA 6010D	757302
92651580014	YAT-YAMW-4	EPA 3010A	757276	EPA 6010D	757302
92651580015	YAT-YAMW-5	EPA 3010A	757276	EPA 6010D	757302
92651576012	YAT-PZ-35	EPA 3010A	757456	EPA 6010D	757555
92651580016	YAT-YAMW-1	EPA 3010A	757680	EPA 6010D	757761
92651580017	YAT-AMA-R6-FD-1	EPA 3010A	757680	EPA 6010D	757761
92651580018	YAT-YGWC-36A	EPA 3010A	757680	EPA 6010D	757761
92651580020	YAT-AMA-R6-FB-1	EPA 3010A	757680	EPA 6010D	757761
92651580021	YAT-YGWC-24SB	EPA 3010A	757680	EPA 6010D	757761
92651580022	YAT-PZ-51	EPA 3010A	757680	EPA 6010D	757761
92651580023	YAT-AMA-R6-EB-2	EPA 3010A	757680	EPA 6010D	757761
92651580024	YAT-YGWC-49	EPA 3010A	757680	EPA 6010D	757761
92651580025	YAT-YAMW-3	EPA 3010A	757680	EPA 6010D	757761
92651580001	YAT-YGWC-23S	EPA 3005A	757801	EPA 6020B	757937
92651580002	YAT-YGWC-42	EPA 3005A	757801	EPA 6020B	757937
92651580003	YAT-PZ-37	EPA 3005A	757801	EPA 6020B	757937
92651580004	YAT-AMA-R6-FD-3	EPA 3005A	757801	EPA 6020B	757937

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92651580005	YAT-PZ-37D	EPA 3005A	757801	EPA 6020B	757937
92651580006	YAT-PZ-52D	EPA 3005A	757801	EPA 6020B	757937
92651580007	YAT-AMA-R6-EB-1	EPA 3005A	757801	EPA 6020B	757937
92651580008	YAT-AMA-R6-FB-2	EPA 3005A	757801	EPA 6020B	757937
92651580009	YAT-YGWC-38	EPA 3005A	757801	EPA 6020B	757937
92651580010	YAT-AMA-R6-FD-2	EPA 3005A	757801	EPA 6020B	757937
92651580011	YAT-YGWC-41	EPA 3005A	757801	EPA 6020B	757937
92651580012	YAT-YGWC-43	EPA 3005A	757801	EPA 6020B	757937
92651580013	YAT-YAMW-2	EPA 3005A	757801	EPA 6020B	757937
92651580014	YAT-YAMW-4	EPA 3005A	757801	EPA 6020B	757937
92651580015	YAT-YAMW-5	EPA 3005A	757801	EPA 6020B	757937
92651576012	YAT-PZ-35	EPA 3005A	757520	EPA 6020B	757668
92651580016	YAT-YAMW-1	EPA 3005A	757801	EPA 6020B	757937
92651580017	YAT-AMA-R6-FD-1	EPA 3005A	757801	EPA 6020B	757937
92651580018	YAT-YGWC-36A	EPA 3005A	757801	EPA 6020B	757937
92651580020	YAT-AMA-R6-FB-1	EPA 3005A	757801	EPA 6020B	757937
92651580021	YAT-YGWC-24SB	EPA 3005A	757801	EPA 6020B	757937
92651580022	YAT-PZ-51	EPA 3005A	757842	EPA 6020B	758014
92651580023	YAT-AMA-R6-EB-2	EPA 3005A	757842	EPA 6020B	758014
92651580024	YAT-YGWC-49	EPA 3005A	758264	EPA 6020B	758347
92651580025	YAT-YAMW-3	EPA 3005A	758264	EPA 6020B	758347
92651580001	YAT-YGWC-23S	EPA 7470A	758956	EPA 7470A	759042
92651580002	YAT-YGWC-42	EPA 7470A	758956	EPA 7470A	759042
92651580003	YAT-PZ-37	EPA 7470A	758956	EPA 7470A	759042
92651580004	YAT-AMA-R6-FD-3	EPA 7470A	758956	EPA 7470A	759042
92651580005	YAT-PZ-37D	EPA 7470A	758956	EPA 7470A	759042
92651580006	YAT-PZ-52D	EPA 7470A	758956	EPA 7470A	759042
92651580007	YAT-AMA-R6-EB-1	EPA 7470A	758956	EPA 7470A	759042
92651580008	YAT-AMA-R6-FB-2	EPA 7470A	758956	EPA 7470A	759042
92651580009	YAT-YGWC-38	EPA 7470A	758956	EPA 7470A	759042
92651580010	YAT-AMA-R6-FD-2	EPA 7470A	758956	EPA 7470A	759042
92651580011	YAT-YGWC-41	EPA 7470A	758956	EPA 7470A	759042
92651580012	YAT-YGWC-43	EPA 7470A	758956	EPA 7470A	759042
92651580013	YAT-YAMW-2	EPA 7470A	758956	EPA 7470A	759042
92651580014	YAT-YAMW-4	EPA 7470A	758956	EPA 7470A	759042
92651580015	YAT-YAMW-5	EPA 7470A	758956	EPA 7470A	759042
92651576012	YAT-PZ-35	EPA 7470A	758312	EPA 7470A	758407
92651580016	YAT-YAMW-1	EPA 7470A	758956	EPA 7470A	759042
92651580017	YAT-AMA-R6-FD-1	EPA 7470A	758956	EPA 7470A	759042
92651580018	YAT-YGWC-36A	EPA 7470A	758956	EPA 7470A	759042
92651580020	YAT-AMA-R6-FB-1	EPA 7470A	758956	EPA 7470A	759042
92651580021	YAT-YGWC-24SB	EPA 7470A	758957	EPA 7470A	759041
92651580022	YAT-PZ-51	EPA 7470A	758957	EPA 7470A	759041
92651580023	YAT-AMA-R6-EB-2	EPA 7470A	758957	EPA 7470A	759041
92651580024	YAT-YGWC-49	EPA 7470A	758957	EPA 7470A	759041

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92651580025	YAT-YAMW-3	EPA 7470A	758957	EPA 7470A	759041
92651580001	YAT-YGWC-23S	SM 2540C-2015	755473		
92651580002	YAT-YGWC-42	SM 2540C-2015	755473		
92651580003	YAT-PZ-37	SM 2540C-2015	755473		
92651580004	YAT-AMA-R6-FD-3	SM 2540C-2015	755473		
92651580005	YAT-PZ-37D	SM 2540C-2015	755473		
92651580006	YAT-PZ-52D	SM 2540C-2015	755473		
92651580007	YAT-AMA-R6-EB-1	SM 2540C-2015	755473		
92651580008	YAT-AMA-R6-FB-2	SM 2540C-2015	755473		
92651580009	YAT-YGWC-38	SM 2540C-2015	755473		
92651580010	YAT-AMA-R6-FD-2	SM 2540C-2015	755473		
92651580011	YAT-YGWC-41	SM 2540C-2015	755473		
92651580012	YAT-YGWC-43	SM 2540C-2015	755473		
92651580013	YAT-YAMW-2	SM 2540C-2015	755730		
92651580014	YAT-YAMW-4	SM 2540C-2015	755730		
92651580015	YAT-YAMW-5	SM 2540C-2015	755730		
92651576012	YAT-PZ-35	SM 2540C-2015	755982		
92651580016	YAT-YAMW-1	SM 2540C-2015	755997		
92651580017	YAT-AMA-R6-FD-1	SM 2540C-2015	756280		
92651580018	YAT-YGWC-36A	SM 2540C-2015	756280		
92651580020	YAT-AMA-R6-FB-1	SM 2540C-2015	755997		
92651580021	YAT-YGWC-24SB	SM 2540C-2015	756280		
92651580022	YAT-PZ-51	SM 2540C-2015	755997		
92651580023	YAT-AMA-R6-EB-2	SM 2540C-2015	755997		
92651580024	YAT-YGWC-49	SM 2540C-2015	755997		
92651580025	YAT-YAMW-3	SM 2540C-2015	755997		
92651580001	YAT-YGWC-23S	SM 2320B-2011	756067		
92651580002	YAT-YGWC-42	SM 2320B-2011	756067		
92651580003	YAT-PZ-37	SM 2320B-2011	756067		
92651580004	YAT-AMA-R6-FD-3	SM 2320B-2011	756067		
92651580005	YAT-PZ-37D	SM 2320B-2011	756067		
92651580006	YAT-PZ-52D	SM 2320B-2011	756067		
92651580007	YAT-AMA-R6-EB-1	SM 2320B-2011	756067		
92651580008	YAT-AMA-R6-FB-2	SM 2320B-2011	756067		
92651580009	YAT-YGWC-38	SM 2320B-2011	756067		
92651580010	YAT-AMA-R6-FD-2	SM 2320B-2011	756067		
92651580011	YAT-YGWC-41	SM 2320B-2011	756119		
92651580012	YAT-YGWC-43	SM 2320B-2011	756119		
92651580013	YAT-YAMW-2	SM 2320B-2011	756119		
92651580014	YAT-YAMW-4	SM 2320B-2011	756119		
92651580015	YAT-YAMW-5	SM 2320B-2011	756119		
92651576012	YAT-PZ-35	SM 2320B-2011	756264		
92651580016	YAT-YAMW-1	SM 2320B-2011	756267		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92651580017	YAT-AMA-R6-FD-1	SM 2320B-2011	756267		
92651580018	YAT-YGWC-36A	SM 2320B-2011	756267		
92651580020	YAT-AMA-R6-FB-1	SM 2320B-2011	756267		
92651580021	YAT-YGWC-24SB	SM 2320B-2011	756267		
92651580022	YAT-PZ-51	SM 2320B-2011	756267		
92651580023	YAT-AMA-R6-EB-2	SM 2320B-2011	756267		
92651580024	YAT-YGWC-49	SM 2320B-2011	756267		
92651580025	YAT-YAMW-3	SM 2320B-2011	756267		
92651580001	YAT-YGWC-23S	EPA 300.0 Rev 2.1 1993	755348		
92651580002	YAT-YGWC-42	EPA 300.0 Rev 2.1 1993	755348		
92651580003	YAT-PZ-37	EPA 300.0 Rev 2.1 1993	755348		
92651580004	YAT-AMA-R6-FD-3	EPA 300.0 Rev 2.1 1993	755348		
92651580005	YAT-PZ-37D	EPA 300.0 Rev 2.1 1993	755348		
92651580006	YAT-PZ-52D	EPA 300.0 Rev 2.1 1993	755348		
92651580007	YAT-AMA-R6-EB-1	EPA 300.0 Rev 2.1 1993	755348		
92651580008	YAT-AMA-R6-FB-2	EPA 300.0 Rev 2.1 1993	755348		
92651580009	YAT-YGWC-38	EPA 300.0 Rev 2.1 1993	755348		
92651580010	YAT-AMA-R6-FD-2	EPA 300.0 Rev 2.1 1993	755348		
92651580011	YAT-YGWC-41	EPA 300.0 Rev 2.1 1993	755595		
92651580012	YAT-YGWC-43	EPA 300.0 Rev 2.1 1993	755595		
92651580013	YAT-YAMW-2	EPA 300.0 Rev 2.1 1993	755595		
92651580014	YAT-YAMW-4	EPA 300.0 Rev 2.1 1993	755595		
92651580015	YAT-YAMW-5	EPA 300.0 Rev 2.1 1993	755595		
92651576012	YAT-PZ-35	EPA 300.0 Rev 2.1 1993	755672		
92651580016	YAT-YAMW-1	EPA 300.0 Rev 2.1 1993	755672		
92651580017	YAT-AMA-R6-FD-1	EPA 300.0 Rev 2.1 1993	755672		
92651580018	YAT-YGWC-36A	EPA 300.0 Rev 2.1 1993	755672		
92651580020	YAT-AMA-R6-FB-1	EPA 300.0 Rev 2.1 1993	755677		
92651580021	YAT-YGWC-24SB	EPA 300.0 Rev 2.1 1993	755677		
92651580022	YAT-PZ-51	EPA 300.0 Rev 2.1 1993	755677		
92651580023	YAT-AMA-R6-EB-2	EPA 300.0 Rev 2.1 1993	755677		
92651580024	YAT-YGWC-49	EPA 300.0 Rev 2.1 1993	755677		
92651580025	YAT-YAMW-3	EPA 300.0 Rev 2.1 1993	755677		

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#: 92651580



Courier: Fed Ex UPS USPS Client Commercial Pace Other:

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: 2/9/23 CSE

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:

2.1 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):

2.2

JSDA 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.
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 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#: 92651580

PM: BV

Due Date: 02/23/23

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)	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	1																										
2	2	1																										
3	2	1																										
4	2	1																										
5	2	1																										
6	2	1																										
7	2	1																										
8	2	1																										
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:

Company: **GA Power**
 Address: **Atlanta, GA**
 Email To: **ljulcocker@southernco.com**
 Phone: **470.620.6176**
 Requested Due Date: **5/2/13**

Section B

Required Project Information:

Report To: **SCS Contacts**
 Copy To: **Arcadis Contacts**
 Task No: **VAT-CCR-453URT-20281**
 Purchase Order #:
 Project Name: **Plant Yates AMA-R6**
 Project Number:

Section C

Invoice Information:

Attention: **Southern Co.**
 Company Name:
 Address:
 POC Name: **Bonnie Vang**
 POC Title: **Plant Manager**
 POC Phone #: **10840**

Regulatory Agency: **Georgia**

State: **Georgia**

ITEM #	SAMPLE ID	MATRIX	DATE	TIME	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	PRESERVATIVES						ANALYSIS TEST	Y/N	RESIDUAL CHLORINE (Y/N)	PH
									H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol				
1	VAT-YGWC-235	Drinking Water	2/8	1535				3									5.33	091
2	VAT-YAMW-1	Drinking Water						3										
3	VAT-AMA-FD-1	Drinking Water						3										
4	VAT-YGWC-36A	Drinking Water						3										
5	VAT-YGWC-49	Drinking Water						3										
6	VAT-YGWC-38	Drinking Water						3										
7	VAT-AMA-FD-2	Drinking Water						3										
8	VAT-YGWC-41	Drinking Water						3										
9	VAT-YGWC-42	Drinking Water	2/9	1736				3									5.48	672
10	VAT-YGWC-43	Drinking Water						3										
11	VAT-YAMW-2	Drinking Water						3										
12	VAT-YAMW-3	Drinking Water						3										

RELINQUISHED BY / AFFILIATION
 JONATHAN [Signature] Arcadis
 DATE: 2/9/13 TIME: 0855

ACCEPTED BY / AFFILIATION
 JESSICA [Signature] Arcadis
 DATE: 2/9/13 TIME: 0730

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: JESSICA [Signature]
 SIGNATURE of SAMPLER: JESSICA [Signature]
 DATE Signed: 2/9/13

TEMP in C: _____

Received on Ice (Y/N): _____

Custody Sealed Cooler (Y/N): _____

Samples Intact (Y/N): _____



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

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mech...

Sample Condition Upon Receipt

Client Name:

GA Power

Project #:

WO#: 92651580

PM: BV

Due Date: 02/23/23

CLIENT: GA-GA Power

Courier: Commercial Fed Ex Pace UPS USPS Other: Client

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: 2/9/23 CSB

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: 2.1 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): 2.2

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:	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 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# : 92651580

PM: BV

Due Date: 02/23/23

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)	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-)	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	2	1																										
5	2	1																										
6	2	1																										
7	2	1																										
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:	
Company: GA Power	Address: Atlanta, GA	Report To: SCS Contacts	Copy To: Arcadis Contacts	Attention: Southern Co.	Company Name:
Email To: laucoker@southernco.com	Phone: 470.620.6176	Task No: YAT-CR-ASSMT-202351	Purchase Order #: Plant Yates AMA-RS	Address:	State / Location:
Requested Due Date: <u>5/17/23</u>	Fax:	Project Name: Plant Yates AMA-RS	Project Number:	Page Profile #: 10840	Georgia
				Page Quarter: Bonnie Yang	Regulatory Agency:

ITEM #	SAMPLE ID (4-2, 0-1, .-) Sample IDs must be unique	MATRIX Denking Vial Wash Vial Product Soxhlet OK Vials At Other Tubs	CODE DW WT WW P SL QA WP AN NI TS	COLLECTED		SAMPLE TEMP AT COLLECTION	PRESERVATIVES						ANALYSIS TEST	Residual Chlorine (Y/N)						
				START DATE	END DATE		# OF CONTAINERS	H2SO4	HNO3	HCl	NaOH	Na2S2O3			Methanol	Other	Y/N			
1	YAT-YGWC-23S			WG G			5	2	3											
2	YAT-YAMW-1			WG G	2/12/23	15:30		2	3											
3	YAT-YGWC-36A YAT-AMA-DE-FD-1			WG G	2/12/23	15:30		2	3											
4	YAT-YGWC-36A			WG G	2/12/23	15:10		2	3											
5	YAT-YGWC-49			WG G				2	3											
6	YAT-YGWC-38			WG G				2	3											
7	YAT-AMA-FD-2			WG G				2	3											
8	YAT-YGWC-41			WG G				2	3											
9	YAT-YGWC-42			WG G				2	3											
10	YAT-YGWC-43			WG G				2	3											
11	YAT-YAMW-2			WG G				2	3											
12	YAT-YAMW-3			WG G				2	3											

APPROVED BY / AFFILIATION		ACCEPTED BY / AFFILIATION		DATE		TIME	
<i>Kim Lipszanski</i> Arcadis		<i>Bonnie Yang</i> Southern Co.		2/10/23		12:00	
<i>Kim Lipszanski</i> Arcadis		<i>Bonnie Yang</i> Southern Co.		2/10/23		14:00	

W0#: 92651580
 PM: BV Due Date: 02/23/23
 CLIENT: GR-GR Power

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A		Section B		Section C	
Requested Client Information:		Requested Project Information:		Invoice Information:	
Company: GA Power	Address: Atlanta, GA	Report To: SCS Contacts	Copy To: Arcadis Contacts	Attention: Southern Co.	Company Name: Southern Co.
Email To: leucoker@southern.com	Phone: 470.620.6176	Task No: VAT-COR-ASBMT-20281	Purchase Order #: -	Address: -	State / Location: Georgia
Requested Due Date: 2/1/23	Fax: -	Project Name: Plant Yates AMA-R6	Project Number: -	Quote: -	Project Manager: Renaie Vans
				Price Profile #: 10840	

#	SAMPLE ID (A-Z, 0-9, /, -) One Character per box. Sample IDs must be unique	MATRIX	CODE	COLLECTED		SAMPLE TEMP AT COLLECTION	PRESERVATIVES							ANALYSES TEST	RESIDUAL CHLORINE (Y/N)			
				START DATE	END DATE		UNPRESERVED	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol			Other		
1	YAT-YAMW-4	Drinking Water	DW															
2	YAT-YAMW-5	Water	WT															
3	YAT-PZ-37	Waste Water	WW															
4	YAT-AMA-R6-FD-3	Product	P															
5	YAT-PZ-37D	Sewage	SL															
6	YAT-PZ-51	Other	OT															
7	YAT-PZ-52D	Air	AR															
8	YAT-PZ-35	Other	OT															
9	YAT-AMA-R6-EB-1	Thurs	TS															
10	YAT-AMA-R6-EB-2																	
11	YAT-AMA-R6-EB-1																	
12	YAT-AMA-R6-EB-2																	

ADDITIONAL COMMENTS		RELIQUISHED BY / AFFILIATION		ACCEPTED BY / AFFILIATION		DATE		TIME		DATE		TIME	
App II Melter: Boron 60208, Ca 6010D		[Signature]		[Signature]		2/10/23		1700		2/10/23		1400	
App IV Melter: Boron 60208, Ca 6010D		[Signature]		[Signature]		2/10/23		1700		2/10/23		1400	
App V Melter: Boron 60208, Ca 6010D		[Signature]		[Signature]		2/10/23		1700		2/10/23		1400	

W0#: 92651580

PM: BV Due Date: 02/23/23
 CLIENT: GR-GR Power

SAMPLER NAME AND SIGNATURE		PRINT Name of SAMPLER:	(Arcadis) - [Signature]	DATE Signed:	2/10/23
SIGNATURE OF SAMPLER:		(Arcadis) - [Signature]			

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

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:	
Company: GA Power	Address: Atlanta, GA	Report To: SCS Contacts	Copy To: Arcadis Contacts	Attention: Southern Co.	Company Name: Southern Co.
Email To: lisa.coker@southernco.com	Phone: 470.620.6176	Track No: VAT-CCR-4ASBMT-202351	Purchase Order #: VAT-CCR-4ASBMT-202351	Address:	Price Quote: <i>Bonnie Yang</i>
Requested Due Date: <i>5/10/23</i>	Fax: <i>770 747</i>	Project Name: Plant Yates AMA-R6	Project Number:	Price Project Manager: <i>Bonnie Yang</i>	Price Profile #: 10840
			Regulatory Agency: Georgia State Location:		

#	SAMPLE ID One Character per box. (A-Z, 0-9 /, -,) Sample IDs must be unique	MATRIX Drinking Water Waste Water Product Other	CODE DT WT WW P SL OL WSP AR OT TS	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives H2SO4 HNO3 HCl NaOH Na2S2O3 Methanol Other	Analytes Test Y/N	Requested Analyte: Filtered (Y/N)	Residual Chlorine (Y/N)	PH:
				START DATE	END DATE							
1	YAT-YAMW-4			WG	G		6 3 3					
2	YAT-YAMW-5			WG	G		6 3 3					
3	YAT-PZ37			WG	G		6 3 3					
4	YAT-AMA-R6-FD-3			WG	G		6 3 3					
5	YAT-PZ37D			WG	G		6 3 3					
6	YAT-PZ51			WG	G	2/19	6 3 3					
7	YAT-PZ52D			WG	G	1/6/21	6 3 3					
8	YAT-PZ35			WG	G		6 3 3					
9	YAT-AMA-R6-EB-1			WG	G		6 3 3					
10	YAT-AMA-R6-EB-2			WG	G	2/19/2025	6 3 3					
11	YAT-AMA-R6-FB-1			WG	G		6 3 3					
12	YAT-AMA-R6-FB-2			WG	G		6 3 3					

W0#: 92651580

PM: BV Due Date: 02/23/23

CLIENT: GA-GA Power

SAMPLER NAME AND SIGNATURE		DATE	TIME	DATE	TIME	TEMP in C	Received on ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: <i>Arcadis</i> SIGNATURE of SAMPLER: <i>Jessica Ware</i>		2/10/23	1400	2/10/23	1400				
PRINT Name of SAMPLER: <i>Arcadis</i> SIGNATURE of SAMPLER: <i>Bonnie Yang</i>									

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:
 Company: GA Power
 Address: Atlanta, GA
 Email To: laucoker@southern.com
 Phone: 470.620.6176 Fax: 470.620.6176
 Requested Due Date: STO TAT

Section B Required Project Information:
 Report To: SCS Contacts
 Copy To: Arcadis Contacts
 Task No: YAT-CCR-ASSMT-2023S1
 Purchase Order #:
 Project Name: Plant Yates AMA-R6
 Project Number:
 Invoice Information:
 Attention: Southern Co.
 Company Name:
 Address:
 Pace Quote:
 Pace Project Manager: Bonnie Yang
 Pace Profile #: 10840

Section C Regulatory Agency:
 Georgia

Page: 1 Of 1

ITEM #	SAMPLE ID (A-Z, 0-9 /, -,) Sample IDs must be unique	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test	Y/N	Requested Analytical Filtered (Y/N)	Residual Chlorine (Y/N)	PH:	
1	YAT-YGWC-23S	WG G	G						5	2								X	X	X	X	X	
2	YAT-YAMW-1	WG G	G						5	2								X	X	X	X	X	
3	YAT-AMA-FD-1	WG G	G						5	2								X	X	X	X	X	
4	YAT-YGWC-38A	WG G	G						5	2								X	X	X	X	X	
5	YAT-YGWC-49	WG G	G						5	2								X	X	X	X	X	
6	YAT-YGWC-38	WG G	G						5	2								X	X	X	X	X	
7	YAT-AMA-FD-2	WG G	G						5	2								X	X	X	X	X	
8	YAT-YGWC-41	WG G	G						5	2								X	X	X	X	X	
9	YAT-YGWC-42	WG G	G						5	2								X	X	X	X	X	
10	YAT-YGWC-43	WG G	G						5	2								X	X	X	X	X	
11	YAT-YAMW-2	WG G	G						5	2								X	X	X	X	X	
12	YAT-YAMW-3	WG G	G						5	2								X	X	X	X	X	

App III Metals: Boron (B), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se), 7040A: Mercury (Hg). Also add Ca, Na, K for this event.
 Alkalinity - report total, carbonate, and bicarbonate

Anton Paar 300.0 (Cl. F. Suite)

Additional Comments: None

RELINQUISHED BY / AFFILIATION: Mark Chest Arcadis DATE: 2/10/23 TIME: 1200

ACCEPTED BY / AFFILIATION: Thomas Lee Arcadis DATE: 2/10/23 TIME: 1400

Regulatory Agency: Georgia

SAAMPLER NAME AND SIGNATURE: Mark Chest Arcadis DATE SIGNED: 2/10/23

PRINT Name of SAMPLER: Mark Chest Arcadis

SIGNATURE of SAMPLER: Mark Chest Arcadis

TEMP in C: 91651580

Received on Ice (Y/N):

Custody Sealed Cooler (Y/N):

Samples Intact (Y/N):

MO#: 92651580

PM: BV Due Date: 02/23/23

CLIENT: GR-GA Power

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: of

Section A Required Client Information: Company: GA Power Address: Atlanta, GA Email To: lauckler@southernco.com Phone: 470 620 6176 Fax Requested Due Date: <i>START</i>		Section B Required Project Information: Report To: SCS Contacts Copy To: Arcadis Contacts Task No: YAT-CCR-ASBMT-202381 Purchase Order #: Project Name: Plant Yates AMA-R6 Project Number: Requested Analytical Method (Y/N): Georgia		Section C Invoice Information: Attention: Southern Co. Company Name: Address: Price Quote: Price Project Manager: Bonnie Vang Price Profile #: 10840 Regulatory Agency State / Location	
---	--	---	--	---	--

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / -) Sample ids must be unique	MATRIX		CODE		MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		DATE	DATE	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives						Analytes Test	Y/N	Residual Chlorine (Y/N)	PH:				
		Dinking Water	Water Yield	Prepared	Bundled			SW	WT					WV	PL	WP	AR	OT	TS					Unpreserved	H2SO4	HNO3	HCl
1	YAT-YGWC-23S					WG	G																				
2	YAT-YAMW-1					WG	G																				
3	YAT-AMA-FD-1					WG	G																				
4	YAT-YGWC-36A					WG	G																				
5	YAT-YGWC-49					WG	G																				
6	YAT-YGWC-38					WG	G																				
7	YAT-AMA-FD-2					WG	G																				
8	YAT-YGWC-41					WG	G																				
9	YAT-YGWC-42					WG	G																				
10	YAT-YGWC-43					WG	G																				
11	YAT-YAMW-2					WG	G																				
12	YAT-YAMW-3					WG	G																				

SAMPLER NAME AND SIGNATURE		DATE SIGNED	
PRINT NAME of SAMPLER: Jessica White SIGNATURE of SAMPLER: <i>Jessica White</i>		DATE Signed: 2/10/23	

App III Metals: Boron 60208, Ca 60100, Barium (Ba), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se), Toluene (Tol), Mercury (Hg). Also add Ca, Na, K for this event. Alkalinity - report total, carbonate, and bicarbonate.

Relinquished By / Affiliation: *Charles Hunt - Arcadis*
Date: *2/10/23*
Time: *1400*

Accepted By / Affiliation: *Charles Hunt - Arcadis*
Date: *2/10/23*
Time: *1408*

TEMP in C:

Received on Ice (Y/N):

Custody Sealed Cooler (Y/N):

Samples Intact (Y/N):

PH: *8.89* / *0.25*

92651586

Upgradient Wells

Georgia Power Co. – Plant Yates

Data Review Report

Metals, General Chemistry, and Radium Analyses

SDGs #92651382 and 92651421

Analyses Performed By:

Pace Analytical Services – Asheville, North Carolina

Pace Analytical Services – Peachtree Corners, Georgia

Pace Analytical Services – Greensburg, Pennsylvania

Report #49109R

Review Level: Tier II

Project: 30143607.3B

Summary

This Data Review Report summarizes the review of Sample Delivery Groups (SDGs) #92651382 and 92651421 for samples collected in association with the Georgia Power Company – Plant Yates. The review was conducted as a Tier II evaluation and included review of data package completeness. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the chain of custody form and a table summarizing the data validation qualifiers. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis		
					RAD	MET	GEN CHEM
YAT-YGWA-1I	92651382001 92651421001	Water	2/7/2023		X	X	X
YAT-YGWA-1D	92651382002 92651421002	Water	2/7/2023		X	X	X
YAT-YGWA-2I	92651382003 92651421003	Water	2/7/2023		X	X	X
YAT-GWA-2	92651382004 92651421004	Water	2/7/2023		X	X	X
YAT-YGWA-5D	92651382005 92651421005	Water	2/7/2023		X	X	X
YAT-YGWA-20S	92651382006 92651421006	Water	2/7/2023		X	X	X
YAT-YGWA-21I	92651382007 92651421007	Water	2/7/2023		X	X	X
YAT-YGWA-17S	92651382008 92651421008	Water	2/7/2023		X	X	X
YAT-YGWA-18S	92651382009 92651421009	Water	2/7/2023		X	X	X
YAT-YGWA-18I	92651382010 92651421010	Water	2/7/2023		X	X	X
YAT-YGWA-39	92651382011 92651421011	Water	2/7/2023		X	X	X
YAT-YGWA-47	92651382012 92651421012	Water	2/8/2023		X	X	X

Data Review Report

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis		
					RAD	MET	GEN CHEM
YAT-YGWA-30I	92651382013 92651421013	Water	2/8/2023		X	X	X
YAT-YGWA-14S	92651382014 92651421014	Water	2/8/2023		X	X	X
YAT-YGWA-3I	92651382015 92651421015	Water	2/8/2023		X	X	X
YAT-YGWA-3D	92651382016 92651421016	Water	2/8/2023		X	X	X
YAT-YGWA-40	92651382017 92651421017	Water	2/8/2023		X	X	X
YAT-YGWA-4I	92651382018 92651421018	Water	2/9/2023		X	X	X
YAT-YGWA-5I	92651382019 92651421019	Water	2/9/2023		X	X	X

Notes:

1. Metals and total dissolved solids (TDS) analysis performed by Pace Analytical Services – Peachtree Corners, Georgia.
2. Alkalinity and anions (chloride, fluoride, and sulfate) analysis performed by Pace Analytical Services – Asheville, North Carolina.
3. Radium analysis performed by Pace Analytical Services – Greensburg, Pennsylvania.
4. pH analysis performed as a field measurement.

Analytical Data Package Documentation

The table below evaluates the data package completeness.

Items Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Sample receipt condition		X		X	
2. Requested analyses and sample results		X		X	
3. Master tracking list		X		X	
4. Methods of analysis		X		X	
5. Reporting limits		X		X	
6. Sample collection date		X		X	
7. Laboratory sample received date		X		X	
8. Sample preservation verification (as applicable)		X		X	
9. Sample preparation/extraction/analysis dates		X		X	
10. Fully executed chain-of-custody form		X		X	
11. Narrative summary of QA or sample problems provided		X		X	
12. Data package completeness and compliance		X		X	

Note:

QA = quality assurance

Inorganic Analysis Introduction

Analyses were performed according to United States Environmental Protection Agency (USEPA) SW-846 Methods 6010D, 6020B, 7470A, 9315, and 9320; Standard Method (SM) SM4500-H+ B, SM2540C, and SM2320B; and USEPA Method 300.0. Data were reviewed in accordance with USEPA Region IV Data Validation Standard Operating Procedures for Contract Laboratory Program Inorganic Data by Inductively Coupled Plasma–Atomic Emission Spectroscopy and Inductively Coupled Plasma–Mass Spectroscopy (September 2011, Rev. 2), USEPA Region IV Data Validation Standard Operating Procedures for Contract Laboratory Program Mercury Data by Cold Vapor Atomic Absorption (September 2011, Rev. 2), and the USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review, EPA 542-R-20-006, November 2020 (with reference to the historical USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review, OSWER 9240.1-45, October 2004, as appropriate).

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and that it was already subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with the USEPA National Functional Guidelines:

- Concentration (C) Qualifiers
 - U The analyte was analyzed for but not detected. The associated value is the analyte instrument detection limit.
 - J The reported value was obtained from a reading less than the reporting limit (RL), but greater than or equal to the method detection limit (MDL).
- Quantitation (Q) Qualifiers
 - E The reported value is estimated due to the presence of interference.
 - N Spiked sample recovery is not within control limits.
 - * Duplicate analysis is not within control limits.
- Validation Qualifiers
 - J The analyte was positively identified; however, the associated numerical value is an estimated concentration only.
 - UJ The analyte was not detected above the reporting limit. However, the reported limit is approximate and may or may not represent the actual limit of detection.
 - UB Analyte considered non-detect at the listed value due to associated blank contamination.
 - R The sample results are rejected.

Data Review Report

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

Metals Analyses

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 6010D/6020B	Water	180 days from collection to analysis	Cool to <6°C; preserved to a pH of less than 2 s.u.
SW-846 7470A	Water	28 days from collection to analysis	Cool to <6°C; preserved to a pH of less than 2 s.u.

Note:

s.u. = standard units

All samples were analyzed within the specified holding times.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Analytes were not detected above the MDL in the associated blanks; therefore, detected sample results were not associated with blank contamination.

3. Matrix Spike/Matrix Spike Duplicate (MS/MSD)/Laboratory Duplicate Analysis

MS/MSD and laboratory duplicate data are used to assess the precision and accuracy of the analytical method.

3.1 MS/MSD Analysis

All metal analytes must exhibit a percent recovery within the established acceptance limits of 75% to 125%. The MS recovery control limits do not apply for MS performed on sample locations where the analyte's concentration detected in the parent sample exceeds the MS concentration by a factor of four or greater.

The MS/MSD analysis was performed using sample YAT-YGWA-2I in association with SW-846 6010D analysis, however the concentrations of calcium and sodium in the unspiked sample were greater than four-times the spike concentration. The MS/MSD sample results were not evaluated.

The MS/MSD analysis performed using sample YAT-YGWA-211 in association with SW-846 6020B analysis exhibited recoveries within the control limits.

MS/MSD analysis was not performed using a sample from this SDG in association with SW-846 7470A analysis.

3.2 Laboratory Duplicate Analysis

The laboratory duplicate relative percent difference (RPD) criterion is applied when parent and duplicate sample concentrations are greater than or equal to 5 times the RL. A control limit of 20% for water matrices is applied when the criteria above is true. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of one times the RL is applied for water matrices.

MS/MSD analysis was performed in replacement of the laboratory duplicate analysis in association with SW-846 6010D and SW-846 6020B. The MS/MSD recoveries exhibited acceptable RPDs.

Laboratory duplicate or MS/MSD analysis was not performed using a sample from this SDG in association with SW-846 7470A analysis.

4. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 35% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices.

A field duplicate sample was not collected in association with this SDG.

5. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the accuracy of the analytical method independent of matrix interferences. The analytes associated with the LCS analysis must exhibit a percent recovery between the control limits of 80% and 120%.

The LCS analysis exhibited recoveries within the control limits.

6. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist for Metals

METALS: SW-846 6010D/6020B/7470A	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
Inductively Coupled Plasma-Atomic Emission Spectrometry (ICP-AES) Inductively Coupled Plasma-Mass Spectrometry (ICP-MS) Atomic Absorption – Manual Cold Vapor (CV)					
Tier II Validation					
Holding Times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method Blanks		X		X	
B. Equipment/Field Blanks	X				X
Laboratory Control Sample (LCS) %R		X		X	
Matrix Spike (MS) %R		X		X	
Matrix Spike Duplicate (MSD) %R		X		X	
MS/MSD Precision (RPD)		X		X	
Laboratory Duplicate (RPD)	X				X
Field Duplicate (RPD)	X				X

Notes:

%R Percent recovery

RPD Relative percent difference

General Chemistry Analyses

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
pH by SM4500-H+ B	Water	ASAP	Cool to <6°C
Total Dissolved Solids (TDS) by SM2540C	Water	7 days from collection to analysis	Cool to <6°C
Alkalinity by SM2320B	Water	14 days from collection to analysis	Cool to <6°C
Chloride, Fluoride, and Sulfate by USEPA 300.0	Water	28 days from collection to analysis	Cool to <6°C

All samples were analyzed within the specified holding times.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Analytes were not detected above the MDL in the associated blanks; therefore, detected sample results were not associated with blank contamination.

3. Matrix Spike/Matrix Spike Duplicate (MS/MSD)/Laboratory Duplicate Analysis

MS/MSD and laboratory duplicate data are used to assess the precision and accuracy of the analytical method.

3.1 MS/MSD Analysis

All analytes must exhibit a percent recovery within the established acceptance limits of 75% to 125%. The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the analyte's concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater. In instance where this is true, the data will not be qualified even if the percent recovery does not meet the control limits and the laboratory flag will be removed.

The MS/MSD analysis performed using samples YAT-YGWA-1I, YAT-YGWA-1D, YAT-YGWA-4I, and YAT-YGWA-5I in association with alkalinity analysis exhibited recoveries within the control limits.

The MS/MSD analysis performed using samples YAT-YGWA-18I and YAT-YGWA-3I in association with anions analysis exhibited recoveries within the control limits.

3.2 Laboratory Duplicate Analysis

The laboratory duplicate relative percent difference (RPD) criterion is applied when parent and duplicate sample concentrations are greater than or equal to 5 times the RL. A control limit of 20% for water matrices is applied when the criteria above is true. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of one times the RL is applied for water matrices.

The laboratory duplicate analysis performed using samples YAT-YGWA-17S and YAT-YGWA-47 in association with TDS analysis exhibited an RPD or difference in the results within the control limit.

MS/MSD analysis was performed in replacement of the laboratory duplicate analysis in association with alkalinity and anions. The MS/MSD recoveries exhibited acceptable RPDs.

4. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 35% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices.

A field duplicate sample was not collected in association with this SDG.

5. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the accuracy of the analytical method independent of matrix interferences. The analytes associated with the LCS analysis must exhibit a percent recovery between the control limits of 80% and 120%.

The LCS analysis exhibited recoveries within the control limits.

6. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist for General Chemistry

General Chemistry: SM4500-H+ B, SM2540C, SM2540C, USEPA 300.0	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
Miscellaneous Instrumentation					
Tier II Validation					
Holding Times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method Blanks		X		X	
B. Equipment/Field Blanks	X				X
Laboratory Control Sample (LCS) %R		X		X	
Matrix Spike (MS) %R		X		X	
Matrix Spike Duplicate (MSD) %R		X		X	
MS/MSD Precision (RPD)		X		X	
Laboratory Duplicate (RPD)		X		X	
Field Duplicate (RPD)	X				X

Notes:

%R Percent recovery

RPD Relative percent difference

Radiological Analyses

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
Radium-226 by SW-846 9315	Water	180 days from collection to analysis	Preserved to a pH of less than 2 s.u.
Radium-228 by SW-846 9320	Water	180 days from collection to analysis	Preserved to a pH of less than 2 s.u.

Note:

s.u. = standard units

All samples were analyzed within the specified holding times.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and field/rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Field/rinse blanks measure contamination of samples during field operations.

Blank results should be verified to be accurately reported and that tolerance limits (± 2 sigma or standard deviation) were not exceeded; and blank results verified to be less than the minimum detectable concentration (MDC).

For blanks to be considered not applicable, verify net blank results are less than the associated uncertainty by evaluating the blank results based on the following three criteria. If either of these criteria is true, the blank is considered not suspect of contamination (or non-detect).

1. Is the blank result less than the uncertainty and less than the MDC?
2. Does the blank have an uncertainty greater than the result (or indistinguishable from background) or does the blank result fall between its uncertainty and its MDC?

If the blank QC results fall outside the appropriate tolerance limits or if the net blank results are not less than the associated uncertainty, the following equation for normalized absolute difference (NAD) should be used in determining the effect of possible blank contamination on the sample results:

$$\text{Normalized absolute difference}_{\text{MethodBlank}} = \frac{| \text{Sample} - \text{Blank} |}{\sqrt{(U_{\text{Sample}})^2 + (U_{\text{Blank}})^2}}$$

Where:

U_{Sample} = uncertainty of the sample

U_{Blank} = uncertainty of the blank

Sample = concentration of isotope in sample

Blank = concentration of isotope in blank

Normalized Absolute Difference	Qualification
> 2.58	None
1.96 > x < 2.58	J
x < 1.96	J*

Note:

* = Minimally the result should be qualified as estimated, J; however, if other quality indicators are deficient the validator may determine the result should be qualified as rejected, R

Radium-226 was detected in the method blank, however, the activity was measured as less than the uncertainty and MDC. Hence, the blank results are considered non-detect and no qualification of the results was required.

Radium-228 was detected in the method blank at an activity greater than the uncertainty and MDC. The NAD was calculated for each sample. The Radium-228 results in samples YAT-GWA-2, YAT-YGWA-5D, YAT-YGWA-21I, YAT-YGWA-39, YAT-YGWA-3I, and YAT-YGWA-3D were qualified as “J” since the NAD were less than 1.96. No qualifiers were assigned to the Radium-228 results in samples YAT-YGWA-1I, YAT-YGWA-1D, YAT-YGWA-2I, YAT-YGWA-20S, YAT-YGWA-17S, YAT-YGWA-18S, YAT-YGWA-18I, YAT-YGWA-47, YAT-YGWA-30I, and YAT-YGWA-14S since the activities were less than the MDC.

3. Matrix Spike (MS)/Laboratory Duplicate Analysis

MS and laboratory duplicate data are used to assess the precision and accuracy of the analytical method.

3.1 MS Analysis

MS samples are not typically analyzed for gamma spectral content due to the inability of the laboratory to homogenize spike material with the sample.

If performed, the spike analysis must exhibit a percent recovery within the control limits of 70% to 130%. The MS recovery control limits do not apply for MS performed on sample locations where the analyte’s concentration detected in the parent sample exceeds the MS concentration by a factor of four or greater. In instance where this is true, the data will not be qualified even if the percent recovery does not meet the control limits.

In the event the recovery is outside of this limit, a numerical indicator to make assessments is calculated, with a limit of < ±3 sigma for either.

The numerical performance indicator for a matrix spike sample is calculated by:

$$Z_{MS} = \frac{x - x_0 - c}{\sqrt{u^2(x) + u^2(x_0) + u^2(c)}}$$

Where:

x = measured concentration of the spiked sample.

x₀ = measured concentration of the unspiked sample.

c = spike concentration added.

$u^2(x)$, $u^2(x_0)$, $u^2(c)$ = the squares of the respective standard uncertainties of these values.

MS performance for all matrices is acceptable when the numerical performance indicator calculation yields a value between ± 3 sigma. Warning limits have been established as ± 2 sigma.

MS analysis was not performed using a sample from this SDG.

3.2 Laboratory Duplicate Analysis

Duplicate analyses are indicators of laboratory precision based on each sample matrix. For replicate analysis results to be considered in agreement the duplicate error ratio (DER) must be less than 2.13. In the event the DER is outside of the limit of 2.13, a numerical indicator to make assessments is calculated, with a limit of ± 3 sigma or standard deviation.

The numerical performance indicator for laboratory duplicates is calculated by:

$$Z_{Dup} = \frac{x_1 - x_2}{\sqrt{u^2(x_1) + u^2(x_2)}}$$

Where:

x_1 , x_2 = two measured activity concentrations.

$u^2(x_1)$, $u^2(x_2)$ = the combined standard uncertainty of each measurement squared.

Duplicate sample performance is acceptable when the numerical performance indicator calculation yields a value between ± 3 sigma. Warning limits have been established as ± 2 sigma.

Laboratory duplicate analysis was not performed using a sample from this SDG.

4. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. There are no specific review criteria for radiological field replicate analyses comparability. The degree of agreement between these replicates is to be used in conjunction with all of the remaining quality control results as an aid in the decision as to the overall quality of the data. Data are not to be qualified due to field replicates alone. To determine the level of agreement between the replicates, the following guidelines have been established:

Data should be considered in agreement if results are within a factor of four of each other. Data between a factor of four and five of each other should be considered as a minor discrepancy and data greater than a factor of five should be considered a major discrepancy.

A field duplicate sample was not collected in association with this SDG.

5. Tracer or Carrier

Tracers and carriers are used in radiological separation methods to provide evaluation of chemical separation. Chemical yield is evaluated through the recovery of chemical species spiked into samples. Yield is evaluated

radiometrically with a tracer and gravimetrically with a carrier. A control limit of 30% to 110% is applied to each sample spiked with either a carrier and/or a tracer.

The tracer and carrier analyses exhibited recoveries within the control limits.

6. Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) Analysis

The LCS/LCSD analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The analytes associated with the LCS/LCSD analysis must exhibit a percent recovery between the control limits of 60% to 135%. In the event the recovery is outside of this limit, a numerical indicator to make assessments is calculated, with a limit of +/- 3 sigma.

The numerical performance indicator for a laboratory control sample is calculated by:

$$Z_{LCS} = \frac{x - c}{\sqrt{u^2(x) + u^2(c)}}$$

Where:

x = Analytical result of the LCS

c = Known concentration of the LCS

$u^2(x)$ = combined standard uncertainty of the result squared.

$u^2(c)$ = combined standard uncertainty of the LCS value squared.

LCS performance is acceptable when the numerical performance indicator calculation yields a value between ± 3 sigma. Warning limits have been established as ± 2 sigma.

The LCS/LCSD analysis exhibited recoveries within the control limits.

7. Isotope Identification

For sample results to be considered “non-detect”, evaluate data based on the following two criteria. If either one of these criteria is true, the sample result is considered “non-detect”.

1. Sample result is less than the uncertainty and less than the MDC/MDA; or
2. Sample has an uncertainty greater than the result (or indistinguishable from background) or result falls between its uncertainty and its MDC/MDA.

Based on the above criteria sample results should be considered non-detect as follows:

- YAT-GWA-2 – Radium-226
- YAT-YGWA-4I – Radium-228
- YAT-YGWA-1I, YAT-YGWA-1D, YAT-YGWA-2I, YAT-YGWA-20S, YAT-YGWA-17S, YAT-YGWA-18S, YAT-YGWA-18I, YAT-YGWA-47, YAT-YGWA-30I, YAT-YGWA-14S, YAT-YGWA-5I – Radium-226, Radium-228, and total Radium

8. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist for Radiologicals

Radiologicals: SW-846 9315/9320	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
Miscellaneous Instrumentation					
Tier II Validation					
Holding Times		X		X	
Activity, +/- uncertainty, MDC/MDA		X		X	
Blanks					
A. Method Blanks		X	X		
B. Equipment/Field Blanks	X				X
Carrier (Surrogate) %R		X		X	
Tracer (Surrogate) %R		X		X	
Laboratory Control Sample (LCS) %R		X		X	
Laboratory Control Sample Duplicate (LCSD) %R		X		X	
LCS/LCSD Precision (RPD)		X		X	
Matrix Spike (MS) %R	X				X
Matrix Spike Duplicate (MSD) %R	X				X
MS/MSD Precision (RPD)	X				X
Laboratory Duplicate (RPD)	X				X
Field Duplicate (RPD)	X				X

Notes:

%R Percent recovery

RPD Relative percent difference

VALIDATION PERFORMED BY: Jennifer Singer

SIGNATURE: 

DATE: April 24, 2023

PEER REVIEW: Joseph C. Houser

DATE: May 8, 2023

Chain of Custody / Data Qualifier Summary Table

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:

Company: GA Power

Address: Atlanta, GA

Email To: laucocker@southernco.com

Phone: 470.620.6176 | Fax: _____

Requested Due Date: Standard TAT

Section B

Required Project Information:

Report To: SCS Contacts

Copy To: Arcadis Contacts

Task No: YAT-CCR-ASSMT-202391

Purchase Order #: _____

Project Name: Plant Yates Pooled Upgradient

Project Number: _____

Section C

Invoice Information:

Attention: Southern Co.

Company Name: _____

Address: _____

Pace Quote: _____

Pace Project Manager: Nicola D'Olea

Pace Profile #: 10840

Page :	Of 1
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ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 /, -) Sample ids must be unique	MATRIX Drinking Water Water Waste Water Product Soil/Sediment Oil Wipe Air Other Tissue	CODE DW WT WW P SL OL WP AR OT TS	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives						Analysis Test App III/IV Metals + Ca, Na, K Cl, F, SO4 TDS (25-40C) RAD 9315/9320 Alkalinity (SM2320B) App I / II (appsum only)	Requested Analyte Filtered (Y/N)	Residual Chlorine (Y/N)					
				START		END				Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3				Methanol	Other			
				DATE	TIME	DATE	TIME																
1	YAT-YGWA-39	WG	G					6	3	3													
2	YAT-YGWA-40	WG	G					6	3	3													
3	YAT-YGWA-11	WG	G	2/7/23	1145			6	3	3													
4	YAT-YGWA-1D	WG	G	2/7/23	1340			6	3	3													
5	YAT-YGWA-2I	WG	G	2/7/23	1540			6	3	3													
6	YAT-YGWA-3I	WG	G					6	3	3													
7	YAT-YGWA-3D	WG	G					6	3	3													
8																							
9																							
10																							
11																							
12																							

92651421

pH: _____

pH: _____

pH: 6.53 601

pH: 7.86 052

pH: 6.94 053

pH: _____

pH: _____

pH: _____

pH: _____

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	<u>Jake Swanson / Arcadis</u>	<u>2/8/23</u>	<u>0900</u>	<u>Michael Awo</u>	<u>2/8/23</u>	<u>0300</u>	
App III Metals: Boron 6020B, Ca 6010D; App VII 6020B: Zn, Ag, Ni, V	<u>Ryan Williams / Pace</u>	<u>2/8/23</u>	<u>0900</u>	<u>Ryan Williams / Pace</u>	<u>2/8/23</u>	<u>0900</u>	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg). Also add Ca, Na, K for this event. Alkalinity - report total, carbonate, and bicarbonate	<u>Ryan Williams / Pace</u>	<u>2/8/23</u>	<u>1240</u>				

SAMPLER NAME AND SIGNATURE		TEMP in C	Received on (Date)	CUSTODY Sealed (Y/N)	Cooler (Y/N)	Samples intact (Y/N)
PRINT Name of SAMPLER:	(Arcadis) - <u>Jake Swanson</u>					
SIGNATURE of SAMPLER:	(Arcadis) - <u>JJ</u>	DATE Signed: <u>2/8/23</u>				

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: Company: GA Power Address: Atlanta, GA Email To: laucoker@southemco.com Phone: 470.620.6176 Fax Requested Due Date: <u>Std TAT</u>	Section B Required Project Information: Report To: SCS Contacts Copy To: Arcadis Contacts Task No: YAT-CCR-ASSMT-2023S1 Purchase Order #: _____ Project Name: Plant Yates Pooled Upgradient Project Number: _____	Section C Invoice Information: Attention: Southern Co. Company Name: _____ Address: _____ Pace Quote: _____ Pace Project Manager: <u>Nicole D'Orto (Connie King)</u> Pace Profile #: 10840
		Page: 1 Of 1
		Regulatory Agency State / Location Georgia

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 /, -) Sample IDs must be unique	MATRIX Driving Water Water Waste Water Product Solid/Solid Oil Wipe Air Other Tissue	CODE DW WT WW P SL OL WP AR OT TS	MATRIX CODE (see valid codes to left) SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Y/N Analysis Test	Requested Analytes Filtered (Y/N)						Residual Chlorine (Y/N)	pH:	
					START DATE	START TIME	END DATE	END TIME			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol		Other	App IIIIV Metals + Ca, Na, K	Cl, F, SO4	TDS (2540C)	RAD 931599320	Alkalinity (SM2320B)			App I/II (ppysum only)
1	YAT-YGWA-47	WG	G			--	--		6	3	3						X	X	X	X	X	X					
2	YAT-GWA-2	WG	G			--	--		6	3	3						X	X	X	X	X	X					
3	YAT-YGWA-41	WG	G			--	--		6	3	3						X	X	X	X	X	X					
4	YAT-YGWA-51	WG	G			--	--		6	3	3						X	X	X	X	X	X					
5	YAT-YGWA-5D	WG	G			2/7/23	16:22		6	3	3						X	X	X	X	X	X					pH: 6.64 005
6	YAT-YGWA-17S	WG	G			--	--		6	3	3						X	X	X	X	X	X					
7	YAT-YGWA-18S	WG	G			--	--		6	3	3						X	X	X	X	X	X					
8	YAT-YGWA-18I	WG	G			--	--		6	3	3						X	X	X	X	X	X					
9	YAT-YGWA-20S	WG	G			2/7/23	14:50		6	3	3						X	X	X	X	X	X					pH: 5.63 006
10	YAT-YGWA-21I	WG	G			2/7/23	12:54		6	3	3						X	X	X	X	X	X					pH: 6.82 007
11	YAT-YGWA-30I	WG	G			--	--		6	3	3						X	X	X	X	X	X					
12	YAT-YGWA-14S	WG	G			--	--		6	3	3						X	X	X	X	X	X					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Antons Suite 300.0 (Cl, F, Sulfate)	<u>Kim Lap</u> / Arcadis	2/8/23	0800	<u>Moll</u>	2/8/23	0800	
App III Metals: Boron 6020B, Ca 6010D; App VII 6020B: Zn, Ag, Ni, V	<u>Kim Lap</u>	2/8/23	0900	Ryan Williams / Pac	2/8/23	0900	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg). Also add Ca, Na, K for this event. Alkalinity - report total, carbonate, and bicarbonate	Ryan Williams / Pac	2/8/23	1240				

SAMPLER NAME AND SIGNATURE		TEMP in C	Received on bag (Y/N)	Custody Sealed (Y/N)	Cooler (Y/N)	Samples intact (Y/N)
PRINT Name of SAMPLER: <u>Kim Lap</u>						
SIGNATURE of SAMPLER: <u>Kim Lap</u>						
		DATE Signed: <u>2/8/23</u>				

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:	
Company: GA Power	Report To: SCS Contacts	Attention: Southern Co.	
Address: Atlanta, GA	Copy To: Arcadis Contacts	Company Name:	
	Task No: YAT-CCR-ASSMT-202351	Address:	
Email To: laucoker@southernco.com	Purchase Order #:	Pace Quote:	
Phone: 470.620.6176 Fax	Project Name: Plant Yates Pooled Upgradient	Pace Project Manager: Nicole DeOleo <i>Bonnie Vang</i>	Regulatory Agency
Requested Due Date: <i>Sid YAT</i>	Project Number:	Pace Profile #: 10840	State / Location
			Georgia

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample ids must be unique	MATRIX CODE (see vial codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	PRESERVATIVES								ANALYSES TEST Y/N	Residual Chlorine (Y/N)								
				START		END			# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol			Other							
				DATE	TIME	DATE	TIME																			
1	YAT-YGWA-47	WG	G	-	-	-	-	6	3	3								X	X	X	X	X	X			
2	YAT-GWA-2	WG	G	-	-	-	-	6	3	3									X	X	X	X	X	X		
3	YAT-YGWA-4I	WG	G	-	-	-	-	6	3	3									X	X	X	X	X	X		
4	YAT-YGWA-5I	WG	G	-	-	-	-	6	3	3									X	X	X	X	X	X		
5	YAT-YGWA-5D	WG	G	-	-	-	-	6	3	3									X	X	X	X	X	X		
6	YAT-YGWA-17S	WG	G	2/7/23	1116	-	-	6	3	3									X	X	X	X	X	X		
7	YAT-YGWA-18S	WG	G	2/7	1348	-	-	6	3	3									X	X	X	X	X	X		
8	YAT-YGWA-18I	WG	G	2/7	1231	-	-	6	3	3									X	X	X	X	X	X		
9	YAT-YGWA-20S	WG	G	-	-	-	-	6	3	3									X	X	X	X	X	X		
10	YAT-YGWA-21I	WG	G	-	-	-	-	6	3	3									X	X	X	X	X	X		
11	YAT-YGWA-30I	WG	G	-	-	-	-	6	3	3									X	X	X	X	X	X		
12	YAT-YGWA-14S	WG	G	-	-	-	-	6	3	3									X	X	X	X	X	X		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	<i>Jessica Ware / Arcadis</i>	2/8/23	0800	<i>William Ryan / Pace</i>	2/7/23	0200	
App III Metals: Boron 6020B, Ca 6010D; App VII 6020B: Zn, Ag, Ni, V	<i>William Ryan / Pace</i>	2/3/23	0900	<i>Ryan William / Pace</i>	2/9/23	0900	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se)	<i>Ryan William / Pace</i>	2/8/23	1240				
7040A: Mercury (Hg). Also add Ca, Na, K for this event. Alkalinity - report total, carbonate, and bicarbonate							

SAMPLER NAME AND SIGNATURE		TEMP in C	Received on (Y/N)	Custody Sealed (Y/N)	Cooler (Y/N)	Samples intact (Y/N)
PRINT Name of SAMPLER: <i>Jessica Ware - Arcadis</i>						
SIGNATURE of SAMPLER: <i>Jessica Ware (Arcadis)</i>	DATE Signed: <i>2/8/23</i>					

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:
 Company: GA Power
 Address: Atlanta, GA
 Email To: laucoker@southernco.com
 Phone: 470.620.6176 Fax
 Requested Due Date:

Section B

Required Project Information:
 Report To: SCS Contacts
 Copy To: Arcadis Contacts
 Task No: YAT-CCR-ASSMT-202391
 Purchase Order #:
 Project Name: Plant Yates Pooled Upgradient
 Project Number:

Section C

Invoice Information:
 Attention: Southern Co.
 Company Name:
 Address:
 Pace Quote:
 Pace Project Manager: Nicole D'Oleo
 Pace Profile #: 10840

Page : 2 of 2

ITEM #	SAMPLE ID <small>One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique</small>	MATRIX <small>Drinking Water Water Waste Water Product Soil/Solid D Wipe Air Other Tissue</small>	CODE <small>OW WT WW P SL OL WP AR OT TS</small>	COLLECTED				SAMPLE TEMP AT COLLECTION	Preservatives							Y/N	Requested Analytes Filtered (Y/N)						Residual Chlorine (Y/N)			
				START		END			# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3		Methanol	Other	App III/IV Metals + Ca, Na, K Cl, F, SO4	TDS (2540C)	RAD 93159320	Alkalinity (SM2320B)		App 1/II (gypsum only)		
				DATE	TIME	DATE	TIME																			
1	YAT-YGWA-39	WG	G	2/7	1615	--	--		6	3	3							X	X	X	X	X				pH: 5.49 ovl
2	YAT-YGWA-40	WG	G			--	--		6	3	3							X	X	X	X	X				pH:
3	YAT-YGWA-11	WG	G			--	--		6	3	3							X	X	X	X	X				pH:
4	YAT-YGWA-1D	WG	G			--	--		6	3	3							X	X	X	X	X				pH:
5	YAT-YGWA-2I	WG	G			--	--		6	3	3							X	X	X	X	X				pH:
6	YAT-YGWA-3I	WG	G			--	--		6	3	3							X	X	X	X	X				pH:
7	YAT-YGWA-3D	WG	G			--	--		6	3	3							X	X	X	X	X				pH:
8						--	--																			pH:
9						--	--																			pH:
10						--	--																			pH:
11						--	--																			pH:
12						--	--																			pH:

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	Jessica Ware / Arcadis	2/8/23	0800	William Ryan / Pac	2/8/23	0800	
App III Metals: Boron 6020B, Ca 6010D; App VII 6020B: Zn, Ag, Ni, V	William Ryan / Pac	2/8/23	0900	Ryan William / Pac	2/9/23	0900	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg). Also add Ca, Na, K for this event. Alkalinity - report total, carbonate, and bicarbonate	Ryan William / Pac	2/8/23	1240				

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: (Arcadis) Jessica Ware
 SIGNATURE of SAMPLER: (Arcadis) *Jessica Ware* DATE Signed: 2/8/23

TEMP In C
 Received on Ice (Y/N)
 Custody Sealed Cooler (Y/N)
 Samples intact (Y/N)

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:

Company: GA Power
Address: Atlanta, GA
Email To: laucoker@southernco.com
Phone: 470.620.6176 **Fax:**
Requested Due Date: *STO TAT*

Section B

Required Project Information:

Report To: SCS Contacts
Copy To: Arcadis Contacts
Task No: YAT-CCR-ASSMT-202351
Purchase Order #:
Project Name: Plant Yates Pooled Upgradient
Project Number:

Section C

Invoice Information:

Attention: Southern Co.
Company Name:
Address:
Pace Quote:
Pace Project Manager: Nicole D'Oleo
Pace Profile #: 10840

Page : Of

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9, /, -) Sample ids must be unique	MATRIX Drinking Water Water Waste Water Product SoftSolid Oil Wipe Air Other Tissue	CODE DW W1 WW P SL OL WP AR OT TS	MATRIX CODE (see veld codes to left)	SAMPLE TYPE (S-GWA, C-COM, P)	COLLECTED				SAMPLE TEMP AT COLLECTION	PRESERVATIVES									# OF CONTAINERS	ANALYSIS TESTS							Residual Chlorine (Y/N)
						START DATE	START TIME	END DATE	END TIME		Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methano	Other	App II/IV Metals + Ca, Na, K		CL.F. SO4	TDS (2540C)	FOAD 63159330	Alkalinity (SM2320B)	App I/II (gypsum only)			
1	YAT-YGWA-47			WG	G	2/13/23	1752					6	3	3						X	X	X	X	X	X		pH: <i>5.22</i>	
2	YAT-GWA-2			WG	G							6	3	3						X	X	X	X	X	X		pH:	
3	YAT-YGWA-4I			WG	G							6	3	3						X	X	X	X	X	X		pH:	
4	YAT-YGWA-5I			WG	G							6	3	3						X	X	X	X	X	X		pH:	
5	YAT-YGWA-5D			WG	G							6	3	3						X	X	X	X	X	X		pH:	
6	YAT-YGWA-17S			WG	G							6	3	3						X	X	X	X	X	X		pH:	
7	YAT-YGWA-18S			WG	G							6	3	3						X	X	X	X	X	X		pH:	
8	YAT-YGWA-18I			WG	G							6	3	3						X	X	X	X	X	X		pH:	
9	YAT-YGWA-20S			WG	G							6	3	3						X	X	X	X	X	X		pH:	
10	YAT-YGWA-21I			WG	G							6	3	3						X	X	X	X	X	X		pH:	
11	YAT-YGWA-30I			WG	G							6	3	3						X	X	X	X	X	X		pH:	
12	YAT-YGWA-14S			WG	G							6	3	3						X	X	X	X	X	X		pH:	

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION		DATE		TIME		ACCEPTED BY / AFFILIATION		DATE		TIME		SAMPLE CONDITIONS
	NAME	COMPANY	DATE	TIME	NAME	COMPANY	DATE	TIME	DATE	TIME			
Anions Suite 300.0 (Cl, F, Sulfate)	<i>Ryan Williams</i>	Arcadis	2/9/23	0920	<i>Ryan Williams</i>	Pace	2/9/23	0920					
App III Metals: Boron 6020B, Ca 6010D; App VII 6020B: Zn, Ag, Ni, V	<i>Ryan Williams</i>	Pace	2/9/23	1235	<i>Charles Hanks</i>		2/9/23	1235					
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg). Also add Ca, Na, K for this event. Alkalinity - report total, carbonate, and bicarbonate													

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:	SIGNATURE of SAMPLER:				
	<i>Marie Chrest - Arcadis</i>				
	<i>Ryan Williams</i>	DATE Signed:	<i>2/9/23</i>		

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:		
Company: GA Power		Report To: SCS Contacts			Attention: Southern Co.		
Address: Atlanta, GA		Copy To: Arcadis Contacts			Company Name:		
Email To: laucoker@southernco.com		Task No: YAT-CCR-ASSMT-2023ST			Address:		
Phone: 470.620.6176		Purchase Order #:			Pace Quote:		
Requested Due Date: 5/27/24		Project Name: Plant Yates Pooled Upgradient			Pace Project Manager: Nicole O'Neil KONG VANS		
		Project Number:			Pace Profile #: 10840		
Page: 1 Of 1							

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / . -) Sample IDs must be unique	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (S-ORAS C-COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								ANALYSIS TEST Y/N	App II/IV Metals + Ca, Na, K C.I.F. SO4 TDS (25-40C) RAD 93159320 Alkalinity (SMC320B) App I/II (gypsum only)	Residual Chlorine (Y/N)				
				START		END				Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other							
				DATE	TIME	DATE	TIME																	
1	YAT-YGWA-39	WG	G					6	3							X	X	X	X	X				
2	YAT-YGWA-40	WG	G	2/8/23	1202			6	3							X	X	X	X	X				pH: pH: 5.71 OPA
3	YAT-YGWA-11	WG	G					6	3							X	X	X	X	X				pH:
4	YAT-YGWA-1D	WG	G					6	3							X	X	X	X	X				pH:
5	YAT-YGWA-2I	WG	G					6	3							X	X	X	X	X				pH:
6	YAT-YGWA-3I	WG	G					6	3							X	X	X	X	X				pH:
7	YAT-YGWA-3D	WG	G					6	3							X	X	X	X	X				pH:
8																								pH:
9																								pH:
10																								pH:
11																								pH:
12																								pH:

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS	
Anions Suite 300.0 (Cl, F, Sulfate)	M. Williams / Arcadis	2/9/23	0900	M. Williams / Arcadis	2/9/23	0900		
App III Metals: Boron 6020B, Ca 6010D; App III 8020B: Zn, Ag, Ni, V	Kim Lapczynski / Arcadis	2/9/23	0920	Kyan Williams / Proc	2/9/23	0900		
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se), 7040A: Mercury (Hg). Also add Ca, Na, K for this event. Alkalinity - report total, carbonate, and bicarbonate	Kyan Williams / Proc	2/9/23	1235	Charles Heale	2/9/23	1235		

SAMPLER NAME AND SIGNATURE		TEMP in C	Received on	Sealed	Cooler	Samples intact
PRINT Name of SAMPLER:						
SIGNATURE of SAMPLER: (Arcadis) <i>M. Williams</i> DATE Signed: 2/9/23						

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: Company: GA Power Address: Atlanta, GA Email To: laucoker@southernco.com Phone: 470.620.6176 Fax Requested Due Date: SKI TAR	Section B Required Project Information: Report To: SCS Contacts Copy To: Arcadis Contacts Task No: YAT-CCR-ASSMT-202351 Purchase Order #: Project Name: Plant Yates Pooled Upgradient Project Number:	Section C Invoice Information: Attention: Southern Co. Company Name: Address: Pace Quote: Pace Project Manager: Nicole D'Glecco Pace Profile #: 10840 SMARIE VANA	Page : Of
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ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / . -) Sample ids must be unique	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	Preservatives													Residual Chlorine (Y/N)						
				START		END			# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Y/N	App III/IV Metals • Ca, Na, K	Cl, F, SO4	TDS (2540C)		RAD 9315R9320	Alkalinity (SM2320B)	App I/II (gypsum only)			
				DATE	TIME	DATE	TIME																					
1	YAT-YGWA-47	WG	G					6	3	3									X	X	X	X	X				pH:	
2	YAT-GWA-2	WG	G					6	3	3									X	X	X	X	X	X				pH:
3	YAT-YGWA-41	WG	G					6	3	3									X	X	X	X	X				pH: 6.23 018	
4	YAT-YGWA-51	WG	G					6	3	3									X	X	X	X	X				pH: 5.90 119	
6	YAT-YGWA-5D	WG	G					6	3	3									X	X	X	X	X				pH:	
8	YAT-YGWA-17S	WG	G					6	3	3									X	X	X	X	X				pH:	
7	YAT-YGWA-18S	WG	G					6	3	3									X	X	X	X	X				pH:	
8	YAT-YGWA-18I	WG	G					6	3	3									X	X	X	X	X				pH:	
9	YAT-YGWA-20S	WG	G					6	3	3									X	X	X	X	X				pH:	
10	YAT-YGWA-21I	WG	G					6	3	3									X	X	X	X	X				pH:	
11	YAT-YGWA-30I	WG	G					6	3	3									X	X	X	X	X				pH:	
12	YAT-YGWA-14S	WG	G					6	3	3									X	X	X	X	X				pH:	
ADDITIONAL COMMENTS		RELIQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS																		
Anions Suite 300.0 (Cl, F, Sulfate) App III Metals: Boron 8020B, Ca 8010D; App I/II 6020B: Zn, Ag, Ni, V		<i>Kim Kapszynski</i> / Arcadis		2/10/23	1700	<i>Charles Frank</i> / Arcadis		2/10/23	1200																			
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg). Also add Ca, Na, K for this event. Alkalinity - report total, carbonate, and bicarbonate		<i>Kim Kapszynski</i> / Arcadis		2/10/23	1400	<i>Charles Frank</i> / Arcadis		2/10/23	1400																			

WO#: 92651382

PM: BV Due Date: 02/22/23
 CLIENT: GA-GA Power

SAMPLER NAME AND SIGNATURE	
PRINT Name of SAMPLER:	<i>Kim Kapszynski</i>
SIGNATURE of SAMPLER:	<i>Kim Kim</i>
DATE Signed:	2/10/23

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

SDG	Sample ID	Method	Analyte	Result	Units	Validation Qualifier	Reason for Validation Qualifier
92651382	No qualifiers assigned						
92651421	YAT-GWA-2	SW846 9320	Radium-228	0.749 +/- 0.364	pCi/L	J	Blank contamination
	YAT-YGWA-5D	SW846 9320	Radium-228	1.68 +/- 0.524	pCi/L	J	Blank contamination
	YAT-YGWA-21I	SW846 9320	Radium-228	1.07 +/- 0.475	pCi/L	J	Blank contamination
	YAT-YGWA-39	SW846 9320	Radium-228	0.707 +/- 0.366	pCi/L	J	Blank contamination
	YAT-YGWA-3I	SW846 9320	Radium-228	0.775 +/- 0.381	pCi/L	J	Blank contamination
	YAT-YGWA-3D	SW846 9320	Radium-228	1.72 +/- 0.524	pCi/L	J	Blank contamination

Abbreviations:

pCi/L = picoCuries per liter

Qualifiers:

J = estimated result

April 13, 2023

Ms. Lauren Petty
Southern Company
42 Inverness Center Parkway
Birmingham, AL 35242

RE: Project: Plant Yates Pooled Upgrad RADS
Pace Project No.: 92651421

Dear Ms. Petty:

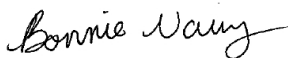
Enclosed are the analytical results for sample(s) received by the laboratory between February 08, 2023 and February 10, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where 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: Joju Abraham, Georgia Power-CCR
Lauren Coker, Georgia Pwer
Noelia Gangi, Georgia Power
Geoffrey Gay, ARCADIS - Atlanta
Ben Hodges, Georgia Power-CCR
Kristen Jurinko
Laura Midkiff, Georgia Power
Kelley Sharpe, ARCADIS - Atlanta
Alex Simpson, Arcadis
Michael Smilley, Georgia Power
Becky Steever, Arcadis
Tina Sullivan, ERM

Albert Zumbuhl, Arcadis



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
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CERTIFICATIONS

Project: Plant Yates Pooled Upgrad RADS
Pace Project No.: 92651421

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 Yates Pooled Upgrad RADS

Pace Project No.: 92651421

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92651421001	YAT-YGWA-1I	Water	02/07/23 11:45	02/08/23 09:00
92651421002	YAT-YGWA-1D	Water	02/07/23 13:40	02/08/23 09:00
92651421003	YAT-YGWA-2I	Water	02/07/23 15:40	02/08/23 09:00
92651421004	YAT-GWA-2	Water	02/07/23 11:48	02/08/23 09:00
92651421005	YAT-YGWA-5D	Water	02/07/23 16:22	02/08/23 09:00
92651421006	YAT-YGWA-20S	Water	02/07/23 14:50	02/08/23 09:00
92651421007	YAT-YGWA-21I	Water	02/07/23 12:48	02/08/23 09:00
92651421008	YAT-YGWA-17S	Water	02/07/23 11:16	02/08/23 09:00
92651421009	YAT-YGWA-18S	Water	02/07/23 13:48	02/08/23 09:00
92651421010	YAT-YGWA-18I	Water	02/07/23 12:31	02/08/23 09:00
92651421011	YAT-YGWA-39	Water	02/07/23 16:15	02/08/23 09:00
92651421012	YAT-YGWA-47	Water	02/08/23 17:02	02/09/23 12:35
92651421013	YAT-YGWA-30I	Water	02/08/23 15:10	02/09/23 12:35
92651421014	YAT-YGWA-14S	Water	02/08/23 13:50	02/09/23 12:35
92651421015	YAT-YGWA-3I	Water	02/08/23 10:00	02/09/23 12:35
92651421016	YAT-YGWA-3D	Water	02/08/23 11:40	02/09/23 12:35
92651421017	YAT-YGWA-40	Water	02/08/23 12:02	02/09/23 12:35
92651421018	YAT-YGWA-4I	Water	02/09/23 09:55	02/10/23 14:00
92651421019	YAT-YGWA-5I	Water	02/09/23 11:26	02/10/23 14:00

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Plant Yates Pooled Upgrad RADS

Pace Project No.: 92651421

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92651421001	YAT-YGWA-1I	EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92651421002	YAT-YGWA-1D	EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92651421003	YAT-YGWA-2I	EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92651421004	YAT-GWA-2	EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92651421005	YAT-YGWA-5D	EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92651421006	YAT-YGWA-20S	EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92651421007	YAT-YGWA-21I	EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92651421008	YAT-YGWA-17S	EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92651421009	YAT-YGWA-18S	EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92651421010	YAT-YGWA-18I	EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92651421011	YAT-YGWA-39	EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92651421012	YAT-YGWA-47	EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92651421013	YAT-YGWA-30I	EPA 9315	RMS	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Plant Yates Pooled Upgrad RADS
Pace Project No.: 92651421

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92651421014	YAT-YGWA-14S	EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
92651421015	YAT-YGWA-3I	Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92651421016	YAT-YGWA-3D	EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	RMS	1	PASI-PA
92651421017	YAT-YGWA-40	EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
92651421018	YAT-YGWA-4I	Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92651421019	YAT-YGWA-5I	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

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SUMMARY OF DETECTION

Project: Plant Yates Pooled Upgrad RADS
Pace Project No.: 92651421

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92651421001	YAT-YGWA-1I					
EPA 9315	Radium-226	0.154 ± 0.213 (0.464) C:91% T:NA	pCi/L		03/02/23 08:32	
EPA 9320	Radium-228	0.507 ± 0.358 (0.686) C:76% T:84%	pCi/L		02/28/23 12:41	
Total Radium Calculation	Total Radium	0.661 ± 0.571 (1.15)	pCi/L		03/02/23 15:06	
92651421002	YAT-YGWA-1D					
EPA 9315	Radium-226	0.282 ± 0.218 (0.382) C:89% T:NA	pCi/L		03/02/23 08:32	
EPA 9320	Radium-228	0.638 ± 0.374 (0.676) C:78% T:86%	pCi/L		02/28/23 16:06	
Total Radium Calculation	Total Radium	0.920 ± 0.592 (1.06)	pCi/L		03/02/23 15:06	
92651421003	YAT-YGWA-2I					
EPA 9315	Radium-226	0.0443 ± 0.127 (0.314) C:93% T:NA	pCi/L		03/02/23 08:32	
EPA 9320	Radium-228	0.492 ± 0.308 (0.559) C:81% T:89%	pCi/L		02/28/23 16:06	
Total Radium Calculation	Total Radium	0.536 ± 0.435 (0.873)	pCi/L		03/02/23 15:06	
92651421004	YAT-GWA-2					
EPA 9315	Radium-226	0.254 ± 0.191 (0.314) C:94% T:NA	pCi/L		03/02/23 08:32	
EPA 9320	Radium-228	0.749 ± 0.364 (0.596) C:81% T:82%	pCi/L		02/28/23 16:06	
Total Radium Calculation	Total Radium	1.00 ± 0.555 (0.910)	pCi/L		03/02/23 15:06	

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SUMMARY OF DETECTION

Project: Plant Yates Pooled Upgrad RADS
Pace Project No.: 92651421

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92651421005	YAT-YGWA-5D					
EPA 9315	Radium-226	2.31 ± 0.576 (0.258)	pCi/L		03/02/23 08:32	
EPA 9320	Radium-228	C:91% T:NA 1.68 ± 0.524 (0.615)	pCi/L		02/28/23 16:06	
Total Radium Calculation	Total Radium	C:84% T:81% 3.99 ± 1.10 (0.873)	pCi/L		03/02/23 15:06	
92651421006	YAT-YGWA-20S					
EPA 9315	Radium-226	0.123 ± 0.145 (0.290)	pCi/L		03/02/23 08:33	
EPA 9320	Radium-228	C:102% T:NA 0.671 ± 0.421 (0.801)	pCi/L		02/28/23 16:06	
Total Radium Calculation	Total Radium	C:81% T:87% 0.794 ± 0.566 (1.09)	pCi/L		03/02/23 15:06	
92651421007	YAT-YGWA-21I					
EPA 9315	Radium-226	0.457 ± 0.228 (0.252)	pCi/L		03/02/23 08:33	
EPA 9320	Radium-228	C:98% T:NA 1.07 ± 0.475 (0.795)	pCi/L		02/28/23 16:06	
Total Radium Calculation	Total Radium	C:82% T:81% 1.53 ± 0.703 (1.05)	pCi/L		03/02/23 15:06	
92651421008	YAT-YGWA-17S					
EPA 9315	Radium-226	-0.135 ± 0.0961 (0.402)	pCi/L		03/02/23 08:33	
EPA 9320	Radium-228	C:94% T:NA 0.367 ± 0.403 (0.846)	pCi/L		02/28/23 16:06	
Total Radium Calculation	Total Radium	C:79% T:88% 0.367 ± 0.499 (1.25)	pCi/L		03/02/23 15:06	

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SUMMARY OF DETECTION

Project: Plant Yates Pooled Upgrad RADS

Pace Project No.: 92651421

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92651421009	YAT-YGWA-18S					
EPA 9315	Radium-226	0.0706 ± 0.136 (0.314) C:93% T:NA	pCi/L		03/02/23 08:33	
EPA 9320	Radium-228	0.585 ± 0.433 (0.859) C:80% T:89%	pCi/L		02/28/23 16:06	
Total Radium Calculation	Total Radium	0.656 ± 0.569 (1.17)	pCi/L		03/02/23 15:06	
92651421010	YAT-YGWA-18I					
EPA 9315	Radium-226	0.0453 ± 0.136 (0.339) C:87% T:NA	pCi/L		03/02/23 08:33	
EPA 9320	Radium-228	0.440 ± 0.347 (0.687) C:81% T:91%	pCi/L		02/28/23 16:07	
Total Radium Calculation	Total Radium	0.485 ± 0.483 (1.03)	pCi/L		03/02/23 15:06	
92651421011	YAT-YGWA-39					
EPA 9315	Radium-226	0.700 ± 0.299 (0.345) C:94% T:NA	pCi/L		03/02/23 08:33	
EPA 9320	Radium-228	0.707 ± 0.366 (0.629) C:77% T:90%	pCi/L		02/28/23 16:07	
Total Radium Calculation	Total Radium	1.41 ± 0.665 (0.974)	pCi/L		03/02/23 15:06	
92651421012	YAT-YGWA-47					
EPA 9315	Radium-226	0.146 ± 0.149 (0.267) C:88% T:NA	pCi/L		03/02/23 08:33	
EPA 9320	Radium-228	0.229 ± 0.339 (0.731) C:71% T:84%	pCi/L		02/28/23 16:07	
Total Radium Calculation	Total Radium	0.375 ± 0.488 (0.998)	pCi/L		03/02/23 15:06	

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SUMMARY OF DETECTION

Project: Plant Yates Pooled Upgrad RADS
Pace Project No.: 92651421

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92651421013	YAT-YGWA-30I					
EPA 9315	Radium-226	-0.00593 ± 0.0878 (0.274) C:92% T:NA	pCi/L		03/02/23 08:33	
EPA 9320	Radium-228	0.417 ± 0.354 (0.703) C:73% T:89%	pCi/L		02/28/23 16:07	
Total Radium Calculation	Total Radium	0.417 ± 0.442 (0.977)	pCi/L		03/02/23 15:06	
92651421014	YAT-YGWA-14S					
EPA 9315	Radium-226	0.0964 ± 0.190 (0.439) C:85% T:NA	pCi/L		03/01/23 20:01	
EPA 9320	Radium-228	0.734 ± 0.414 (0.749) C:79% T:83%	pCi/L		02/28/23 16:07	
Total Radium Calculation	Total Radium	0.830 ± 0.604 (1.19)	pCi/L		03/02/23 15:06	
92651421015	YAT-YGWA-3I					
EPA 9315	Radium-226	0.402 ± 0.235 (0.311) C:93% T:NA	pCi/L		03/01/23 20:03	
EPA 9320	Radium-228	0.775 ± 0.381 (0.638) C:75% T:88%	pCi/L		02/28/23 16:07	
Total Radium Calculation	Total Radium	1.18 ± 0.616 (0.949)	pCi/L		03/02/23 15:06	
92651421016	YAT-YGWA-3D					
EPA 9315	Radium-226	1.02 ± 0.369 (0.322) C:91% T:NA	pCi/L		03/01/23 20:04	
EPA 9320	Radium-228	1.72 ± 0.524 (0.622) C:78% T:92%	pCi/L		02/28/23 16:07	
Total Radium Calculation	Total Radium	2.74 ± 0.893 (0.944)	pCi/L		03/02/23 15:06	

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SUMMARY OF DETECTION

Project: Plant Yates Pooled Upgrad RADS
Pace Project No.: 92651421

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92651421017	YAT-YGWA-40					
EPA 9315	Radium-226	0.450 ± 0.200 (0.230)	pCi/L		03/03/23 09:54	
EPA 9320	Radium-228	C:98% T:NA 1.11 ± 0.501 (0.817)	pCi/L		02/28/23 17:08	
Total Radium Calculation	Total Radium	C:78% T:85% 1.56 ± 0.701 (1.05)	pCi/L		03/06/23 14:37	
92651421018	YAT-YGWA-41					
EPA 9315	Radium-226	0.698 ± 0.253 (0.228)	pCi/L		03/03/23 09:54	
EPA 9320	Radium-228	C:93% T:NA 0.419 ± 0.399 (0.815)	pCi/L		02/28/23 17:09	
Total Radium Calculation	Total Radium	C:75% T:88% 1.12 ± 0.652 (1.04)	pCi/L		03/06/23 14:37	
92651421019	YAT-YGWA-51					
EPA 9315	Radium-226	0.0549 ± 0.0861 (0.185)	pCi/L		03/03/23 09:54	
EPA 9320	Radium-228	C:94% T:NA 0.0266 ± 0.380 (0.881)	pCi/L		02/28/23 17:09	
Total Radium Calculation	Total Radium	C:78% T:83% 0.0815 ± 0.466 (1.07)	pCi/L		03/06/23 14:37	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Pooled Upgrad RADS

Pace Project No.: 92651421

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: YAT-YGWA-11 Lab ID: 92651421001 Collected: 02/07/23 11:45 Received: 02/08/23 09:00 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.154 ± 0.213 (0.464) C:91% T:NA	pCi/L	03/02/23 08:32	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.507 ± 0.358 (0.686) C:76% T:84%	pCi/L	02/28/23 12:41	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.661 ± 0.571 (1.15)	pCi/L	03/02/23 15:06	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Pooled Upgrad RADS

Pace Project No.: 92651421

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: YAT-YGWA-1D Lab ID: 92651421002 Collected: 02/07/23 13:40 Received: 02/08/23 09:00 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.282 ± 0.218 (0.382) C:89% T:NA	pCi/L	03/02/23 08:32	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.638 ± 0.374 (0.676) C:78% T:86%	pCi/L	02/28/23 16:06	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.920 ± 0.592 (1.06)	pCi/L	03/02/23 15:06	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Pooled Upgrad RADS

Pace Project No.: 92651421

Sample: YAT-YGWA-2I **Lab ID: 92651421003** Collected: 02/07/23 15:40 Received: 02/08/23 09:00 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	0.0443 ± 0.127 (0.314) C:93% T:NA	pCi/L	03/02/23 08:32	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.492 ± 0.308 (0.559) C:81% T:89%	pCi/L	02/28/23 16:06	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.536 ± 0.435 (0.873)	pCi/L	03/02/23 15:06	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Pooled Upgrad RADS

Pace Project No.: 92651421

Sample: YAT-GWA-2 **Lab ID: 92651421004** Collected: 02/07/23 11:48 Received: 02/08/23 09:00 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	0.254 ± 0.191 (0.314) C:94% T:NA	pCi/L	03/02/23 08:32	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.749 ± 0.364 (0.596) C:81% T:82%	pCi/L	02/28/23 16:06	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.00 ± 0.555 (0.910)	pCi/L	03/02/23 15:06	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Pooled Upgrad RADS

Pace Project No.: 92651421

Sample: YAT-YGWA-5D **Lab ID: 92651421005** Collected: 02/07/23 16:22 Received: 02/08/23 09:00 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	2.31 ± 0.576 (0.258) C:91% T:NA	pCi/L	03/02/23 08:32	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.68 ± 0.524 (0.615) C:84% T:81%	pCi/L	02/28/23 16:06	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	3.99 ± 1.10 (0.873)	pCi/L	03/02/23 15:06	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Pooled Upgrad RADS

Pace Project No.: 92651421

Sample: YAT-YGWA-20S **Lab ID: 92651421006** Collected: 02/07/23 14:50 Received: 02/08/23 09:00 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	0.123 ± 0.145 (0.290) C:102% T:NA	pCi/L	03/02/23 08:33	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.671 ± 0.421 (0.801) C:81% T:87%	pCi/L	02/28/23 16:06	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.794 ± 0.566 (1.09)	pCi/L	03/02/23 15:06	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Pooled Upgrad RADS

Pace Project No.: 92651421

Sample: YAT-YGWA-211 **Lab ID: 92651421007** Collected: 02/07/23 12:48 Received: 02/08/23 09:00 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	0.457 ± 0.228 (0.252) C:98% T:NA	pCi/L	03/02/23 08:33	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.07 ± 0.475 (0.795) C:82% T:81%	pCi/L	02/28/23 16:06	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.53 ± 0.703 (1.05)	pCi/L	03/02/23 15:06	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Pooled Upgrad RADS

Pace Project No.: 92651421

Sample: YAT-YGWA-17S **Lab ID: 92651421008** Collected: 02/07/23 11:16 Received: 02/08/23 09:00 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	-0.135 ± 0.0961 (0.402) C:94% T:NA	pCi/L	03/02/23 08:33	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.367 ± 0.403 (0.846) C:79% T:88%	pCi/L	02/28/23 16:06	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.367 ± 0.499 (1.25)	pCi/L	03/02/23 15:06	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Pooled Upgrad RADS

Pace Project No.: 92651421

Sample: YAT-YGWA-18S **Lab ID: 92651421009** Collected: 02/07/23 13:48 Received: 02/08/23 09:00 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	0.0706 ± 0.136 (0.314) C:93% T:NA	pCi/L	03/02/23 08:33	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.585 ± 0.433 (0.859) C:80% T:89%	pCi/L	02/28/23 16:06	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.656 ± 0.569 (1.17)	pCi/L	03/02/23 15:06	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Pooled Upgrad RADS

Pace Project No.: 92651421

Sample: YAT-YGWA-18I **Lab ID: 92651421010** Collected: 02/07/23 12:31 Received: 02/08/23 09:00 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	0.0453 ± 0.136 (0.339) C:87% T:NA	pCi/L	03/02/23 08:33	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.440 ± 0.347 (0.687) C:81% T:91%	pCi/L	02/28/23 16:07	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.485 ± 0.483 (1.03)	pCi/L	03/02/23 15:06	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Pooled Upgrad RADS

Pace Project No.: 92651421

Sample: YAT-YGWA-39 **Lab ID: 92651421011** Collected: 02/07/23 16:15 Received: 02/08/23 09:00 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	0.700 ± 0.299 (0.345) C:94% T:NA	pCi/L	03/02/23 08:33	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.707 ± 0.366 (0.629) C:77% T:90%	pCi/L	02/28/23 16:07	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.41 ± 0.665 (0.974)	pCi/L	03/02/23 15:06	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Pooled Upgrad RADS

Pace Project No.: 92651421

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: YAT-YGWA-47 Lab ID: 92651421012 Collected: 02/08/23 17:02 Received: 02/09/23 12:35 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.146 ± 0.149 (0.267) C:88% T:NA	pCi/L	03/02/23 08:33	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.229 ± 0.339 (0.731) C:71% T:84%	pCi/L	02/28/23 16:07	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.375 ± 0.488 (0.998)	pCi/L	03/02/23 15:06	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Pooled Upgrad RADS

Pace Project No.: 92651421

Sample: YAT-YGWA-301 **Lab ID: 92651421013** Collected: 02/08/23 15:10 Received: 02/09/23 12:35 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	-0.00593 ± 0.0878 (0.274) C:92% T:NA	pCi/L	03/02/23 08:33	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.417 ± 0.354 (0.703) C:73% T:89%	pCi/L	02/28/23 16:07	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.417 ± 0.442 (0.977)	pCi/L	03/02/23 15:06	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Pooled Upgrad RADS

Pace Project No.: 92651421

Sample: YAT-YGWA-14S **Lab ID: 92651421014** Collected: 02/08/23 13:50 Received: 02/09/23 12:35 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	0.0964 ± 0.190 (0.439) C:85% T:NA	pCi/L	03/01/23 20:01	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.734 ± 0.414 (0.749) C:79% T:83%	pCi/L	02/28/23 16:07	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.830 ± 0.604 (1.19)	pCi/L	03/02/23 15:06	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Pooled Upgrad RADS

Pace Project No.: 92651421

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: YAT-YGWA-3I Lab ID: 92651421015 Collected: 02/08/23 10:00 Received: 02/09/23 12:35 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.402 ± 0.235 (0.311) C:93% T:NA	pCi/L	03/01/23 20:03	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.775 ± 0.381 (0.638) C:75% T:88%	pCi/L	02/28/23 16:07	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.18 ± 0.616 (0.949)	pCi/L	03/02/23 15:06	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Pooled Upgrad RADS

Pace Project No.: 92651421

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: YAT-YGWA-3D Lab ID: 92651421016 Collected: 02/08/23 11:40 Received: 02/09/23 12:35 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	1.02 ± 0.369 (0.322) C:91% T:NA	pCi/L	03/01/23 20:04	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.72 ± 0.524 (0.622) C:78% T:92%	pCi/L	02/28/23 16:07	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	2.74 ± 0.893 (0.944)	pCi/L	03/02/23 15:06	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Pooled Upgrad RADS

Pace Project No.: 92651421

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: YAT-YGWA-40 Lab ID: 92651421017 Collected: 02/08/23 12:02 Received: 02/09/23 12:35 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.450 ± 0.200 (0.230) C:98% T:NA	pCi/L	03/03/23 09:54	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.11 ± 0.501 (0.817) C:78% T:85%	pCi/L	02/28/23 17:08	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.56 ± 0.701 (1.05)	pCi/L	03/06/23 14:37	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Pooled Upgrad RADS

Pace Project No.: 92651421

Sample: YAT-YGWA-4I **Lab ID: 92651421018** Collected: 02/09/23 09:55 Received: 02/10/23 14:00 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	0.698 ± 0.253 (0.228) C:93% T:NA	pCi/L	03/03/23 09:54	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.419 ± 0.399 (0.815) C:75% T:88%	pCi/L	02/28/23 17:09	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.12 ± 0.652 (1.04)	pCi/L	03/06/23 14:37	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Pooled Upgrad RADS

Pace Project No.: 92651421

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: YAT-YGWA-5I Lab ID: 92651421019 Collected: 02/09/23 11:26 Received: 02/10/23 14:00 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.0549 ± 0.0861 (0.185) C:94% T:NA	pCi/L	03/03/23 09:54	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.0266 ± 0.380 (0.881) C:78% T:83%	pCi/L	02/28/23 17:09	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.0815 ± 0.466 (1.07)	pCi/L	03/06/23 14:37	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Yates Pooled Upgrad RADS

Pace Project No.: 92651421

QC Batch: 567031

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92651421001, 92651421002, 92651421003, 92651421004, 92651421005, 92651421006, 92651421007, 92651421008, 92651421009, 92651421010, 92651421011, 92651421012, 92651421013, 92651421014, 92651421015, 92651421016

METHOD BLANK: 2753389

Matrix: Water

Associated Lab Samples: 92651421001, 92651421002, 92651421003, 92651421004, 92651421005, 92651421006, 92651421007, 92651421008, 92651421009, 92651421010, 92651421011, 92651421012, 92651421013, 92651421014, 92651421015, 92651421016

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0316 ± 0.106 (0.272) C:91% T:NA	pCi/L	03/02/23 10:00	

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: Plant Yates Pooled Upgrad RADS

Pace Project No.: 92651421

QC Batch: 567129

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92651421017, 92651421018, 92651421019

METHOD BLANK: 2754449

Matrix: Water

Associated Lab Samples: 92651421017, 92651421018, 92651421019

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.353 ± 0.207 (0.369) C:83% T:82%	pCi/L	03/03/23 11:44	

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: Plant Yates Pooled Upgrad RADS

Pace Project No.: 92651421

QC Batch:	567128	Analysis Method:	EPA 9315
QC Batch Method:	EPA 9315	Analysis Description:	9315 Total Radium
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92651421017, 92651421018, 92651421019

METHOD BLANK: 2754448 Matrix: Water

Associated Lab Samples: 92651421017, 92651421018, 92651421019

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.113 ± 0.105 (0.185) C:106% T:NA	pCi/L	03/03/23 09:54	

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: Plant Yates Pooled Upgrad RADS

Pace Project No.: 92651421

QC Batch: 567032

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92651421001, 92651421002, 92651421003, 92651421004, 92651421005, 92651421006, 92651421007, 92651421008, 92651421009, 92651421010, 92651421011, 92651421012, 92651421013, 92651421014, 92651421015, 92651421016

METHOD BLANK: 2753395

Matrix: Water

Associated Lab Samples: 92651421001, 92651421002, 92651421003, 92651421004, 92651421005, 92651421006, 92651421007, 92651421008, 92651421009, 92651421010, 92651421011, 92651421012, 92651421013, 92651421014, 92651421015, 92651421016

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.623 ± 0.341 (0.611) C:84% T:91%	pCi/L	02/28/23 12:40	

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 Yates Pooled Upgrad RADS

Pace Project No.: 92651421

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 Yates Pooled Upgrad RADS
Pace Project No.: 92651421

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92651421001	YAT-YGWA-1I	EPA 9315	567031		
92651421002	YAT-YGWA-1D	EPA 9315	567031		
92651421003	YAT-YGWA-2I	EPA 9315	567031		
92651421004	YAT-GWA-2	EPA 9315	567031		
92651421005	YAT-YGWA-5D	EPA 9315	567031		
92651421006	YAT-YGWA-20S	EPA 9315	567031		
92651421007	YAT-YGWA-21I	EPA 9315	567031		
92651421008	YAT-YGWA-17S	EPA 9315	567031		
92651421009	YAT-YGWA-18S	EPA 9315	567031		
92651421010	YAT-YGWA-18I	EPA 9315	567031		
92651421011	YAT-YGWA-39	EPA 9315	567031		
92651421012	YAT-YGWA-47	EPA 9315	567031		
92651421013	YAT-YGWA-30I	EPA 9315	567031		
92651421014	YAT-YGWA-14S	EPA 9315	567031		
92651421015	YAT-YGWA-3I	EPA 9315	567031		
92651421016	YAT-YGWA-3D	EPA 9315	567031		
92651421017	YAT-YGWA-40	EPA 9315	567128		
92651421018	YAT-YGWA-4I	EPA 9315	567128		
92651421019	YAT-YGWA-5I	EPA 9315	567128		
92651421001	YAT-YGWA-1I	EPA 9320	567032		
92651421002	YAT-YGWA-1D	EPA 9320	567032		
92651421003	YAT-YGWA-2I	EPA 9320	567032		
92651421004	YAT-GWA-2	EPA 9320	567032		
92651421005	YAT-YGWA-5D	EPA 9320	567032		
92651421006	YAT-YGWA-20S	EPA 9320	567032		
92651421007	YAT-YGWA-21I	EPA 9320	567032		
92651421008	YAT-YGWA-17S	EPA 9320	567032		
92651421009	YAT-YGWA-18S	EPA 9320	567032		
92651421010	YAT-YGWA-18I	EPA 9320	567032		
92651421011	YAT-YGWA-39	EPA 9320	567032		
92651421012	YAT-YGWA-47	EPA 9320	567032		
92651421013	YAT-YGWA-30I	EPA 9320	567032		
92651421014	YAT-YGWA-14S	EPA 9320	567032		
92651421015	YAT-YGWA-3I	EPA 9320	567032		
92651421016	YAT-YGWA-3D	EPA 9320	567032		
92651421017	YAT-YGWA-40	EPA 9320	567129		
92651421018	YAT-YGWA-4I	EPA 9320	567129		
92651421019	YAT-YGWA-5I	EPA 9320	567129		
92651421001	YAT-YGWA-1I	Total Radium Calculation	571130		
92651421002	YAT-YGWA-1D	Total Radium Calculation	571130		
92651421003	YAT-YGWA-2I	Total Radium Calculation	571130		
92651421004	YAT-GWA-2	Total Radium Calculation	571130		
92651421005	YAT-YGWA-5D	Total Radium Calculation	571130		
92651421006	YAT-YGWA-20S	Total Radium Calculation	571130		
92651421007	YAT-YGWA-21I	Total Radium Calculation	571130		
92651421008	YAT-YGWA-17S	Total Radium Calculation	571130		
92651421009	YAT-YGWA-18S	Total Radium Calculation	571130		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Yates Pooled Upgrad RADS
Pace Project No.: 92651421

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92651421010	YAT-YGWA-18I	Total Radium Calculation	571130		
92651421011	YAT-YGWA-39	Total Radium Calculation	571130		
92651421012	YAT-YGWA-47	Total Radium Calculation	571130		
92651421013	YAT-YGWA-30I	Total Radium Calculation	571130		
92651421014	YAT-YGWA-14S	Total Radium Calculation	571130		
92651421015	YAT-YGWA-3I	Total Radium Calculation	571130		
92651421016	YAT-YGWA-3D	Total Radium Calculation	571130		
92651421017	YAT-YGWA-40	Total Radium Calculation	571751		
92651421018	YAT-YGWA-4I	Total Radium Calculation	571751		
92651421019	YAT-YGWA-5I	Total Radium Calculation	571751		

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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 Mech

Sample Condition Upon Receipt

Client Name: GA Power

Project #:

WO#: 92651421



Courier: Fed Ex UPS USPS Client Commercial Pace Other:

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: 2/8/23
COU

Packing Material: Bubble Wrap Bubble Bags None Other

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

Biological Tissue Frozen? Yes No N/A

Cooler Temp: 4.7 Correction Factor: +0.1 Add/Subtract (°C)

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

Cooler Temp Corrected (°C): 4.8

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 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

CLIENT NOTIFICATION/RESOLUTION

Lot ID of split containers:

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, 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-)	WGJU-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		X																								
2		2	1		X																								
3		2	1		X																								
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		Section B		Section C	
Required Client Information:		Required Project Information:		Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
Email To:	laucoker@southernco.com	Task No:	YAT-CCR-433MT-202391	Address:	
Phone:	470 620 6176	Purchase Order #:		Facility:	
Requested Due Date:	Standard YAT	Project Name:	Plant Yates Pooled Upgradient	Plant Project Manager:	Miguelo D. Jones
		Project Number:		Plant Profile #:	10840
				State / Location:	Georgia

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 /, -) Sample IDs must be unique	MATRIX	CODE	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives						Analysis Test	Residual Chlorine (Y/N)				
				START DATE	END DATE			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3			Methanol	Other		
1	YAT-YGWA-39	Drinking Water	OW				6												
2	YAT-YGWA-40	Waste Water	WW				6												
3	YAT-YGWA-1	Waste Water	WW				6												
4	YAT-YGWA-1D	Product	P				6												
5	YAT-YGWA-2I	Oil	OL				6												
6	YAT-YGWA-3I	Other	OR				6												
7	YAT-YGWA-3D	Tissue	OT				6												
8																			
9																			
10																			
11																			
12																			

ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE		TIME		ACCEPTED BY / AFFILIATION		DATE		TIME		SAMPLE CONDITIONS	
Actions Site 300.0 (Cl, F, Sulfate)		Jake Swanson		2/18/23		0800		Miguelo Jones		2/18/23		0800			
App III Metals: Boron 6020B, Ca 6010D, App III 6020B, Zn, Ag, Ni, V		Ryan Williams		2/18/23		0500		Ryan Williams		2/18/23		0900			
App IV Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A, Mercury (Hg). Also add Ca, Na, K for this event. Alkalinity - report total, carbonate, and bicarbonate		Ryan Williams		2/9/23		1240									

SAMPLER NAME AND SIGNATURE	
PRINT Name of SAMPLER:	(Arcadis) Jake Swanson
SIGNATURE of SAMPLER:	<i>Jake Swanson</i>
DATE Signed:	2/18/23

Page: 1 Of 1



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: GA Power

Project #:

WO#: 92651421

PM: BV

Due Date: 03/01/23

CLIENT: GA-GA Power

Courier: Commercial Fed Ex Pace UPS USPS Other: Client

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: 2/8/23 [Signature]

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

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

Cooler Temp: 4.7 Correction Factor: +0.1

Cooler Temp Corrected (°C): 4.8

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 CDC?	<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

CLIENT NOTIFICATION/RESOLUTION

Lot ID of split containers:

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.

ceptions: 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#: 92651421

PM: BV

Due Date: 03/01/23

CLIENT: GA-GA Power

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #
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)						
AG8U-100 mL Amber Unpreserved (N/A) (Cl-)						
VSCU-20 mL Scintillation vials (N/A)						
DG9U-40 mL Amber Unpreserved vials (N/A)						

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:	
Company: GA Power	Address: Atlanta, GA	Report To: SCS Contacts	Copy To: Arcadis Contacts	Attention: Southern Co.	Company Name: Southern Co.
Phone: 470 620 6176	Project Name: Plant Valves Pooled Upgradation	Task No: VAT-CGR-ASSMT-202351	Purchase Order #: [blank]	Price Quote: [blank]	Price Project Manager: Nicole DeGroot
Requested Due Date: 5/24/23	Project Number: [blank]			Proc Profile #: 10840	Regulatory Agency: [blank]
					Date / Location: [blank]
					Georgia

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9, /, -) Sample ids must be unique	MATRIX	CODE	COLLECTED		DATE	TIME	DATE	TIME	SAMPLE TEMP AT COLLECTION	PRESERVATIVES						ANALYSES TEST	Y/N	Residual Chlorine (Y/N)
				START	END						Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3			
1	YAT-YGWA-47	Matrix: [blank]	Code: [blank]																
2	YAT-YGWA-2	Matrix: [blank]	Code: [blank]																
3	YAT-YGWA-41	Matrix: [blank]	Code: [blank]																
4	YAT-YGWA-51	Matrix: [blank]	Code: [blank]																
5	YAT-YGWA-5D	Matrix: [blank]	Code: [blank]																
6	YAT-YGWA-17S	Matrix: [blank]	Code: [blank]																
7	YAT-YGWA-18S	Matrix: [blank]	Code: [blank]																
8	YAT-YGWA-18I	Matrix: [blank]	Code: [blank]																
9	YAT-YGWA-20S	Matrix: [blank]	Code: [blank]																
10	YAT-YGWA-21I	Matrix: [blank]	Code: [blank]																
11	YAT-YGWA-30I	Matrix: [blank]	Code: [blank]																
12	YAT-YGWA-14S	Matrix: [blank]	Code: [blank]																

SAMPLER NAME AND SIGNATURE	
PRINT Name of SAMPLER: Mark Chest - Arcadis	DATE Signed: 2/3/23
SIGNATURE of SAMPLER: [Signature]	

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Mark Chest - Arcadis	2/8/23	09:00	Ryan Williams - Power	2/9/23	12:40
Ryan Williams - Power	2/9/23	12:40	Ryan Williams - Power	2/9/23	09:00

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



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#: 92651421

PM: BV

Due Date: 03/01/23

CLIENT: GA-GA Power

Courier: Fed Ex UPS USPS Client Pace Other: _____

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: 2/18/23 CW

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: 4.7 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): 4.8

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 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#: 92651421

PM: BV

Due Date: 03/01/23

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-)	BP3W-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)	SP7T-250 mL Sterile Plastic (N/A - lab)	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AGOU-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)	
1		2																										
2		2	1																									
3		2	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		Section B		Section C	
Required Client Information:		Required Project Information:		Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
Email To:	laucoker@southemco.com	Task No.:	YAT-CGR-ASSMT-202351	Address:	
Phone:	470.620.6176	Purchase Order #:		Page Quote:	
Requested Due Date:	STC TAT	Project Name:	Plant Yates Pooled Upgradient	Page Project Manager:	Heather Brown, Ryan & Kay
		Project Number:		Page Profile #:	10840
				Regulatory Agency:	DEPA / Livingston Georgia

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9, /, -) Sample IDs must be unique	MATRIX Drawing Water Waste Water Product Soil/Sediment Other Tissue	CODE DW WW P SL OK WP AK OT TS	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives						Analyses Test	Residual Chlorine (Y/N)	pH	
				START DATE TIME	END DATE TIME			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3				Methanol
1	YAT-YGWA-47			WG	G		6	3	3	3							
2	YAT-GWA-2			WG	G		6	3	3	3							
3	YAT-YGWA-41			WG	G		6	3	3	3							
4	YAT-YGWA-51			WG	G		6	3	3	3							
5	YAT-YGWA-5D			WG	G		6	3	3	3							
6	YAT-YGWA-17S			WG	G		6	3	3	3							
7	YAT-YGWA-18S			WG	G		6	3	3	3							
8	YAT-YGWA-18I			WG	G		6	3	3	3							
9	YAT-YGWA-20S			WG	G		6	3	3	3							
10	YAT-YGWA-21I			WG	G		6	3	3	3							
11	YAT-YGWA-30I			WG	G		6	3	3	3							
12	YAT-YGWA-14S			WG	G		6	3	3	3							

ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE		TIME		ACCEPTED BY / AFFILIATION		DATE		TIME		SAMPLE CONDITIONS	
Athens Suite 300.0 (Cl, F, Sulfate)		Ryan Williams / PCA		2/8/23		0800		Ryan Williams / PCA		2/8/23		0800			
App III Metals: Boron 6020B, Ca 6010D, App III 6020B, Zn, Ag, H, V		Ryan Williams / PCA		2/8/23		0900		Ryan Williams / PCA		2/8/23		0900			
App IV Metals: Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se), Toluene, Mercury (Hg). Also add Ca, Na, K for this event. Alkalinity - report total, carbonate and bicarbonate		Ryan Williams / PCA		2/8/23		1240									

SAMPLER NAME AND SIGNATURE		DATE SIGNED	
PRINT Name of SAMPLER: Ryan Williams		2/8/23	
SIGNATURE of SAMPLER: Ryan Williams		2/8/23	



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

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name: GA Power

Project #:

Courier: Fed Ex UPS USPS Client Pace Other:

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: 2/8/23 [Signature]

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: 4.7

Correction Factor: Add/Subtract (°C) 10.1

Temp should be above freezing to 6°C

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

Cooler Temp Corrected (°C): 4.8

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 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.

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-)	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-)	V5GU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)	
1		2	1																									
2		2	1																									
3		2	1																									
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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: Company: <u>GA Power</u> Address: <u>Atlanta, GA</u> Email To: <u>laucoben@southernco.com</u> Phone: <u>470.620.6176</u> Fax: Requested Date: <u>2/18/23</u>	Section B Required Project Information: Report To: <u>SCS Contacts</u> Copy To: <u>Arcadis Contacts</u> Task No: <u>YAT-CCR-ASSMT-202351</u> Purchase Order #: <u>Plant Yates Pooled Upgradient</u> Project Name: <u>Plant Yates Pooled Upgradient</u> Project Number:	Section C Invoice Information: Attention: <u>Southern Co.</u> Company Name: Address: Quote: Price Quote: Price Profile #: <u>10840</u>
Regulatory Agency: <u>State / Location</u> <u>Georgia</u>		

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 /, -,) Sample IDs must be unique	MATRIX Drinking Water Waste Water Industrial Sewage Other Issue	CODE GT WT WW P SL CL WP AR OT TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G-GRAB C-COMP)	COLLECTED			SAMPLE TEMP AT COLLECTION	PRESERVATIVES							ANALYZE TEST	Y/N	RESIDUAL CHLORINE (Y/N)																		
						START	END																														
						DATE	TIME	DATE		TIME	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	App II/IV Metals + Ca, Na, K	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Alkalinity (SM2320B)	App 1/II (gypsum only)												
1	YAT-YGWA-47									6	3	3	3																								
2	YAT-GWA-2									6	3	3	3																								
3	YAT-YGWA-41									6	3	3	3																								
4	YAT-YGWA-SI									6	3	3	3																								
5	YAT-YGWA-5D									6	3	3	3																								
6	YAT-YGWA-17S									6	3	3	3																								
7	YAT-YGWA-18S									6	3	3	3																								
8	YAT-YGWA-18I									6	3	3	3																								
9	YAT-YGWA-20S									6	3	3	3																								
10	YAT-YGWA-21I									6	3	3	3																								
11	YAT-YGWA-30I									6	3	3	3																								
12	YAT-YGWA-14S									6	3	3	3																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	TEMP in C	Received on ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)



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

Effective Date: 11/14/2022

Laboratory receiving samples:

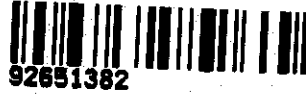
Asheville Eden Greenwood Huntersville Raleigh Me

Sample Condition Upon Receipt

Client Name: GA Power

Project #:

WO#: 92651382



Courier: Commercial Pace Fed Ex UPS USPS Other: Client

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: 2/8/23 CS

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: 4.7 Correction Factor: 0.1 Add/Subtract (°C)

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

Cooler Temp Corrected (°C): 4.8

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 <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Comments/Discrepancy:
Samples Arrived within Hold Time?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	1.
Short Hold Time Analysis (<72 hr.)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	2.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.
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 type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" 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

CLIENT NOTIFICATION/RESOLUTION

Lot ID of split containers:

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, U.Hg

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

***Check all unpreserved Nitrates for chlorine

Project #

W0#: 92651382

PM: BV

Due Date: 02/22/23

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 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)	AG8U-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			X	X																							
2	2	1			X	X																							
3	2	1			X	X																							
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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#: 92651382

Courier: Fed Ex UPS USPS Client Pace Other:

PM: BV Due Date: 02/22/23 CLIENT: GA-GA Power

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: 2/8/23

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: 4.7 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): 4.8

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 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 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#: 92651382

Project #

PM: BV

Due Date: 02/22/23

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.

ceptions: 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

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #
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						
AG1LU-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)						
AGNU-100 mL Amber Unpreserved (N/A) (Cl-)						
VSGU-20 mL Scintillation vials (N/A)						
DG9U-40 mL Amber Unpreserved vials (N/A)						

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#: 92651382

Courier: Fed Ex UPS USPS Client Pace Other:

PM: BV Due Date: 02/22/23 CLIENT: GA-GA Power

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: 2/8/23 CW

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:

4.7

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):

4.8

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 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 type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.	
-Includes Date/Time/ID/Analysis Matrix:	<input checked="" type="checkbox"/>		
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, 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-)	WGPU-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																											
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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 #:

Project # box

Courier: Fed Ex UPS USPS Client Commercial Pace Other:

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: 2/8/23 [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:

4.7

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):

4.8

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

Table with 11 rows of sample condition checks and a comments column.

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, 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 2N 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																										
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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 Mer

WO#: 92651382

Sample Condition Upon Receipt

Client Name: GA Power

Project #:

PM: BV

Due Date: 02/22/23

CLIENT: GA-GA Power

Courier: Commercial Fed Ex UPS USPS Other: Client

Custody Seal Present? Yes No Seals Intact? Yes No

Packing Material: Bubble Wrap Bubble Bags None Other

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

Cooler Temp: 2.1 Correction Factor: Add/Subtract (°C) +0.1

Cooler Temp Corrected (°C): 2.2

USDA Regulated Soil (N/A, water sample)

Date/initials Person Examining Contents: 2/9/23 CBE
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

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	7.	
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.	
Dissolved analysis: Samples Field Filtered?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	9.	
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
-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 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, LUHg

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

***Check all unpreserved Nitrates for chlorine

Project #

WO#: 92651382

PM: BV

Due Date: 02/22/23

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)	AG0U-100 mL Amber Unpreserved (N/A)(Cl-)	V56U-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)			
1		21																												
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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#: **92651382**

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

PM: BV Due Date: 02/22/23
CLIENT: GA-GA Power

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: 2/9/23
CB

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: 2.1 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): 2.0

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 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, LHMg

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

***Check all unpreserved Nitrates for chlorine

Project #

WO#: 92651382

PM: BV

Due Date: 02/22/23

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)	BP45-125 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)	SPST-125 mL Sterile Plastic (N/A - lab)	SPST-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:

G.A. Power

Project #:

WO#: 92651382

Courier: Fed Ex UPS USPS Client Pace Other: _____

PM: BV Due Date: 02/22/23
CLIENT: GA-GA Power

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: *2/9/23*
CB

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: *2.1*

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): *2.2*

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 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, 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-)	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)	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)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VG6U-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: **GA Power**, Atlanta, GA
 Section B Required Project Information: **SCS Contacts**, Arcadis Contacts
 Section C Invoice Information: **Southern Co.**

Company:	GA Power	Report To:	SCS Contacts
Address:	Atlanta, GA	Copy To:	Arcadis Contacts
Email To:	lucoker@southerno.com	Task No:	VAT-GR-ASMT-20281
Phone:	470.620.6176	Purchase Order #:	
Requested Due Date:	Standard TAT	Project Name:	Plant Vales Pooled Upgrade
		Project Number:	
		Face Quote:	
		Face Project Manager:	Micole D'Onofrio
		Face Profile #:	10840
			Way

ITEM #	MATRIX	CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION		# OF CONTAINERS	Preservatives							Analysis Test	Y/N	Residual Chlorine (Y/N)	pH:						
					START DATE	END DATE	DATE	TIME		UNPRESERVED	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol					Other					
1	VAT-YGWA-39	WG	G	G	2/18/23	145	0800	0500	3																	
2	VAT-YGWA-40	WG	G	G	2/18/23	145	0800	0500	3																	
3	VAT-YGWA-11	WG	G	G	2/18/23	145	0800	0500	3																	
4	VAT-YGWA-1D	WG	G	G	2/18/23	140	0900	0900	3																	
5	VAT-YGWA-21	WG	G	G	2/18/23	1540	0900	0900	3																	
6	VAT-YGWA-31	WG	G	G	2/18/23	1540	0900	0900	3																	
7	VAT-YGWA-3D	WG	G	G	2/18/23	1540	0900	0900	3																	
8																										
9																										
10																										
11																										
12																										

ADDITIONAL COMMENTS: Arcadis
 Date: 2/18/23
 Time: 0800
 Sampler Name: Ryan Williams / Para
 Signature: Ryan Williams / Para
 Date Signed: 2/18/23

ANALYSIS TESTS PERFORMED (Y/N):
 App I/IV Metals + Ca, Na, K: X
 Cl, F, SO4: X
 TDS (2540C): X
 RAD 9315/9320: X
 Alkalinity (SM2320B): X
 App I / II (gpysum only): X

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:		Company Name:		Company Name:		Company Name:		Company Name:	
Address:	Atlanta, GA	Copy To:	Acadix Contacts	Address:		Address:		Company Name:		Company Name:		Company Name:		Company Name:	
Email To:	lajcocke@scsathensga.com	Purchase Order #:		Address:		Address:		Company Name:		Company Name:		Company Name:		Company Name:	
Phone:	470.620.6176	Project Name:	Plant Yields Pooled Upgrade	Price Quote:		Price Quote:		Company Name:		Company Name:		Company Name:		Company Name:	
Requested Due Date:	STRT TRT	Project Number:		Price Profile #:	10840	Price Profile #:	10840	Company Name:		Company Name:		Company Name:		Company Name:	

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9, /, -) Sample IDs must be unique	COLLECTED			SAMPLE TEMP AT COLLECTION	PRESERVATIVES		ANALYSES TEST		Residual Chlorine (Y/N)	SAMPLE CONDITIONS						
		START DATE	START TIME	END DATE		END TIME	Unpreserved	H2SO4	HNO3			HCl	NaOH	Na2S2O3	Methanol	Other	App III/IV Metals + Ca, Na, K

1	YAT-YGWA-47	WG	G	-	-	-	6	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
2	YAT-GWA-2	WG	G	-	-	-	6	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
3	YAT-YGWA-4I	WG	G	-	-	-	6	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
4	YAT-YGWA-5I	WG	G	-	-	-	6	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
5	YAT-YGWA-5D	WG	G	-	-	-	6	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
6	YAT-YGWA-17S	WG	G	-	-	-	6	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
7	YAT-YGWA-18S	WG	G	-	-	-	6	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
8	YAT-YGWA-18I	WG	G	-	-	-	6	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
9	YAT-YGWA-20S	WG	G	-	-	-	6	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
10	YAT-YGWA-21I	WG	G	-	-	-	6	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
11	YAT-YGWA-30I	WG	G	-	-	-	6	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
12	YAT-YGWA-14S	WG	G	-	-	-	6	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
ADDITIONAL COMMENTS:		RELINQUISHED BY / AFFILIATION:		DATE:		TIME:		ACCEPTED BY / AFFILIATION:		DATE:		TIME:		SAMPLE CONDITIONS:																	
Anchors Suite 300.0 (Cl, F, Sulfide)		Ryan Williams / PCA		2/8/23		0800		Ryan Williams / PCA		2/8/23		0800		pH: 5.08																	
App III Metals: Boron 60208 Ca 60100:		Ryan Williams / PCA		2/8/23		0500		Ryan Williams / PCA		2/8/23		0900		pH: 6.82																	
App III Metals: Zn, Ag, Ni, V		Ryan Williams / PCA		2/8/23		1240		Ryan Williams / PCA		2/8/23		0900		pH: 6.82																	
App IV: Metals 60208: Arsenic (50), Assenic (45), Barium (60),		Ryan Williams / PCA		2/8/23		1240		Ryan Williams / PCA		2/8/23		0900		pH: 6.82																	
Beryllium (60), Cadmium (60), Chromium (60), Cobalt (60), Lead (60),		Ryan Williams / PCA		2/8/23		1240		Ryan Williams / PCA		2/8/23		0900		pH: 6.82																	
Lithium (60), Molybdenum (60), Selenium (50)		Ryan Williams / PCA		2/8/23		1240		Ryan Williams / PCA		2/8/23		0900		pH: 6.82																	
70400: Mercury (60). Also add Ca, Na, K for this event.		Ryan Williams / PCA		2/8/23		1240		Ryan Williams / PCA		2/8/23		0900		pH: 6.82																	
Alkalinity - report total, carbonate and bicarbonate		Ryan Williams / PCA		2/8/23		1240		Ryan Williams / PCA		2/8/23		0900		pH: 6.82																	

Sampler Name and Signature:			
PRINT Name of Sampler:	Ryan Williams / PCA	DATE signed:	2/8/23
SIGNATURE of Sampler:	[Signature]	DATE signed:	2/8/23
TEMP in C		Received on ice (Y/N)	
		Custody Sealed Cooler (Y/N)	
		Samples Intact (Y/N)	

CHAIN-OF-CUSTODY / Analytical Request Document
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE	COLLECTED		DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	PRESERVATIVES								ANALYSIS TEST		RESIDUAL CHLORINE (Y/N)										
				START	END					UNPRESERVED	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Y/N	Y/N											
1	VAT-YGWA-47	WIG G	G	-	-	-	-	-	0	3	3	3																		
2	VAT-YGWA-2	WIG G	G	-	-	-	-	-	0	3	3	3																		
3	VAT-YGWA-4I	WIG G	G	-	-	-	-	-	0	3	3	3																		
4	VAT-YGWA-SI	WIG G	G	-	-	-	-	-	0	3	3	3																		
5	VAT-YGWA-5D	WIG G	G	-	-	-	-	-	0	3	3	3																		
6	VAT-YGWA-17S	WIG G	G	-	-	-	-	-	0	3	3	3																		
7	VAT-YGWA-18S	WIG G	G	-	-	-	-	-	0	3	3	3																		
8	VAT-YGWA-18I	WIG G	G	-	-	-	-	-	0	3	3	3																		
9	VAT-YGWA-20S	WIG G	G	-	-	-	-	-	0	3	3	3																		
10	VAT-YGWA-21I	WIG G	G	-	-	-	-	-	0	3	3	3																		
11	VAT-YGWA-30I	WIG G	G	-	-	-	-	-	0	3	3	3																		
12	VAT-YGWA-14S	WIG G	G	-	-	-	-	-	0	3	3	3																		

APPROXIMATE DATE	APPROXIMATE TIME	APPROXIMATE LOCATION	APPROXIMATE TEMPERATURE	APPROXIMATE WIND DIRECTION	APPROXIMATE WIND SPEED	APPROXIMATE MOON PHASE
2/18/23	0800	2/18/23	0900	2/18/23	0900	2/18/23
SIGNATURE OF SAMPLER: Jessica Ware - Arcadis						
DATE SIGNED: 2/18/23						

CHAIN-OF-CUSTODY / Analytical Request Document
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A		Section B		Section C	
Required Client Information:	Company: GA Power Address: Atlanta, GA	Required Project Information:	Report To: SCS Contacts Copy To: Arcadis Contacts Fast No: VAT-GCA-ASSIST-202301 Purchase Order #: VAT-GCA-ASSIST-202301 Project Name: Plant Yates Pooled Up/Gradient Project Number:	Invoice Information:	Advertiser: Southern Co. Company Name: Address: Pace Order: Pace Project Manager: Nicole D'Onofrio Pace Profile #: 10940
Email To: laucoker@southernco.com	Phone: 470.620.6176 Fax:	Requested Due Date:	Requested Sample Preparation Type:	Regulatory Agency:	Georgia

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9, -,) Sample IDs must be unique	MATRIX	CODE	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)						
						START DATE	END DATE			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol			Other	App HMV Metals + Ca, Na, K	Cl, F, SO4	TDS (2540C)	RAD 8315/9320	Alkalinity (SM2320B)
1	YAT-YGWA-39	Drinking Water	OW	WG G	G	2/17	10:15		6									X	X	X	X	X	X	
2	YAT-YGWA-40	Drinking Water	WF	WG G	G				6									X	X	X	X	X	X	
3	YAT-YGWA-11	Drinking Water	WF	WG G	G				6									X	X	X	X	X	X	
4	YAT-YGWA-1D	Drinking Water	WF	WG G	G				6									X	X	X	X	X	X	
5	YAT-YGWA-21	Drinking Water	WF	WG G	G				6									X	X	X	X	X	X	
6	YAT-YGWA-31	Drinking Water	WF	WG G	G				6									X	X	X	X	X	X	
7	YAT-YGWA-3D	Drinking Water	WF	WG G	G				6									X	X	X	X	X	X	
8																								
9																								
10																								
11																								
12																								

ADDITIONAL COMMENTS: Arcadis Suite 300 D (C1, F, Sullivan)
App III Metals: Baton 60208, Ca 60100;
App III 60208: Zn, Ag, Ni, V
App IV: Metals 60208: Arsenic (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Manganese (Mn), Selenium (Se), Thorium (Th), Uranium (U), Vanadium (V), Zinc (Zn). Also add Ca, Na, K for this event.
706A: Mercury (Hg). Also add Ca, Na, K for this event.
Alkalinity - report total, carbonate, and bicarbonate

RELEASING BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
<i>[Signature]</i> Arcadis	2/8/23	0800	<i>[Signature]</i> Arcadis	2/8/23	0800
<i>[Signature]</i> Arcadis	2/9/23	0500	<i>[Signature]</i> Arcadis	2/9/23	0900
<i>[Signature]</i> Arcadis	2/9/23	1240			

CUSTOMER NAME AND SIGNATURE: PRINT Name of SAMPLER: (Arcadis) *Jessica Ware*
SIGNATURE of SAMPLER: (Arcadis) *[Signature]* DATE Signed: 2/8/23

TEMP in C: Received on ice (Y/N): Custody Sealed Cooler (Y/N): Samples Intact (Y/N):

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A		Section B		Section C	
Required Client Information:		Required Project Information:		Invoice Information:	
Company: GA Power	Report To: SCS Controls	Copy To: Arcadis Controls	Task No: YAT-GCR-ASSUR-20221	Attention: Southern Co.	Company Name:
Address: Atlanta, GA	Task No: YAT-GCR-ASSUR-20221	Purchase Order #: Plant Yates Pooled Upgrade	Project Name:	Address:	Address:
Email To: lyzcoates@scscontrol.com	Project Number:	Page Profile #: 10940	Page Profile #: 10940	Page Profile #: 10940	Page Profile #: 10940
Phone: 470.620.6176 Fax:	Requested Due Date: 5/10/23				

ITEM #	SAMPLE ID <small>One Character per box. (A-Z, 0-9 / -)</small> Sample IDs must be unique	MATRIX <small>Drinking Water Village Water Surface Water Other Treated</small>	CODE <small>DW VW SW OW TP AT OT TS</small>	MATRIX CODE (See valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	PRESERVATIVES						ANALYSIS TEST	Residual Chlorine (Y/N)	pH: 5.22 0012
						START TIME	END TIME		Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3			
1	VAT-YGWA-47																
2	VAT-GWA-2					2/13/2022											
3	VAT-YGWA-41																
4	VAT-YGWA-61																
5	VAT-YGWA-5D																
6	VAT-YGWA-17S																
7	VAT-YGWA-18S																
8	VAT-YGWA-181																
9	VAT-YGWA-20S																
10	VAT-YGWA-211																
11	VAT-YGWA-301																
12	VAT-YGWA-14S																

ADDITIONAL COMMENTS			
Arcadis Sullis 2000.0 (Cl, F, Sulfate)			
App III Metals: Boron 8020B, Ca 8010D			
App III 6020B, Zn, Ag, Ni, V			
App IV: Asenite 6020E, Antimony (SB), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se), Thallium (Tl), Mercury (Hg). Also add Ca, Mg, K for this event.			
Alkalinity - report total, carbonate, and bicarbonate			

PREPARED BY / ANALYST		DATE		TIME		ACCEPTED BY / FACILITY		DATE		TIME	
Ryan Williams / Arcadis		2/9/23		12:35		Ryan Williams / Arcadis		2/9/23		09:20	

TEMP In C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

PREPARED BY / ANALYST		DATE		TIME		ACCEPTED BY / FACILITY		DATE		TIME	
Ryan Williams / Arcadis		2/9/23		12:35		Ryan Williams / Arcadis		2/9/23		09:20	

PREPARED BY / ANALYST		DATE		TIME		ACCEPTED BY / FACILITY		DATE		TIME	
Ryan Williams / Arcadis		2/9/23		12:35		Ryan Williams / Arcadis		2/9/23		09:20	

PREPARED BY / ANALYST		DATE		TIME		ACCEPTED BY / FACILITY		DATE		TIME	
Ryan Williams / Arcadis		2/9/23		12:35		Ryan Williams / Arcadis		2/9/23		09:20	

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:
 Company: **GA Power**
 Address: **Atlanta, GA**
 Email To: **lalcock@southern.com**
 Phone: **470.620.6176**
 Requested Turn Date: **5/19/11**

Section B
 Required Project Information:
 Report To: **SCS Contacts**
 Copy To: **Arcois Contacts**
 Task No: **YAT-CCR-ASSMT-28281**
 Purchase Order #: **Plant Yates Pooled Upgrade**
 Project Name: **Plant Yates Pooled Upgrade**
 Project Number: **10840**

Section C
 Invoice Information:
 Attention: **Southern Co.**
 Company Name:
 Address:
 P.O. Box:
 P.O. Profile #: **10840**

Page: **1** of **1**

ITEM #	SAMPLE ID	MATRIX	CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAS C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Analysis Test	Y/N	DATE	TIME	DATE	TIME	REMARKS
						START	END										
1	YAT-YGWA-39	Operating Steam Nucleon Steam Water Product Sulfuric Oil Wipe Air Other Tanks	GR WH WV P SL CL WR AR OT TS	WG G	G				Unpreserved	H2SO4 HNO3 HCl NaOH Na2S2O3 Methanol Other		2/19/11	0900	2/19/11	0500		
2	YAT-YGWA-40			WG G	G								2/19/11	0920	2/19/11	0500	
3	YAT-YGWA-11			WG G	G								2/19/11	1235	2/19/11	1235	
4	YAT-YGWA-1D			WG G	G								2/19/11	1235	2/19/11	1235	
5	YAT-YGWA-2I			WG G	G								2/19/11	1235	2/19/11	1235	
6	YAT-YGWA-3I			WG G	G								2/19/11	1235	2/19/11	1235	
7	YAT-YGWA-3D			WG G	G								2/19/11	1235	2/19/11	1235	
8																	
9																	
10																	
11																	
12																	

APPROVALS / COMMENTS Approved By: Kim Lopez Date: 2/19/11 Time: 0900 Accepted By: Kim Lopez Date: 2/19/11 Time: 0500 Approved By: Kim Lopez Date: 2/19/11 Time: 1235 Accepted By: Kim Lopez Date: 2/19/11 Time: 1235			
SAMPLER NAME AND SIGNATURE Name: Kim Lopez Signature: <i>Kim Lopez</i> Date: 2/19/11 Time: 0900 Name: Kim Lopez Signature: <i>Kim Lopez</i> Date: 2/19/11 Time: 0500 Name: Kim Lopez Signature: <i>Kim Lopez</i> Date: 2/19/11 Time: 1235 Accepted By: Kim Lopez Signature: <i>Kim Lopez</i> Date: 2/19/11 Time: 1235			
TEMP in C Received on Ice (Y/N) Custody Sealed Cooler (Y/N) Samples Intact (Y/N)			

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:
Company: GA Power
Address: Atlanta, GA
Email To: jlucocke@southernco.com
Phone: 470.820.8176
Requested Due Date: 2/10/23

Section B

Required Project Information:
Report To: SCS Contacts
Copy To: Arcadis Contacts
Task No: YAT-CR-ASMT-28235
Purchase Order #: [blank]
Project Name: Plant Yates Pooled Upgradient
Project Number: [blank]

Section C

Invoice Information:
Attention: Southern Co.
Company Name: [blank]
Address: [blank]
Price Quote: [blank]
Price Project Manager: [blank]
Price Profile #: 10840
Residual Chlorine (Y/N)

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9, /,) Sample IDs must be unique	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)
				START DATE/TIME	END DATE/TIME					
1	YAT-YGWA-47	WG G	G				6 3 3		App I/IV Metals + Ca, Na, K Cl, F, SO4 TDS (2540C) RAD 9315/9320 Alkalinity (SM2320B) App I/E (gypsum only)	
2	YAT-GWA-2	WG G	G				6 3 3			
3	YAT-YGWA-4I	WG G	G	2/12/23 0755			6 3 3			
4	YAT-YGWA-5I	WG G	G	2/12/23 1124			6 3 3			
5	YAT-YGWA-5D	WG G	G				6 3 3			
6	YAT-YGWA-17S	WG G	G				6 3 3			
7	YAT-YGWA-18S	WG G	G				6 3 3			
8	YAT-YGWA-18I	WG G	G				6 3 3			
9	YAT-YGWA-20S	WG G	G				6 3 3			
10	YAT-YGWA-21I	WG G	G				6 3 3			
11	YAT-YGWA-30I	WG G	G				6 3 3			
12	YAT-YGWA-14S	WG G	G				6 3 3			

ADDITIONAL COMMENTS: [blank]

RELEASED BY/AUTHORITY: *Kris [unintelligible]*
DATE: 2/10/23

ACCEPTED BY/AUTHORITY: *Kim Lapsensky*
DATE: 2/10/23

SAMPLE CONDITIONS: [blank]

TEMP IN C: [blank]

Received on Ice (Y/N): [blank]

Custody Sealed Cooler (Y/N): [blank]

Samples intact (Y/N): [blank]

PM: BV
CLIENT: GA-GR Power
Due Date: 02/22/23

MO#: 92651382

Page: 1 of 1

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
 Analyst: RMS
 Date: 2/23/2023
 Worklist: 71466
 Matrix: WT

Method Blank Assessment	
MB Sample ID	2753389
MB concentration:	0.032
MB 2 Sigma CSU:	0.106
MB MDC:	0.272
MB Numerical Performance Indicator:	0.58
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment	LCS (Y or N)?	
	LCS71466	LCS071466
Count Date:	3/17/2023	3/17/2023
Spike I.D.:	19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.019	24.019
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.501	0.500
Target Conc. (pCi/L, g, F):	4.795	4.807
Uncertainty (Calculated):	0.058	0.058
Result (pCi/L, g, F):	4.037	3.903
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	-1.71	0.847
Numerical Performance Indicator:	84.20%	-2.09
Percent Recovery:	Pass	81.19%
Status vs Numerical Indicator:	N/A	Warning
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

Duplicate Sample Assessment	92650189021	92650189021DUP
Sample I.D.:	LCS71466	LCS71466
Duplicate Sample I.D.:	4.037	4.037
Sample Result (pCi/L, g, F):	0.868	0.868
Sample Result 2 Sigma CSU (pCi/L, g, F):	3.903	3.903
Sample Duplicate Result (pCi/L, g, F):	0.847	0.847
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	NO	NO
Are sample and/or duplicate results below RL?	0.217	0.592
Duplicate Numerical Performance Indicator:	3.64%	51.29%
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	Pass	Pass
Duplicate Status vs Numerical Indicator:	N/A	N/A
Duplicate Status vs RPD:	25%	25%
% RPD Limit:		

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

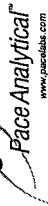
Matrix Spike/Matrix Spike Duplicate Sample Assessment
Sample I.D.:
Sample MS I.D.:
Sample MSD I.D.:
Sample Matrix Spike Result:
Sample Matrix Spike Duplicate Result:
Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):
Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):
Duplicate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

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

Comments:

On 3/20/23

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228
Analyst: JJS1
Date: 2/24/2023
Worklist: 71467
Matrix: WT

Method Blank Assessment	
MB Sample ID	2753395
MB concentration:	0.623
M/B 2 Sigma CSU:	0.341
MB MDC:	0.611
MB Numerical Performance Indicator:	3.59
MB Status vs Numerical Indicator:	Fail*
MB Status vs. MDC:	See Comment*

Laboratory Control Sample Assessment	LCS/D (Y or N)?	
	LCST1467	LCSD71467
Count Date:	2/28/2023	2/28/2023
Spike I.D.:	22-040	22-040
Decay Corrected Spike Concentration (pCi/mL):	33.400	33.400
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.803	0.802
Target Conc. (pCi/L, g, F):	4.159	4.166
Uncertainty (Calculated):	0.204	0.204
Result (pCi/L, g, F):	3.818	3.501
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.858	0.804
Numerical Performance Indicator:	-0.76	-1.57
Percent Recovery:	91.79%	84.03%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

Duplicate Sample Assessment	
Sample I.D.:	LCST1467
Duplicate Sample I.D.:	LCSD71467
Sample Result (pCi/L, g, F):	3.818
Sample Duplicate Result (pCi/L, g, F):	0.858
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	3.501
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.804
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	0.528
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	8.92%
Duplicate Status vs Numerical Indicator:	Pass
Duplicate Status vs RPD:	Pass
% RPD Limit:	36%

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

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

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

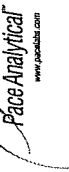
Comments:

*The method blank result is below the reporting limit for this analysis and is acceptable.

Handwritten signature

Handwritten signature: LAL 3/1/23

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228
Analyst: ZPC
Date: 2/24/2023
Worklist: 71482
Matrix: WT

Method Blank Assessment	
MB Sample ID	2754449
MB concentration:	0.353
M/B 2 Sigma CSU:	0.207
MB MDC:	0.369
MB Numerical Performance Indicator:	3.34
MB Status vs Numerical Indicator:	Fail*
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCS (Y or N)?	
	LCSD71482	LCSD71482
Count Date:	2/28/2023	2/28/2023
Spike I.D.:	22-040	22-040
Decay Corrected Spike Concentration (pCi/mL):	33.398	33.398
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.801	0.800
Target Conc. (pCi/L, g, F):	4.172	4.173
Uncertainty (Calculated):	0.204	0.204
Result (pCi/L, g, F):	3.338	3.085
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.886	0.814
Numerical Performance Indicator:	-1.80	-2.54
Percent Recovery:	80.01%	73.93%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

Duplicate Sample Assessment	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Sample I.D.:	LCSD71482
Duplicate Sample I.D.:	LCSD71482
Sample Result (pCi/L, g, F):	3.338
Sample Duplicate Result (pCi/L, g, F):	0.886
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	3.085
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.814
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	0.413
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	7.91%
Duplicate Status vs Numerical Indicator:	Pass
Duplicate Status vs RPD:	Pass
% RPD Limit:	36%

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

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

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

Comments:

*If the lowest activity sample in this batch is greater than ten times the blank value, the blank is acceptable, otherwise this batch must be re-prepared.

M/S activity = 1000 - pass
M 3/6/23

M 3/6/23

VAL
3/6/23

Quality Control Sample Performance Assessment



Analyst: Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
Analyst: SLC
Date: 2/23/2023
Worklist: 71481
Matrix: WT

Method Blank Assessment	
MB Sample ID	2754448
MB concentration:	0.113
MB 2 Sigma CSU:	0.105
MB MDC:	0.185
MB Numerical Performance Indicator:	2.11
MB Status vs Numerical Indicator:	Warning
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment	LCS (Y or N)?		Y
	LCS71481	LCS71481	
Count Date:	3/3/2023	3/3/2023	LCS71481
Spike I.D.:	19-033	19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.019	24.019	24.019
Volume Used (mL):	0.10	0.10	0.10
Aliquot Volume (L, g, F):	0.500	0.507	4.740
Target Conc. (pCi/L, g, F):	4.800	4.740	4.740
Uncertainty (Calculated):	0.058	0.057	0.057
Result (pCi/L, g, F):	4.170	5.261	5.261
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.819	0.970	0.970
Numerical Performance Indicator:	-1.51	1.05	111.01%
Percent Recovery:	86.87%	Pass	Pass
Status vs Numerical Indicator:	N/A	N/A	N/A
Upper % Recovery Limits:	125%	125%	125%
Lower % Recovery Limits:	75%	75%	75%

Duplicate Sample Assessment	LCS (Y or N)?		Y
	LCS71481	LCS71481	
Sample I.D.:	92651421017	92651421017	92651421017
Duplicate Sample I.D.:	92651421017DUP	92651421017DUP	92651421017DUP
Sample Result (pCi/L, g, F):	0.450	0.450	0.450
Sample Duplicate Result (pCi/L, g, F):	0.819	0.200	0.200
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	5.261	0.232	0.232
Sample Duplicate Result (pCi/L, g, F):	0.970	0.144	0.144
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	NO	See Below #	See Below #
Are sample and/or duplicate results below RL?	-1.685	1.739	1.739
Duplicate Numerical Performance Indicator:	24.39%	64.12%	64.12%
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	Pass	Pass	Pass
Duplicate Status vs Numerical Indicator:	N/A	N/A	N/A
Duplicate Status vs RPD:	25%	25%	25%
% RPD Limit:			

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

Comments:

ET
3-3-23

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

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

LAM313/23

March 21, 2023

Ms. Lauren Petty
Southern Company
42 Inverness Center Parkway
Birmingham, AL 35242

RE: Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Dear Ms. Petty:

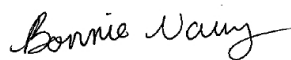
Enclosed are the analytical results for sample(s) received by the laboratory between February 08, 2023 and February 10, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where 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: Joju Abraham, Georgia Power-CCR
Lauren Coker, Georgia Pwer
Noelia Gangi, Georgia Power
Geoffrey Gay, ARCADIS - Atlanta
Ben Hodges, Georgia Power-CCR
Kristen Jurinko
Laura Midkiff, Georgia Power
Alex Simpson, Arcadis
Michael Smilley, Georgia Power
Becky Steever, Arcadis

Tina Sullivan, ERM
Jessica Ware, ARCADIS - Atlanta
Albert Zumbuhl, Arcadis



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92651382

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 Yates Pooled Upgradient

Pace Project No.: 92651382

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92651382001	YAT-YGWA-1I	Water	02/07/23 11:45	02/08/23 09:00
92651382002	YAT-YGWA-1D	Water	02/07/23 13:40	02/08/23 09:00
92651382003	YAT-YGWA-2I	Water	02/07/23 15:40	02/08/23 09:00
92651382004	YAT-GWA-2	Water	02/07/23 11:48	02/08/23 09:00
92651382005	YAT-YGWA-5D	Water	02/07/23 16:22	02/08/23 09:00
92651382006	YAT-YGWA-20S	Water	02/07/23 14:50	02/08/23 09:00
92651382007	YAT-YGWA-21I	Water	02/07/23 12:48	02/08/23 09:00
92651382008	YAT-YGWA-17S	Water	02/07/23 11:16	02/08/23 09:00
92651382009	YAT-YGWA-18S	Water	02/07/23 13:48	02/08/23 09:00
92651382010	YAT-YGWA-18I	Water	02/07/23 12:31	02/08/23 09:00
92651382011	YAT-YGWA-39	Water	02/07/23 16:15	02/08/23 09:00
92651382012	YAT-YGWA-47	Water	02/08/23 17:02	02/09/23 12:35
92651382013	YAT-YGWA-30I	Water	02/08/23 15:10	02/09/23 12:35
92651382014	YAT-YGWA-14S	Water	02/08/23 13:50	02/09/23 12:35
92651382015	YAT-YGWA-3I	Water	02/08/23 10:00	02/09/23 12:35
92651382016	YAT-YGWA-3D	Water	02/08/23 11:40	02/09/23 12:35
92651382017	YAT-YGWA-40	Water	02/08/23 12:02	02/09/23 12:35
92651382018	YAT-YGWA-4I	Water	02/09/23 09:55	02/10/23 14:00
92651382019	YAT-YGWA-5I	Water	02/09/23 11:26	02/10/23 14:00

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92651382

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92651382001	YAT-YGWA-1I	EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
92651382002	YAT-YGWA-1D	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
92651382003	YAT-YGWA-2I	SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
92651382004	YAT-GWA-2	SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	MS	4
		EPA 6020B	CW1	18
92651382005	YAT-YGWA-5D	EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	MS	4
92651382006	YAT-YGWA-20S	EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92651382007	YAT-YGWA-21I	EPA 6010D	MS	4

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SAMPLE ANALYTE COUNT

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92651382

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92651382008	YAT-YGWA-17S	EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
92651382009	YAT-YGWA-18S	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
92651382010	YAT-YGWA-18I	SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	MS	4
92651382011	YAT-YGWA-39	EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
92651382012	YAT-YGWA-47	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
92651382013	YAT-YGWA-30I	EPA 6010D	MS	4
		EPA 6020B	CW1	13

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92651382014	YAT-YGWA-14S	EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
92651382015	YAT-YGWA-3I	SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92651382016	YAT-YGWA-3D	EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	MS	4
		EPA 6020B	CW1	13
92651382017	YAT-YGWA-4O	EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
92651382018	YAT-YGWA-4I	SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	JCM	3
92651382019	YAT-YGWA-5I	EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92651382

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	JCM	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 Yates Pooled Upgradient
Pace Project No.: 92651382

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92651382001	YAT-YGWA-1I					
	Performed by	Client			03/03/23 10:59	
	Collected By	Jake Swanson			03/03/23 10:59	
	Collected Date	02/07/23			03/03/23 10:59	
	Collected Time	11:45			03/03/23 10:59	
	pH	6.53	Std. Units		03/03/23 10:59	
EPA 6010D	Potassium	2.0	mg/L	0.20	02/21/23 16:05	
EPA 6010D	Sodium	5.6	mg/L	1.0	02/21/23 16:05	
EPA 6010D	Calcium	2.2	mg/L	1.0	02/21/23 16:05	
EPA 6010D	Magnesium	1.5	mg/L	0.050	02/21/23 16:05	
EPA 6020B	Barium	0.21	mg/L	0.0050	02/21/23 17:54	
EPA 6020B	Beryllium	0.00054	mg/L	0.00050	02/21/23 17:54	
EPA 6020B	Chromium	0.0013J	mg/L	0.0050	02/21/23 17:54	
EPA 6020B	Cobalt	0.0048J	mg/L	0.0050	02/21/23 17:54	
EPA 6020B	Lithium	0.0029J	mg/L	0.030	02/21/23 17:54	
SM 2540C-2015	Total Dissolved Solids	121	mg/L	25.0	02/10/23 20:18	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	20.4	mg/L	5.0	02/15/23 17:28	
SM 2320B-2011	Alkalinity, Total as CaCO3	20.4	mg/L	5.0	02/15/23 17:28	
EPA 300.0 Rev 2.1 1993	Chloride	1.5	mg/L	1.0	02/10/23 21:29	
EPA 300.0 Rev 2.1 1993	Fluoride	0.071J	mg/L	0.10	02/10/23 21:29	
EPA 300.0 Rev 2.1 1993	Sulfate	6.6	mg/L	1.0	02/10/23 21:29	
92651382002	YAT-YGWA-1D					
	Performed by	Client			03/03/23 11:00	
	Collected By	Jake Swanson			03/03/23 11:00	
	Collected Date	02/07/23			03/03/23 11:00	
	Collected Time	13:40			03/03/23 11:00	
	pH	7.86	Std. Units		03/03/23 11:00	
EPA 6010D	Potassium	4.8	mg/L	0.20	02/21/23 16:10	
EPA 6010D	Sodium	11.5	mg/L	1.0	02/21/23 16:10	
EPA 6010D	Calcium	15.0	mg/L	1.0	02/21/23 16:10	
EPA 6010D	Magnesium	1.9	mg/L	0.050	02/21/23 16:10	
EPA 6020B	Barium	0.14	mg/L	0.0050	02/21/23 18:00	
EPA 6020B	Beryllium	0.0011	mg/L	0.00050	02/21/23 18:00	
EPA 6020B	Cobalt	0.00097J	mg/L	0.0050	02/21/23 18:00	
EPA 6020B	Lithium	0.0060J	mg/L	0.030	02/21/23 18:00	
SM 2540C-2015	Total Dissolved Solids	131	mg/L	25.0	02/10/23 20:18	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	65.4	mg/L	5.0	02/15/23 17:46	
SM 2320B-2011	Alkalinity, Total as CaCO3	65.4	mg/L	5.0	02/15/23 17:46	
EPA 300.0 Rev 2.1 1993	Chloride	1.3	mg/L	1.0	02/10/23 21:44	
EPA 300.0 Rev 2.1 1993	Fluoride	0.093J	mg/L	0.10	02/10/23 21:44	
EPA 300.0 Rev 2.1 1993	Sulfate	10.6	mg/L	1.0	02/10/23 21:44	
92651382003	YAT-YGWA-2I					
	Performed by	Client			03/03/23 11:00	
	Collected By	Jake Swanson			03/03/23 11:00	
	Collected Date	02/07/23			03/03/23 11:00	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92651382003	YAT-YGWA-2I					
	Collected Time	15:40			03/03/23 11:00	
	pH	6.94	Std. Units		03/03/23 11:00	
EPA 6010D	Potassium	5.1	mg/L	0.20	02/21/23 16:15	
EPA 6010D	Sodium	9.0	mg/L	1.0	02/21/23 16:15	M1
EPA 6010D	Calcium	25.6	mg/L	1.0	02/21/23 16:15	M1
EPA 6010D	Magnesium	4.1	mg/L	0.050	02/21/23 16:15	
EPA 6020B	Barium	0.0026J	mg/L	0.0050	02/21/23 18:06	
EPA 6020B	Lithium	0.0047J	mg/L	0.030	02/21/23 18:06	
EPA 6020B	Molybdenum	0.0061J	mg/L	0.010	02/21/23 18:06	
SM 2540C-2015	Total Dissolved Solids	159	mg/L	25.0	02/10/23 20:18	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	87.6	mg/L	5.0	02/15/23 18:36	
SM 2320B-2011	Alkalinity, Total as CaCO3	87.6	mg/L	5.0	02/15/23 18:36	
EPA 300.0 Rev 2.1 1993	Chloride	1.1	mg/L	1.0	02/10/23 21:59	
EPA 300.0 Rev 2.1 1993	Fluoride	0.12	mg/L	0.10	02/10/23 21:59	
EPA 300.0 Rev 2.1 1993	Sulfate	17.8	mg/L	1.0	02/10/23 21:59	
92651382004	YAT-GWA-2					
	Performed by	Client			03/03/23 11:01	
	Collected By	Jake Swanson			03/03/23 11:01	
	Collected Date	02/07/23			03/03/23 11:01	
	Collected Time	11:48			03/03/23 11:01	
	pH	5.94	Std. Units		03/03/23 11:01	
EPA 6010D	Potassium	9.5	mg/L	0.20	02/21/23 17:00	
EPA 6010D	Sodium	8.1	mg/L	1.0	02/21/23 17:00	
EPA 6010D	Calcium	22.3	mg/L	1.0	02/21/23 17:00	
EPA 6010D	Magnesium	19.3	mg/L	0.050	02/21/23 17:00	
EPA 6020B	Barium	0.034	mg/L	0.0050	02/21/23 18:12	
EPA 6020B	Cadmium	0.00012J	mg/L	0.00050	02/21/23 18:12	
EPA 6020B	Cobalt	0.034	mg/L	0.0050	02/21/23 18:12	
EPA 6020B	Lithium	0.0022J	mg/L	0.030	02/21/23 18:12	
EPA 6020B	Nickel	0.0096	mg/L	0.0050	02/21/23 18:12	
EPA 6020B	Zinc	0.0072J	mg/L	0.010	02/21/23 18:12	
EPA 7470A	Mercury	0.00013J	mg/L	0.00020	02/24/23 12:03	
SM 2540C-2015	Total Dissolved Solids	207	mg/L	25.0	02/10/23 20:18	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	62.4	mg/L	5.0	02/15/23 18:45	
SM 2320B-2011	Alkalinity, Total as CaCO3	62.4	mg/L	5.0	02/15/23 18:45	
EPA 300.0 Rev 2.1 1993	Chloride	6.1	mg/L	1.0	02/10/23 22:14	
EPA 300.0 Rev 2.1 1993	Fluoride	0.095J	mg/L	0.10	02/10/23 22:14	
EPA 300.0 Rev 2.1 1993	Sulfate	82.4	mg/L	1.0	02/10/23 22:14	
92651382005	YAT-YGWA-5D					
	Performed by	Client			03/03/23 11:05	
	Collected By	Jake Swanson			03/03/23 11:05	
	Collected Date	02/07/23			03/03/23 11:05	
	Collected Time	16:22			03/03/23 11:05	
	pH	6.64	Std. Units		03/03/23 11:05	
EPA 6010D	Potassium	3.7	mg/L	0.20	02/21/23 17:05	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92651382005	YAT-YGWA-5D					
EPA 6010D	Sodium	9.7	mg/L	1.0	02/21/23 17:05	
EPA 6010D	Calcium	26.6	mg/L	1.0	02/21/23 17:05	
EPA 6010D	Magnesium	4.6	mg/L	0.050	02/21/23 17:05	
EPA 6020B	Arsenic	0.0030J	mg/L	0.0050	02/21/23 18:18	
EPA 6020B	Barium	0.0075	mg/L	0.0050	02/21/23 18:18	
EPA 6020B	Lithium	0.0059J	mg/L	0.030	02/21/23 18:18	
EPA 6020B	Molybdenum	0.00095J	mg/L	0.010	02/21/23 18:18	
SM 2540C-2015	Total Dissolved Solids	180	mg/L	25.0	02/10/23 20:19	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	96.5	mg/L	5.0	02/15/23 18:52	
SM 2320B-2011	Alkalinity, Total as CaCO3	96.5	mg/L	5.0	02/15/23 18:52	
EPA 300.0 Rev 2.1 1993	Chloride	3.3	mg/L	1.0	02/10/23 22:29	
EPA 300.0 Rev 2.1 1993	Fluoride	0.082J	mg/L	0.10	02/10/23 22:29	
EPA 300.0 Rev 2.1 1993	Sulfate	5.2	mg/L	1.0	02/10/23 22:29	
92651382006	YAT-YGWA-20S					
	Performed by	Client			03/03/23 11:05	
	Collected By	Jake Swanson			03/03/23 11:05	
	Collected Date	02/07/23			03/03/23 11:05	
	Collected Time	14:50			03/03/23 11:05	
	pH	5.63	Std. Units		03/03/23 11:05	
EPA 6010D	Potassium	0.55	mg/L	0.20	02/21/23 17:10	
EPA 6010D	Sodium	8.7	mg/L	1.0	02/21/23 17:10	
EPA 6010D	Calcium	2.4	mg/L	1.0	02/21/23 17:10	
EPA 6010D	Magnesium	0.58	mg/L	0.050	02/21/23 17:10	
EPA 6020B	Barium	0.014	mg/L	0.0050	02/21/23 18:24	
EPA 6020B	Beryllium	0.000074J	mg/L	0.00050	02/21/23 18:24	
EPA 7470A	Mercury	0.00015J	mg/L	0.00020	02/24/23 12:08	
SM 2540C-2015	Total Dissolved Solids	89.0	mg/L	25.0	02/10/23 20:19	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	23.3	mg/L	5.0	02/15/23 19:00	
SM 2320B-2011	Alkalinity, Total as CaCO3	23.3	mg/L	5.0	02/15/23 19:00	
EPA 300.0 Rev 2.1 1993	Chloride	2.9	mg/L	1.0	02/10/23 23:14	
92651382007	YAT-YGWA-21I					
	Performed by	Client			03/03/23 11:06	
	Collected By	Jake Swanson			03/03/23 11:06	
	Collected Date	02/07/23			03/03/23 11:06	
	Collected Time	12:48			03/03/23 11:06	
	pH	6.82	Std. Units		03/03/23 11:06	
EPA 6010D	Potassium	3.2	mg/L	0.20	02/21/23 17:14	
EPA 6010D	Sodium	20.4	mg/L	1.0	02/21/23 17:14	
EPA 6010D	Calcium	7.5	mg/L	1.0	02/21/23 17:14	
EPA 6010D	Magnesium	3.9	mg/L	0.050	02/21/23 17:14	
EPA 6020B	Arsenic	0.0028J	mg/L	0.0050	02/21/23 18:30	
EPA 6020B	Barium	0.010	mg/L	0.0050	02/21/23 18:30	
EPA 6020B	Cadmium	0.00012J	mg/L	0.00050	02/21/23 18:30	
EPA 6020B	Cobalt	0.014	mg/L	0.0050	02/21/23 18:30	
EPA 6020B	Lithium	0.0059J	mg/L	0.030	02/21/23 18:30	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92651382

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92651382007	YAT-YGWA-21I					
EPA 7470A	Mercury	0.00017J	mg/L	0.00020	02/24/23 12:11	
SM 2540C-2015	Total Dissolved Solids	163	mg/L	25.0	02/10/23 20:19	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	78.4	mg/L	5.0	02/15/23 19:06	
SM 2320B-2011	Alkalinity, Total as CaCO3	78.4	mg/L	5.0	02/15/23 19:06	
EPA 300.0 Rev 2.1 1993	Chloride	2.4	mg/L	1.0	02/10/23 23:28	
EPA 300.0 Rev 2.1 1993	Fluoride	0.10	mg/L	0.10	02/10/23 23:28	
EPA 300.0 Rev 2.1 1993	Sulfate	3.8	mg/L	1.0	02/10/23 23:28	
92651382008	YAT-YGWA-17S					
	Performed by	Client			03/03/23 11:12	
	Collected By	Jake Swanson			03/03/23 11:12	
	Collected Date	02/07/23			03/03/23 11:12	
	Collected Time	11:16			03/03/23 11:12	
	pH	5.47	Std. Units		03/03/23 11:12	
EPA 6010D	Potassium	0.41	mg/L	0.20	02/22/23 15:47	
EPA 6010D	Sodium	14.2	mg/L	1.0	02/21/23 17:19	
EPA 6010D	Calcium	2.9	mg/L	1.0	02/21/23 17:19	
EPA 6010D	Magnesium	0.98	mg/L	0.050	02/21/23 17:19	
EPA 6020B	Antimony	0.0013J	mg/L	0.0030	02/21/23 19:05	
EPA 6020B	Barium	0.017	mg/L	0.0050	02/21/23 19:05	
EPA 6020B	Beryllium	0.000096J	mg/L	0.00050	02/21/23 19:05	
EPA 6020B	Boron	0.014J	mg/L	0.040	02/21/23 19:05	
EPA 7470A	Mercury	0.00018J	mg/L	0.00020	02/24/23 12:13	
SM 2540C-2015	Total Dissolved Solids	78.0	mg/L	25.0	02/13/23 11:02	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	15.6	mg/L	5.0	02/15/23 19:14	
SM 2320B-2011	Alkalinity, Total as CaCO3	15.6	mg/L	5.0	02/15/23 19:14	
EPA 300.0 Rev 2.1 1993	Chloride	11.4	mg/L	1.0	02/10/23 23:43	
EPA 300.0 Rev 2.1 1993	Sulfate	4.9	mg/L	1.0	02/10/23 23:43	
92651382009	YAT-YGWA-18S					
	Performed by	Client			03/03/23 11:14	
	Collected By	Jake Swanson			03/03/23 11:14	
	Collected Date	02/07/23			03/03/23 11:14	
	Collected Time	13:48			03/03/23 11:14	
	pH	5.03	Std. Units		03/03/23 11:14	
EPA 6010D	Sodium	7.8	mg/L	1.0	02/21/23 17:24	
EPA 6010D	Calcium	0.79J	mg/L	1.0	02/21/23 17:24	
EPA 6010D	Magnesium	0.91	mg/L	0.050	02/21/23 17:24	
EPA 6010D	Potassium	0.50	mg/L	0.20	02/22/23 15:52	
EPA 6020B	Barium	0.012	mg/L	0.0050	02/21/23 19:11	
EPA 6020B	Beryllium	0.000071J	mg/L	0.00050	02/21/23 19:11	
EPA 6020B	Chromium	0.0016J	mg/L	0.0050	02/21/23 19:11	
EPA 6020B	Lithium	0.0012J	mg/L	0.030	02/21/23 19:11	
EPA 7470A	Mercury	0.00017J	mg/L	0.00020	02/24/23 12:16	
SM 2540C-2015	Total Dissolved Solids	55.0	mg/L	25.0	02/13/23 11:02	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	9.3	mg/L	5.0	02/15/23 19:20	
SM 2320B-2011	Alkalinity, Total as CaCO3	9.3	mg/L	5.0	02/15/23 19:20	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92651382

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92651382009	YAT-YGWA-18S					
EPA 300.0 Rev 2.1 1993	Chloride	6.4	mg/L	1.0	02/10/23 23:58	
EPA 300.0 Rev 2.1 1993	Sulfate	1.2	mg/L	1.0	02/10/23 23:58	
92651382010	YAT-YGWA-18I					
	Performed by	Client			03/03/23 11:16	
	Collected By	Jake Swanson			03/03/23 11:16	
	Collected Date	02/07/23			03/03/23 11:16	
	Collected Time	12:31			03/03/23 11:16	
	pH	6.00	Std. Units		03/03/23 11:16	
EPA 6010D	Potassium	0.96	mg/L	0.20	02/21/23 17:29	
EPA 6010D	Sodium	12.6	mg/L	1.0	02/21/23 17:29	
EPA 6010D	Calcium	5.5	mg/L	1.0	02/21/23 17:29	
EPA 6010D	Magnesium	3.1	mg/L	0.050	02/21/23 17:29	
EPA 6020B	Barium	0.019	mg/L	0.0050	02/21/23 19:17	
EPA 6020B	Lithium	0.0030J	mg/L	0.030	02/21/23 19:17	
EPA 7470A	Mercury	0.00013J	mg/L	0.00020	02/24/23 12:18	
SM 2540C-2015	Total Dissolved Solids	96.0	mg/L	25.0	02/13/23 11:02	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	36.0	mg/L	5.0	02/15/23 19:34	
SM 2320B-2011	Alkalinity, Total as CaCO3	36.0	mg/L	5.0	02/15/23 19:34	
EPA 300.0 Rev 2.1 1993	Chloride	7.4	mg/L	1.0	02/11/23 00:13	
EPA 300.0 Rev 2.1 1993	Sulfate	0.78J	mg/L	1.0	02/11/23 00:13	
92651382011	YAT-YGWA-39					
	Performed by	Client			03/03/23 11:17	
	Collected By	Jake Swanson			03/03/23 11:17	
	Collected Date	02/07/23			03/03/23 11:17	
	Collected Time	16:15			03/03/23 11:17	
	pH	5.49	Std. Units		03/03/23 11:17	
EPA 6010D	Potassium	6.6	mg/L	0.20	02/21/23 17:34	
EPA 6010D	Sodium	28.1	mg/L	1.0	02/21/23 17:34	
EPA 6010D	Calcium	16.1	mg/L	1.0	02/21/23 17:34	
EPA 6010D	Magnesium	21.7	mg/L	0.050	02/21/23 17:34	
EPA 6020B	Arsenic	0.0029J	mg/L	0.0050	02/21/23 19:23	
EPA 6020B	Barium	0.030	mg/L	0.0050	02/21/23 19:23	
EPA 6020B	Boron	0.13	mg/L	0.040	02/21/23 19:23	
EPA 6020B	Cadmium	0.00014J	mg/L	0.00050	02/21/23 19:23	
EPA 6020B	Cobalt	0.00066J	mg/L	0.0050	02/21/23 19:23	
EPA 6020B	Lithium	0.0065J	mg/L	0.030	02/21/23 19:23	
EPA 6020B	Molybdenum	0.0045J	mg/L	0.010	02/21/23 19:23	
SM 2540C-2015	Total Dissolved Solids	224	mg/L	25.0	02/13/23 11:02	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	177	mg/L	5.0	02/15/23 19:41	
SM 2320B-2011	Alkalinity, Total as CaCO3	177	mg/L	5.0	02/15/23 19:41	
EPA 300.0 Rev 2.1 1993	Chloride	5.6	mg/L	1.0	02/11/23 00:58	
EPA 300.0 Rev 2.1 1993	Fluoride	0.076J	mg/L	0.10	02/11/23 00:58	
EPA 300.0 Rev 2.1 1993	Sulfate	9.7	mg/L	1.0	02/11/23 00:58	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92651382012	YAT-YGWA-47					
	Performed by	Client			03/03/23 14:32	
	Collected By	Jake Swanson			03/03/23 14:32	
	Collected Date	02/08/23			03/03/23 14:32	
	Collected Time	17:02			03/03/23 14:32	
	pH	5.22	Std. Units		03/03/23 14:32	
EPA 6010D	Potassium	3.7	mg/L	0.20	02/21/23 17:39	
EPA 6010D	Sodium	11.4	mg/L	1.0	02/21/23 17:39	
EPA 6010D	Calcium	9.2	mg/L	1.0	02/21/23 17:39	
EPA 6010D	Magnesium	10	mg/L	0.050	02/21/23 17:39	
EPA 6020B	Barium	0.031	mg/L	0.0050	02/21/23 19:29	
EPA 6020B	Boron	0.011J	mg/L	0.040	02/21/23 19:29	
EPA 6020B	Cadmium	0.00032J	mg/L	0.00050	02/21/23 19:29	
EPA 6020B	Cobalt	0.0011J	mg/L	0.0050	02/21/23 19:29	
EPA 6020B	Lithium	0.0037J	mg/L	0.030	02/21/23 19:29	
SM 2540C-2015	Total Dissolved Solids	141	mg/L	25.0	02/14/23 12:04	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	37.8	mg/L	5.0	02/17/23 13:25	
SM 2320B-2011	Alkalinity, Total as CaCO3	37.8	mg/L	5.0	02/17/23 13:25	
EPA 300.0 Rev 2.1 1993	Chloride	3.5	mg/L	1.0	02/14/23 05:10	
EPA 300.0 Rev 2.1 1993	Fluoride	0.077J	mg/L	0.10	02/14/23 05:10	
EPA 300.0 Rev 2.1 1993	Sulfate	50.5	mg/L	1.0	02/14/23 05:10	
92651382013	YAT-YGWA-30I					
	Performed by	Client			03/03/23 14:39	
	Collected By	Jake Swanson			03/03/23 14:39	
	Collected Date	02/08/23			03/03/23 14:39	
	Collected Time	15:10			03/03/23 14:39	
	pH	6.43	Std. Units		03/03/23 14:39	
EPA 6010D	Potassium	0.55	mg/L	0.20	02/21/23 17:44	
EPA 6010D	Sodium	6.0	mg/L	1.0	02/21/23 17:44	
EPA 6010D	Calcium	1.3	mg/L	1.0	02/21/23 17:44	
EPA 6010D	Magnesium	0.92	mg/L	0.050	02/21/23 17:44	
EPA 6020B	Barium	0.0066	mg/L	0.0050	02/21/23 19:35	
EPA 6020B	Chromium	0.0021J	mg/L	0.0050	02/21/23 19:35	
EPA 6020B	Cobalt	0.0031J	mg/L	0.0050	02/21/23 19:35	
EPA 6020B	Lithium	0.0011J	mg/L	0.030	02/21/23 19:35	
SM 2540C-2015	Total Dissolved Solids	43.0	mg/L	25.0	02/14/23 12:05	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	15.4	mg/L	5.0	02/17/23 13:32	
SM 2320B-2011	Alkalinity, Total as CaCO3	15.4	mg/L	5.0	02/17/23 13:32	
EPA 300.0 Rev 2.1 1993	Chloride	1.6	mg/L	1.0	02/14/23 05:25	
EPA 300.0 Rev 2.1 1993	Fluoride	0.064J	mg/L	0.10	02/14/23 05:25	
EPA 300.0 Rev 2.1 1993	Sulfate	0.96J	mg/L	1.0	02/14/23 05:25	
92651382014	YAT-YGWA-14S					
	Performed by	Client			03/03/23 14:54	
	Collected By	Jake Swanson			03/03/23 14:54	
	Collected Date	02/08/23			03/03/23 14:54	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92651382014	YAT-YGWA-14S					
	Collected Time	13:50			03/03/23 14:54	
	pH	5.39	Std. Units		03/03/23 14:54	
EPA 6010D	Potassium	0.87	mg/L	0.20	02/21/23 17:58	
EPA 6010D	Sodium	9.5	mg/L	1.0	02/21/23 17:58	
EPA 6010D	Calcium	1.5	mg/L	1.0	02/21/23 17:58	
EPA 6010D	Magnesium	1.6	mg/L	0.050	02/21/23 17:58	
EPA 6020B	Barium	0.0089	mg/L	0.0050	02/21/23 19:41	
EPA 6020B	Beryllium	0.00022J	mg/L	0.00050	02/21/23 19:41	
EPA 6020B	Boron	0.015J	mg/L	0.040	02/21/23 19:41	
SM 2540C-2015	Total Dissolved Solids	56.0	mg/L	25.0	02/14/23 12:06	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	13.0	mg/L	5.0	02/17/23 13:37	
SM 2320B-2011	Alkalinity, Total as CaCO3	13.0	mg/L	5.0	02/17/23 13:37	
EPA 300.0 Rev 2.1 1993	Chloride	4.9	mg/L	1.0	02/14/23 05:40	
EPA 300.0 Rev 2.1 1993	Fluoride	0.059J	mg/L	0.10	02/14/23 05:40	
EPA 300.0 Rev 2.1 1993	Sulfate	6.1	mg/L	1.0	02/14/23 05:40	
92651382015	YAT-YGWA-3I					
	Performed by	Client			03/03/23 14:55	
	Collected By	Jake Swanson			03/03/23 14:55	
	Collected Date	02/08/23			03/03/23 14:55	
	Collected Time	10:00			03/03/23 14:55	
	pH	7.73	Std. Units		03/03/23 14:55	
EPA 6010D	Potassium	5.3	mg/L	0.20	02/21/23 18:03	
EPA 6010D	Sodium	9.4	mg/L	1.0	02/21/23 18:03	
EPA 6010D	Calcium	23.3	mg/L	1.0	02/21/23 18:03	
EPA 6010D	Magnesium	5.4	mg/L	0.050	02/21/23 18:03	
EPA 6020B	Arsenic	0.0024J	mg/L	0.0050	02/21/23 19:47	
EPA 6020B	Barium	0.0029J	mg/L	0.0050	02/21/23 19:47	
EPA 6020B	Cadmium	0.00013J	mg/L	0.00050	02/21/23 19:47	
EPA 6020B	Lithium	0.018J	mg/L	0.030	02/21/23 19:47	
EPA 6020B	Molybdenum	0.0065J	mg/L	0.010	02/21/23 19:47	
SM 2540C-2015	Total Dissolved Solids	145	mg/L	25.0	02/14/23 12:07	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	92.2	mg/L	5.0	02/17/23 13:43	
SM 2320B-2011	Alkalinity, Total as CaCO3	92.2	mg/L	5.0	02/17/23 13:43	
EPA 300.0 Rev 2.1 1993	Chloride	1.1	mg/L	1.0	02/14/23 06:25	
EPA 300.0 Rev 2.1 1993	Fluoride	0.16	mg/L	0.10	02/14/23 06:25	
EPA 300.0 Rev 2.1 1993	Sulfate	14.7	mg/L	1.0	02/14/23 06:25	
92651382016	YAT-YGWA-3D					
	Performed by	Client			03/03/23 14:56	
	Collected By	Jake Swanson			03/03/23 14:56	
	Collected Date	02/08/23			03/03/23 14:56	
	Collected Time	11:40			03/03/23 14:56	
	pH	7.88	Std. Units		03/03/23 14:56	
EPA 6010D	Potassium	3.5	mg/L	0.20	02/21/23 18:08	
EPA 6010D	Sodium	9.9	mg/L	1.0	02/21/23 18:08	
EPA 6010D	Calcium	28.9	mg/L	1.0	02/21/23 18:08	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92651382016	YAT-YGWA-3D					
EPA 6010D	Magnesium	3.6	mg/L	0.050	02/21/23 18:08	
EPA 6020B	Arsenic	0.0030J	mg/L	0.0050	02/21/23 20:05	
EPA 6020B	Barium	0.0048J	mg/L	0.0050	02/21/23 20:05	
EPA 6020B	Lithium	0.023J	mg/L	0.030	02/21/23 20:05	
EPA 6020B	Molybdenum	0.012	mg/L	0.010	02/21/23 20:05	
SM 2540C-2015	Total Dissolved Solids	144	mg/L	25.0	02/14/23 12:07	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	106	mg/L	5.0	02/17/23 13:51	
SM 2320B-2011	Alkalinity, Total as CaCO3	106	mg/L	5.0	02/17/23 13:51	
EPA 300.0 Rev 2.1 1993	Chloride	1.2	mg/L	1.0	02/14/23 07:10	
EPA 300.0 Rev 2.1 1993	Fluoride	0.56	mg/L	0.10	02/14/23 07:10	
EPA 300.0 Rev 2.1 1993	Sulfate	7.5	mg/L	1.0	02/14/23 07:10	
92651382017	YAT-YGWA-40					
	Performed by	Client			03/03/23 14:57	
	Collected By	Jake Swanson			03/03/23 14:57	
	Collected Date	02/08/23			03/03/23 14:57	
	Collected Time	12:02			03/03/23 14:57	
	pH	5.71	Std. Units		03/03/23 14:57	
EPA 6010D	Potassium	2.2	mg/L	0.20	02/21/23 18:12	
EPA 6010D	Sodium	10.1	mg/L	1.0	02/21/23 18:12	
EPA 6010D	Calcium	5.9	mg/L	1.0	02/21/23 18:12	
EPA 6010D	Magnesium	3.4	mg/L	0.050	02/21/23 18:12	
EPA 6020B	Barium	0.037	mg/L	0.0050	02/21/23 20:11	
EPA 6020B	Beryllium	0.00026J	mg/L	0.00050	02/21/23 20:11	
EPA 6020B	Boron	0.057	mg/L	0.040	02/21/23 20:11	
EPA 6020B	Lithium	0.00074J	mg/L	0.030	02/21/23 20:11	
SM 2540C-2015	Total Dissolved Solids	115	mg/L	25.0	02/14/23 12:08	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	27.6	mg/L	5.0	02/17/23 14:09	
SM 2320B-2011	Alkalinity, Total as CaCO3	27.6	mg/L	5.0	02/17/23 14:09	
EPA 300.0 Rev 2.1 1993	Chloride	6.9	mg/L	1.0	02/14/23 08:10	
EPA 300.0 Rev 2.1 1993	Sulfate	17.5	mg/L	1.0	02/14/23 08:10	
92651382018	YAT-YGWA-41					
	Performed by	Client			03/03/23 14:57	
	Collected By	Jake Swanson			03/03/23 14:57	
	Collected Date	02/09/23			03/03/23 14:57	
	Collected Time	09:55			03/03/23 14:57	
	pH	6.23	Std. Units		03/03/23 14:57	
EPA 6010D	Potassium	4.1	mg/L	0.20	02/21/23 18:17	
EPA 6010D	Sodium	9.9	mg/L	1.0	02/21/23 18:17	
EPA 6010D	Calcium	9.6	mg/L	1.0	02/21/23 18:17	
EPA 6010D	Magnesium	5.3	mg/L	0.050	02/21/23 18:17	
EPA 6020B	Barium	0.014	mg/L	0.0050	02/21/23 20:17	
EPA 6020B	Lithium	0.014J	mg/L	0.030	02/21/23 20:17	
SM 2540C-2015	Total Dissolved Solids	124	mg/L	25.0	02/15/23 18:40	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	57.7	mg/L	5.0	02/17/23 18:12	
SM 2320B-2011	Alkalinity, Total as CaCO3	57.7	mg/L	5.0	02/17/23 18:12	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92651382

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92651382018	YAT-YGWA-4I					
EPA 300.0 Rev 2.1 1993	Chloride	4.5	mg/L	1.0	02/14/23 21:36	
EPA 300.0 Rev 2.1 1993	Fluoride	0.067J	mg/L	0.10	02/14/23 21:36	
EPA 300.0 Rev 2.1 1993	Sulfate	8.9	mg/L	1.0	02/14/23 21:36	
92651382019	YAT-YGWA-5I					
	Performed by	Client			03/03/23 14:58	
	Collected By	Jake Swanson			03/03/23 14:58	
	Collected Date	02/09/23			03/03/23 14:58	
	Collected Time	11:26			03/03/23 14:58	
	pH	5.90	Std. Units		03/03/23 14:58	
EPA 6010D	Potassium	1.6	mg/L	0.20	02/21/23 18:22	
EPA 6010D	Sodium	10.8	mg/L	1.0	02/21/23 18:22	
EPA 6010D	Calcium	2.8	mg/L	1.0	02/21/23 18:22	
EPA 6010D	Magnesium	2.7	mg/L	0.050	02/21/23 18:22	
EPA 6020B	Barium	0.019	mg/L	0.0050	02/21/23 20:23	
EPA 6020B	Chromium	0.0012J	mg/L	0.0050	02/21/23 20:23	
EPA 6020B	Lithium	0.0036J	mg/L	0.030	02/21/23 20:23	
SM 2540C-2015	Total Dissolved Solids	59.0	mg/L	25.0	02/15/23 18:40	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	26.4	mg/L	5.0	02/17/23 18:31	
SM 2320B-2011	Alkalinity, Total as CaCO3	26.4	mg/L	5.0	02/17/23 18:31	
EPA 300.0 Rev 2.1 1993	Chloride	5.0	mg/L	1.0	02/14/23 21:51	
EPA 300.0 Rev 2.1 1993	Sulfate	2.9	mg/L	1.0	02/14/23 21:51	

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ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Sample: YAT-YGWA-11		Lab ID: 92651382001		Collected: 02/07/23 11:45		Received: 02/08/23 09:00		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	Client				1		03/03/23 10:59		
Collected By	Jake Swanson				1		03/03/23 10:59		
Collected Date	02/07/23				1		03/03/23 10:59		
Collected Time	11:45				1		03/03/23 10:59		
pH	6.53	Std. Units			1		03/03/23 10:59		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Potassium	2.0	mg/L	0.20	0.15	1	02/20/23 17:00	02/21/23 16:05	7440-09-7	
Sodium	5.6	mg/L	1.0	0.58	1	02/20/23 17:00	02/21/23 16:05	7440-23-5	
Calcium	2.2	mg/L	1.0	0.12	1	02/20/23 17:00	02/21/23 16:05	7440-70-2	
Magnesium	1.5	mg/L	0.050	0.012	1	02/20/23 17:00	02/21/23 16:05	7439-95-4	
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	02/20/23 17:00	02/21/23 17:54	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/20/23 17:00	02/21/23 17:54	7440-38-2	
Barium	0.21	mg/L	0.0050	0.00067	1	02/20/23 17:00	02/21/23 17:54	7440-39-3	
Beryllium	0.00054	mg/L	0.00050	0.000054	1	02/20/23 17:00	02/21/23 17:54	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/20/23 17:00	02/21/23 17:54	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/20/23 17:00	02/21/23 17:54	7440-43-9	
Chromium	0.0013J	mg/L	0.0050	0.0011	1	02/20/23 17:00	02/21/23 17:54	7440-47-3	
Cobalt	0.0048J	mg/L	0.0050	0.00039	1	02/20/23 17:00	02/21/23 17:54	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/20/23 17:00	02/21/23 17:54	7439-92-1	
Lithium	0.0029J	mg/L	0.030	0.00073	1	02/20/23 17:00	02/21/23 17:54	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/20/23 17:00	02/21/23 17:54	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/20/23 17:00	02/21/23 17:54	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/20/23 17:00	02/21/23 17:54	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	02/24/23 07:00	02/24/23 11:49	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	121	mg/L	25.0	25.0	1		02/10/23 20:18		
2320B Alkalinity									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	20.4	mg/L	5.0	5.0	1		02/15/23 17:28		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/15/23 17:28		
Alkalinity, Total as CaCO3	20.4	mg/L	5.0	5.0	1		02/15/23 17:28		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92651382

Sample: YAT-YGWA-11 **Lab ID: 92651382001** Collected: 02/07/23 11:45 Received: 02/08/23 09:00 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	1.5	mg/L	1.0	0.60	1		02/10/23 21:29	16887-00-6	
Fluoride	0.071J	mg/L	0.10	0.050	1		02/10/23 21:29	16984-48-8	
Sulfate	6.6	mg/L	1.0	0.50	1		02/10/23 21:29	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Sample: YAT-YGWA-1D Lab ID: 92651382002 Collected: 02/07/23 13:40 Received: 02/08/23 09:00 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	Client				1		03/03/23 11:00		
Collected By	Jake Swanson				1		03/03/23 11:00		
Collected Date	02/07/23				1		03/03/23 11:00		
Collected Time	13:40				1		03/03/23 11:00		
pH	7.86	Std. Units			1		03/03/23 11:00		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Potassium	4.8	mg/L	0.20	0.15	1	02/20/23 17:00	02/21/23 16:10	7440-09-7	
Sodium	11.5	mg/L	1.0	0.58	1	02/20/23 17:00	02/21/23 16:10	7440-23-5	
Calcium	15.0	mg/L	1.0	0.12	1	02/20/23 17:00	02/21/23 16:10	7440-70-2	
Magnesium	1.9	mg/L	0.050	0.012	1	02/20/23 17:00	02/21/23 16:10	7439-95-4	
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	02/20/23 17:00	02/21/23 18:00	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/20/23 17:00	02/21/23 18:00	7440-38-2	
Barium	0.14	mg/L	0.0050	0.00067	1	02/20/23 17:00	02/21/23 18:00	7440-39-3	
Beryllium	0.0011	mg/L	0.00050	0.000054	1	02/20/23 17:00	02/21/23 18:00	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/20/23 17:00	02/21/23 18:00	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/20/23 17:00	02/21/23 18:00	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/20/23 17:00	02/21/23 18:00	7440-47-3	
Cobalt	0.00097J	mg/L	0.0050	0.00039	1	02/20/23 17:00	02/21/23 18:00	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/20/23 17:00	02/21/23 18:00	7439-92-1	
Lithium	0.0060J	mg/L	0.030	0.00073	1	02/20/23 17:00	02/21/23 18:00	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/20/23 17:00	02/21/23 18:00	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/20/23 17:00	02/21/23 18:00	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/20/23 17:00	02/21/23 18:00	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	02/24/23 07:00	02/24/23 11:52	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	131	mg/L	25.0	25.0	1		02/10/23 20:18		
2320B Alkalinity									
Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	65.4	mg/L	5.0	5.0	1		02/15/23 17:46		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/15/23 17:46		
Alkalinity, Total as CaCO3	65.4	mg/L	5.0	5.0	1		02/15/23 17:46		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92651382

Sample: YAT-YGWA-1D **Lab ID: 92651382002** Collected: 02/07/23 13:40 Received: 02/08/23 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
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	0.60	1		02/10/23 21:44	16887-00-6	
Fluoride	0.093J	mg/L	0.10	0.050	1		02/10/23 21:44	16984-48-8	
Sulfate	10.6	mg/L	1.0	0.50	1		02/10/23 21:44	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Sample: YAT-YGWA-2I Lab ID: 92651382003 Collected: 02/07/23 15:40 Received: 02/08/23 09:00 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	Client				1		03/03/23 11:00		
Collected By	Jake Swanson				1		03/03/23 11:00		
Collected Date	02/07/23				1		03/03/23 11:00		
Collected Time	15:40				1		03/03/23 11:00		
pH	6.94	Std. Units			1		03/03/23 11:00		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Potassium	5.1	mg/L	0.20	0.15	1	02/20/23 17:00	02/21/23 16:15	7440-09-7	
Sodium	9.0	mg/L	1.0	0.58	1	02/20/23 17:00	02/21/23 16:15	7440-23-5	M1
Calcium	25.6	mg/L	1.0	0.12	1	02/20/23 17:00	02/21/23 16:15	7440-70-2	M1
Magnesium	4.1	mg/L	0.050	0.012	1	02/20/23 17:00	02/21/23 16:15	7439-95-4	
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	02/20/23 17:00	02/21/23 18:06	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/20/23 17:00	02/21/23 18:06	7440-38-2	
Barium	0.0026J	mg/L	0.0050	0.00067	1	02/20/23 17:00	02/21/23 18:06	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/20/23 17:00	02/21/23 18:06	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/20/23 17:00	02/21/23 18:06	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/20/23 17:00	02/21/23 18:06	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/20/23 17:00	02/21/23 18:06	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/20/23 17:00	02/21/23 18:06	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/20/23 17:00	02/21/23 18:06	7439-92-1	
Lithium	0.0047J	mg/L	0.030	0.00073	1	02/20/23 17:00	02/21/23 18:06	7439-93-2	
Molybdenum	0.0061J	mg/L	0.010	0.00074	1	02/20/23 17:00	02/21/23 18:06	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/20/23 17:00	02/21/23 18:06	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/20/23 17:00	02/21/23 18:06	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	02/24/23 07:00	02/24/23 11:55	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	159	mg/L	25.0	25.0	1		02/10/23 20:18		
2320B Alkalinity									
Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	87.6	mg/L	5.0	5.0	1		02/15/23 18:36		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/15/23 18:36		
Alkalinity, Total as CaCO3	87.6	mg/L	5.0	5.0	1		02/15/23 18:36		

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ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92651382

Sample: YAT-YGWA-2I **Lab ID: 92651382003** Collected: 02/07/23 15:40 Received: 02/08/23 09:00 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
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	0.60	1		02/10/23 21:59	16887-00-6	
Fluoride	0.12	mg/L	0.10	0.050	1		02/10/23 21:59	16984-48-8	
Sulfate	17.8	mg/L	1.0	0.50	1		02/10/23 21:59	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92651382

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Sample: YAT-GWA-2									
Lab ID: 92651382004									
Collected: 02/07/23 11:48									
Received: 02/08/23 09:00									
Matrix: Water									
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	Client				1		03/03/23 11:01		
Collected By	Jake Swanson				1		03/03/23 11:01		
Collected Date	02/07/23				1		03/03/23 11:01		
Collected Time	11:48				1		03/03/23 11:01		
pH	5.94	Std. Units			1		03/03/23 11:01		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Potassium	9.5	mg/L	0.20	0.15	1	02/20/23 17:00	02/21/23 17:00	7440-09-7	
Sodium	8.1	mg/L	1.0	0.58	1	02/20/23 17:00	02/21/23 17:00	7440-23-5	
Calcium	22.3	mg/L	1.0	0.12	1	02/20/23 17:00	02/21/23 17:00	7440-70-2	
Magnesium	19.3	mg/L	0.050	0.012	1	02/20/23 17:00	02/21/23 17:00	7439-95-4	
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	02/20/23 17:00	02/21/23 18:12	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/20/23 17:00	02/21/23 18:12	7440-38-2	
Barium	0.034	mg/L	0.0050	0.00067	1	02/20/23 17:00	02/21/23 18:12	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/20/23 17:00	02/21/23 18:12	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/20/23 17:00	02/21/23 18:12	7440-42-8	
Cadmium	0.00012J	mg/L	0.00050	0.00011	1	02/20/23 17:00	02/21/23 18:12	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/20/23 17:00	02/21/23 18:12	7440-47-3	
Cobalt	0.034	mg/L	0.0050	0.00039	1	02/20/23 17:00	02/21/23 18:12	7440-48-4	
Copper	ND	mg/L	0.0050	0.0010	1	02/20/23 17:00	02/21/23 18:12	7440-50-8	
Lead	ND	mg/L	0.0010	0.00089	1	02/20/23 17:00	02/21/23 18:12	7439-92-1	
Lithium	0.0022J	mg/L	0.030	0.00073	1	02/20/23 17:00	02/21/23 18:12	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/20/23 17:00	02/21/23 18:12	7439-98-7	
Nickel	0.0096	mg/L	0.0050	0.00071	1	02/20/23 17:00	02/21/23 18:12	7440-02-0	
Selenium	ND	mg/L	0.0050	0.0014	1	02/20/23 17:00	02/21/23 18:12	7782-49-2	
Silver	ND	mg/L	0.0050	0.00044	1	02/20/23 17:00	02/21/23 18:12	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00018	1	02/20/23 17:00	02/21/23 18:12	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	02/20/23 17:00	02/21/23 18:12	7440-62-2	
Zinc	0.0072J	mg/L	0.010	0.0070	1	02/20/23 17:00	02/21/23 18:12	7440-66-6	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	0.00013J	mg/L	0.00020	0.00013	1	02/24/23 07:00	02/24/23 12:03	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	207	mg/L	25.0	25.0	1		02/10/23 20:18		

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ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92651382

Sample: YAT-GWA-2 **Lab ID: 92651382004** Collected: 02/07/23 11:48 Received: 02/08/23 09:00 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
2320B Alkalinity									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO ₃)	62.4	mg/L	5.0	5.0	1		02/15/23 18:45		
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	5.0	5.0	1		02/15/23 18:45		
Alkalinity, Total as CaCO ₃	62.4	mg/L	5.0	5.0	1		02/15/23 18:45		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	6.1	mg/L	1.0	0.60	1		02/10/23 22:14	16887-00-6	
Fluoride	0.095J	mg/L	0.10	0.050	1		02/10/23 22:14	16984-48-8	
Sulfate	82.4	mg/L	1.0	0.50	1		02/10/23 22:14	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Sample: YAT-YGWA-5D		Lab ID: 92651382005		Collected: 02/07/23 16:22		Received: 02/08/23 09:00		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	Client				1		03/03/23 11:05		
Collected By	Jake Swanson				1		03/03/23 11:05		
Collected Date	02/07/23				1		03/03/23 11:05		
Collected Time	16:22				1		03/03/23 11:05		
pH	6.64	Std. Units			1		03/03/23 11:05		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Potassium	3.7	mg/L	0.20	0.15	1	02/20/23 17:00	02/21/23 17:05	7440-09-7	
Sodium	9.7	mg/L	1.0	0.58	1	02/20/23 17:00	02/21/23 17:05	7440-23-5	
Calcium	26.6	mg/L	1.0	0.12	1	02/20/23 17:00	02/21/23 17:05	7440-70-2	
Magnesium	4.6	mg/L	0.050	0.012	1	02/20/23 17:00	02/21/23 17:05	7439-95-4	
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	02/20/23 17:00	02/21/23 18:18	7440-36-0	
Arsenic	0.0030J	mg/L	0.0050	0.0022	1	02/20/23 17:00	02/21/23 18:18	7440-38-2	
Barium	0.0075	mg/L	0.0050	0.00067	1	02/20/23 17:00	02/21/23 18:18	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/20/23 17:00	02/21/23 18:18	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/20/23 17:00	02/21/23 18:18	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/20/23 17:00	02/21/23 18:18	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/20/23 17:00	02/21/23 18:18	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/20/23 17:00	02/21/23 18:18	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/20/23 17:00	02/21/23 18:18	7439-92-1	
Lithium	0.0059J	mg/L	0.030	0.00073	1	02/20/23 17:00	02/21/23 18:18	7439-93-2	
Molybdenum	0.00095J	mg/L	0.010	0.00074	1	02/20/23 17:00	02/21/23 18:18	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/20/23 17:00	02/21/23 18:18	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/20/23 17:00	02/21/23 18:18	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	02/24/23 07:00	02/24/23 12:05	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	180	mg/L	25.0	25.0	1		02/10/23 20:19		
2320B Alkalinity									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	96.5	mg/L	5.0	5.0	1		02/15/23 18:52		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/15/23 18:52		
Alkalinity, Total as CaCO3	96.5	mg/L	5.0	5.0	1		02/15/23 18:52		

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ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92651382

Sample: YAT-YGWA-5D **Lab ID: 92651382005** Collected: 02/07/23 16:22 Received: 02/08/23 09:00 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
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		02/10/23 22:29	16887-00-6	
Fluoride	0.082J	mg/L	0.10	0.050	1		02/10/23 22:29	16984-48-8	
Sulfate	5.2	mg/L	1.0	0.50	1		02/10/23 22:29	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Sample: YAT-YGWA-20S		Lab ID: 92651382006		Collected: 02/07/23 14:50		Received: 02/08/23 09:00		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	Client				1		03/03/23 11:05		
Collected By	Jake Swanson				1		03/03/23 11:05		
Collected Date	02/07/23				1		03/03/23 11:05		
Collected Time	14:50				1		03/03/23 11:05		
pH	5.63	Std. Units			1		03/03/23 11:05		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Potassium	0.55	mg/L	0.20	0.15	1	02/20/23 17:00	02/21/23 17:10	7440-09-7	
Sodium	8.7	mg/L	1.0	0.58	1	02/20/23 17:00	02/21/23 17:10	7440-23-5	
Calcium	2.4	mg/L	1.0	0.12	1	02/20/23 17:00	02/21/23 17:10	7440-70-2	
Magnesium	0.58	mg/L	0.050	0.012	1	02/20/23 17:00	02/21/23 17:10	7439-95-4	
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	02/20/23 17:00	02/21/23 18:24	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/20/23 17:00	02/21/23 18:24	7440-38-2	
Barium	0.014	mg/L	0.0050	0.00067	1	02/20/23 17:00	02/21/23 18:24	7440-39-3	
Beryllium	0.000074J	mg/L	0.00050	0.000054	1	02/20/23 17:00	02/21/23 18:24	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/20/23 17:00	02/21/23 18:24	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/20/23 17:00	02/21/23 18:24	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/20/23 17:00	02/21/23 18:24	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/20/23 17:00	02/21/23 18:24	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/20/23 17:00	02/21/23 18:24	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/20/23 17:00	02/21/23 18:24	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/20/23 17:00	02/21/23 18:24	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/20/23 17:00	02/21/23 18:24	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/20/23 17:00	02/21/23 18:24	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	0.00015J	mg/L	0.00020	0.00013	1	02/24/23 07:00	02/24/23 12:08	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	89.0	mg/L	25.0	25.0	1		02/10/23 20:19		
2320B Alkalinity									
Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	23.3	mg/L	5.0	5.0	1		02/15/23 19:00		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/15/23 19:00		
Alkalinity, Total as CaCO3	23.3	mg/L	5.0	5.0	1		02/15/23 19:00		

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ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92651382

Sample: YAT-YGWA-20S **Lab ID: 92651382006** Collected: 02/07/23 14:50 Received: 02/08/23 09:00 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	2.9	mg/L	1.0	0.60	1		02/10/23 23:14	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/10/23 23:14	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		02/10/23 23:14	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Sample: YAT-YGWA-211									
Lab ID: 92651382007									
Collected: 02/07/23 12:48									
Received: 02/08/23 09:00									
Matrix: Water									
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	Client				1		03/03/23 11:06		
Collected By	Jake Swanson				1		03/03/23 11:06		
Collected Date	02/07/23				1		03/03/23 11:06		
Collected Time	12:48				1		03/03/23 11:06		
pH	6.82	Std. Units			1		03/03/23 11:06		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Potassium	3.2	mg/L	0.20	0.15	1	02/20/23 17:00	02/21/23 17:14	7440-09-7	
Sodium	20.4	mg/L	1.0	0.58	1	02/20/23 17:00	02/21/23 17:14	7440-23-5	
Calcium	7.5	mg/L	1.0	0.12	1	02/20/23 17:00	02/21/23 17:14	7440-70-2	
Magnesium	3.9	mg/L	0.050	0.012	1	02/20/23 17:00	02/21/23 17:14	7439-95-4	
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	02/20/23 17:00	02/21/23 18:30	7440-36-0	
Arsenic	0.0028J	mg/L	0.0050	0.0022	1	02/20/23 17:00	02/21/23 18:30	7440-38-2	
Barium	0.010	mg/L	0.0050	0.00067	1	02/20/23 17:00	02/21/23 18:30	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/20/23 17:00	02/21/23 18:30	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/20/23 17:00	02/21/23 18:30	7440-42-8	
Cadmium	0.00012J	mg/L	0.00050	0.00011	1	02/20/23 17:00	02/21/23 18:30	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/20/23 17:00	02/21/23 18:30	7440-47-3	
Cobalt	0.014	mg/L	0.0050	0.00039	1	02/20/23 17:00	02/21/23 18:30	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/20/23 17:00	02/21/23 18:30	7439-92-1	
Lithium	0.0059J	mg/L	0.030	0.00073	1	02/20/23 17:00	02/21/23 18:30	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/20/23 17:00	02/21/23 18:30	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/20/23 17:00	02/21/23 18:30	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/20/23 17:00	02/21/23 18:30	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	0.00017J	mg/L	0.00020	0.00013	1	02/24/23 07:00	02/24/23 12:11	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	163	mg/L	25.0	25.0	1		02/10/23 20:19		
2320B Alkalinity									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO ₃)	78.4	mg/L	5.0	5.0	1		02/15/23 19:06		
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	5.0	5.0	1		02/15/23 19:06		
Alkalinity, Total as CaCO ₃	78.4	mg/L	5.0	5.0	1		02/15/23 19:06		

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ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92651382

Sample: YAT-YGWA-211 **Lab ID: 92651382007** Collected: 02/07/23 12:48 Received: 02/08/23 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	2.4	mg/L	1.0	0.60	1		02/10/23 23:28	16887-00-6	
Fluoride	0.10	mg/L	0.10	0.050	1		02/10/23 23:28	16984-48-8	
Sulfate	3.8	mg/L	1.0	0.50	1		02/10/23 23:28	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92651382

Sample: YAT-YGWA-17S **Lab ID: 92651382008** Collected: 02/07/23 11:16 Received: 02/08/23 09:00 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	Client				1		03/03/23 11:12		
Collected By	Jake Swanson				1		03/03/23 11:12		
Collected Date	02/07/23				1		03/03/23 11:12		
Collected Time	11:16				1		03/03/23 11:12		
pH	5.47	Std. Units			1		03/03/23 11:12		

6010D ATL ICP

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

Potassium	0.41	mg/L	0.20	0.15	1	02/20/23 17:00	02/22/23 15:47	7440-09-7	
Sodium	14.2	mg/L	1.0	0.58	1	02/20/23 17:00	02/21/23 17:19	7440-23-5	
Calcium	2.9	mg/L	1.0	0.12	1	02/20/23 17:00	02/21/23 17:19	7440-70-2	
Magnesium	0.98	mg/L	0.050	0.012	1	02/20/23 17:00	02/21/23 17:19	7439-95-4	

6020 MET ICPMS

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

Antimony	0.0013J	mg/L	0.0030	0.00078	1	02/20/23 17:00	02/21/23 19:05	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/20/23 17:00	02/21/23 19:05	7440-38-2	
Barium	0.017	mg/L	0.0050	0.00067	1	02/20/23 17:00	02/21/23 19:05	7440-39-3	
Beryllium	0.000096J	mg/L	0.00050	0.000054	1	02/20/23 17:00	02/21/23 19:05	7440-41-7	
Boron	0.014J	mg/L	0.040	0.0086	1	02/20/23 17:00	02/21/23 19:05	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/20/23 17:00	02/21/23 19:05	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/20/23 17:00	02/21/23 19:05	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/20/23 17:00	02/21/23 19:05	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/20/23 17:00	02/21/23 19:05	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/20/23 17:00	02/21/23 19:05	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/20/23 17:00	02/21/23 19:05	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/20/23 17:00	02/21/23 19:05	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/20/23 17:00	02/21/23 19:05	7440-28-0	

7470 Mercury

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

Mercury	0.00018J	mg/L	0.00020	0.00013	1	02/24/23 07:00	02/24/23 12:13	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	78.0	mg/L	25.0	25.0	1		02/13/23 11:02		
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2320B Alkalinity

Analytical Method: SM 2320B-2011
Pace Analytical Services - Asheville

Alkalinity, Bicarbonate (CaCO ₃)	15.6	mg/L	5.0	5.0	1		02/15/23 19:14		
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	5.0	5.0	1		02/15/23 19:14		
Alkalinity, Total as CaCO ₃	15.6	mg/L	5.0	5.0	1		02/15/23 19:14		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92651382

Sample: YAT-YGWA-17S **Lab ID: 92651382008** Collected: 02/07/23 11:16 Received: 02/08/23 09:00 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	11.4	mg/L	1.0	0.60	1		02/10/23 23:43	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/10/23 23:43	16984-48-8	
Sulfate	4.9	mg/L	1.0	0.50	1		02/10/23 23:43	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Sample: YAT-YGWA-18S									
Lab ID: 92651382009									
Collected: 02/07/23 13:48									
Received: 02/08/23 09:00									
Matrix: Water									
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	Client				1		03/03/23 11:14		
Collected By	Jake Swanson				1		03/03/23 11:14		
Collected Date	02/07/23				1		03/03/23 11:14		
Collected Time	13:48				1		03/03/23 11:14		
pH	5.03	Std. Units			1		03/03/23 11:14		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Sodium	7.8	mg/L	1.0	0.58	1	02/20/23 17:00	02/21/23 17:24	7440-23-5	
Calcium	0.79J	mg/L	1.0	0.12	1	02/20/23 17:00	02/21/23 17:24	7440-70-2	
Magnesium	0.91	mg/L	0.050	0.012	1	02/20/23 17:00	02/21/23 17:24	7439-95-4	
Potassium	0.50	mg/L	0.20	0.15	1	02/20/23 17:00	02/22/23 15:52	7440-09-7	
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	02/20/23 17:00	02/21/23 19:11	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/20/23 17:00	02/21/23 19:11	7440-38-2	
Barium	0.012	mg/L	0.0050	0.00067	1	02/20/23 17:00	02/21/23 19:11	7440-39-3	
Beryllium	0.000071J	mg/L	0.00050	0.000054	1	02/20/23 17:00	02/21/23 19:11	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/20/23 17:00	02/21/23 19:11	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/20/23 17:00	02/21/23 19:11	7440-43-9	
Chromium	0.0016J	mg/L	0.0050	0.0011	1	02/20/23 17:00	02/21/23 19:11	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/20/23 17:00	02/21/23 19:11	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/20/23 17:00	02/21/23 19:11	7439-92-1	
Lithium	0.0012J	mg/L	0.030	0.00073	1	02/20/23 17:00	02/21/23 19:11	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/20/23 17:00	02/21/23 19:11	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/20/23 17:00	02/21/23 19:11	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/20/23 17:00	02/21/23 19:11	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	0.00017J	mg/L	0.00020	0.00013	1	02/24/23 07:00	02/24/23 12:16	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	55.0	mg/L	25.0	25.0	1		02/13/23 11:02		
2320B Alkalinity									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	9.3	mg/L	5.0	5.0	1		02/15/23 19:20		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/15/23 19:20		
Alkalinity, Total as CaCO3	9.3	mg/L	5.0	5.0	1		02/15/23 19:20		

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ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92651382

Sample: YAT-YGWA-18S **Lab ID: 92651382009** Collected: 02/07/23 13:48 Received: 02/08/23 09:00 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	6.4	mg/L	1.0	0.60	1		02/10/23 23:58	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/10/23 23:58	16984-48-8	
Sulfate	1.2	mg/L	1.0	0.50	1		02/10/23 23:58	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92651382

Sample: YAT-YGWA-18I **Lab ID: 92651382010** Collected: 02/07/23 12:31 Received: 02/08/23 09:00 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	Client				1		03/03/23 11:16		
Collected By	Jake Swanson				1		03/03/23 11:16		
Collected Date	02/07/23				1		03/03/23 11:16		
Collected Time	12:31				1		03/03/23 11:16		
pH	6.00	Std. Units			1		03/03/23 11:16		

6010D ATL ICP

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

Potassium	0.96	mg/L	0.20	0.15	1	02/20/23 17:00	02/21/23 17:29	7440-09-7	
Sodium	12.6	mg/L	1.0	0.58	1	02/20/23 17:00	02/21/23 17:29	7440-23-5	
Calcium	5.5	mg/L	1.0	0.12	1	02/20/23 17:00	02/21/23 17:29	7440-70-2	
Magnesium	3.1	mg/L	0.050	0.012	1	02/20/23 17:00	02/21/23 17:29	7439-95-4	

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	02/20/23 17:00	02/21/23 19:17	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/20/23 17:00	02/21/23 19:17	7440-38-2	
Barium	0.019	mg/L	0.0050	0.00067	1	02/20/23 17:00	02/21/23 19:17	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/20/23 17:00	02/21/23 19:17	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/20/23 17:00	02/21/23 19:17	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/20/23 17:00	02/21/23 19:17	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/20/23 17:00	02/21/23 19:17	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/20/23 17:00	02/21/23 19:17	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/20/23 17:00	02/21/23 19:17	7439-92-1	
Lithium	0.0030J	mg/L	0.030	0.00073	1	02/20/23 17:00	02/21/23 19:17	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/20/23 17:00	02/21/23 19:17	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/20/23 17:00	02/21/23 19:17	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/20/23 17:00	02/21/23 19:17	7440-28-0	

7470 Mercury

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

Mercury	0.00013J	mg/L	0.00020	0.00013	1	02/24/23 07:00	02/24/23 12:18	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	96.0	mg/L	25.0	25.0	1		02/13/23 11:02		
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2320B Alkalinity

Analytical Method: SM 2320B-2011
Pace Analytical Services - Asheville

Alkalinity,Bicarbonate (CaCO3)	36.0	mg/L	5.0	5.0	1		02/15/23 19:34		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/15/23 19:34		
Alkalinity, Total as CaCO3	36.0	mg/L	5.0	5.0	1		02/15/23 19:34		

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ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92651382

Sample: YAT-YGWA-18I **Lab ID: 92651382010** Collected: 02/07/23 12:31 Received: 02/08/23 09:00 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	7.4	mg/L	1.0	0.60	1		02/11/23 00:13	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/11/23 00:13	16984-48-8	
Sulfate	0.78J	mg/L	1.0	0.50	1		02/11/23 00:13	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Sample: YAT-YGWA-39 Lab ID: 92651382011 Collected: 02/07/23 16:15 Received: 02/08/23 09:00 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	Client				1		03/03/23 11:17		
Collected By	Jake Swanson				1		03/03/23 11:17		
Collected Date	02/07/23				1		03/03/23 11:17		
Collected Time	16:15				1		03/03/23 11:17		
pH	5.49	Std. Units			1		03/03/23 11:17		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Potassium	6.6	mg/L	0.20	0.15	1	02/20/23 17:00	02/21/23 17:34	7440-09-7	
Sodium	28.1	mg/L	1.0	0.58	1	02/20/23 17:00	02/21/23 17:34	7440-23-5	
Calcium	16.1	mg/L	1.0	0.12	1	02/20/23 17:00	02/21/23 17:34	7440-70-2	
Magnesium	21.7	mg/L	0.050	0.012	1	02/20/23 17:00	02/21/23 17:34	7439-95-4	
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	02/20/23 17:00	02/21/23 19:23	7440-36-0	
Arsenic	0.0029J	mg/L	0.0050	0.0022	1	02/20/23 17:00	02/21/23 19:23	7440-38-2	
Barium	0.030	mg/L	0.0050	0.00067	1	02/20/23 17:00	02/21/23 19:23	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/20/23 17:00	02/21/23 19:23	7440-41-7	
Boron	0.13	mg/L	0.040	0.0086	1	02/20/23 17:00	02/21/23 19:23	7440-42-8	
Cadmium	0.00014J	mg/L	0.00050	0.00011	1	02/20/23 17:00	02/21/23 19:23	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/20/23 17:00	02/21/23 19:23	7440-47-3	
Cobalt	0.00066J	mg/L	0.0050	0.00039	1	02/20/23 17:00	02/21/23 19:23	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/20/23 17:00	02/21/23 19:23	7439-92-1	
Lithium	0.0065J	mg/L	0.030	0.00073	1	02/20/23 17:00	02/21/23 19:23	7439-93-2	
Molybdenum	0.0045J	mg/L	0.010	0.00074	1	02/20/23 17:00	02/21/23 19:23	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/20/23 17:00	02/21/23 19:23	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/20/23 17:00	02/21/23 19:23	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	02/27/23 15:15	02/28/23 09:15	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	224	mg/L	25.0	25.0	1		02/13/23 11:02		
2320B Alkalinity									
Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO ₃)	177	mg/L	5.0	5.0	1		02/15/23 19:41		
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	5.0	5.0	1		02/15/23 19:41		
Alkalinity, Total as CaCO ₃	177	mg/L	5.0	5.0	1		02/15/23 19:41		

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ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92651382

Sample: YAT-YGWA-39 **Lab ID: 92651382011** Collected: 02/07/23 16:15 Received: 02/08/23 09:00 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
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		02/11/23 00:58	16887-00-6	
Fluoride	0.076J	mg/L	0.10	0.050	1		02/11/23 00:58	16984-48-8	
Sulfate	9.7	mg/L	1.0	0.50	1		02/11/23 00:58	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Sample: YAT-YGWA-47	Lab ID: 92651382012	Collected: 02/08/23 17:02	Received: 02/09/23 12:35	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	Client				1		03/03/23 14:32		
Collected By	Jake Swanson				1		03/03/23 14:32		
Collected Date	02/08/23				1		03/03/23 14:32		
Collected Time	17:02				1		03/03/23 14:32		
pH	5.22	Std. Units			1		03/03/23 14:32		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Potassium	3.7	mg/L	0.20	0.15	1	02/20/23 17:00	02/21/23 17:39	7440-09-7	
Sodium	11.4	mg/L	1.0	0.58	1	02/20/23 17:00	02/21/23 17:39	7440-23-5	
Calcium	9.2	mg/L	1.0	0.12	1	02/20/23 17:00	02/21/23 17:39	7440-70-2	
Magnesium	10	mg/L	0.050	0.012	1	02/20/23 17:00	02/21/23 17:39	7439-95-4	
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	02/20/23 17:00	02/21/23 19:29	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/20/23 17:00	02/21/23 19:29	7440-38-2	
Barium	0.031	mg/L	0.0050	0.00067	1	02/20/23 17:00	02/21/23 19:29	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/20/23 17:00	02/21/23 19:29	7440-41-7	
Boron	0.011J	mg/L	0.040	0.0086	1	02/20/23 17:00	02/21/23 19:29	7440-42-8	
Cadmium	0.00032J	mg/L	0.00050	0.00011	1	02/20/23 17:00	02/21/23 19:29	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/20/23 17:00	02/21/23 19:29	7440-47-3	
Cobalt	0.0011J	mg/L	0.0050	0.00039	1	02/20/23 17:00	02/21/23 19:29	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/20/23 17:00	02/21/23 19:29	7439-92-1	
Lithium	0.0037J	mg/L	0.030	0.00073	1	02/20/23 17:00	02/21/23 19:29	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/20/23 17:00	02/21/23 19:29	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/20/23 17:00	02/21/23 19:29	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/20/23 17:00	02/21/23 19:29	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	02/27/23 15:15	02/28/23 09:18	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	141	mg/L	25.0	25.0	1		02/14/23 12:04		
2320B Alkalinity									
Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	37.8	mg/L	5.0	5.0	1		02/17/23 13:25		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/17/23 13:25		
Alkalinity, Total as CaCO3	37.8	mg/L	5.0	5.0	1		02/17/23 13:25		

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ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92651382

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Sample: YAT-YGWA-47									
Lab ID: 92651382012									
Collected: 02/08/23 17:02									
Received: 02/09/23 12:35									
Matrix: Water									
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	3.5	mg/L	1.0	0.60	1		02/14/23 05:10	16887-00-6	
Fluoride	0.077J	mg/L	0.10	0.050	1		02/14/23 05:10	16984-48-8	
Sulfate	50.5	mg/L	1.0	0.50	1		02/14/23 05:10	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Sample: YAT-YGWA-301		Lab ID: 92651382013		Collected: 02/08/23 15:10		Received: 02/09/23 12:35		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	Client				1		03/03/23 14:39		
Collected By	Jake Swanson				1		03/03/23 14:39		
Collected Date	02/08/23				1		03/03/23 14:39		
Collected Time	15:10				1		03/03/23 14:39		
pH	6.43	Std. Units			1		03/03/23 14:39		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Potassium	0.55	mg/L	0.20	0.15	1	02/20/23 17:00	02/21/23 17:44	7440-09-7	
Sodium	6.0	mg/L	1.0	0.58	1	02/20/23 17:00	02/21/23 17:44	7440-23-5	
Calcium	1.3	mg/L	1.0	0.12	1	02/20/23 17:00	02/21/23 17:44	7440-70-2	
Magnesium	0.92	mg/L	0.050	0.012	1	02/20/23 17:00	02/21/23 17:44	7439-95-4	
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	02/20/23 17:00	02/21/23 19:35	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/20/23 17:00	02/21/23 19:35	7440-38-2	
Barium	0.0066	mg/L	0.0050	0.00067	1	02/20/23 17:00	02/21/23 19:35	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/20/23 17:00	02/21/23 19:35	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/20/23 17:00	02/21/23 19:35	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/20/23 17:00	02/21/23 19:35	7440-43-9	
Chromium	0.0021J	mg/L	0.0050	0.0011	1	02/20/23 17:00	02/21/23 19:35	7440-47-3	
Cobalt	0.0031J	mg/L	0.0050	0.00039	1	02/20/23 17:00	02/21/23 19:35	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/20/23 17:00	02/21/23 19:35	7439-92-1	
Lithium	0.0011J	mg/L	0.030	0.00073	1	02/20/23 17:00	02/21/23 19:35	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/20/23 17:00	02/21/23 19:35	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/20/23 17:00	02/21/23 19:35	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/20/23 17:00	02/21/23 19:35	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	02/27/23 15:15	02/28/23 11:17	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	43.0	mg/L	25.0	25.0	1		02/14/23 12:05		
2320B Alkalinity									
Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO ₃)	15.4	mg/L	5.0	5.0	1		02/17/23 13:32		
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	5.0	5.0	1		02/17/23 13:32		
Alkalinity, Total as CaCO ₃	15.4	mg/L	5.0	5.0	1		02/17/23 13:32		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92651382

Sample: YAT-YGWA-301 **Lab ID: 92651382013** Collected: 02/08/23 15:10 Received: 02/09/23 12:35 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
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		02/14/23 05:25	16887-00-6	
Fluoride	0.064J	mg/L	0.10	0.050	1		02/14/23 05:25	16984-48-8	
Sulfate	0.96J	mg/L	1.0	0.50	1		02/14/23 05:25	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Sample: YAT-YGWA-14S		Lab ID: 92651382014		Collected: 02/08/23 13:50		Received: 02/09/23 12:35		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	Client				1		03/03/23 14:54		
Collected By	Jake Swanson				1		03/03/23 14:54		
Collected Date	02/08/23				1		03/03/23 14:54		
Collected Time	13:50				1		03/03/23 14:54		
pH	5.39	Std. Units			1		03/03/23 14:54		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Potassium	0.87	mg/L	0.20	0.15	1	02/20/23 17:00	02/21/23 17:58	7440-09-7	
Sodium	9.5	mg/L	1.0	0.58	1	02/20/23 17:00	02/21/23 17:58	7440-23-5	
Calcium	1.5	mg/L	1.0	0.12	1	02/20/23 17:00	02/21/23 17:58	7440-70-2	
Magnesium	1.6	mg/L	0.050	0.012	1	02/20/23 17:00	02/21/23 17:58	7439-95-4	
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	02/20/23 17:00	02/21/23 19:41	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/20/23 17:00	02/21/23 19:41	7440-38-2	
Barium	0.0089	mg/L	0.0050	0.00067	1	02/20/23 17:00	02/21/23 19:41	7440-39-3	
Beryllium	0.00022J	mg/L	0.00050	0.000054	1	02/20/23 17:00	02/21/23 19:41	7440-41-7	
Boron	0.015J	mg/L	0.040	0.0086	1	02/20/23 17:00	02/21/23 19:41	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/20/23 17:00	02/21/23 19:41	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/20/23 17:00	02/21/23 19:41	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/20/23 17:00	02/21/23 19:41	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/20/23 17:00	02/21/23 19:41	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/20/23 17:00	02/21/23 19:41	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/20/23 17:00	02/21/23 19:41	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/20/23 17:00	02/21/23 19:41	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/20/23 17:00	02/21/23 19:41	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	02/27/23 15:15	02/28/23 11:20	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	56.0	mg/L	25.0	25.0	1		02/14/23 12:06		
2320B Alkalinity									
Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	13.0	mg/L	5.0	5.0	1		02/17/23 13:37		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/17/23 13:37		
Alkalinity, Total as CaCO3	13.0	mg/L	5.0	5.0	1		02/17/23 13:37		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92651382

Sample: YAT-YGWA-14S **Lab ID: 92651382014** Collected: 02/08/23 13:50 Received: 02/09/23 12:35 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	4.9	mg/L	1.0	0.60	1		02/14/23 05:40	16887-00-6	
Fluoride	0.059J	mg/L	0.10	0.050	1		02/14/23 05:40	16984-48-8	
Sulfate	6.1	mg/L	1.0	0.50	1		02/14/23 05:40	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Sample: YAT-YGWA-3I	Lab ID: 92651382015	Collected: 02/08/23 10:00	Received: 02/09/23 12:35	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	Client				1		03/03/23 14:55		
Collected By	Jake Swanson				1		03/03/23 14:55		
Collected Date	02/08/23				1		03/03/23 14:55		
Collected Time	10:00				1		03/03/23 14:55		
pH	7.73	Std. Units			1		03/03/23 14:55		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Potassium	5.3	mg/L	0.20	0.15	1	02/20/23 17:00	02/21/23 18:03	7440-09-7	
Sodium	9.4	mg/L	1.0	0.58	1	02/20/23 17:00	02/21/23 18:03	7440-23-5	
Calcium	23.3	mg/L	1.0	0.12	1	02/20/23 17:00	02/21/23 18:03	7440-70-2	
Magnesium	5.4	mg/L	0.050	0.012	1	02/20/23 17:00	02/21/23 18:03	7439-95-4	
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	02/20/23 17:00	02/21/23 19:47	7440-36-0	
Arsenic	0.0024J	mg/L	0.0050	0.0022	1	02/20/23 17:00	02/21/23 19:47	7440-38-2	
Barium	0.0029J	mg/L	0.0050	0.00067	1	02/20/23 17:00	02/21/23 19:47	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/20/23 17:00	02/21/23 19:47	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/20/23 17:00	02/21/23 19:47	7440-42-8	
Cadmium	0.00013J	mg/L	0.00050	0.00011	1	02/20/23 17:00	02/21/23 19:47	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/20/23 17:00	02/21/23 19:47	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/20/23 17:00	02/21/23 19:47	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/20/23 17:00	02/21/23 19:47	7439-92-1	
Lithium	0.018J	mg/L	0.030	0.00073	1	02/20/23 17:00	02/21/23 19:47	7439-93-2	
Molybdenum	0.0065J	mg/L	0.010	0.00074	1	02/20/23 17:00	02/21/23 19:47	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/20/23 17:00	02/21/23 19:47	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/20/23 17:00	02/21/23 19:47	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	02/27/23 15:15	02/28/23 11:28	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	145	mg/L	25.0	25.0	1		02/14/23 12:07		
2320B Alkalinity									
Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO ₃)	92.2	mg/L	5.0	5.0	1		02/17/23 13:43		
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	5.0	5.0	1		02/17/23 13:43		
Alkalinity, Total as CaCO ₃	92.2	mg/L	5.0	5.0	1		02/17/23 13:43		

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ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92651382

Sample: YAT-YGWA-3I **Lab ID: 92651382015** Collected: 02/08/23 10:00 Received: 02/09/23 12:35 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
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	0.60	1		02/14/23 06:25	16887-00-6	
Fluoride	0.16	mg/L	0.10	0.050	1		02/14/23 06:25	16984-48-8	
Sulfate	14.7	mg/L	1.0	0.50	1		02/14/23 06:25	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Sample: YAT-YGWA-3D		Lab ID: 92651382016		Collected: 02/08/23 11:40		Received: 02/09/23 12:35		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	Client				1		03/03/23 14:56		
Collected By	Jake Swanson				1		03/03/23 14:56		
Collected Date	02/08/23				1		03/03/23 14:56		
Collected Time	11:40				1		03/03/23 14:56		
pH	7.88	Std. Units			1		03/03/23 14:56		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Potassium	3.5	mg/L	0.20	0.15	1	02/20/23 17:00	02/21/23 18:08	7440-09-7	
Sodium	9.9	mg/L	1.0	0.58	1	02/20/23 17:00	02/21/23 18:08	7440-23-5	
Calcium	28.9	mg/L	1.0	0.12	1	02/20/23 17:00	02/21/23 18:08	7440-70-2	
Magnesium	3.6	mg/L	0.050	0.012	1	02/20/23 17:00	02/21/23 18:08	7439-95-4	
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	02/20/23 17:00	02/21/23 20:05	7440-36-0	
Arsenic	0.0030J	mg/L	0.0050	0.0022	1	02/20/23 17:00	02/21/23 20:05	7440-38-2	
Barium	0.0048J	mg/L	0.0050	0.00067	1	02/20/23 17:00	02/21/23 20:05	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/20/23 17:00	02/21/23 20:05	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/20/23 17:00	02/21/23 20:05	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/20/23 17:00	02/21/23 20:05	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/20/23 17:00	02/21/23 20:05	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/20/23 17:00	02/21/23 20:05	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/20/23 17:00	02/21/23 20:05	7439-92-1	
Lithium	0.023J	mg/L	0.030	0.00073	1	02/20/23 17:00	02/21/23 20:05	7439-93-2	
Molybdenum	0.012	mg/L	0.010	0.00074	1	02/20/23 17:00	02/21/23 20:05	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/20/23 17:00	02/21/23 20:05	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/20/23 17:00	02/21/23 20:05	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	02/27/23 15:15	02/28/23 11:30	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	144	mg/L	25.0	25.0	1		02/14/23 12:07		
2320B Alkalinity									
Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO ₃)	106	mg/L	5.0	5.0	1		02/17/23 13:51		
Alkalinity, Carbonate (CaCO ₃)	ND	mg/L	5.0	5.0	1		02/17/23 13:51		
Alkalinity, Total as CaCO ₃	106	mg/L	5.0	5.0	1		02/17/23 13:51		

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ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92651382

Sample: YAT-YGWA-3D **Lab ID: 92651382016** Collected: 02/08/23 11:40 Received: 02/09/23 12:35 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
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	0.60	1		02/14/23 07:10	16887-00-6	
Fluoride	0.56	mg/L	0.10	0.050	1		02/14/23 07:10	16984-48-8	
Sulfate	7.5	mg/L	1.0	0.50	1		02/14/23 07:10	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Sample: YAT-YGWA-40		Lab ID: 92651382017		Collected: 02/08/23 12:02		Received: 02/09/23 12:35		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	Client				1		03/03/23 14:57		
Collected By	Jake Swanson				1		03/03/23 14:57		
Collected Date	02/08/23				1		03/03/23 14:57		
Collected Time	12:02				1		03/03/23 14:57		
pH	5.71	Std. Units			1		03/03/23 14:57		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Potassium	2.2	mg/L	0.20	0.15	1	02/20/23 17:00	02/21/23 18:12	7440-09-7	
Sodium	10.1	mg/L	1.0	0.58	1	02/20/23 17:00	02/21/23 18:12	7440-23-5	
Calcium	5.9	mg/L	1.0	0.12	1	02/20/23 17:00	02/21/23 18:12	7440-70-2	
Magnesium	3.4	mg/L	0.050	0.012	1	02/20/23 17:00	02/21/23 18:12	7439-95-4	
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	02/20/23 17:00	02/21/23 20:11	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/20/23 17:00	02/21/23 20:11	7440-38-2	
Barium	0.037	mg/L	0.0050	0.00067	1	02/20/23 17:00	02/21/23 20:11	7440-39-3	
Beryllium	0.00026J	mg/L	0.00050	0.000054	1	02/20/23 17:00	02/21/23 20:11	7440-41-7	
Boron	0.057	mg/L	0.040	0.0086	1	02/20/23 17:00	02/21/23 20:11	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/20/23 17:00	02/21/23 20:11	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/20/23 17:00	02/21/23 20:11	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/20/23 17:00	02/21/23 20:11	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/20/23 17:00	02/21/23 20:11	7439-92-1	
Lithium	0.00074J	mg/L	0.030	0.00073	1	02/20/23 17:00	02/21/23 20:11	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/20/23 17:00	02/21/23 20:11	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/20/23 17:00	02/21/23 20:11	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/20/23 17:00	02/21/23 20:11	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	02/27/23 15:15	02/28/23 11:33	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	115	mg/L	25.0	25.0	1		02/14/23 12:08		
2320B Alkalinity									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	27.6	mg/L	5.0	5.0	1		02/17/23 14:09		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/17/23 14:09		
Alkalinity, Total as CaCO3	27.6	mg/L	5.0	5.0	1		02/17/23 14:09		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92651382

Sample: YAT-YGWA-40 **Lab ID: 92651382017** Collected: 02/08/23 12:02 Received: 02/09/23 12:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	6.9	mg/L	1.0	0.60	1		02/14/23 08:10	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/14/23 08:10	16984-48-8	
Sulfate	17.5	mg/L	1.0	0.50	1		02/14/23 08:10	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92651382

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Sample: YAT-YGWA-4I									
Lab ID: 92651382018									
Collected: 02/09/23 09:55									
Received: 02/10/23 14:00									
Matrix: Water									
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	Client				1		03/03/23 14:57		
Collected By	Jake Swanson				1		03/03/23 14:57		
Collected Date	02/09/23				1		03/03/23 14:57		
Collected Time	09:55				1		03/03/23 14:57		
pH	6.23	Std. Units			1		03/03/23 14:57		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Potassium	4.1	mg/L	0.20	0.15	1	02/20/23 17:00	02/21/23 18:17	7440-09-7	
Sodium	9.9	mg/L	1.0	0.58	1	02/20/23 17:00	02/21/23 18:17	7440-23-5	
Calcium	9.6	mg/L	1.0	0.12	1	02/20/23 17:00	02/21/23 18:17	7440-70-2	
Magnesium	5.3	mg/L	0.050	0.012	1	02/20/23 17:00	02/21/23 18:17	7439-95-4	
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	02/20/23 17:00	02/21/23 20:17	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/20/23 17:00	02/21/23 20:17	7440-38-2	
Barium	0.014	mg/L	0.0050	0.00067	1	02/20/23 17:00	02/21/23 20:17	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/20/23 17:00	02/21/23 20:17	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/20/23 17:00	02/21/23 20:17	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/20/23 17:00	02/21/23 20:17	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/20/23 17:00	02/21/23 20:17	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/20/23 17:00	02/21/23 20:17	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/20/23 17:00	02/21/23 20:17	7439-92-1	
Lithium	0.014J	mg/L	0.030	0.00073	1	02/20/23 17:00	02/21/23 20:17	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/20/23 17:00	02/21/23 20:17	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/20/23 17:00	02/21/23 20:17	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/20/23 17:00	02/21/23 20:17	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	02/27/23 15:15	02/28/23 11:35	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	124	mg/L	25.0	25.0	1		02/15/23 18:40		
2320B Alkalinity									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO3)	57.7	mg/L	5.0	5.0	1		02/17/23 18:12		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/17/23 18:12		
Alkalinity, Total as CaCO3	57.7	mg/L	5.0	5.0	1		02/17/23 18:12		

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ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92651382

Sample: YAT-YGWA-4I **Lab ID: 92651382018** Collected: 02/09/23 09:55 Received: 02/10/23 14:00 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	4.5	mg/L	1.0	0.60	1		02/14/23 21:36	16887-00-6	
Fluoride	0.067J	mg/L	0.10	0.050	1		02/14/23 21:36	16984-48-8	
Sulfate	8.9	mg/L	1.0	0.50	1		02/14/23 21:36	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Sample: YAT-YGWA-5I		Lab ID: 92651382019		Collected: 02/09/23 11:26		Received: 02/10/23 14:00		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	Client				1		03/03/23 14:58		
Collected By	Jake Swanson				1		03/03/23 14:58		
Collected Date	02/09/23				1		03/03/23 14:58		
Collected Time	11:26				1		03/03/23 14:58		
pH	5.90	Std. Units			1		03/03/23 14:58		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Potassium	1.6	mg/L	0.20	0.15	1	02/20/23 17:00	02/21/23 18:22	7440-09-7	
Sodium	10.8	mg/L	1.0	0.58	1	02/20/23 17:00	02/21/23 18:22	7440-23-5	
Calcium	2.8	mg/L	1.0	0.12	1	02/20/23 17:00	02/21/23 18:22	7440-70-2	
Magnesium	2.7	mg/L	0.050	0.012	1	02/20/23 17:00	02/21/23 18:22	7439-95-4	
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	02/20/23 17:00	02/21/23 20:23	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/20/23 17:00	02/21/23 20:23	7440-38-2	
Barium	0.019	mg/L	0.0050	0.00067	1	02/20/23 17:00	02/21/23 20:23	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/20/23 17:00	02/21/23 20:23	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/20/23 17:00	02/21/23 20:23	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/20/23 17:00	02/21/23 20:23	7440-43-9	
Chromium	0.0012J	mg/L	0.0050	0.0011	1	02/20/23 17:00	02/21/23 20:23	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/20/23 17:00	02/21/23 20:23	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/20/23 17:00	02/21/23 20:23	7439-92-1	
Lithium	0.0036J	mg/L	0.030	0.00073	1	02/20/23 17:00	02/21/23 20:23	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/20/23 17:00	02/21/23 20:23	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/20/23 17:00	02/21/23 20:23	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/20/23 17:00	02/21/23 20:23	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	02/27/23 15:15	02/28/23 11:38	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	59.0	mg/L	25.0	25.0	1		02/15/23 18:40		
2320B Alkalinity									
Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	26.4	mg/L	5.0	5.0	1		02/17/23 18:31		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/17/23 18:31		
Alkalinity, Total as CaCO3	26.4	mg/L	5.0	5.0	1		02/17/23 18:31		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92651382

Sample: YAT-YGWA-5I **Lab ID: 92651382019** Collected: 02/09/23 11:26 Received: 02/10/23 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	5.0	mg/L	1.0	0.60	1		02/14/23 21:51	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/14/23 21:51	16984-48-8	
Sulfate	2.9	mg/L	1.0	0.50	1		02/14/23 21:51	14808-79-8	

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QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

QC Batch: 757001 Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92651382001, 92651382002, 92651382003, 92651382004, 92651382005, 92651382006, 92651382007, 92651382008, 92651382009, 92651382010, 92651382011, 92651382012, 92651382013, 92651382014, 92651382015, 92651382016, 92651382017, 92651382018, 92651382019

METHOD BLANK: 3932792 Matrix: Water
Associated Lab Samples: 92651382001, 92651382002, 92651382003, 92651382004, 92651382005, 92651382006, 92651382007, 92651382008, 92651382009, 92651382010, 92651382011, 92651382012, 92651382013, 92651382014, 92651382015, 92651382016, 92651382017, 92651382018, 92651382019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	02/21/23 15:56	
Magnesium	mg/L	ND	0.050	0.012	02/21/23 15:56	
Potassium	mg/L	ND	0.20	0.15	02/21/23 15:56	
Sodium	mg/L	ND	1.0	0.58	02/21/23 15:56	

LABORATORY CONTROL SAMPLE: 3932793

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0	100	80-120	
Magnesium	mg/L	1	1.0	101	80-120	
Potassium	mg/L	1	0.97	97	80-120	
Sodium	mg/L	1	0.98J	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3932794 3932795

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92651382003 Result	Spike Conc.	Spike Conc.	Conc.								
Calcium	mg/L	25.6	1	1	25.6	26.5	4	88	75-125	3	20	M1	
Magnesium	mg/L	4.1	1	1	4.9	5.1	87	101	75-125	3	20		
Potassium	mg/L	5.1	1	1	6.1	6.2	93	103	75-125	2	20		
Sodium	mg/L	9.0	1	1	9.7	10	65	97	75-125	3	20	M1	

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QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

QC Batch: 756999 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92651382001, 92651382002, 92651382003, 92651382004, 92651382005, 92651382006, 92651382007, 92651382008, 92651382009, 92651382010, 92651382011, 92651382012, 92651382013, 92651382014, 92651382015, 92651382016, 92651382017, 92651382018, 92651382019

METHOD BLANK: 3932782 Matrix: Water
Associated Lab Samples: 92651382001, 92651382002, 92651382003, 92651382004, 92651382005, 92651382006, 92651382007, 92651382008, 92651382009, 92651382010, 92651382011, 92651382012, 92651382013, 92651382014, 92651382015, 92651382016, 92651382017, 92651382018, 92651382019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	02/21/23 17:42	
Arsenic	mg/L	ND	0.0050	0.0022	02/21/23 17:42	
Barium	mg/L	ND	0.0050	0.00067	02/21/23 17:42	
Beryllium	mg/L	ND	0.00050	0.000054	02/21/23 17:42	
Boron	mg/L	ND	0.040	0.0086	02/21/23 17:42	
Cadmium	mg/L	ND	0.00050	0.00011	02/21/23 17:42	
Chromium	mg/L	ND	0.0050	0.0011	02/21/23 17:42	
Cobalt	mg/L	ND	0.0050	0.00039	02/21/23 17:42	
Copper	mg/L	ND	0.0050	0.0010	02/21/23 17:42	
Lead	mg/L	ND	0.0010	0.00089	02/21/23 17:42	
Lithium	mg/L	ND	0.030	0.00073	02/21/23 17:42	
Molybdenum	mg/L	ND	0.010	0.00074	02/21/23 17:42	
Nickel	mg/L	ND	0.0050	0.00071	02/21/23 17:42	
Selenium	mg/L	ND	0.0050	0.0014	02/21/23 17:42	
Silver	mg/L	ND	0.0050	0.00044	02/21/23 17:42	
Thallium	mg/L	ND	0.0010	0.00018	02/21/23 17:42	
Vanadium	mg/L	ND	0.010	0.0019	02/21/23 17:42	
Zinc	mg/L	ND	0.010	0.0070	02/21/23 17:42	

LABORATORY CONTROL SAMPLE: 3932783

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	110	80-120	
Arsenic	mg/L	0.1	0.10	102	80-120	
Barium	mg/L	0.1	0.10	104	80-120	
Beryllium	mg/L	0.1	0.11	107	80-120	
Boron	mg/L	1	1.1	106	80-120	
Cadmium	mg/L	0.1	0.10	104	80-120	
Chromium	mg/L	0.1	0.10	104	80-120	
Cobalt	mg/L	0.1	0.10	104	80-120	
Copper	mg/L	0.1	0.10	102	80-120	
Lead	mg/L	0.1	0.10	101	80-120	
Lithium	mg/L	0.1	0.11	108	80-120	
Molybdenum	mg/L	0.1	0.10	105	80-120	
Nickel	mg/L	0.1	0.10	102	80-120	

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QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

LABORATORY CONTROL SAMPLE: 3932783

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Selenium	mg/L	0.1	0.10	103	80-120	
Silver	mg/L	0.1	0.10	104	80-120	
Thallium	mg/L	0.1	0.10	102	80-120	
Vanadium	mg/L	0.1	0.10	102	80-120	
Zinc	mg/L	0.1	0.10	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3932784 3932785

Parameter	Units	3932784		3932785		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92651382007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Antimony	mg/L	ND	0.1	0.1	0.11	0.11	106	108	75-125	1	20
Arsenic	mg/L	0.0028J	0.1	0.1	0.10	0.10	100	100	75-125	1	20
Barium	mg/L	0.010	0.1	0.1	0.11	0.12	103	105	75-125	1	20
Beryllium	mg/L	ND	0.1	0.1	0.10	0.099	100	99	75-125	1	20
Boron	mg/L	ND	1	1	1.0	1.0	101	100	75-125	1	20
Cadmium	mg/L	0.00012J	0.1	0.1	0.10	0.10	105	103	75-125	1	20
Chromium	mg/L	ND	0.1	0.1	0.11	0.10	106	102	75-125	4	20
Cobalt	mg/L	0.014	0.1	0.1	0.12	0.11	102	100	75-125	2	20
Copper	mg/L	ND	0.1	0.1	0.10	0.099	103	99	75-125	4	20
Lead	mg/L	ND	0.1	0.1	0.097	0.098	97	98	75-125	2	20
Lithium	mg/L	0.0059J	0.1	0.1	0.11	0.11	99	100	75-125	0	20
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.10	101	103	75-125	2	20
Nickel	mg/L	ND	0.1	0.1	0.10	0.099	103	99	75-125	4	20
Selenium	mg/L	ND	0.1	0.1	0.10	0.10	100	100	75-125	0	20
Silver	mg/L	ND	0.1	0.1	0.098	0.098	98	98	75-125	0	20
Thallium	mg/L	ND	0.1	0.1	0.099	0.10	99	101	75-125	1	20
Vanadium	mg/L	0.0024J	0.1	0.1	0.11	0.10	104	103	75-125	2	20
Zinc	mg/L	0.31	0.1	0.1	0.31	0.30	-1	-11	75-125	3	20 M1

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92651382

QC Batch: 757772

Analysis Method: EPA 7470A

QC Batch Method: EPA 7470A

Analysis Description: 7470 Mercury

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92651382001, 92651382002, 92651382003, 92651382004, 92651382005, 92651382006, 92651382007, 92651382008, 92651382009, 92651382010

METHOD BLANK: 3936482

Matrix: Water

Associated Lab Samples: 92651382001, 92651382002, 92651382003, 92651382004, 92651382005, 92651382006, 92651382007, 92651382008, 92651382009, 92651382010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	02/24/23 11:05	

LABORATORY CONTROL SAMPLE: 3936483

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3936484 3936485

Parameter	Units	92651415001 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Spike Conc.	MSD Spike Conc.	MSD Result						
Mercury	mg/L	ND	0.0025	0.0025	0.0021	0.0021	83	84	75-125	1	20	

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QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92651382

QC Batch: 758311

Analysis Method: EPA 7470A

QC Batch Method: EPA 7470A

Analysis Description: 7470 Mercury

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92651382011, 92651382012

METHOD BLANK: 3939038

Matrix: Water

Associated Lab Samples: 92651382011, 92651382012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	02/28/23 08:04	

LABORATORY CONTROL SAMPLE: 3939039

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0024	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3939040 3939041

Parameter	Units	92650181021		3939041		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	0.0023	0.0023	92	93	75-125	1	20	

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QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

QC Batch: 758312	Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A	Analysis Description: 7470 Mercury
	Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92651382013, 92651382014, 92651382015, 92651382016, 92651382017, 92651382018, 92651382019

METHOD BLANK: 3939045 Matrix: Water
Associated Lab Samples: 92651382013, 92651382014, 92651382015, 92651382016, 92651382017, 92651382018, 92651382019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	02/28/23 10:25	

LABORATORY CONTROL SAMPLE: 3939046

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3939047 3939048

Parameter	Units	92651576003		3939048		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.						
Mercury	mg/L	ND	0.0025	0.0023	0.0023	89	89	75-125	0	20	

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QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

QC Batch: 755255 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: 92651382001, 92651382002, 92651382003, 92651382004, 92651382005, 92651382006, 92651382007

METHOD BLANK: 3924151 Matrix: Water
Associated Lab Samples: 92651382001, 92651382002, 92651382003, 92651382004, 92651382005, 92651382006, 92651382007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	02/10/23 20:11	

LABORATORY CONTROL SAMPLE: 3924152

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	404	101	80-120	

SAMPLE DUPLICATE: 3924153

Parameter	Units	92650830002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	98.0	99.0	1	10	

SAMPLE DUPLICATE: 3924154

Parameter	Units	92651189001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	3260	3540	8	10	

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QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

QC Batch: 755432 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: 92651382008, 92651382009, 92651382010, 92651382011

METHOD BLANK: 3924925 Matrix: Water
Associated Lab Samples: 92651382008, 92651382009, 92651382010, 92651382011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	02/13/23 11:02	

LABORATORY CONTROL SAMPLE: 3924926

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	389	97	80-120	

SAMPLE DUPLICATE: 3924927

Parameter	Units	92651382008 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	78.0	72.0	8	10	

SAMPLE DUPLICATE: 3924928

Parameter	Units	92650182022 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	489	496	1	10	

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QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

QC Batch: 755730 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: 92651382012, 92651382013, 92651382014, 92651382015, 92651382016, 92651382017

METHOD BLANK: 3926329 Matrix: Water
Associated Lab Samples: 92651382012, 92651382013, 92651382014, 92651382015, 92651382016, 92651382017

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	02/14/23 11:56	

LABORATORY CONTROL SAMPLE: 3926330

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	396	99	80-120	

SAMPLE DUPLICATE: 3926331

Parameter	Units	92651580013 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	190	203	7	10	

SAMPLE DUPLICATE: 3926332

Parameter	Units	92651382012 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	141	138	2	10	

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QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

QC Batch: 755997 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: 92651382018, 92651382019

METHOD BLANK: 3927731 Matrix: Water
Associated Lab Samples: 92651382018, 92651382019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	02/15/23 18:35	

LABORATORY CONTROL SAMPLE: 3927732

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	384	96	80-120	

SAMPLE DUPLICATE: 3927733

Parameter	Units	92651576013 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	246	153	47	10	

SAMPLE DUPLICATE: 3927734

Parameter	Units	92651580022 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	582	676	15	10	

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QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

QC Batch: 755796 Analysis Method: SM 2320B-2011
QC Batch Method: SM 2320B-2011 Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92651382001, 92651382002

METHOD BLANK: 3926730 Matrix: Water
Associated Lab Samples: 92651382001, 92651382002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	02/15/23 14:32	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	02/15/23 14:32	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	02/15/23 14:32	

LABORATORY CONTROL SAMPLE: 3926731

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: 3926732

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3926733 3926734

Parameter	Units	3926733		3926734		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Result	MS Result	MSD Result						
Alkalinity, Total as CaCO3	mg/L	20.4	50	50	69.8	70.8	99	101	80-120	1	25

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3926735 3926736

Parameter	Units	3926735		3926736		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Result	MS Result	MSD Result						
Alkalinity, Total as CaCO3	mg/L	65.4	50	50	117	121	102	111	80-120	4	25

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QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

QC Batch: 755797 Analysis Method: SM 2320B-2011
QC Batch Method: SM 2320B-2011 Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92651382003, 92651382004, 92651382005, 92651382006, 92651382007, 92651382008, 92651382009, 92651382010, 92651382011

METHOD BLANK: 3926737 Matrix: Water
Associated Lab Samples: 92651382003, 92651382004, 92651382005, 92651382006, 92651382007, 92651382008, 92651382009, 92651382010, 92651382011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	02/15/23 18:18	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	02/15/23 18:18	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	02/15/23 18:18	

LABORATORY CONTROL SAMPLE: 3926738

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

LABORATORY CONTROL SAMPLE: 3926739

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	52.9	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3926740 3926741

Parameter	Units	92651415002 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.								
Alkalinity, Total as CaCO3	mg/L	ND	50	50	53.5	53.8	102	102	80-120	1	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3926742 3926743

Parameter	Units	92651415003 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.								
Alkalinity, Total as CaCO3	mg/L	10.3	50	50	62.8	63.4	105	106	80-120	1	25	

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QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

QC Batch: 756119 Analysis Method: SM 2320B-2011
QC Batch Method: SM 2320B-2011 Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92651382012, 92651382013, 92651382014, 92651382015, 92651382016, 92651382017

METHOD BLANK: 3928501 Matrix: Water
Associated Lab Samples: 92651382012, 92651382013, 92651382014, 92651382015, 92651382016, 92651382017

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	02/17/23 11:43	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	02/17/23 11:43	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	02/17/23 11:43	

LABORATORY CONTROL SAMPLE: 3928502

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.5	101	80-120	

LABORATORY CONTROL SAMPLE: 3928503

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3928504 3928505

Parameter	Units	92651771001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	219	50	50	262	271	86	104	80-120	3	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3928506 3928507

Parameter	Units	92651771002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	242	50	50	287	284	90	83	80-120	1	25	

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QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

QC Batch: 756264 Analysis Method: SM 2320B-2011
QC Batch Method: SM 2320B-2011 Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92651382018, 92651382019

METHOD BLANK: 3929037 Matrix: Water
Associated Lab Samples: 92651382018, 92651382019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	02/17/23 15:34	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	02/17/23 15:34	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	02/17/23 15:34	

LABORATORY CONTROL SAMPLE: 3929038

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.9	102	80-120	

LABORATORY CONTROL SAMPLE: 3929039

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.3	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3929040 3929041

Parameter	Units	92651382018		92651382019		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	Result								
Alkalinity, Total as CaCO3	mg/L	57.7	50	50	111	113	107	111	80-120	1	25		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3929042 3929043

Parameter	Units	92651382019		92651382018		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	Result								
Alkalinity, Total as CaCO3	mg/L	26.4	50	50	78.1	79.1	103	105	80-120	1	25		

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QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

QC Batch:	755105	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: 92651382001, 92651382002, 92651382003, 92651382004, 92651382005, 92651382006, 92651382007, 92651382008, 92651382009, 92651382010, 92651382011

METHOD BLANK: 3923321 Matrix: Water
Associated Lab Samples: 92651382001, 92651382002, 92651382003, 92651382004, 92651382005, 92651382006, 92651382007, 92651382008, 92651382009, 92651382010, 92651382011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/10/23 20:14	
Fluoride	mg/L	ND	0.10	0.050	02/10/23 20:14	
Sulfate	mg/L	ND	1.0	0.50	02/10/23 20:14	

LABORATORY CONTROL SAMPLE: 3923322

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.5	99	90-110	
Fluoride	mg/L	2.5	2.5	101	90-110	
Sulfate	mg/L	50	48.8	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3923323 3923324

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92651536005 Result	Spike Conc.	Spike Conc.	MS Result						
Chloride	mg/L	3.9	50	50	53.7	54.3	100	101	90-110	1	10
Fluoride	mg/L	0.074J	2.5	2.5	2.5	2.6	98	100	90-110	2	10
Sulfate	mg/L	5.0	50	50	53.3	54.1	97	98	90-110	1	10

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3923325 3923326

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92651382010 Result	Spike Conc.	Spike Conc.	MS Result						
Chloride	mg/L	7.4	50	50	55.6	56.6	97	98	90-110	2	10
Fluoride	mg/L	ND	2.5	2.5	2.4	2.5	93	96	90-110	4	10
Sulfate	mg/L	0.78J	50	50	47.5	48.5	93	96	90-110	2	10

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QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

QC Batch: 755595 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: 92651382012, 92651382013, 92651382014

METHOD BLANK: 3925880 Matrix: Water
Associated Lab Samples: 92651382012, 92651382013, 92651382014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/13/23 22:52	
Fluoride	mg/L	ND	0.10	0.050	02/13/23 22:52	
Sulfate	mg/L	ND	1.0	0.50	02/13/23 22:52	

LABORATORY CONTROL SAMPLE: 3925881

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	51.1	102	90-110	
Fluoride	mg/L	2.5	2.7	107	90-110	
Sulfate	mg/L	50	50.9	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3925882 3925883

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92651580015 Result	Spike Conc.	Spike Conc.	Conc.								
Chloride	mg/L	3.8	50	50	53.5	56.1	99	105	90-110	5	10		
Fluoride	mg/L	0.050J	2.5	2.5	3.0	3.0	117	117	90-110	0	10	M1	
Sulfate	mg/L	368	50	50	417	420	99	104	90-110	1	10		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3925884 3925885

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92651415007 Result	Spike Conc.	Spike Conc.	Conc.								
Chloride	mg/L	ND	50	50	51.3	52.7	103	105	90-110	3	10		
Fluoride	mg/L	ND	2.5	2.5	2.6	2.7	106	107	90-110	1	10		
Sulfate	mg/L	ND	50	50	51.3	53.3	102	106	90-110	4	10		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

QC Batch: 755597 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: 92651382015, 92651382016, 92651382017

METHOD BLANK: 3925890 Matrix: Water
Associated Lab Samples: 92651382015, 92651382016, 92651382017

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/14/23 05:55	
Fluoride	mg/L	ND	0.10	0.050	02/14/23 05:55	
Sulfate	mg/L	ND	1.0	0.50	02/14/23 05:55	

LABORATORY CONTROL SAMPLE: 3925891

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	52.1	104	90-110	
Fluoride	mg/L	2.5	2.7	108	90-110	
Sulfate	mg/L	50	52.3	105	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3925892 3925893

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92651382015 Result	Spike Conc.	Spike Conc.	Conc.								
Chloride	mg/L	1.1	50	50	51.8	52.9	101	103	90-110	2	10		
Fluoride	mg/L	0.16	2.5	2.5	2.9	2.9	109	110	90-110	1	10		
Sulfate	mg/L	14.7	50	50	64.8	65.7	100	102	90-110	1	10		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3925894 3925895

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92651745002 Result	Spike Conc.	Spike Conc.	Conc.								
Chloride	mg/L	1960	50	50	1980	2000	38	74	90-110	1	10	M1	
Fluoride	mg/L	ND	2.5	2.5	ND	0.77	-2	29	90-110		10	M1	
Sulfate	mg/L	26.1	50	50	78.9	80.4	106	109	90-110	2	10		

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QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

QC Batch: 755672 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: 92651382018, 92651382019

METHOD BLANK: 3926089 Matrix: Water
Associated Lab Samples: 92651382018, 92651382019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/14/23 13:03	
Fluoride	mg/L	ND	0.10	0.050	02/14/23 13:03	
Sulfate	mg/L	ND	1.0	0.50	02/14/23 13:03	

LABORATORY CONTROL SAMPLE: 3926090

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.9	100	90-110	
Fluoride	mg/L	2.5	2.6	105	90-110	
Sulfate	mg/L	50	49.1	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3926091 3926092

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92651576004	Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	15.1	50	50	65.5	66.8	101	103	90-110	2	10		
Fluoride	mg/L	0.070J	2.5	2.5	2.6	2.7	101	104	90-110	3	10		
Sulfate	mg/L	89.7	50	50	147	148	114	116	90-110	1	10	M1	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3926093 3926094

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92651614002	Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	5.9	50	50	58.0	58.3	104	105	90-110	0	10		
Fluoride	mg/L	0.11	2.5	2.5	2.8	2.8	106	108	90-110	1	10		
Sulfate	mg/L	193	50	50	243	244	101	102	90-110	0	10		

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92651382

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 Yates Pooled Upgradient
Pace Project No.: 92651382

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92651382001	YAT-YGWA-1I				
92651382002	YAT-YGWA-1D				
92651382003	YAT-YGWA-2I				
92651382004	YAT-GWA-2				
92651382005	YAT-YGWA-5D				
92651382006	YAT-YGWA-20S				
92651382007	YAT-YGWA-21I				
92651382008	YAT-YGWA-17S				
92651382009	YAT-YGWA-18S				
92651382010	YAT-YGWA-18I				
92651382011	YAT-YGWA-39				
92651382012	YAT-YGWA-47				
92651382013	YAT-YGWA-30I				
92651382014	YAT-YGWA-14S				
92651382015	YAT-YGWA-3I				
92651382016	YAT-YGWA-3D				
92651382017	YAT-YGWA-40				
92651382018	YAT-YGWA-4I				
92651382019	YAT-YGWA-5I				
92651382001	YAT-YGWA-1I	EPA 3010A	757001	EPA 6010D	757027
92651382002	YAT-YGWA-1D	EPA 3010A	757001	EPA 6010D	757027
92651382003	YAT-YGWA-2I	EPA 3010A	757001	EPA 6010D	757027
92651382004	YAT-GWA-2	EPA 3010A	757001	EPA 6010D	757027
92651382005	YAT-YGWA-5D	EPA 3010A	757001	EPA 6010D	757027
92651382006	YAT-YGWA-20S	EPA 3010A	757001	EPA 6010D	757027
92651382007	YAT-YGWA-21I	EPA 3010A	757001	EPA 6010D	757027
92651382008	YAT-YGWA-17S	EPA 3010A	757001	EPA 6010D	757027
92651382009	YAT-YGWA-18S	EPA 3010A	757001	EPA 6010D	757027
92651382010	YAT-YGWA-18I	EPA 3010A	757001	EPA 6010D	757027
92651382011	YAT-YGWA-39	EPA 3010A	757001	EPA 6010D	757027
92651382012	YAT-YGWA-47	EPA 3010A	757001	EPA 6010D	757027
92651382013	YAT-YGWA-30I	EPA 3010A	757001	EPA 6010D	757027
92651382014	YAT-YGWA-14S	EPA 3010A	757001	EPA 6010D	757027
92651382015	YAT-YGWA-3I	EPA 3010A	757001	EPA 6010D	757027
92651382016	YAT-YGWA-3D	EPA 3010A	757001	EPA 6010D	757027
92651382017	YAT-YGWA-40	EPA 3010A	757001	EPA 6010D	757027
92651382018	YAT-YGWA-4I	EPA 3010A	757001	EPA 6010D	757027
92651382019	YAT-YGWA-5I	EPA 3010A	757001	EPA 6010D	757027
92651382001	YAT-YGWA-1I	EPA 3005A	756999	EPA 6020B	757022
92651382002	YAT-YGWA-1D	EPA 3005A	756999	EPA 6020B	757022
92651382003	YAT-YGWA-2I	EPA 3005A	756999	EPA 6020B	757022
92651382004	YAT-GWA-2	EPA 3005A	756999	EPA 6020B	757022
92651382005	YAT-YGWA-5D	EPA 3005A	756999	EPA 6020B	757022
92651382006	YAT-YGWA-20S	EPA 3005A	756999	EPA 6020B	757022
92651382007	YAT-YGWA-21I	EPA 3005A	756999	EPA 6020B	757022
92651382008	YAT-YGWA-17S	EPA 3005A	756999	EPA 6020B	757022
92651382009	YAT-YGWA-18S	EPA 3005A	756999	EPA 6020B	757022
92651382010	YAT-YGWA-18I	EPA 3005A	756999	EPA 6020B	757022

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92651382

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92651382011	YAT-YGWA-39	EPA 3005A	756999	EPA 6020B	757022
92651382012	YAT-YGWA-47	EPA 3005A	756999	EPA 6020B	757022
92651382013	YAT-YGWA-30I	EPA 3005A	756999	EPA 6020B	757022
92651382014	YAT-YGWA-14S	EPA 3005A	756999	EPA 6020B	757022
92651382015	YAT-YGWA-3I	EPA 3005A	756999	EPA 6020B	757022
92651382016	YAT-YGWA-3D	EPA 3005A	756999	EPA 6020B	757022
92651382017	YAT-YGWA-40	EPA 3005A	756999	EPA 6020B	757022
92651382018	YAT-YGWA-4I	EPA 3005A	756999	EPA 6020B	757022
92651382019	YAT-YGWA-5I	EPA 3005A	756999	EPA 6020B	757022
92651382001	YAT-YGWA-1I	EPA 7470A	757772	EPA 7470A	757938
92651382002	YAT-YGWA-1D	EPA 7470A	757772	EPA 7470A	757938
92651382003	YAT-YGWA-2I	EPA 7470A	757772	EPA 7470A	757938
92651382004	YAT-GWA-2	EPA 7470A	757772	EPA 7470A	757938
92651382005	YAT-YGWA-5D	EPA 7470A	757772	EPA 7470A	757938
92651382006	YAT-YGWA-20S	EPA 7470A	757772	EPA 7470A	757938
92651382007	YAT-YGWA-21I	EPA 7470A	757772	EPA 7470A	757938
92651382008	YAT-YGWA-17S	EPA 7470A	757772	EPA 7470A	757938
92651382009	YAT-YGWA-18S	EPA 7470A	757772	EPA 7470A	757938
92651382010	YAT-YGWA-18I	EPA 7470A	757772	EPA 7470A	757938
92651382011	YAT-YGWA-39	EPA 7470A	758311	EPA 7470A	758406
92651382012	YAT-YGWA-47	EPA 7470A	758311	EPA 7470A	758406
92651382013	YAT-YGWA-30I	EPA 7470A	758312	EPA 7470A	758407
92651382014	YAT-YGWA-14S	EPA 7470A	758312	EPA 7470A	758407
92651382015	YAT-YGWA-3I	EPA 7470A	758312	EPA 7470A	758407
92651382016	YAT-YGWA-3D	EPA 7470A	758312	EPA 7470A	758407
92651382017	YAT-YGWA-40	EPA 7470A	758312	EPA 7470A	758407
92651382018	YAT-YGWA-4I	EPA 7470A	758312	EPA 7470A	758407
92651382019	YAT-YGWA-5I	EPA 7470A	758312	EPA 7470A	758407
92651382001	YAT-YGWA-1I	SM 2540C-2015	755255		
92651382002	YAT-YGWA-1D	SM 2540C-2015	755255		
92651382003	YAT-YGWA-2I	SM 2540C-2015	755255		
92651382004	YAT-GWA-2	SM 2540C-2015	755255		
92651382005	YAT-YGWA-5D	SM 2540C-2015	755255		
92651382006	YAT-YGWA-20S	SM 2540C-2015	755255		
92651382007	YAT-YGWA-21I	SM 2540C-2015	755255		
92651382008	YAT-YGWA-17S	SM 2540C-2015	755432		
92651382009	YAT-YGWA-18S	SM 2540C-2015	755432		
92651382010	YAT-YGWA-18I	SM 2540C-2015	755432		
92651382011	YAT-YGWA-39	SM 2540C-2015	755432		
92651382012	YAT-YGWA-47	SM 2540C-2015	755730		
92651382013	YAT-YGWA-30I	SM 2540C-2015	755730		
92651382014	YAT-YGWA-14S	SM 2540C-2015	755730		
92651382015	YAT-YGWA-3I	SM 2540C-2015	755730		
92651382016	YAT-YGWA-3D	SM 2540C-2015	755730		
92651382017	YAT-YGWA-40	SM 2540C-2015	755730		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92651382

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92651382018	YAT-YGWA-4I	SM 2540C-2015	755997		
92651382019	YAT-YGWA-5I	SM 2540C-2015	755997		
92651382001	YAT-YGWA-1I	SM 2320B-2011	755796		
92651382002	YAT-YGWA-1D	SM 2320B-2011	755796		
92651382003	YAT-YGWA-2I	SM 2320B-2011	755797		
92651382004	YAT-GWA-2	SM 2320B-2011	755797		
92651382005	YAT-YGWA-5D	SM 2320B-2011	755797		
92651382006	YAT-YGWA-20S	SM 2320B-2011	755797		
92651382007	YAT-YGWA-21I	SM 2320B-2011	755797		
92651382008	YAT-YGWA-17S	SM 2320B-2011	755797		
92651382009	YAT-YGWA-18S	SM 2320B-2011	755797		
92651382010	YAT-YGWA-18I	SM 2320B-2011	755797		
92651382011	YAT-YGWA-39	SM 2320B-2011	755797		
92651382012	YAT-YGWA-47	SM 2320B-2011	756119		
92651382013	YAT-YGWA-30I	SM 2320B-2011	756119		
92651382014	YAT-YGWA-14S	SM 2320B-2011	756119		
92651382015	YAT-YGWA-3I	SM 2320B-2011	756119		
92651382016	YAT-YGWA-3D	SM 2320B-2011	756119		
92651382017	YAT-YGWA-40	SM 2320B-2011	756119		
92651382018	YAT-YGWA-4I	SM 2320B-2011	756264		
92651382019	YAT-YGWA-5I	SM 2320B-2011	756264		
92651382001	YAT-YGWA-1I	EPA 300.0 Rev 2.1 1993	755105		
92651382002	YAT-YGWA-1D	EPA 300.0 Rev 2.1 1993	755105		
92651382003	YAT-YGWA-2I	EPA 300.0 Rev 2.1 1993	755105		
92651382004	YAT-GWA-2	EPA 300.0 Rev 2.1 1993	755105		
92651382005	YAT-YGWA-5D	EPA 300.0 Rev 2.1 1993	755105		
92651382006	YAT-YGWA-20S	EPA 300.0 Rev 2.1 1993	755105		
92651382007	YAT-YGWA-21I	EPA 300.0 Rev 2.1 1993	755105		
92651382008	YAT-YGWA-17S	EPA 300.0 Rev 2.1 1993	755105		
92651382009	YAT-YGWA-18S	EPA 300.0 Rev 2.1 1993	755105		
92651382010	YAT-YGWA-18I	EPA 300.0 Rev 2.1 1993	755105		
92651382011	YAT-YGWA-39	EPA 300.0 Rev 2.1 1993	755105		
92651382012	YAT-YGWA-47	EPA 300.0 Rev 2.1 1993	755595		
92651382013	YAT-YGWA-30I	EPA 300.0 Rev 2.1 1993	755595		
92651382014	YAT-YGWA-14S	EPA 300.0 Rev 2.1 1993	755595		
92651382015	YAT-YGWA-3I	EPA 300.0 Rev 2.1 1993	755597		
92651382016	YAT-YGWA-3D	EPA 300.0 Rev 2.1 1993	755597		
92651382017	YAT-YGWA-40	EPA 300.0 Rev 2.1 1993	755597		
92651382018	YAT-YGWA-4I	EPA 300.0 Rev 2.1 1993	755672		
92651382019	YAT-YGWA-5I	EPA 300.0 Rev 2.1 1993	755672		

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

Effective Date: 11/14/2022

Laboratory receiving samples:

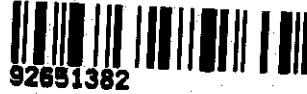
Asheville Eden Greenwood Huntersville Raleigh Me

Sample Condition Upon Receipt

Client Name: GA Power

Project #:

WO#: 92651382



92651382

Courier: Commercial Fed Ex UPS USPS Client Other: _____

Date/Initials Person Examining Contents: 2/8/23
low

Custody Seal Present? Yes No Seals Intact? Yes No

Packing Material: Bubble Wrap Bubble Bags None Other

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

Biological Tissue Frozen? Yes No N/A

Cooler Temp: 4.7 Correction Factor: 0.1 Add/Subtract (°C)

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

Cooler Temp Corrected (°C): 4.8

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

CLIENT NOTIFICATION/RESOLUTION

Lot ID of split containers:

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, U.Hg

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

***Check all unpreserved Nitrates for chlorine

Project #

W0#: 92651382

PM: BV

Due Date: 02/22/23

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 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)	AG8U-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			X																								
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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#: 92651382

Courier: Fed Ex UPS USPS Client Pace Other:

PM: BV Due Date: 02/22/23 CLIENT: GA-GA Power

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: 2/8/23 [Signature]

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: 4.7 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): 4.8

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 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 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# : 92651382

Project #

PM: BV

Due Date: 02/22/23

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.

ceptions: 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

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #
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-)						
WGFL-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)						
AGNU-100 mL Amber Unpreserved (N/A) (Cl-)						
VSGU-20 mL Scintillation vials (N/A)						
DG9U-40 mL Amber Unpreserved vials (N/A)						

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#: 92651382

Courier: Fed Ex UPS USPS Client Pace Other:

PM: BV Due Date: 02/22/23 CLIENT: GA-GA Power

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: 2/8/23 CW

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: 4.7 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): 4.8

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 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 type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Includes Date/Time/ID/Analysis Matrix:	<input checked="" type="checkbox"/>	
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, 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-)	WGPU-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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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 #:

Empty project number box

Courier: Fed Ex UPS USPS Client Commercial Pace Other:

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: 2/8/23 [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:

4.7

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):

4.8

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 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 #

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 2N 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 Mer

WO#: 92651382

Sample Condition Upon Receipt

Client Name:

GA Power

Project #:

PM: BV

Due Date: 02/22/23

CLIENT: GA-GA Power

Courier: Commercial Fed Ex UPS USPS Other: Client

Custody Seal Present? Yes No Seals Intact? Yes No

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer:

IR Gun ID: 214

Type of Ice: Wet Blue None

Cooler Temp:

2.1

Correction Factor: Add/Subtract (°C)

+0.1

Cooler Temp Corrected (°C):

2.2

USDA Regulated Soil (N/A, water sample)

Temp should be above freezing to 6°C

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

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

Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.	Comments/Discrepancy:
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	8.	
Dissolved analysis: Samples Field Filtered?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	9.	
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
-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 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, LHMg

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

***Check all unpreserved Nitrates for chlorine

Project #

WO#: 92651382

PM: BV

Due Date: 02/22/23

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)	AG0U-100 mL Amber Unpreserved (N/A)(Cl-)	V56U-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#: 92651382

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

PM: BV Due Date: 02/22/23
CLIENT: GA-GA Power

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: 2/9/23 CB

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: 2.1 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): 2.2

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:	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 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, LHMg

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

***Check all unpreserved Nitrates for chlorine

Project #

WO#: 92651382

PM: BV

Due Date: 02/22/23

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)	BP45-125 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)	SPST-125 mL Sterile Plastic (N/A - lab)	SPST-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	2	1																											
5																													
6																													
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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.



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#: 92651382

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

PM: BV Due Date: 02/22/23
CLIENT: GA-GA Power

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: *2/9/23*
CB

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: *2.1*

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): *2.2*

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 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 #

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)	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)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VG6U-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)			
1		2	1																											
2																														
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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.

Section A
 Required Client Information:
 Company: GA Power
 Address: Atlanta, GA
 Email To: jlucocker@southernco.com
 Phone: 470.620.6176 Fax: Standard 7AT
 Requested Due Date: Standard 7AT

Section B
 Required Project Information:
 Report To: SCS Contacts
 Copy To: Arcadis Contacts
 Task No: VAT-GR-ASMT-20281
 Purchase Order #: Plant Values Pooled Upgradiant
 Project Name:
 Project Number:

Section C
 Invoice Information:
 Attention: Southern Co.
 Company Name:
 Address:
 Face Quote:
 Face Project Manager: Nicole D'Onofrio
 Face Profile #: 10840
 Regulatory Agency:
 State / Location:
 Georgia

Page: 1 of 1

ITEM #	MATERIAL	CODE	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)				
					START	END			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol			Other	App I/IV Metals + Ca, Na, K	Cl, F, SO4	TDS (2540C)
1	VAT-YGWA-39	WG G																			
2	VAT-YGWA-40	WG G																			
3	VAT-YGWA-11	WG G																			
4	VAT-YGWA-1D	WG G																			
5	VAT-YGWA-21	WG G																			
6	VAT-YGWA-31	WG G																			
7	VAT-YGWA-3D	WG G																			
8																					
9																					
10																					
11																					
12																					

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: (Arcadis) Jake Swanson
 SIGNATURE of SAMPLER: (Arcadis) *Jake Swanson*
 DATE signed: 2/18/23

RECORDED BY / APPLICATION
 DATE: 2/18/23
 TIME: 0800
 SIGNATURE: Ryan Williams / Para

ACQUIRED BY / APPLICATION
 DATE: 2/13/23
 TIME: 0800
 SIGNATURE: Ryan Williams / Para

SAMPLE CONDITIONS
 TEMP in C
 Received on Ice (Y/N)
 Custody Sealed Cooler (Y/N)
 Samples Intact (Y/N)

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Requested Client Information: Company: GA Power Address: Atlanta, GA Report To: SCS Contracts Copy To: Arcadis Contracts
 Section B Requested Project Information: Report To: SCS Contracts Copy To: Arcadis Contracts
 Section C Invoicing Information: Invoicing Company: Southern Co. Company Name: Southern Co. Address: [blank]
 Project Name: Plant Yales Pooled Upgradation
 Project Number: [blank]
 Project Order #: [blank]
 Project Manager: Nicole Dore-Ryan
 Project Order #: 10840
 Project Order #: 10840
 Project Order #: 10840
 Project Order #: 10840

Company:	GA Power	Report To:	SCS Contracts
Address:	Atlanta, GA	Copy To:	Arcadis Contracts
Phone:	470.620.6176	Project Name:	Plant Yales Pooled Upgradation
Fax:	[blank]	Project Number:	[blank]
Requested Due Date:	5/1/11	Project Order #:	[blank]
		Project Manager:	Nicole Dore-Ryan
		Project Order #:	10840
		Project Order #:	10840
		Project Order #:	10840

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / -) Sample IDs must be unique	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives						Analysis Test	Y/N	Residual Chlorine (Y/N)	
				START DATE	END DATE			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3				Methanol
1	VAT-YGWA-47	WIG G	G				6	3	3	3							
2	VAT-YGWA-2	WIG G	G				6	3	3	3							
3	VAT-YGWA-41	WIG G	G				6	3	3	3							
4	VAT-YGWA-SI	WIG G	G				6	3	3	3							
5	VAT-YGWA-5D	WIG G	G				6	3	3	3							
6	VAT-YGWA-17S	WIG G	G				6	3	3	3							
7	VAT-YGWA-18S	WIG G	G	2/17	1348		6	3	3	3							
8	VAT-YGWA-181	WIG G	G	2/17	1231		6	3	3	3							
9	VAT-YGWA-20S	WIG G	G				6	3	3	3							
10	VAT-YGWA-211	WIG G	G				6	3	3	3							
11	VAT-YGWA-301	WIG G	G				6	3	3	3							
12	VAT-YGWA-14S	WIG G	G				6	3	3	3							

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	TEMP in C	Received on ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
App III Metals: Barium (Ba), Bismuth (Bi), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Manganese (Mn), Mercury (Hg), Selenium (Se), Vanadium (V), Zinc (Zn), Ni, N, V	[Signature]	2/18/13	0800	[Signature]	2/18/13	0900				
App IV: Metals: Barium (Ba), Bismuth (Bi), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Manganese (Mn), Mercury (Hg), Selenium (Se), Vanadium (V), Zinc (Zn), Ni, N, V	[Signature]	2/19/13	0900	[Signature]	2/19/13	0900				
App V: Metals: Barium (Ba), Bismuth (Bi), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Manganese (Mn), Mercury (Hg), Selenium (Se), Vanadium (V), Zinc (Zn), Ni, N, V	[Signature]	2/19/13	1240	[Signature]	2/19/13	0900				

SAMPLER NAME AND SIGNATURE: [Signature]
 PRINT Name of SAMPLER: Jessica Ware - Arcadis
 SIGNATURE of SAMPLER: [Signature]
 DATE Signed: 2/18/13

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:
 Company: GA Power
 Address: Atlanta, GA
 Email To: blycolke@scsoutline.com
 Phone: 470.620.6176 Fax: _____
 Requested Due Date: 5/10/12

Section B

Required Project Information:
 Report To: SCS Contacts
 Copy To: Arcadis Contacts
 Task No: VAT-GCR-ASSIST-201201
 Purchase Order #: _____
 Project Name: Plant Values Pooled Upgradient
 Project Number: _____

Section C

Invoice Information:
 Attention: Southern Co.
 Company Name: _____
 Address: _____
 POC: _____
 POC Project Manager: Alicia Prince
 POC Profile #: 10940
 State: Georgia

ITEM #	MATRIX	CODE	MATRIX CODE (See valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives						Analytical Test	TEMP In C					
					START	END			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3			Methanol	Other			
1	VAT-YGWA-17	W/S G																			
2	VAT-GWA-2	W/S G																			
3	VAT-YGWA-41	W/S G																			
4	VAT-YGWA-61	W/S G																			
5	VAT-YGWA-5D	W/S G																			
6	VAT-YGWA-17S	W/S G																			
7	VAT-YGWA-18S	W/S G																			
8	VAT-YGWA-181	W/S G																			
9	VAT-YGWA-20S	W/S G																			
10	VAT-YGWA-211	W/S G																			
11	VAT-YGWA-301	W/S G																			
12	VAT-YGWA-14S	W/S G																			
ADDITIONAL COMMENTS																					
Arcont Suite 3000.0 (Cl, F, Sulfate)					RELINQUISHED BY / AFFILIATION: <u>Arcadis</u>					DATE: <u>2/9/23</u>					TIME: <u>0920</u>						
App III Metals: Beorn 8020B, Ca 8010D, App III 6020B, Zn, Ag, Ni, V					RELINQUISHED BY / AFFILIATION: <u>Rayon Williams</u>					DATE: <u>2/9/23</u>					TIME: <u>1205</u>						
App IV, Metals: 6020K, Antimony (Sb), Arsenic (As), Barium (Ba), Bismuth (Bi), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se), Thallium (Tl), Mercury (Hg), Also add Ca, Na, K for this event. Alkalinity - report total, carbonates, and bicarbonates					ACCEPTED BY / AFFILIATION: <u>Rayon Williams</u>					DATE: <u>2/9/23</u>					TIME: <u>0920</u>						

SAMPLER NAME AND SIGNATURE:
 PRINT NAME OF SAMPLER: Mack Crest - Arcadis
 SIGNATURE OF SAMPLER: [Signature]
 DATE SIGNED: 2/9/23

TEMP In C: _____
 Received on Ice (Y/N): _____
 Custody Sealed Cooler (Y/N): _____
 Samples Intact (Y/N): _____

Page: _____ of _____

Residual Chlorine (Y/N): YES 1382

DH: 5.22.0012

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:
 Company: GA Power
 Address: Atlanta, GA
 Email To: luccoker@southernco.com
 Phone: 470.620.6176
 Requested Date: 8/27/13

Section B
 Required Project Information:
 Report To: SCS Contacts
 Copy To: Arcadis Contacts
 Task No: VAT-CGR-ASSMT-202881
 Project Name: Plant Yates Pooled Upgradation
 Project Number: 10840

Section C
 Invoice Information:
 Attention: Southern Co.
 Company Name: Southern Co.
 Address: [Redacted]
 Plant Manager: Nicole D'Ono
 Plant Profile #: 10840

Page 1 of 2

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9, -) Samples IDs must be unique	MATRIX: Drinking Water Wastewater Surface Water Groundwater Other	CODE: DW WW SW GW OT	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives						Analyze Test	Residual Chlorine (Y/N)		
				START DATE	END DATE			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3			Methanol	Other
1	YAT-YGWA-47		WG				3										
2	YAT-YGWA-2		WG				3										
3	YAT-YGWA-4I		WG				3										
4	YAT-YGWA-6I		WG				3										
5	YAT-YGWA-6D		WG				3										
6	YAT-YGWA-17S		WG				3										
7	YAT-YGWA-18S		WG				3										
8	YAT-YGWA-18I		WG				3										
9	YAT-YGWA-20S		WG				3										
10	YAT-YGWA-21I		WG				3										
11	YAT-YGWA-30I		WG	2/8	1910		3										
12	YAT-YGWA-14S		WG	2/8	1350		3										
ADDITIONAL COMMENTS				RETRIEVED BY / APPLICATION				ACCEPTED BY / APPLICATION				SAMPLE CONDITIONS					
Anions Sulfide 300.0 (Cl, F, Sulfate)				[Redacted]				[Redacted]				pH: 6.43 pH: 5.87 pH: 6.14					
App II Metals: Boron 6020B, Ca 6010D, App III 6020B Zn, Ag, Ni, V				[Redacted]				[Redacted]				Received on [Redacted] (Y/N)					
App IV Metals 6020B: Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se), Tantalum (Ta), Mercury (Hg). Also add Ca, Na, K for this event. Alkalinity - report both carbonate and bicarbonate.				[Redacted]				[Redacted]				Custody Sealed Cooler (Y/N)					
[Redacted]				[Redacted]				[Redacted]				Samples Intact (Y/N)					

SAMPLER NAME AND SIGNATURE: [Redacted]

PRINT Name of SAMPLER: [Redacted]

SIGNATURE of SAMPLER: [Redacted]

DATE Signed: 2/9/13

TEMP in C: [Redacted]

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:

Company: GA Power		Report To: SCS Contacts	Attention: Southern Co.
Address: Atlanta, GA		Copy To: Arcadis Contacts	Company Name: Southern Co.
Email To: [arcadika@southernco.com]	Task No: YAT-COR-ASSMT-202351	Address:	Area/Dept:
Phone: 470.620.6176	Project Name: Plant Yates Pooled Upgradation	Face Project Manager: Nicole D'Onofrio	Face Project Number: 10840
Requested Due Date: 5/10/24	Project Number:	Page Profile #: 10840	

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 /, -, .) Sample IDs must be unique	MATRIX	CODE	COLLECTED		SAMPLE TEMP AT COLLECTION	PRESERVATIVES						ANALYSES TEST					
				START DATE	END DATE		Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3		Methanol	Other			
1	YAT-YGWA-39	Distilling Water	OW															
2	YAT-YGWA-40	Waste Water	WT															
3	YAT-YGWA-41	Waste Water	WT															
4	YAT-YGWA-1D	Preceded	P															
5	YAT-YGWA-2I	Solids	SL															
6	YAT-YGWA-3I	Sludge	SI															
7	YAT-YGWA-3D	Sludge	SD															
8																		
9																		
10																		
11																		
12																		

ADDITIONAL COMMENTS	RELEASED BY / AFFILIATION	DATE	TITLE	ACCEPTED BY / AFFILIATION	DATE	TITLE	TEMP in C	Received on ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	Arcadis	2/9/23	Ba-	William 9/Aus	2/9/23	0232				
	Arcadis	2/9/23	Ba-	William 9/Aus	2/9/23	0232				
	Arcadis	2/9/23	Ba-	William 9/Aus	2/9/23	0232				
	Arcadis	2/9/23	Ba-	William 9/Aus	2/9/23	0232				
	Arcadis	2/9/23	Ba-	William 9/Aus	2/9/23	0232				
	Arcadis	2/9/23	Ba-	William 9/Aus	2/9/23	0232				
	Arcadis	2/9/23	Ba-	William 9/Aus	2/9/23	0232				
	Arcadis	2/9/23	Ba-	William 9/Aus	2/9/23	0232				
	Arcadis	2/9/23	Ba-	William 9/Aus	2/9/23	0232				
	Arcadis	2/9/23	Ba-	William 9/Aus	2/9/23	0232				
	Arcadis	2/9/23	Ba-	William 9/Aus	2/9/23	0232				
	Arcadis	2/9/23	Ba-	William 9/Aus	2/9/23	0232				
	Arcadis	2/9/23	Ba-	William 9/Aus	2/9/23	0232				
	Arcadis	2/9/23	Ba-	William 9/Aus	2/9/23	0232				

App III Metals: Boron (B), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Manganese (Mn), Mercury (Hg), Nickel (Ni), Potassium (K), Selenium (Se), Vanadium (V), Zinc (Zn)

App IV Metals: Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Manganese (Mn), Mercury (Hg), Nickel (Ni), Potassium (K), Selenium (Se), Vanadium (V), Zinc (Zn)

App V Metals: Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Manganese (Mn), Mercury (Hg), Nickel (Ni), Potassium (K), Selenium (Se), Vanadium (V), Zinc (Zn)

App VI Metals: Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Manganese (Mn), Mercury (Hg), Nickel (Ni), Potassium (K), Selenium (Se), Vanadium (V), Zinc (Zn)

App VII Metals: Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Manganese (Mn), Mercury (Hg), Nickel (Ni), Potassium (K), Selenium (Se), Vanadium (V), Zinc (Zn)

App VIII Metals: Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Manganese (Mn), Mercury (Hg), Nickel (Ni), Potassium (K), Selenium (Se), Vanadium (V), Zinc (Zn)

App IX Metals: Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Manganese (Mn), Mercury (Hg), Nickel (Ni), Potassium (K), Selenium (Se), Vanadium (V), Zinc (Zn)

App X Metals: Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Manganese (Mn), Mercury (Hg), Nickel (Ni), Potassium (K), Selenium (Se), Vanadium (V), Zinc (Zn)

Residual Chlorine (Y/N)

ML651362

Page: 2 of 2

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
Company: GA Power, Atlanta, GA
Report To: SCS Contracts
Copy To: Arcadis Contacts
Purchase Order #: YAT-CCR-ASSMT-282381
Project Name: Plant Yates Pooled Upgragment
Requested Run Date: 2/19/23

Section B: Required Project Information
Report To: SCS Contracts
Copy To: Arcadis Contacts
Purchase Order #: YAT-CCR-ASSMT-282381
Project Name: Plant Yates Pooled Upgragment

Section C: Invoice Information
Attention: Southern Co.
Company Name: Southern Co.
Address:
Pace Quote:
Pace Project Manager: Michael D. Gable
Pace Profile #: 10840

Section D: Required Agency
Agency: Georgia Dept of Transportation
Request Date: 2/19/23

Page: 1 of 1

Main data table with columns: ITEM #, SAMPLE ID, MATRIX CODE, SAMPLE TYPE, DATE, TIME, SAMPLE TEMP AT COLLECTION, # OF CONTAINERS, Preservatives, Analysis Test, Residual Chlorine (Y/N), and SAMPLE CONDITIONS.

ADDITIONAL COMMENTS
APP NOTED BY: APPLICATION
ACCEPTED BY: APPLICATION
Date: 2/19/23
Time: 0900

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Kim Lopez
SIGNATURE of SAMPLER: [Signature]
DATE Signed: 2/19/23

TEMP in C
Received on ice (Y/N)
Custody Sealed Cooler (Y/N)
Samples intact (Y/N)

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:
 Company: GA Power
 Address: Atlanta, GA

Section B
 Required Project Information:
 Report To: SCS Contacts
 Copy To: Arcadis Contacts
 Task No: YAT-CR-ASMT-28233
 Purchase Order #: [Blank]
 Project Name: Plant Yates Pooled Upgradient
 Project Number: [Blank]

Section C
 Invoice Information:
 Attention: Southert Co.
 Company Name: [Blank]
 Address: [Blank]
 Price Quote: [Blank]
 Price Project Manager: [Blank]
 Price Profile #: 10840

Page: 1 of 1

Requestor Agency: [Blank]
 State/Location: [Blank]
 Georgia

ITEM #	SAMPLE ID <small>One Character per box. (A-Z, 0-9, /, -) Sample ids must be unique</small>	MATRIX <small>DW: Distilling Water WF: Water WFV: Waste Water P: Product SL: Sulfate CR: Chloride NI: Nitrate TI: Total TSS: Total Suspended Solids</small>	CODE <small>DW: Distilling Water WF: Water WFV: Waste Water P: Product SL: Sulfate CR: Chloride NI: Nitrate TI: Total TSS: Total Suspended Solids</small>	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G-GRAB C-COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS							Analytical Test		Residual Chlorine (Y/N)																				
						START DATE TIME	END DATE TIME		Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Y/N		Y/N																			
1	YAT-YGWA-47									6	3	3	3																									
2	YAT-GWA-2									6	3	3	3																									
3	YAT-YGWA-41									6	3	3	3																									
4	YAT-YGWA-51									6	3	3	3																									
5	YAT-YGWA-5D									6	3	3	3																									
6	YAT-YGWA-17S									6	3	3	3																									
7	YAT-YGWA-1BS									6	3	3	3																									
8	YAT-YGWA-1BI									6	3	3	3																									
9	YAT-YGWA-2OS									6	3	3	3																									
10	YAT-YGWA-21I									6	3	3	3																									
11	YAT-YGWA-3OI									6	3	3	3																									
12	YAT-YGWA-14S									6	3	3	3																									

W0#: 92651382

PM: BV Due Date: 02/22/23
 CLIENT: GA-GR Power

RELEASING BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
[Signature]	2/10/23	1700	[Signature]	2/10/23	1200				
[Signature]	2/10/23	1900	[Signature]	2/10/23	1900				

PRINT Name of SAMPLER: [Blank]
 SIGNATURE of SAMPLER: [Signature]
 DATE Signed: 2/10/23

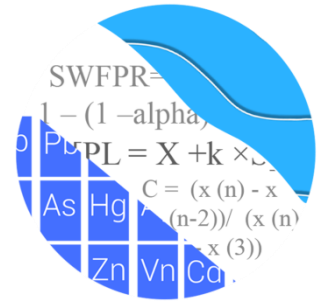
Appendix C

Statistical Analysis

Appendix III Statistically Significant Increase Summary (February 2023)

Appendix III Parameter	Monitoring Wells
Boron	YGWC-23S, YGWC-38, YGWC-41, YGWC-42, YGWC-43
Calcium	YGWC-38, YGWC-42
Sulfate	YGWC-38, YGWC-42, YGWC-43
Total Dissolved Solids	YGWC-38, YGWC-41, YGWC-42, YGWC-43

GROUNDWATER STATS CONSULTING



August 31, 2023

Southern Company Services
Attn: Ms. Lauren Hartley
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, GA 30308-3374

Re: Plant Yates Ash Management Area (AMA) and R6 CCR Landfill
February 2023 Statistical Analysis

Dear Ms. Hartley,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the February 2023 semi-annual Groundwater Detection and Assessment Monitoring statistical analysis for Georgia Power Company's Plant Yates Ash Management Area (AMA) and R6 CCR Landfill. 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 for the Appendix III parameters began in 2016, and at least 8 background samples were collected at each of the groundwater monitoring wells. Semi-annual sampling of the majority of Appendix IV constituents has been performed for several years in accordance with the Georgia Department of Natural Resources, Environmental Protection Division groundwater monitoring regulations. A list of all parameters is provided below.

The monitoring well network, as provided by Southern Company Services, consists of the following:

- **Upgradient wells:**
 - **AP-1:** YGWA-47
 - **AP-2:** YGWA-1D, YGWA-1I, YGWA-2I, YGWA-3D, YGWA-3I, YGWA-14S and, YGWA-30I
 - **Gypsum Landfill:** GWA-2
 - **AMA-R6:** YGWA-17S, YGWA-18I, YGWA-18S, YGWA-20S, YGWA-21I, YGWA-39, YGWA-40, YGWA-4I, YGWA-5D, and YGWA-5I
- **Downgradient wells:** YGWC-23S, YGWC-24SB, YGWC-36A, YGWC-38, YGWC-41, YGWC-42, YGWC-43, YGWC-49
- **Assessment wells:** YAMW-1, YAMW-2, YAMW-3, YAMW-4, YAMW-5, PZ-35, PZ-37, PZ-37D, PZ-51, and PZ-52D

Data from assessment wells are evaluated with confidence intervals for the Appendix IV constituents when a minimum of 4 samples is available.

Well YGWC-24SA was installed in June 2020 as a replacement well for YGWC-24S. Note that downgradient well YGWC-24SA was abandoned and replacement well YGWC-24SB was installed in late 2022. YGWC-24SB was first sampled in February 2023. Well YGWC-36A was installed in September 2020 as a replacement well for YGWC-36 to supplement existing data for each constituent.

In the current analysis, reported observations from the February 2023 sample event for Appendix III constituents at YGWC-24SB and YGWC-36A are compared to interwell prediction limits and are treated the same as Appendix III data from the other downgradient wells. Data from wells YGWC-24, YGWC-24SA, and YGWC-24SB are plotted under YGWC-24SB and data from wells YGWC-36 and YGWC-36A are plotted under well YGWC-36A. Throughout this report, wells YGWC-24SB and YGWC-36A refer to the respective combined data from the aforementioned wells.

When a minimum of 8 samples have been collected from new wells YGWC-24SB and YGWC-36A, the Mann-Whitney test of medians will be used to evaluate whether the medians of data from both wells are statistically similar. In cases where statistically significant differences are identified at the 99% confidence level, the historical record is truncated so that only data from the new wells, which may be more representative of present-day groundwater quality, are evaluated for the Appendix IV constituents in the confidence interval comparisons to respective Groundwater Protection Standards.

All data were sent electronically to Groundwater Stats Consulting, and the statistical analysis was reviewed Kristina Rayner, Founder and Senior Statistician to Groundwater Stats Consulting.

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) – antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, combined radium 226 + 228, fluoride, lead, lithium, mercury, 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 Appendix IV downgradient and assessment well/constituent pairs containing 100% non-detects follows this letter.

Combined upgradient well data from all units at Plant Yates are utilized to construct statistical limits for Appendix III and IV parameters.

For all constituents, a substitution of the most recent reporting limit is used for non-detect data and this generally gives the most conservative limit in each case. For interwell prediction and tolerance limits, a single reporting limit substitution is used across upgradient wells for a given parameter. Regarding the case of cobalt, due to varying detection limits in individual wells, the most recent reporting limit of 0.005 mg/L was substituted across all wells for all calculations and reports.

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. Values in background which have been flagged as outliers may be seen in a lighter font and as a disconnected symbol on the graphs. A summary of flagged outliers follows this report (Figure C).

During previous screenings, data at all wells for constituents detected in downgradient wells were evaluated for the following: 1) outliers; 2) trends; 3) most appropriate statistical method based on site characteristics of groundwater data upgradient of the facility; and 4) eligibility of downgradient wells when intrawell statistical methods are recommended. A power curve is provided and demonstrates that the selected statistical methods for the parameters listed above comply with the USEPA Unified Guidance and the Georgia Environmental Protection Division Rules for Solid Waste Management Chapter 391-3-4-

.10. The EPA suggests the selected statistical method should provide at least 55% power at 3 standard deviations or at least 80% power at 4 standard deviations.

Summary of Statistical Methods – Appendix III and IV Parameters

Based on the April 2019 evaluation and state and federal regulatory requirements described below, the following methods were selected for Appendix III and IV constituents:

- Appendix III: Interwell prediction limits, combined with a 1-of-2 resample plan for boron, calcium, chloride, fluoride, pH, sulfate, and TDS
- Appendix IV: Confidence intervals for antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, combined radium 226 + 228, fluoride, lead, lithium, mercury, molybdenum, selenium, and thallium

The distribution of data is tested using the Shapiro-Wilk/Shapiro-Francia test for normality. Parametric prediction limits (or tolerance limits or confidence intervals as applicable) 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 following approaches are used for handling non-detects (USEPA, 2009):

- 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, the earlier portion of data are deselected 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.

Summary of Background Screening Conducted in April 2019

Outlier Analysis

Time series plots were used to identify suspected outliers, or extreme values that would result in limits that are not representative of the current background data population. Suspected outliers at all wells for Appendix III and Appendix IV parameters were formally tested using Tukey's box plot method and, when identified, flagged in the computer database with "o" and deselected prior to construction of statistical limits.

Using the Tukey box plot method, several outliers were identified. When the most recent value is identified as an outlier, values are not flagged in the database at this time as they may represent a possible trend. If future values do not remain at similar concentrations, these values will be flagged as outliers and deselected. Several low values exist in the data sets and appear on the graphs as possible low outliers relative to the laboratory's Practical Quantitation Limit. However, these values are observed trace values (i.e., measurements reported by the laboratory between the Method Detection Limit and the Practical Quantitation Limit) and, therefore, were not flagged as outliers.

During the time of the screening, none of the outliers identified by Tukey's method were flagged in the database as all values were either similar to remaining measurements within the same well and neighboring wells, or the values were reported non-detects. Subsequently, when all upgradient wells were pooled to construct statistical limits, one detected value of 6.3 s.u. for pH at well YGWA-47 (an upgradient well from AP-1) was flagged as an outlier because it was unusually high during a single event compared to all other values at neighboring wells. When any values are flagged in the database as outliers, they are plotted in a disconnected and lighter symbol on the time series graph. The accompanying data pages will display the flagged value in a lighter font as well. A substitution of the most recent reporting limit was applied when varying detection limits existed in data. When the reporting limit was higher than the CCR-rule specified levels discussed below, non-detects were substituted with one half the reporting limit.

Seasonality

No obvious seasonal patterns were observed on the time series plots for any of the detected data; therefore, no deseasonalizing adjustments were made to the data. When seasonal patterns are observed, data may be deseasonalized so that the resulting limits will correctly account for the seasonality as a predictable pattern rather than random variation or a release.

Trend Test Evaluation

While trends may be identified by visual inspection, a quantification of the trend and its significance is needed. The Sen's Slope/Mann Kendall trend test was used to evaluate all data at each well to identify statistically significant increasing or decreasing trends and the results of those findings were submitted with the screening. In the absence of suspected contamination, significant trending data are typically not included as part of the background data used for construction of prediction limits. This step serves to eliminate the trend and, thus, reduce variation in background. When statistically significant decreasing trends are present, all available data are evaluated to determine whether earlier concentration levels are significantly different than current reported concentrations and will be deselected as necessary. When any records of data are truncated for the reasons above, a summary report will be provided to show the date ranges used in construction of the statistical limits.

The results of the trend analyses showed several statistically significant decreasing and increasing trends for the Appendix III parameters. Most of the trends noted were relatively low in magnitude when compared to average concentrations, and the background time period was short with only two years of record, making it difficult to separate trends from normal year-to-year variation; therefore, no adjustments were made to the data sets at that time. If the observed decreasing or increasing trends persist over a longer time frame, some records may need to be truncated.

Appendix III – Determination of Spatial Variation

The Analysis of Variance (ANOVA) was used to statistically evaluate differences in average concentrations among upgradient wells, which assists in identifying the most appropriate statistical approach. Interwell tests, which compare downgradient well data to statistical limits constructed from pooled upgradient well data, are appropriate when average concentrations are similar across upgradient wells. Intrawell tests, which compare compliance data from a single well to screened historical data within the same well, are appropriate when upgradient wells exhibit spatial variation; when statistical limits

constructed from upgradient wells are not representative of the current background data population; and when downgradient water quality is unimpacted compared to upgradient water quality for the same parameter.

The ANOVA identified variation among upgradient well data for all Appendix III parameters. These constituents were further evaluated during the screening for the appropriateness of intrawell or interwell methods for each constituent. However, interwell methods will be used for all Appendix III constituents in accordance with Georgia EPD requirements.

Statistical Analysis of Appendix III Parameters – 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. Values in background which have been flagged as outliers may be seen in a lighter font and as a disconnected symbol on the graphs. No new values were flagged for Appendix III parameters, and a summary of flagged outliers follows this report (Figure C).

Interwell Prediction Limits

Interwell prediction limits, combined with a 1-of-2 resample plan, were constructed using all historical upgradient well data through February 2023 (Figure D). Interwell prediction limits pool upgradient well data to establish a background limit for an individual constituent. The February 2023 sample from each downgradient well is compared to the background limit to determine whether 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 a resample confirms the initial exceedance, a statistically significant increase 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 and, therefore, no exceedance is noted and no further action is necessary. If no resample is collected, the original result is considered a confirmed exceedance. A summary table of the interwell prediction limits follows this letter (Figure D). Prediction limit exceedances were noted for the following Appendix III well/constituent pairs:

- Boron: YGWC-23S, YGWC-38, YGWC-41, YGWC-42, and YGWC-43
- Calcium: YGWC-38 and YGWC-42
- Sulfate: YGWC-38, YGWC-42, and YGWC-43
- TDS: YGWC-38, YGWC-41, YGWC-42, and YGWC-43

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 to determine whether concentrations are statistically increasing, decreasing, or stable at the 99% confidence level (Figure E). Upgradient wells 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. Both a summary and complete graphical results of the trend tests follow this report. Statistically significant trends were identified for the following well/constituent pairs:

Increasing

- Boron: YGWA-39 (upgradient) and YGWC-43
- Calcium: GWA-2, YGWA-1D, YGWA-5I, YGWA-17S, YGWA-21I, and YGWA-39 (all upgradient)
- Sulfate: GWA-2, YGWA-1D, YGWA-3D, YGWA-3I, and YGWA-5I (all upgradient)
- TDS: YGWA-21I (upgradient), YGWA-39 (upgradient), and YGWC-43

Decreasing

- Boron: YGWA-40 (upgradient), YGWA-47 (upgradient), YGWC-38, YGWC-41, and YGWC-42
- Calcium: YGWA-1I (upgradient), YGWA-5D (upgradient), YGWA-18S (upgradient), YGWA-47 (upgradient), YGWC-38, and YGWC-42
- Sulfate: YGWA-5D (upgradient), YGWA-18I (upgradient), YGWA-39 (upgradient), YGWA-40 (upgradient), YGWA-47 (upgradient), YGWC-38, and YGWC-42
- TDS: YGWA-5D (upgradient), YGWA-47 (upgradient), YGWC-38, YGWC-41, and YGWC-42

Statistical Analysis of Appendix IV Parameters – February 2023

For analysis of Appendix IV parameters, confidence intervals for each downgradient well/constituent were compared against corresponding Groundwater Protection

Standards (GWPS). GWPS were developed as described below. Data from upgradient wells for Appendix IV parameters are reassessed for outliers during each analysis.

The reported measurements of cobalt from August 2020 through August 2022 in upgradient well GWA-2 were previously flagged as outliers as these measurements were two orders of magnitude higher than remaining measurements at this well. This step results in statistical limits that are conservative (i.e., lower) from a regulatory perspective. If further studies indicate these measurements represent natural variation in groundwater quality, the values will be re-evaluated for construction of interwell prediction limits. No additional values were flagged as outliers and a summary of flagged outliers follows this report (Figure C).

Interwell Upper Tolerance Limits

Interwell tolerance limits were used to calculate site-specific background limits from all available pooled upgradient well data through February 2023 for Appendix IV constituents (Figure F). Parametric tolerance limits are 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. When the alpha level (or false positive rate) for a nonparametric limit is shown as NaN in the results table, it indicates that the background sample size is large enough such that the resulting alpha level (or false positive rate) is too small to display in the results table.

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 each of the Appendix IV constituents in accordance with the state requirements in each downgradient well (Figure H). Assessment wells were included when a minimum of 4 samples were available.

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 (barium at well PZ-37D, combined radium at wells YAMW-2, PZ-37D, PZ-52D, and molybdenum at well PZ-37D) 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 lowest measurement 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. A summary of the confidence intervals follows this letter. When the entire records were evaluated, exceedances were noted for the following well/constituent pairs:

- Selenium: YGWC-38 and PZ-37

Trend Test Evaluation – Appendix IV

Data at wells with confidence interval exceedances are further evaluated using the Sen's Slope/Mann Kendall trend test to determine whether concentrations are statistically increasing, decreasing, or stable at the 99% confidence level (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 trend

- Selenium: YGWA-17S (upgradient)

Decreasing trend

- Selenium: YGWC-38

Note that for selenium at upgradient well YGWA-17S, a statistically significant increasing trend was identified. The slope, however, is zero at this well which represents the median slope of all the possible pairwise slopes of the data evaluated.

Thank you for the opportunity to assist you in the statistical analysis of groundwater quality for Plant Yates Ash Management Area (AMA) and R6 CCR Landfill. If you have any questions or comments, please feel free to contact us.

For Groundwater Stats Consulting,



Andrew T. Collins
Project Manager



Kristina L. Rayner
Senior Statistician

100% Non-Detects: Appendix IV Downgradient & Assessment

Analysis Run 4/26/2023 11:36 AM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Antimony (mg/L)

YAMW-2, YAMW-3, PZ-52D, PZ-51

Arsenic (mg/L)

YAMW-2, PZ-37D

Beryllium (mg/L)

YAMW-4, PZ-37D

Cadmium (mg/L)

YAMW-3, YAMW-4, YGWC-43, PZ-37D, PZ-52D, YGWC-24SB

Chromium (mg/L)

PZ-37D, PZ-51

Cobalt (mg/L)

YGWC-23S, YGWC-38, PZ-37D, YGWC-24SB

Fluoride (mg/L)

YAMW-1, PZ-35

Lead (mg/L)

YAMW-3, PZ-37D, PZ-51

Lithium (mg/L)

YAMW-2, YGWC-24SB

Mercury (mg/L)

YAMW-1, YAMW-2, YAMW-4, YAMW-5, PZ-35, YGWC-36A, PZ-37D, PZ-52D, PZ-51, YGWC-24SB

Molybdenum (mg/L)

YAMW-2, YAMW-5, YGWC-23S, YGWC-38, YGWC-41, PZ-51, YGWC-24SB

Selenium (mg/L)

YAMW-2, YAMW-3, YGWC-43, PZ-37D, YGWC-24SB

Thallium (mg/L)

YAMW-1, YAMW-2, YAMW-3, YAMW-4, YAMW-5, YGWC-23S, YGWC-38, YGWC-41, YGWC-42, YGWC-43, PZ-35, PZ-37, YGWC-36A, PZ-37D, PZ-52D, PZ-51, YGWC-24SB

Appendix III Interwell Prediction Limits - Significant Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 4/26/2023, 11:21 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	YGWC-23S	0.16	n/a	2/8/2023	1.6	Yes	369	n/a	n/a	49.86	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-38	0.16	n/a	2/8/2023	4.1	Yes	369	n/a	n/a	49.86	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-41	0.16	n/a	2/8/2023	3.3	Yes	369	n/a	n/a	49.86	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-42	0.16	n/a	2/8/2023	14.5	Yes	369	n/a	n/a	49.86	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-43	0.16	n/a	2/8/2023	2.5	Yes	369	n/a	n/a	49.86	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-38	37	n/a	2/8/2023	55.3	Yes	369	n/a	n/a	0.813	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-42	37	n/a	2/8/2023	74.6	Yes	369	n/a	n/a	0.813	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-38	160	n/a	2/8/2023	251	Yes	369	n/a	n/a	5.962	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-42	160	n/a	2/8/2023	494	Yes	369	n/a	n/a	5.962	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-43	160	n/a	2/8/2023	164	Yes	369	n/a	n/a	5.962	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	YGWC-38	225	n/a	2/8/2023	579	Yes	369	10.11	2.582	0.542	None	sqrt(x)	0.0009403	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-41	225	n/a	2/8/2023	257	Yes	369	10.11	2.582	0.542	None	sqrt(x)	0.0009403	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-42	225	n/a	2/8/2023	853	Yes	369	10.11	2.582	0.542	None	sqrt(x)	0.0009403	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-43	225	n/a	2/8/2023	333	Yes	369	10.11	2.582	0.542	None	sqrt(x)	0.0009403	Param Inter 1 of 2

Appendix III Trend Tests - Significant Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 4/26/2023, 11:26 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	YGWA-39 (bg)	0.0181	75	63	Yes	17	5.882	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-40 (bg)	-0.01412	-91	-63	Yes	17	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-38	-3.533	-114	-63	Yes	17	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-41	-2.235	-96	-63	Yes	17	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-42	-1.379	-87	-63	Yes	17	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-43	0.506	86	63	Yes	17	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-47 (bg)	-0.0007791	-66	-63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-17S (bg)	0.137	126	81	Yes	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-18S (bg)	-0.07974	-131	-81	Yes	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-211 (bg)	0.7925	98	81	Yes	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-39 (bg)	1.642	69	63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-5D (bg)	-1.44	-101	-81	Yes	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-5I (bg)	0.06857	92	81	Yes	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWC-38	-27.66	-122	-63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWC-42	-11.48	-98	-63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-47 (bg)	-1.172	-111	-63	Yes	17	5.882	n/a	n/a	0.01	NP
Calcium (mg/L)	GWA-2 (bg)	2.992	85	68	Yes	18	5.556	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-1D (bg)	0.5761	98	81	Yes	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-1I (bg)	-0.08713	-95	-81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-18I (bg)	-0.1242	-93	-81	Yes	20	20	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-39 (bg)	-2.618	-90	-63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-40 (bg)	-8.078	-103	-63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-5D (bg)	-2.638	-144	-81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-5I (bg)	0.1006	134	81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWC-38	-141.8	-125	-63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWC-42	-98.05	-101	-63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-47 (bg)	-15.39	-121	-63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-2 (bg)	14.48	88	68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-1D (bg)	0.9678	140	81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-3D (bg)	0.3151	105	81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-3I (bg)	0.9326	99	81	Yes	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-211 (bg)	11.42	85	81	Yes	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-39 (bg)	29.24	74	63	Yes	17	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-5D (bg)	-11.59	-90	-81	Yes	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWC-38	-191	-100	-63	Yes	17	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWC-41	-106.7	-106	-63	Yes	17	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWC-42	-136.8	-102	-63	Yes	17	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWC-43	57.74	76	63	Yes	17	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-47 (bg)	-13.38	-101	-63	Yes	17	0	n/a	n/a	0.01	NP

Appendix III Trend Tests - All Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 4/26/2023, 11:26 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	YGWA-17S (bg)	0.0003162	37	81	No	20	10	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-18I (bg)	0	-18	-81	No	20	80	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-18S (bg)	0.0004242	39	81	No	20	25	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-20S (bg)	0	-7	-81	No	20	90	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-21I (bg)	0	-48	-81	No	20	60	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-39 (bg)	0.0181	75	63	Yes	17	5.882	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-40 (bg)	-0.01412	-91	-63	Yes	17	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-4I (bg)	0	7	81	No	20	70	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-5D (bg)	0.0004226	48	81	No	20	15	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-5I (bg)	0	-18	-81	No	20	65	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-23S	0.01895	15	81	No	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-38	-3.533	-114	-63	Yes	17	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-41	-2.235	-96	-63	Yes	17	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-42	-1.379	-87	-63	Yes	17	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-43	0.506	86	63	Yes	17	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-47 (bg)	-0.0007791	-66	-63	Yes	17	0	n/a	n/a	0.01	NP
Boron (mg/L)	GWA-2 (bg)	0	29	68	No	18	66.67	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-14S (bg)	-0.0006705	-53	-81	No	20	10	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-1D (bg)	0.001404	46	81	No	20	40	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-1I (bg)	0	-3	-81	No	20	75	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-2I (bg)	0	-2	-81	No	20	80	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-30I (bg)	0	-16	-81	No	20	85	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-3D (bg)	0	8	81	No	20	60	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-3I (bg)	0	-15	-81	No	20	90	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-17S (bg)	0.137	126	81	Yes	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-18I (bg)	0.06151	41	81	No	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-18S (bg)	-0.07974	-131	-81	Yes	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-20S (bg)	0.03077	57	81	No	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-21I (bg)	0.7925	98	81	Yes	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-39 (bg)	1.642	69	63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-40 (bg)	-0.5174	-42	-63	No	17	5.882	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-4I (bg)	0.09322	24	81	No	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-5D (bg)	-1.44	-101	-81	Yes	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-5I (bg)	0.06857	92	81	Yes	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWC-38	-27.66	-122	-63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWC-42	-11.48	-98	-63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-47 (bg)	-1.172	-111	-63	Yes	17	5.882	n/a	n/a	0.01	NP
Calcium (mg/L)	GWA-2 (bg)	2.992	85	68	Yes	18	5.556	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-14S (bg)	0	4	81	No	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-1D (bg)	0.5761	98	81	Yes	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-1I (bg)	-0.08713	-95	-81	Yes	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-2I (bg)	0.0884	17	81	No	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-30I (bg)	0.01674	45	81	No	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-3D (bg)	0.3791	60	81	No	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-3I (bg)	0.5034	67	81	No	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-17S (bg)	0.02875	23	81	No	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-18I (bg)	-0.1242	-93	-81	Yes	20	20	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-18S (bg)	-0.1096	-55	-81	No	20	10	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-20S (bg)	0	48	81	No	20	70	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-21I (bg)	-0.2092	-55	-81	No	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-39 (bg)	-2.618	-90	-63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-40 (bg)	-8.078	-103	-63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-4I (bg)	0.07548	35	81	No	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-5D (bg)	-2.638	-144	-81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-5I (bg)	0.1006	134	81	Yes	20	0	n/a	n/a	0.01	NP

Appendix III Trend Tests - All Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 4/26/2023, 11:26 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Sulfate (mg/L)	YGWC-38	-141.8	-125	-63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWC-42	-98.05	-101	-63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWC-43	18.06	47	63	No	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-47 (bg)	-15.39	-121	-63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-2 (bg)	14.48	88	68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-14S (bg)	-0.02207	-14	-81	No	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-1D (bg)	0.9678	140	81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-1I (bg)	-0.04757	-9	-81	No	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-2I (bg)	1.209	77	81	No	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-30I (bg)	-0.03067	-23	-81	No	20	10	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-3D (bg)	0.3151	105	81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-3I (bg)	0.9326	99	81	Yes	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-17S (bg)	2.621	47	81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-18I (bg)	-1.319	-26	-81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-18S (bg)	0.3933	9	81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-20S (bg)	3.156	51	81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-21I (bg)	11.42	85	81	Yes	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-39 (bg)	29.24	74	63	Yes	17	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-40 (bg)	-7.039	-48	-63	No	17	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-4I (bg)	0.9669	14	81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-5D (bg)	-11.59	-90	-81	Yes	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-5I (bg)	-0.8043	-16	-81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWC-38	-191	-100	-63	Yes	17	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWC-41	-106.7	-106	-63	Yes	17	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWC-42	-136.8	-102	-63	Yes	17	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWC-43	57.74	76	63	Yes	17	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-47 (bg)	-13.38	-101	-63	Yes	17	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	GWA-2 (bg)	17.72	66	68	No	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-14S (bg)	0.3652	16	81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-1D (bg)	2.029	32	81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-1I (bg)	-1.086	-18	-81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-2I (bg)	-0.8152	-19	-81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-30I (bg)	1.488	24	81	No	20	10	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-3D (bg)	0.3218	7	81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-3I (bg)	0.862	9	81	No	20	0	n/a	n/a	0.01	NP

Upper Tolerance Limits Summary Table

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 4/26/2023, 11:28 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	n/a	0.0047	n/a	n/a	n/a	n/a 391	n/a	n/a	87.98	n/a	n/a	NaN	NP Inter(NDs)
Arsenic (mg/L)	n/a	0.005	n/a	n/a	n/a	n/a 439	n/a	n/a	74.72	n/a	n/a	NaN	NP Inter(NDs)
Barium (mg/L)	n/a	0.21	n/a	n/a	n/a	n/a 439	n/a	n/a	2.506	n/a	n/a	NaN	NP Inter(normality)
Beryllium (mg/L)	n/a	0.0011	n/a	n/a	n/a	n/a 423	n/a	n/a	79.43	n/a	n/a	NaN	NP Inter(NDs)
Cadmium (mg/L)	n/a	0.00063	n/a	n/a	n/a	n/a 423	n/a	n/a	94.56	n/a	n/a	NaN	NP Inter(NDs)
Chromium (mg/L)	n/a	0.0093	n/a	n/a	n/a	n/a 391	n/a	n/a	80.05	n/a	n/a	NaN	NP Inter(NDs)
Cobalt (mg/L)	n/a	0.035	n/a	n/a	n/a	n/a 433	n/a	n/a	69.05	n/a	n/a	NaN	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	n/a	6.92	n/a	n/a	n/a	n/a 418	n/a	n/a	0	n/a	n/a	NaN	NP Inter(normality)
Fluoride (mg/L)	n/a	0.68	n/a	n/a	n/a	n/a 438	n/a	n/a	64.16	n/a	n/a	NaN	NP Inter(NDs)
Lead (mg/L)	n/a	0.0013	n/a	n/a	n/a	n/a 393	n/a	n/a	86.01	n/a	n/a	NaN	NP Inter(NDs)
Lithium (mg/L)	n/a	0.03	n/a	n/a	n/a	n/a 418	n/a	n/a	25.84	n/a	n/a	NaN	NP Inter(normality)
Mercury (mg/L)	n/a	0.00064	n/a	n/a	n/a	n/a 347	n/a	n/a	91.93	n/a	n/a	NaN	NP Inter(NDs)
Molybdenum (mg/L)	n/a	0.014	n/a	n/a	n/a	n/a 382	n/a	n/a	60.99	n/a	n/a	NaN	NP Inter(NDs)
Selenium (mg/L)	n/a	0.005	n/a	n/a	n/a	n/a 421	n/a	n/a	92.64	n/a	n/a	NaN	NP Inter(NDs)
Thallium (mg/L)	n/a	0.001	n/a	n/a	n/a	n/a 357	n/a	n/a	97.2	n/a	n/a	NaN	NP Inter(NDs)

YATES AMA-R6 GWPS				
Constituent Name	MCL	CCR-Rule Specified	Background Limit	GWPS
Antimony, Total (mg/L)	0.006		0.0047	0.006
Arsenic, Total (mg/L)	0.01		0.005	0.01
Barium, Total (mg/L)	2		0.21	2
Beryllium, Total (mg/L)	0.004		0.0011	0.004
Cadmium, Total (mg/L)	0.005		0.00063	0.005
Chromium, Total (mg/L)	0.1		0.0093	0.1
Cobalt, Total (mg/L)		0.006	0.035	0.035
Combined Radium, Total (pCi/L)	5		6.92	6.92
Fluoride, Total (mg/L)	4		0.68	4
Lead, Total (mg/L)		0.015	0.0013	0.015
Lithium, Total (mg/L)		0.04	0.03	0.04
Mercury, Total (mg/L)	0.002		0.00064	0.002
Molybdenum, Total (mg/L)		0.1	0.014	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 Limit is higher than MCL or CCR Rule Specified Level*

**MCL = Maximum Contaminant Level*

**CCR = Coal Combustion Residual*

**GWPS = Groundwater Protection Standard*

Confidence Intervals - Significant Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 5/16/2023, 8:25 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Selenium (mg/L)	YGWC-38	0.246	0.064	0.05	Yes	18	0.1496	0.08206	0	None	No	0.01	NP (normality)
Selenium (mg/L)	PZ-37	0.2801	0.2029	0.05	Yes	15	0.2415	0.05697	0	None	No	0.01	Param.

Confidence Intervals - All Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 5/16/2023, 8:25 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	PZ-35	0.003	0.00039	0.006	No	9	0.00271	0.00087	88.89	None	No	0.002	NP (NDs)
Antimony (mg/L)	PZ-37	0.003	0.0014	0.006	No	15	0.002577	0.0008973	80	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-37D	0.003	0.0015	0.006	No	4	0.002625	0.00075	75	None	No	0.0625	NP (NDs)
Antimony (mg/L)	YAMW-1	0.025	0.00037	0.006	No	9	0.00493	0.007581	55.56	None	No	0.002	NP (NDs)
Antimony (mg/L)	YAMW-4	0.003	0.00062	0.006	No	7	0.002053	0.001191	57.14	None	No	0.008	NP (NDs)
Antimony (mg/L)	YAMW-5	0.003	0.00033	0.006	No	7	0.002619	0.001009	85.71	None	No	0.008	NP (NDs)
Antimony (mg/L)	YGWC-23S	0.003	0.00085	0.006	No	20	0.002633	0.000901	85	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-24SB	0.003	0.0009	0.006	No	19	0.002889	0.0004818	94.74	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-36A	0.0041	0.0015	0.006	No	20	0.0039	0.00582	50	None	No	0.01	NP (normality)
Antimony (mg/L)	YGWC-38	0.003	0.0015	0.006	No	17	0.002474	0.001003	76.47	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-41	0.003	0.0014	0.006	No	17	0.002906	0.0003881	94.12	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-42	0.003	0.00053	0.006	No	17	0.002855	0.0005991	94.12	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-43	0.003	0.00031	0.006	No	17	0.002842	0.0006524	94.12	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-49	0.003	0.0011	0.006	No	17	0.002743	0.0007326	88.24	None	No	0.01	NP (NDs)
Arsenic (mg/L)	PZ-35	0.005	0.00096	0.01	No	10	0.003625	0.001858	60	Kaplan-Meier	No	0.011	NP (NDs)
Arsenic (mg/L)	PZ-37	0.005	0.00094	0.01	No	15	0.002709	0.001955	40	None	No	0.01	NP (normality)
Arsenic (mg/L)	YAMW-1	0.005	0.0034	0.01	No	10	0.00457	0.0009429	80	None	No	0.011	NP (NDs)
Arsenic (mg/L)	YAMW-4	0.005	0.00079	0.01	No	7	0.003299	0.001867	42.86	None	No	0.008	NP (normality)
Arsenic (mg/L)	YAMW-5	0.003443	0.0008822	0.01	No	7	0.003379	0.001754	42.86	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	YGWC-23S	0.005	0.0025	0.01	No	22	0.004714	0.0009483	90.91	Kaplan-Meier	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-24SB	0.005	0.0035	0.01	No	21	0.004638	0.000962	85.71	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-36A	0.005	0.0047	0.01	No	22	0.004038	0.001789	72.73	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-38	0.0023	0.00072	0.01	No	18	0.002026	0.001701	22.22	None	No	0.01	NP (normality)
Arsenic (mg/L)	YGWC-41	0.005	0.00072	0.01	No	18	0.003062	0.002064	50	None	No	0.01	NP (normality)
Arsenic (mg/L)	YGWC-42	0.002295	0.001445	0.01	No	18	0.002471	0.001327	16.67	Kaplan-Meier	sqrt(x)	0.01	Param.
Arsenic (mg/L)	YGWC-43	0.005	0.0022	0.01	No	18	0.004039	0.001695	72.22	Kaplan-Meier	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-49	0.005	0.001	0.01	No	17	0.004262	0.001644	82.35	Kaplan-Meier	No	0.01	NP (NDs)
Barium (mg/L)	PZ-35	0.09056	0.03164	2	No	10	0.0611	0.03302	0	None	No	0.01	Param.
Barium (mg/L)	PZ-37	0.05259	0.03422	2	No	15	0.04341	0.01356	0	None	No	0.01	Param.
Barium (mg/L)	PZ-37D	0.033	0.013	2	No	4	0.01975	0.009069	0	None	No	0.0625	NP (selected)
Barium (mg/L)	YAMW-1	0.07559	0.03621	2	No	10	0.0559	0.02207	0	None	No	0.01	Param.
Barium (mg/L)	YAMW-2	0.009272	0.006756	2	No	7	0.008014	0.001059	0	None	No	0.01	Param.
Barium (mg/L)	YAMW-4	0.021	0.003	2	No	7	0.008614	0.008204	0	None	No	0.008	NP (normality)
Barium (mg/L)	YAMW-5	0.057	0.034	2	No	7	0.04014	0.007988	0	None	No	0.008	NP (normality)
Barium (mg/L)	YGWC-23S	0.04724	0.03277	2	No	22	0.04	0.01348	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-24SB	0.025	0.019	2	No	21	0.0215	0.004108	0	None	No	0.01	NP (normality)
Barium (mg/L)	YGWC-36A	0.04891	0.03307	2	No	22	0.04189	0.016	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	YGWC-38	0.02241	0.01731	2	No	18	0.01986	0.00422	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-41	0.02814	0.02032	2	No	18	0.02423	0.006464	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-42	0.04281	0.02937	2	No	18	0.03609	0.01111	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-43	0.03348	0.01907	2	No	18	0.02627	0.01191	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-49	0.07733	0.06751	2	No	17	0.07242	0.007833	0	None	No	0.01	Param.
Beryllium (mg/L)	PZ-35	0.003	0.00025	0.004	No	11	0.00092	0.001041	18.18	None	No	0.006	NP (normality)
Beryllium (mg/L)	PZ-37	0.0008051	0.0002982	0.004	No	15	0.000632	0.0004727	13.33	None	ln(x)	0.01	Param.
Beryllium (mg/L)	YAMW-1	0.0005	0.000095	0.004	No	10	0.0002913	0.000198	40	None	No	0.011	NP (normality)
Beryllium (mg/L)	YAMW-2	0.0005	0.000051	0.004	No	7	0.000186	0.0002146	28.57	None	No	0.008	NP (normality)
Beryllium (mg/L)	YAMW-5	0.0001549	0.0001016	0.004	No	8	0.0001283	0.0000251	0	None	No	0.01	Param.
Beryllium (mg/L)	YGWC-23S	0.00023	0.00009	0.004	No	22	0.0007785	0.001234	22.73	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-24SB	0.00016	0.0001	0.004	No	21	0.000315	0.0004966	14.29	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-36A	0.0003907	0.0001957	0.004	No	22	0.0003436	0.000292	4.545	None	ln(x)	0.01	Param.
Beryllium (mg/L)	YGWC-38	0.0056	0.0028	0.004	No	18	0.004228	0.001375	0	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-41	0.0037	0.0015	0.004	No	18	0.002633	0.001035	0	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-42	0.0005	0.000067	0.004	No	18	0.0003348	0.0002133	61.11	None	No	0.01	NP (NDs)
Beryllium (mg/L)	YGWC-43	0.003	0.0003	0.004	No	18	0.001234	0.00129	33.33	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-49	0.00015	0.0001	0.004	No	17	0.0001994	0.0003358	5.882	None	No	0.01	NP (normality)

Confidence Intervals - All Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 5/16/2023, 8:25 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Cadmium (mg/L)	PZ-35	0.0005	0.00016	0.005	No	10	0.000402	0.0001613	70	None	No	0.011	NP (NDs)
Cadmium (mg/L)	PZ-37	0.000768	0.000396	0.005	No	15	0.000582	0.0002745	13.33	None	No	0.01	Param.
Cadmium (mg/L)	YAMW-1	0.0005	0.00014	0.005	No	10	0.0003	0.0001742	40	None	No	0.011	NP (normality)
Cadmium (mg/L)	YAMW-2	0.0005	0.00015	0.005	No	7	0.00045	0.0001323	85.71	None	No	0.008	NP (NDs)
Cadmium (mg/L)	YAMW-5	0.00046	0.00018	0.005	No	7	0.0002471	0.00009725	0	None	No	0.008	NP (normality)
Cadmium (mg/L)	YGWC-23S	0.0005	0.00007	0.005	No	22	0.0004805	0.00009168	95.45	None	No	0.01	NP (NDs)
Cadmium (mg/L)	YGWC-36A	0.0005	0.00018	0.005	No	22	0.00029	0.0001654	36.36	None	No	0.01	NP (normality)
Cadmium (mg/L)	YGWC-38	0.0029	0.0011	0.005	No	18	0.00204	0.0008076	0	None	No	0.01	NP (normality)
Cadmium (mg/L)	YGWC-41	0.0005	0.00017	0.005	No	18	0.0003144	0.0001576	38.89	None	No	0.01	NP (normality)
Cadmium (mg/L)	YGWC-42	0.0005	0.0002	0.005	No	18	0.0003839	0.0001649	50	None	No	0.01	NP (normality)
Cadmium (mg/L)	YGWC-49	0.0005	0.00007	0.005	No	17	0.0004747	0.0001043	94.12	None	No	0.01	NP (NDs)
Chromium (mg/L)	PZ-35	0.005	0.0006	0.1	No	8	0.002464	0.002127	37.5	None	No	0.004	NP (normality)
Chromium (mg/L)	PZ-37	0.005	0.0019	0.1	No	15	0.004307	0.001446	80	None	No	0.01	NP (NDs)
Chromium (mg/L)	YAMW-1	0.005	0.00058	0.1	No	8	0.002422	0.002145	37.5	None	No	0.004	NP (normality)
Chromium (mg/L)	YAMW-2	0.005	0.00071	0.1	No	7	0.003001	0.002004	42.86	None	No	0.008	NP (normality)
Chromium (mg/L)	YAMW-4	0.005	0.00057	0.1	No	7	0.004367	0.001674	85.71	None	No	0.008	NP (NDs)
Chromium (mg/L)	YAMW-5	0.005	0.0016	0.1	No	7	0.004514	0.001285	85.71	None	No	0.008	NP (NDs)
Chromium (mg/L)	YGWC-23S	0.005	0.00086	0.1	No	18	0.003474	0.001985	61.11	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-24SB	0.005	0.0011	0.1	No	17	0.004302	0.001554	82.35	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-36A	0.005	0.0035	0.1	No	18	0.004249	0.001542	77.78	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-38	0.005	0.00065	0.1	No	18	0.004508	0.001431	88.89	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-41	0.005	0.00039	0.1	No	18	0.004744	0.001087	94.44	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-42	0.005	0.0013	0.1	No	18	0.004296	0.001627	83.33	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-43	0.005	0.00074	0.1	No	18	0.004032	0.001865	77.78	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-49	0.002	0.0016	0.1	No	16	0.001975	0.0008434	6.25	None	No	0.01	NP (normality)
Cobalt (mg/L)	PZ-35	0.005	0.005	0.035	No	10	0.00509	0.0002846	90	None	No	0.011	NP (NDs)
Cobalt (mg/L)	PZ-37	0.01012	0.003723	0.035	No	15	0.007327	0.004972	0	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	YAMW-1	0.0223	0.00592	0.035	No	11	0.01424	0.01018	18.18	Kaplan-Meier	No	0.01	Param.
Cobalt (mg/L)	YAMW-2	0.00446	0.0003166	0.035	No	7	0.002153	0.002202	14.29	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	YAMW-4	0.0008857	0.0003514	0.035	No	7	0.0006186	0.0002249	0	None	No	0.01	Param.
Cobalt (mg/L)	YAMW-5	0.005	0.00077	0.035	No	7	0.004396	0.001599	85.71	None	No	0.008	NP (NDs)
Cobalt (mg/L)	YGWC-36A	0.005	0.00086	0.035	No	22	0.003986	0.001915	77.27	None	No	0.01	NP (NDs)
Cobalt (mg/L)	YGWC-41	0.005	0.0011	0.035	No	18	0.004022	0.00189	77.78	None	No	0.01	NP (NDs)
Cobalt (mg/L)	YGWC-42	0.002174	0.001682	0.035	No	18	0.001928	0.000407	5.556	None	No	0.01	Param.
Cobalt (mg/L)	YGWC-43	0.005	0.0006	0.035	No	18	0.002886	0.00189	38.89	None	No	0.01	NP (normality)
Cobalt (mg/L)	YGWC-49	0.005	0.0008	0.035	No	17	0.003971	0.001914	76.47	None	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	PZ-35	0.9597	0.2765	6.92	No	9	0.6181	0.3538	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-37	1.896	1.126	6.92	No	15	1.511	0.568	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-37D	3.18	0.815	6.92	No	4	2.226	1.003	0	None	No	0.0625	NP (selected)
Combined Radium 226 + 228 (pCi/L)	PZ-52D	1.52	0.218	6.92	No	4	0.671	0.613	0	None	No	0.0625	NP (selected)
Combined Radium 226 + 228 (pCi/L)	YAMW-1	0.6923	0.3112	6.92	No	9	0.5018	0.1974	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YAMW-2	0.959	0	6.92	No	7	0.4222	0.3711	0	None	No	0.008	NP (selected)
Combined Radium 226 + 228 (pCi/L)	YAMW-4	1.111	0.1315	6.92	No	7	0.6214	0.4125	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YAMW-5	1.335	0.5175	6.92	No	7	0.9264	0.3443	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-23S	0.7919	0.3878	6.92	No	22	0.5899	0.3764	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-24SB	0.7571	0.4643	6.92	No	21	0.6107	0.2653	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-36A	0.982	0.4999	6.92	No	22	0.741	0.449	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-38	1.163	0.5665	6.92	No	18	0.8648	0.4931	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-41	1.183	0.5318	6.92	No	18	0.9081	0.5677	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-42	2.361	0.9873	6.92	No	18	1.791	1.204	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-43	3.858	1.728	6.92	No	18	2.793	1.76	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-49	1.044	0.4995	6.92	No	17	0.7719	0.4349	0	None	No	0.01	Param.
Fluoride (mg/L)	PZ-37	0.26	0.1	4	No	15	0.1567	0.1072	73.33	Kaplan-Meier	No	0.01	NP (NDs)
Fluoride (mg/L)	PZ-37D	0.4234	0.0116	4	No	4	0.2175	0.09069	0	None	No	0.01	Param.
Fluoride (mg/L)	YAMW-2	0.1	0.061	4	No	7	0.08914	0.01855	71.43	None	No	0.008	NP (NDs)

Confidence Intervals - All Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 5/16/2023, 8:25 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride (mg/L)	YAMW-4	0.1107	0.06478	4	No	7	0.1053	0.02559	42.86	Kaplan-Meier	sqrt(x)	0.01	Param.
Fluoride (mg/L)	YAMW-5	0.1	0.05	4	No	7	0.08643	0.02322	71.43	Kaplan-Meier	No	0.008	NP (NDs)
Fluoride (mg/L)	YGWC-23S	0.12	0.057	4	No	23	0.09374	0.02005	82.61	Kaplan-Meier	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-24SB	0.1	0.098	4	No	22	0.09464	0.01727	86.36	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-36A	0.1	0.094	4	No	23	0.09374	0.02997	69.57	Kaplan-Meier	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-38	0.21	0.034	4	No	19	0.1486	0.107	68.42	Kaplan-Meier	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-41	0.11	0.1	4	No	19	0.1005	0.002294	89.47	Kaplan-Meier	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-42	0.1	0.06	4	No	19	0.08547	0.0247	68.42	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-43	0.1061	0.06255	4	No	19	0.1037	0.04885	21.05	Kaplan-Meier	x^(1/3)	0.01	Param.
Fluoride (mg/L)	YGWC-49	0.14	0.09	4	No	18	0.09944	0.02363	66.67	Kaplan-Meier	No	0.01	NP (NDs)
Lead (mg/L)	PZ-35	0.001	0.000087	0.015	No	9	0.0008041	0.000389	77.78	None	No	0.002	NP (NDs)
Lead (mg/L)	PZ-37	0.001	0.0001	0.015	No	15	0.0007115	0.0004235	66.67	None	No	0.01	NP (NDs)
Lead (mg/L)	YAMW-1	0.001	0.00019	0.015	No	9	0.00091	0.00027	88.89	None	No	0.002	NP (NDs)
Lead (mg/L)	YAMW-2	0.001	0.00008	0.015	No	7	0.0007414	0.0004417	71.43	None	No	0.008	NP (NDs)
Lead (mg/L)	YAMW-4	0.001	0.000096	0.015	No	7	0.0007023	0.000393	57.14	None	No	0.008	NP (NDs)
Lead (mg/L)	YAMW-5	0.001	0.000041	0.015	No	7	0.0006034	0.000495	57.14	None	No	0.008	NP (NDs)
Lead (mg/L)	YGWC-23S	0.001	0.00044	0.015	No	20	0.0008413	0.0003325	80	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-24SB	0.001	0.00036	0.015	No	19	0.0009165	0.0002554	89.47	Kaplan-Meier	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-36A	0.0004641	0.0001697	0.015	No	20	0.0005965	0.0004298	30	Kaplan-Meier	sqrt(x)	0.01	Param.
Lead (mg/L)	YGWC-38	0.001	0.0001	0.015	No	18	0.00085	0.0003451	83.33	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-41	0.0011	0.0002	0.015	No	18	0.0008087	0.0003836	72.22	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-42	0.001	0.0002	0.015	No	18	0.0007995	0.0003871	77.78	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-43	0.001	0.00008	0.015	No	18	0.0008975	0.0002983	88.89	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-49	0.001	0.000059	0.015	No	17	0.0009446	0.0002282	94.12	None	No	0.01	NP (NDs)
Lithium (mg/L)	PZ-35	0.011	0.0011	0.04	No	10	0.00399	0.004873	10	None	No	0.011	NP (normality)
Lithium (mg/L)	PZ-37	0.032	0.017	0.04	No	15	0.03158	0.02645	6.667	None	No	0.01	NP (normality)
Lithium (mg/L)	PZ-37D	0.0167	0.0007531	0.04	No	4	0.008725	0.003511	0	None	No	0.01	Param.
Lithium (mg/L)	YAMW-1	0.02048	0.007982	0.04	No	10	0.01423	0.007003	10	None	No	0.01	Param.
Lithium (mg/L)	YAMW-3	0.05992	0.03258	0.04	No	4	0.04625	0.006021	0	None	No	0.01	Param.
Lithium (mg/L)	YAMW-4	0.03625	0.02086	0.04	No	7	0.02886	0.006986	0	None	x^2	0.01	Param.
Lithium (mg/L)	YAMW-5	0.01608	0.01306	0.04	No	7	0.01457	0.001272	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-23S	0.002681	0.002065	0.04	No	22	0.002373	0.0005742	4.545	None	No	0.01	Param.
Lithium (mg/L)	YGWC-36A	0.005916	0.002611	0.04	No	22	0.004649	0.003238	4.545	None	sqrt(x)	0.01	Param.
Lithium (mg/L)	YGWC-38	0.008605	0.007139	0.04	No	18	0.007872	0.001211	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-41	0.0043	0.0021	0.04	No	18	0.004378	0.005232	5.556	None	No	0.01	NP (normality)
Lithium (mg/L)	YGWC-42	0.04908	0.03408	0.04	No	18	0.04158	0.01239	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-43	0.01791	0.01204	0.04	No	18	0.01497	0.00485	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-49	0.003802	0.003463	0.04	No	17	0.003635	0.0002737	0	None	sqrt(x)	0.01	Param.
Mercury (mg/L)	PZ-37	0.0002	0.00019	0.002	No	15	0.00019	0.00003606	86.67	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-23S	0.0002	0.00015	0.002	No	17	0.0001911	0.00002686	88.24	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-38	0.0002	0.00008	0.002	No	15	0.0001811	0.00005045	86.67	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-41	0.0002	0.00006	0.002	No	15	0.0001907	0.00003615	93.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-42	0.0002	0.000048	0.002	No	15	0.0001899	0.00003925	93.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-43	0.0002	0.00009	0.002	No	15	0.0001828	0.00004596	86.67	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-49	0.0002	0.00014	0.002	No	14	0.0001858	0.00003931	85.71	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	PZ-35	0.01	0.0019	0.1	No	8	0.008987	0.002864	87.5	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	PZ-37	0.01	0.0015	0.1	No	15	0.005607	0.004265	46.67	None	No	0.01	NP (normality)
Molybdenum (mg/L)	PZ-37D	0.0059	0.0018	0.1	No	4	0.00345	0.001816	0	None	No	0.0625	NP (selected)
Molybdenum (mg/L)	YAMW-1	0.00368	0.001155	0.1	No	8	0.005249	0.004059	37.5	Kaplan-Meier	sqrt(x)	0.01	Param.
Molybdenum (mg/L)	YAMW-4	0.008272	0.005785	0.1	No	7	0.007029	0.001047	0	None	No	0.01	Param.
Molybdenum (mg/L)	YGWC-36A	0.01	0.0027	0.1	No	18	0.007722	0.003508	66.67	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	YGWC-42	0.01	0.00081	0.1	No	18	0.00426	0.004226	33.33	None	No	0.01	NP (normality)
Molybdenum (mg/L)	YGWC-43	0.01	0.0012	0.1	No	18	0.005039	0.004227	38.89	None	No	0.01	NP (normality)
Molybdenum (mg/L)	YGWC-49	0.01	0.0007	0.1	No	16	0.009419	0.002325	93.75	None	No	0.01	NP (NDs)
Selenium (mg/L)	PZ-35	0.005	0.003	0.05	No	10	0.0042	0.001195	60	None	No	0.011	NP (NDs)

Confidence Intervals - All Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 5/16/2023, 8:25 AM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Compliance</u>	<u>Sig.</u>	<u>N</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Selenium (mg/L)	PZ-37	0.2801	0.2029	0.05	Yes	15	0.2415	0.05697	0	None	No	0.01	Param.
Selenium (mg/L)	YAMW-1	0.005	0.0027	0.05	No	10	0.00422	0.001164	50	None	No	0.011	NP (normality)
Selenium (mg/L)	YAMW-4	0.02008	0.001939	0.05	No	8	0.01322	0.008018	25	Kaplan-Meier	No	0.01	Param.
Selenium (mg/L)	YAMW-5	0.06099	0.04008	0.05	No	8	0.0505	0.01135	0	None	x^2	0.01	Param.
Selenium (mg/L)	YGWC-23S	0.03882	0.02843	0.05	No	22	0.03362	0.009677	0	None	No	0.01	Param.
Selenium (mg/L)	YGWC-36A	0.005	0.002	0.05	No	22	0.003477	0.001403	40.91	None	No	0.01	NP (normality)
Selenium (mg/L)	YGWC-38	0.246	0.064	0.05	Yes	18	0.1496	0.08206	0	None	No	0.01	NP (normality)
Selenium (mg/L)	YGWC-41	0.067	0.031	0.05	No	18	0.04877	0.01783	0	None	No	0.01	NP (normality)
Selenium (mg/L)	YGWC-42	0.05382	0.04031	0.05	No	18	0.04706	0.01116	0	None	No	0.01	Param.
Selenium (mg/L)	YGWC-49	0.008439	0.006573	0.05	No	17	0.007506	0.001489	5.882	None	No	0.01	Param.
Thallium (mg/L)	YGWC-49	0.001	0.00009	0.002	No	15	0.0009393	0.000235	93.33	None	No	0.01	NP (NDs)

Appendix IV Trend Tests - Significant Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 4/26/2023, 11:42 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Selenium (mg/L)	YGWA-17S (bg)	0	106	92	Yes	22	72.73	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWC-38	-0.04789	-138	-68	Yes	18	0	n/a	n/a	0.01	NP

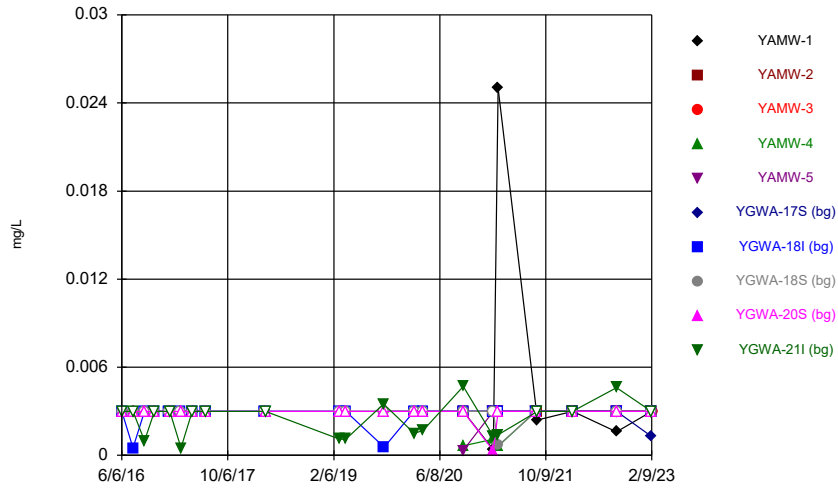
Appendix IV Trend Tests - All Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 4/26/2023, 11:42 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Selenium (mg/L)	YGWA-17S (bg)	0	106	92	Yes	22	72.73	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-18I (bg)	0	0	98	No	23	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-18S (bg)	0	0	98	No	23	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-20S (bg)	0	0	98	No	23	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-21I (bg)	0	41	98	No	23	91.3	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-39 (bg)	0	4	74	No	19	94.74	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-40 (bg)	0	-25	-74	No	19	42.11	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-4I (bg)	0	7	98	No	23	91.3	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-5D (bg)	0	0	98	No	23	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-5I (bg)	0	20	98	No	23	95.65	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWC-38	-0.04789	-138	-68	Yes	18	0	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-47 (bg)	0	21	48	No	14	85.71	n/a	n/a	0.01	NP
Selenium (mg/L)	GWA-2 (bg)	0	0	214	No	39	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-14S (bg)	0	54	87	No	21	71.43	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-1D (bg)	0	0	87	No	21	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-1I (bg)	0	0	87	No	21	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-2I (bg)	0	0	87	No	21	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-30I (bg)	0	0	87	No	21	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-3D (bg)	0	0	87	No	21	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-3I (bg)	0	0	87	No	21	100	n/a	n/a	0.01	NP
Selenium (mg/L)	PZ-37	-0.01245	-29	-53	No	15	0	n/a	n/a	0.01	NP

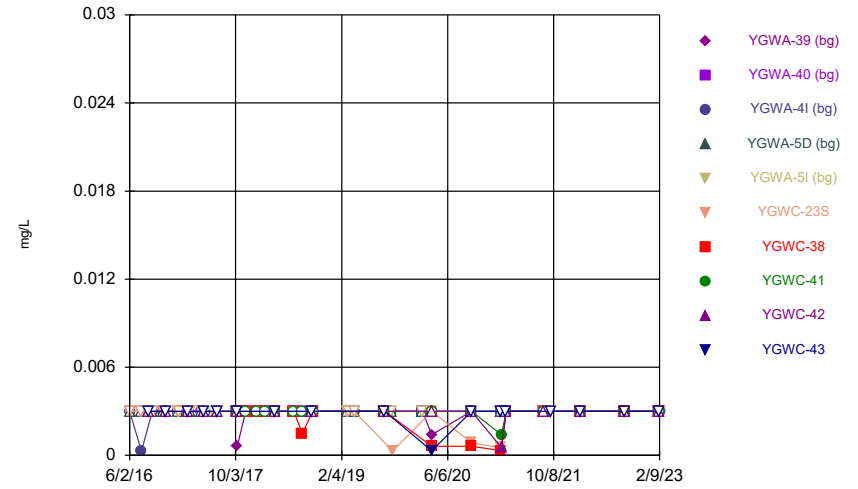
FIGURE A.

Time Series



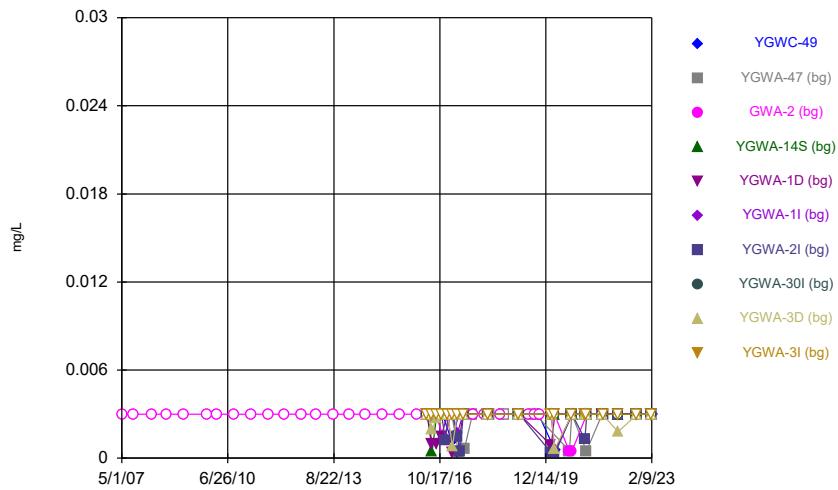
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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



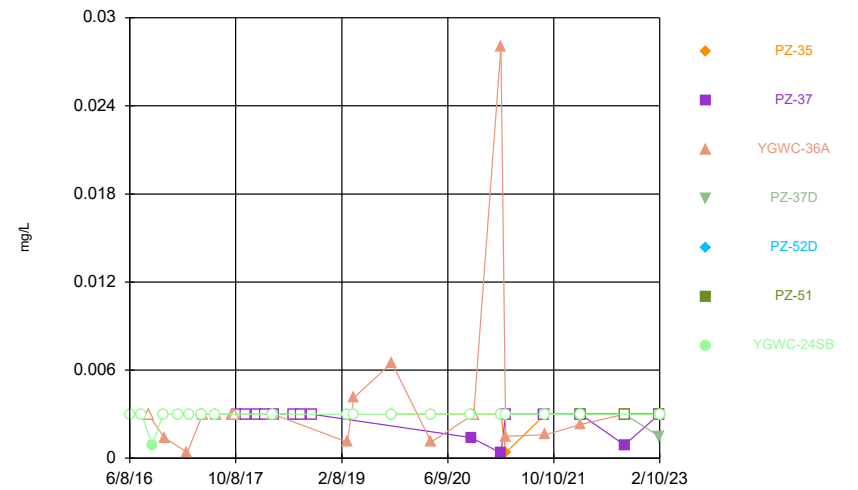
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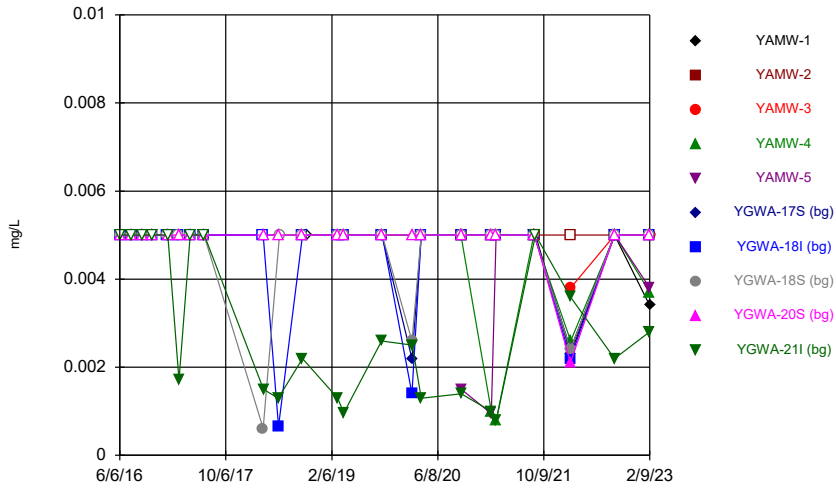
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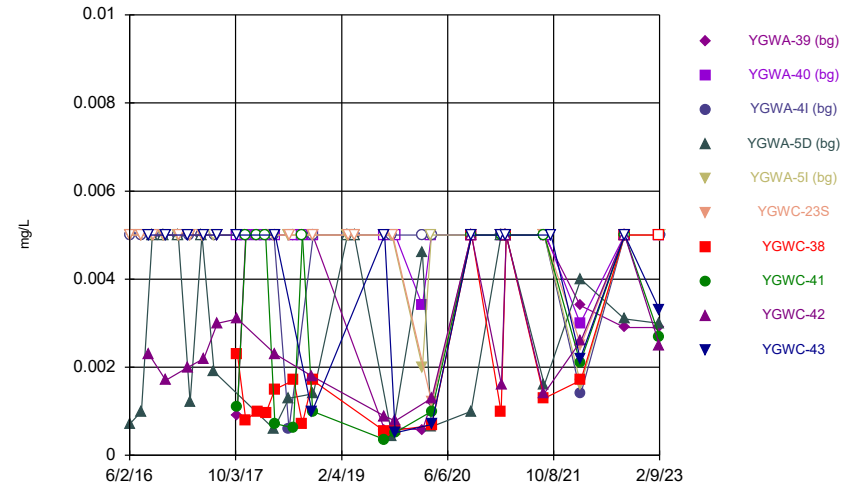
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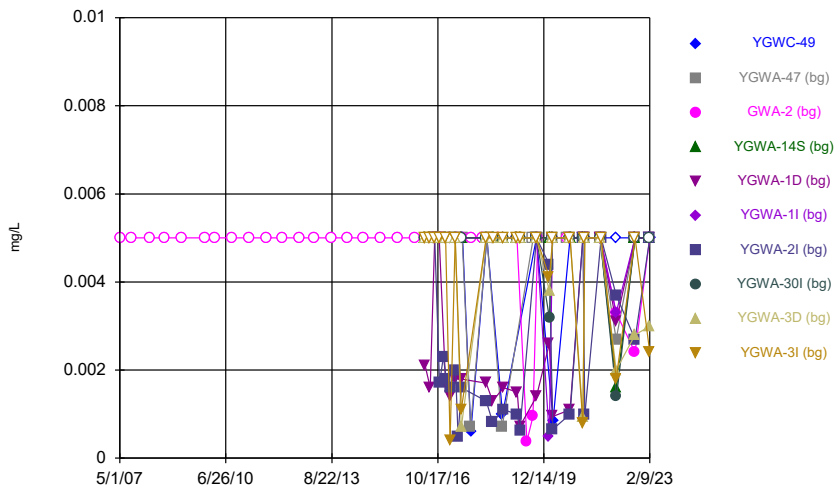
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Time Series



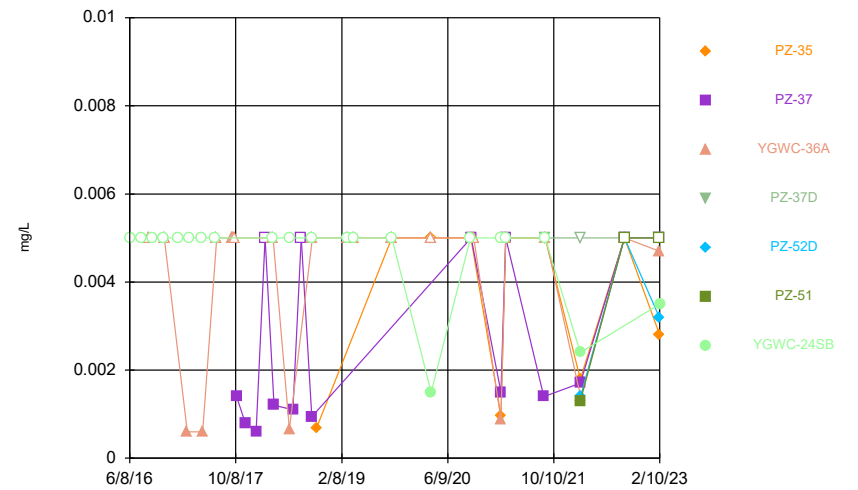
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Time Series



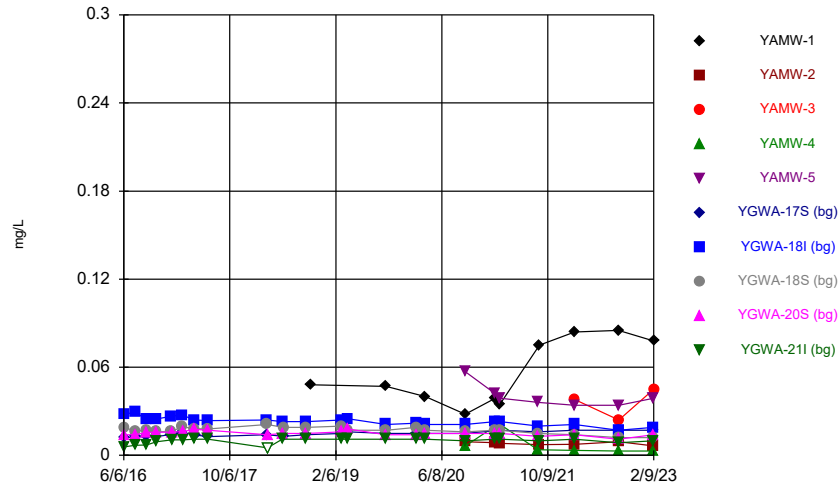
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Time Series



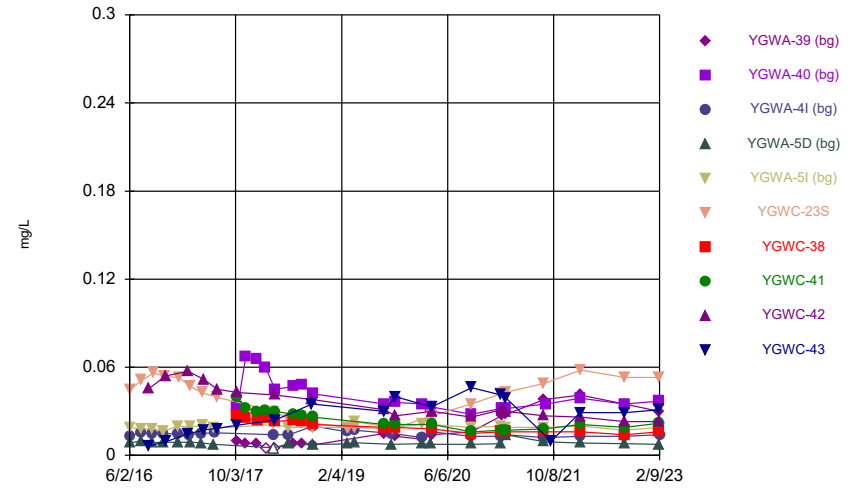
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Time Series



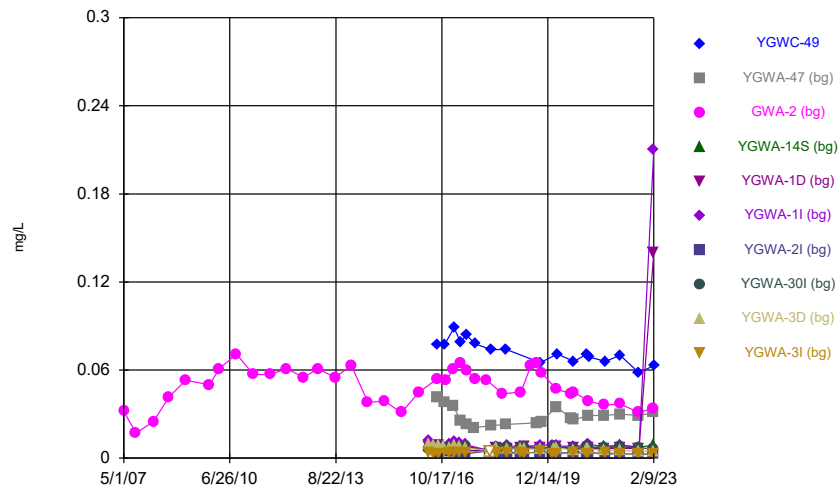
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Time Series



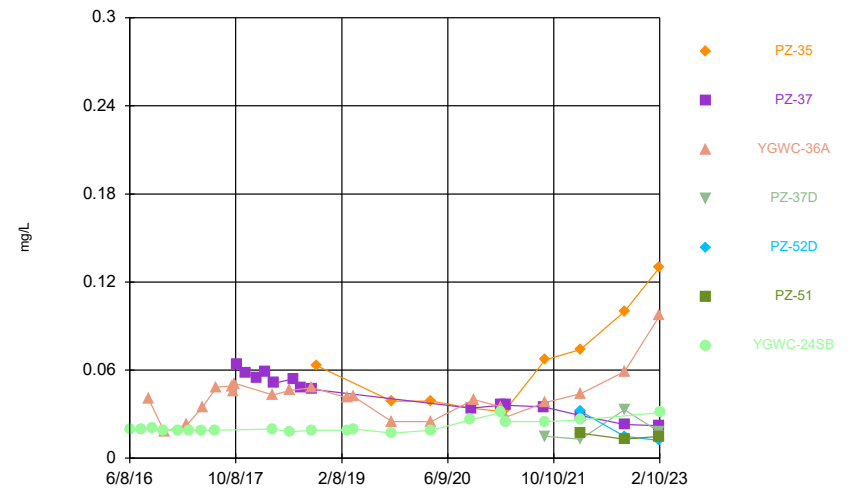
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Time Series



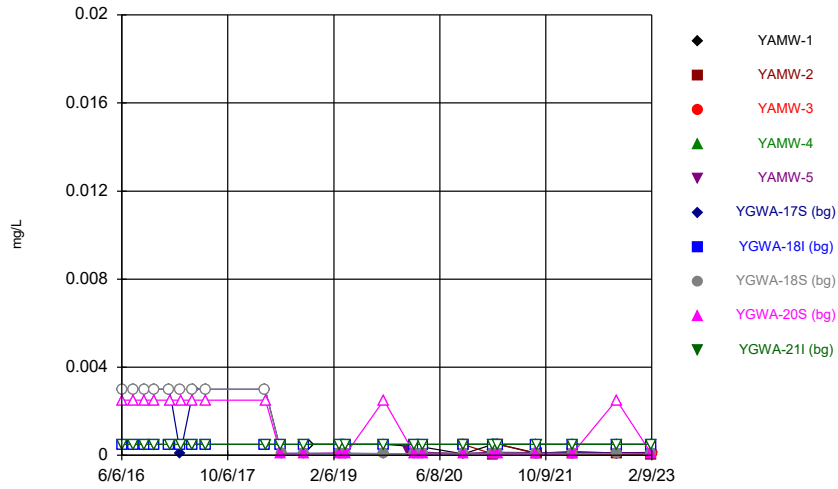
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Time Series



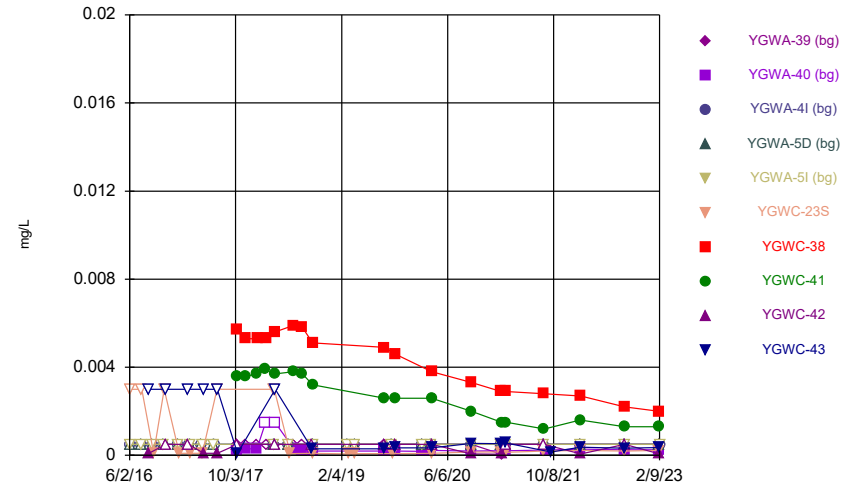
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Time Series



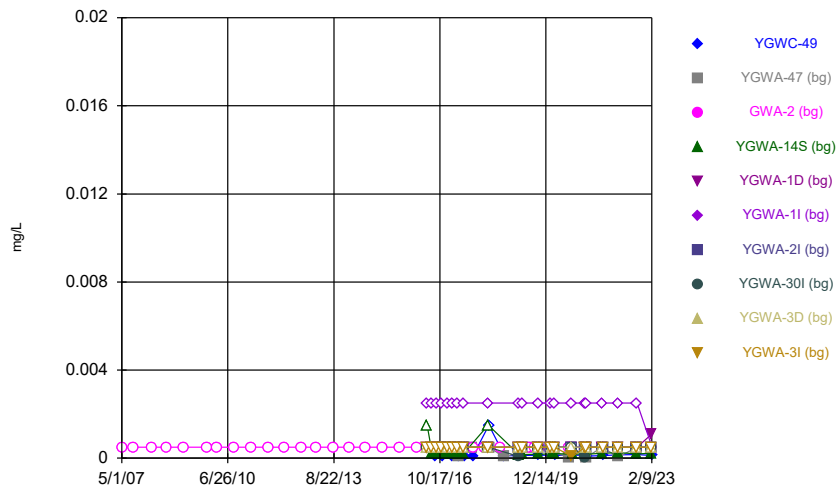
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Time Series



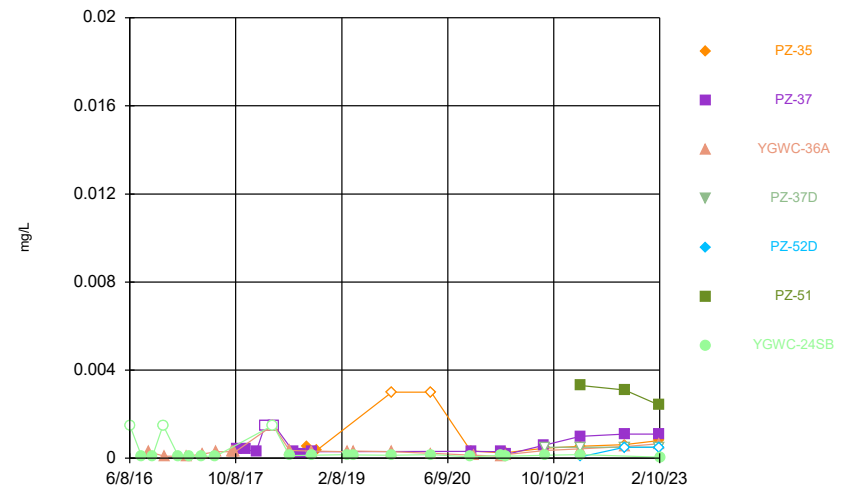
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Time Series



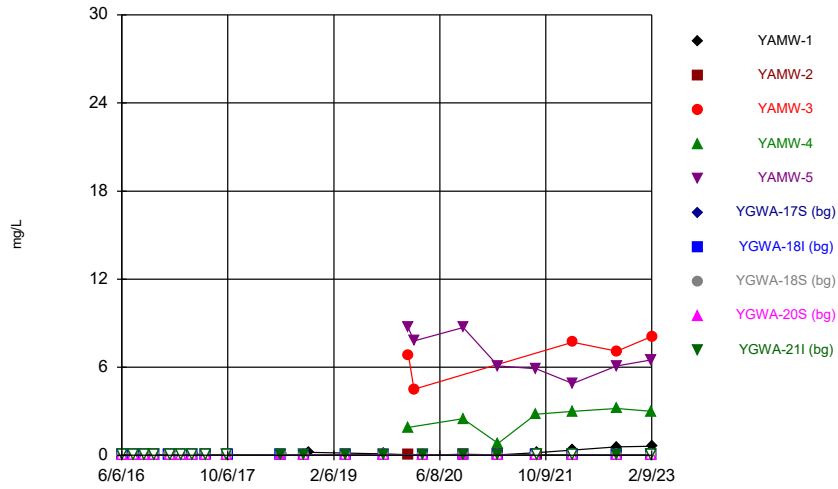
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Time Series



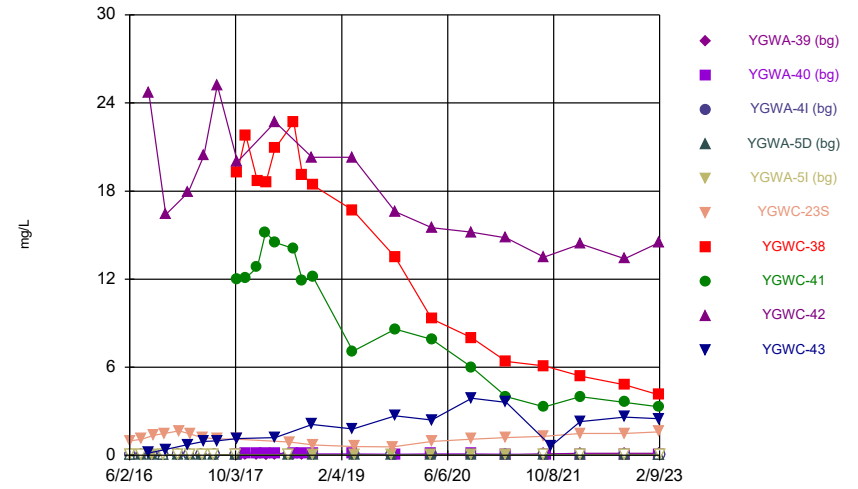
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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



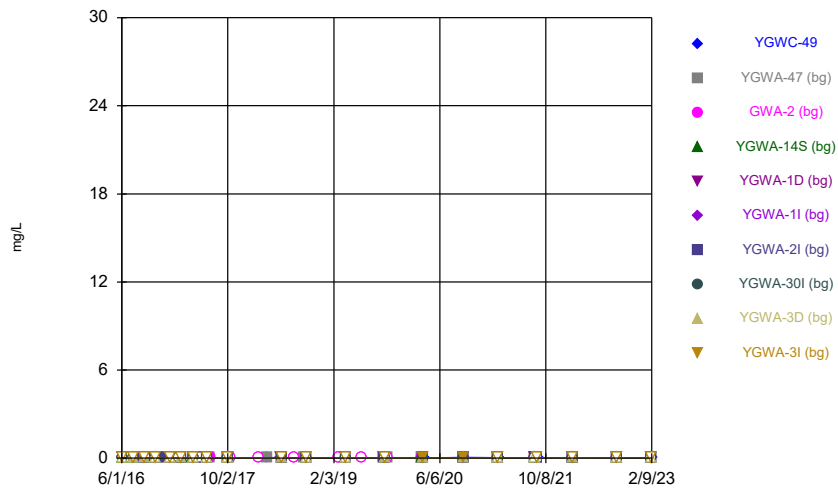
Constituent: Boron Analysis Run 4/26/2023 11:03 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



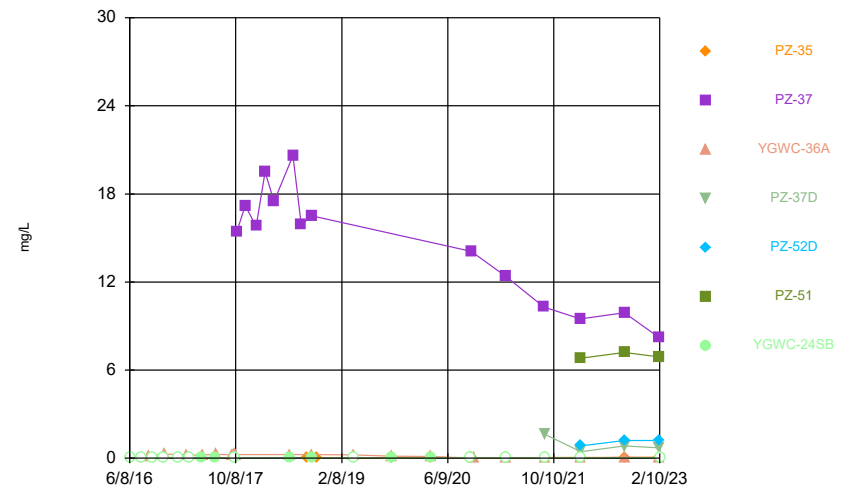
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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



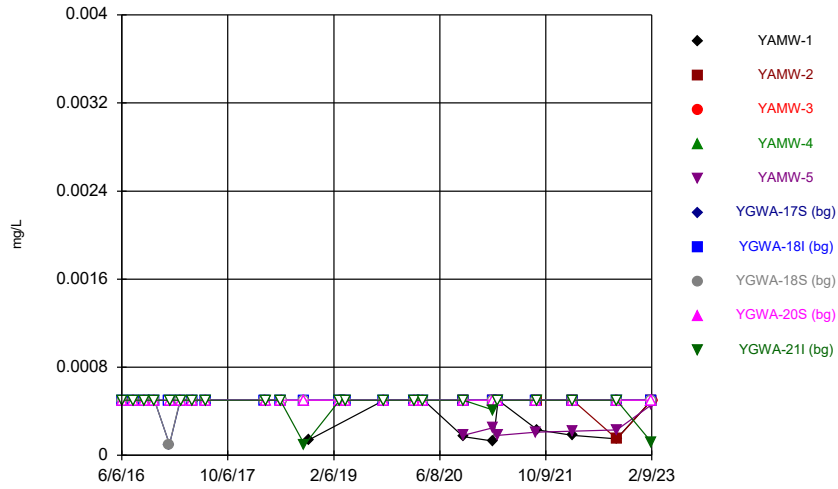
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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



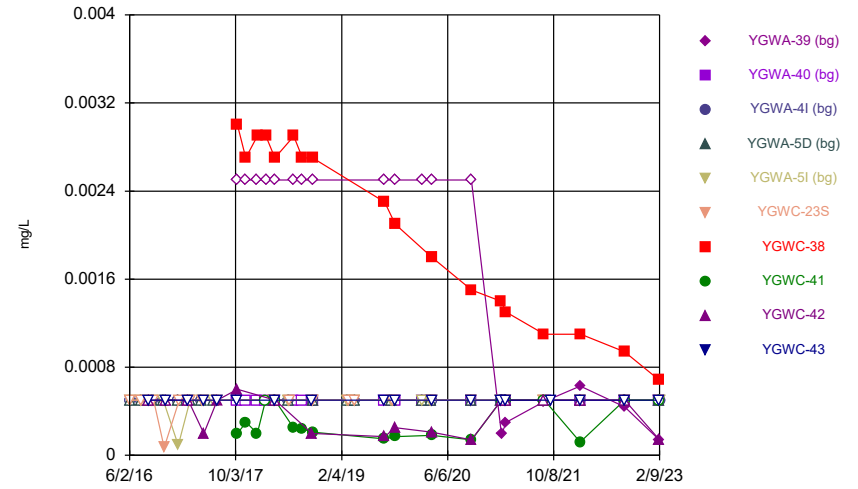
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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



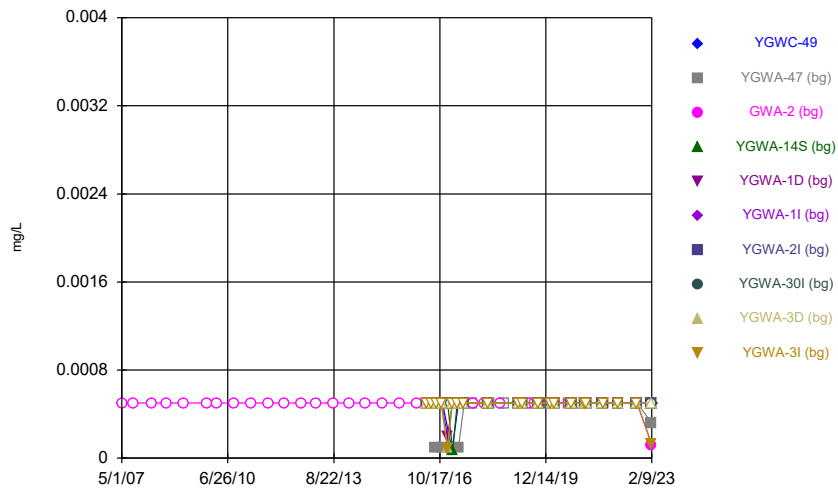
Constituent: Cadmium Analysis Run 4/26/2023 11:03 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



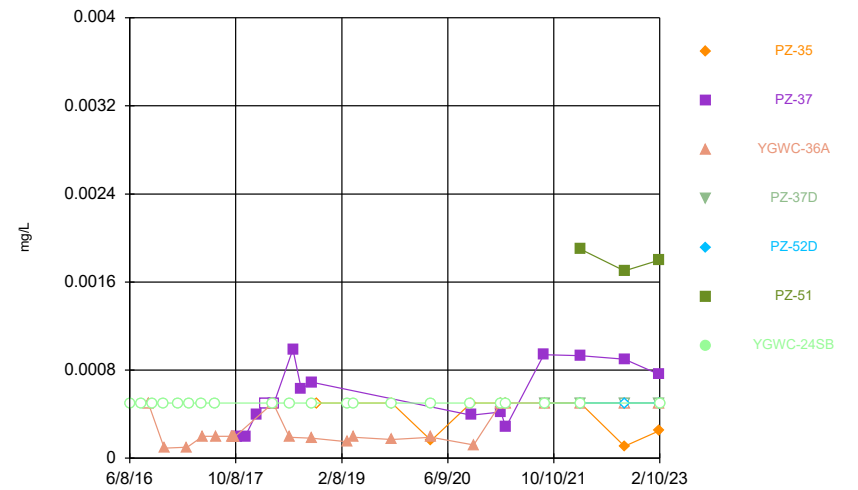
Constituent: Cadmium Analysis Run 4/26/2023 11:04 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



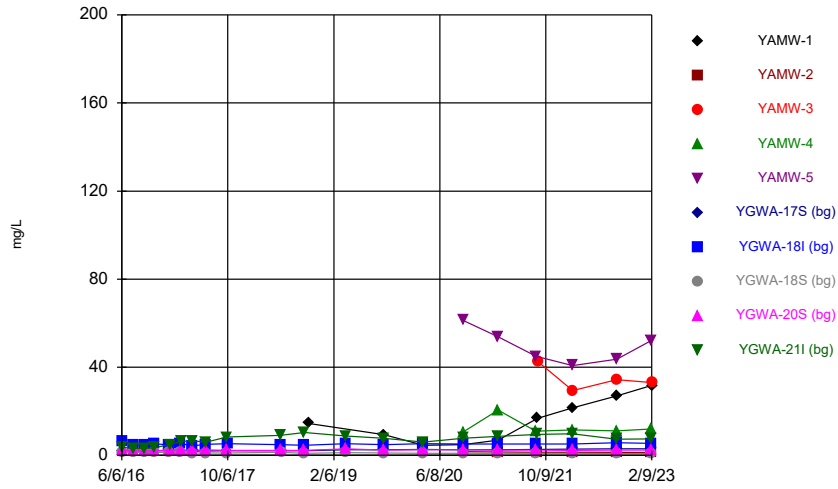
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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



Constituent: Cadmium Analysis Run 4/26/2023 11:04 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

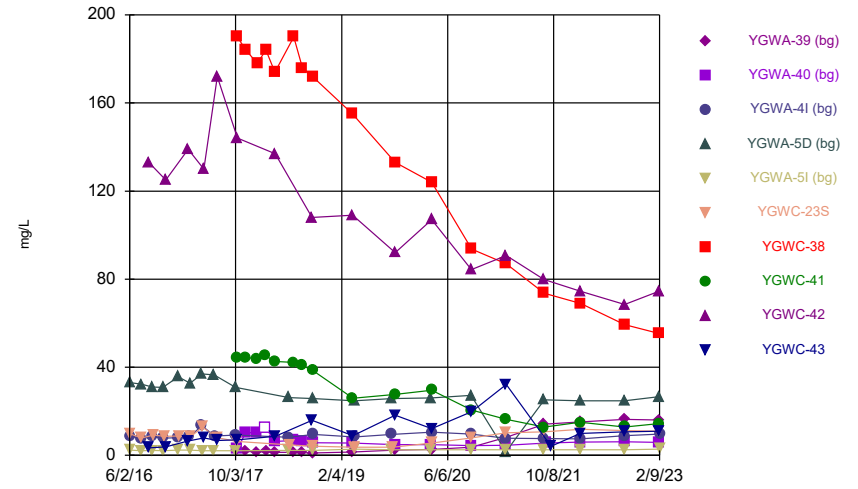
Time Series



Constituent: Calcium Analysis Run 4/26/2023 11:04 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

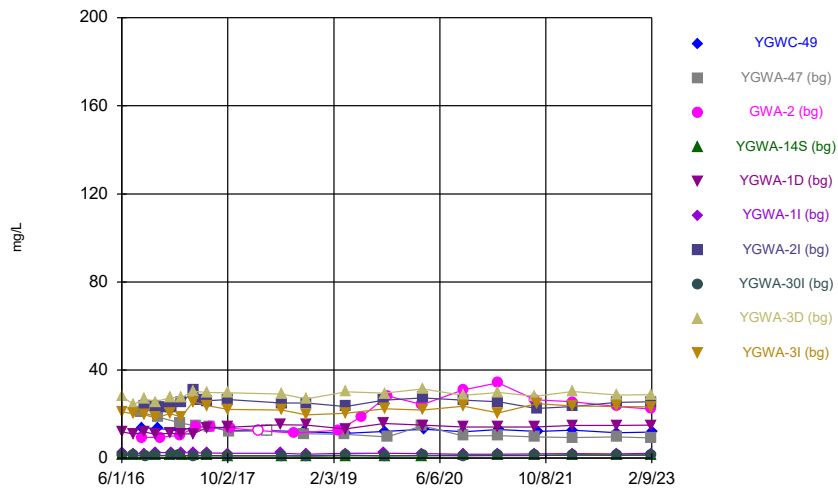
Hollow symbols indicate censored values.

Time Series



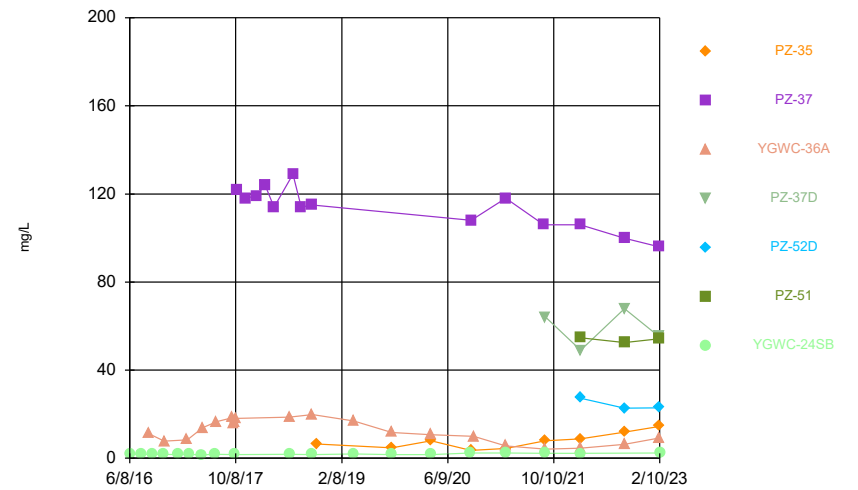
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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



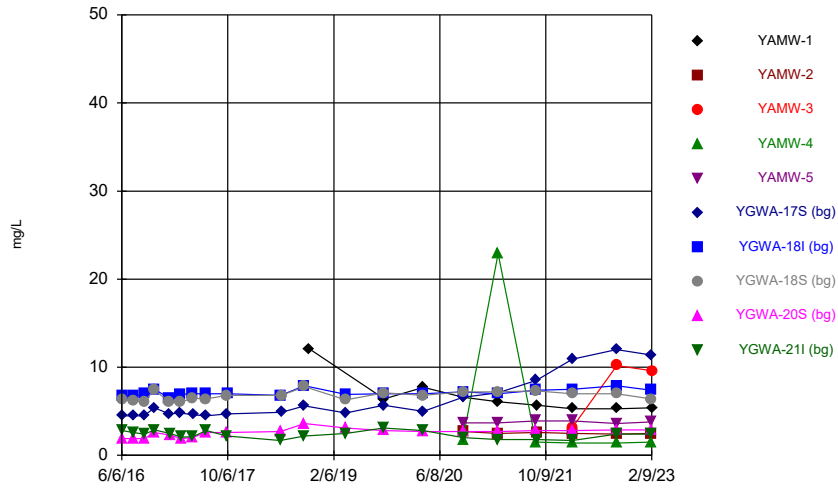
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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



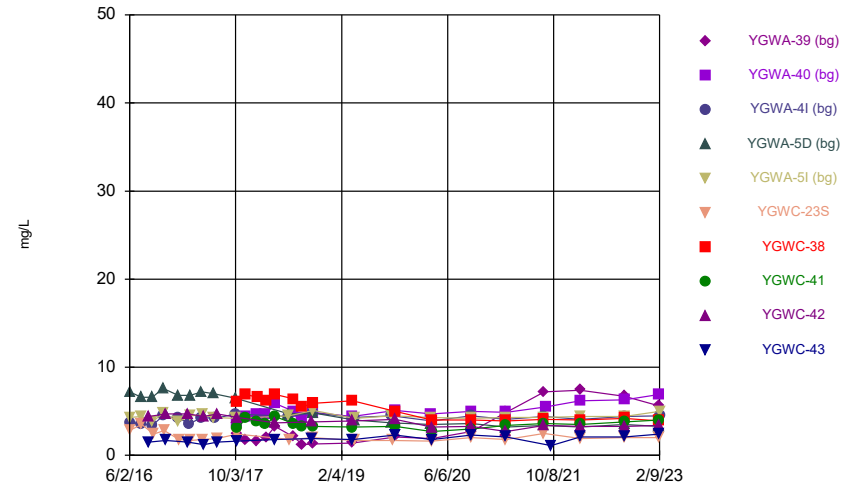
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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



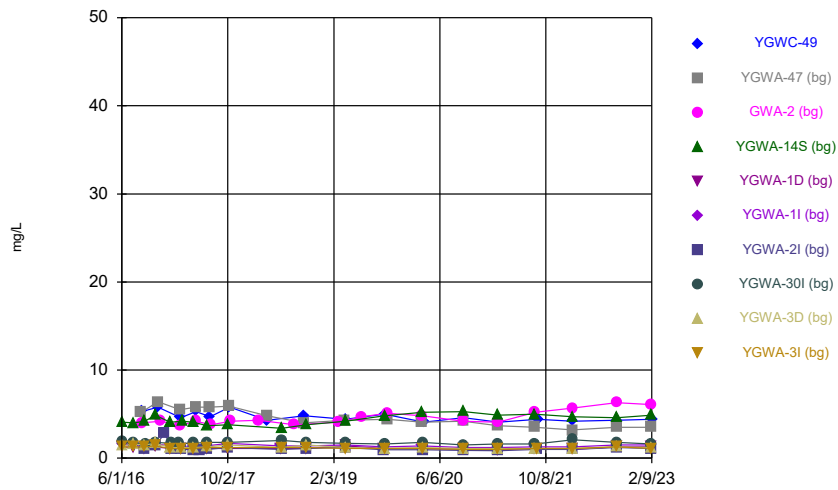
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 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



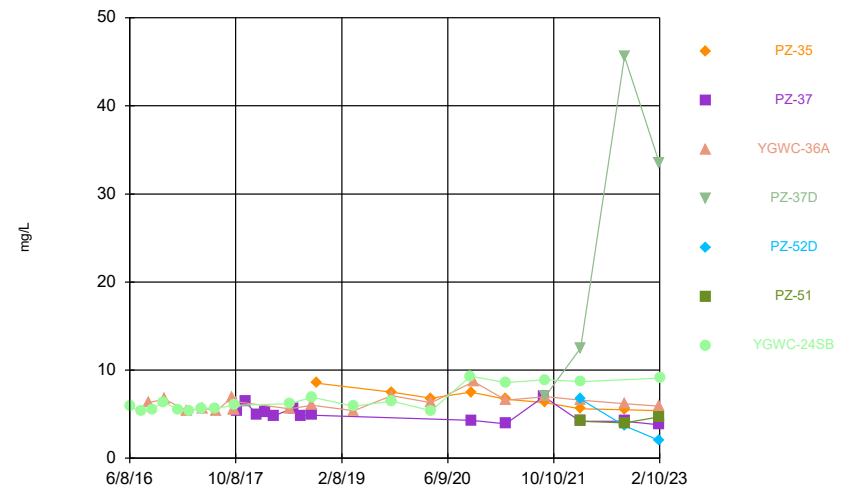
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 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



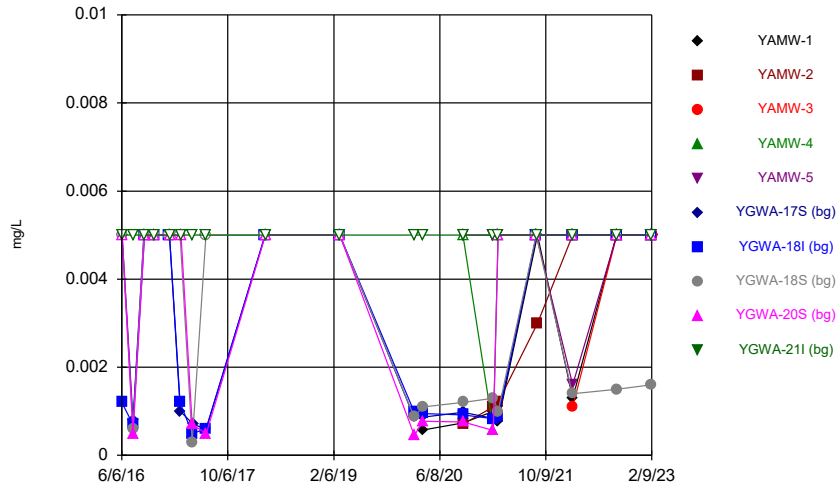
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 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



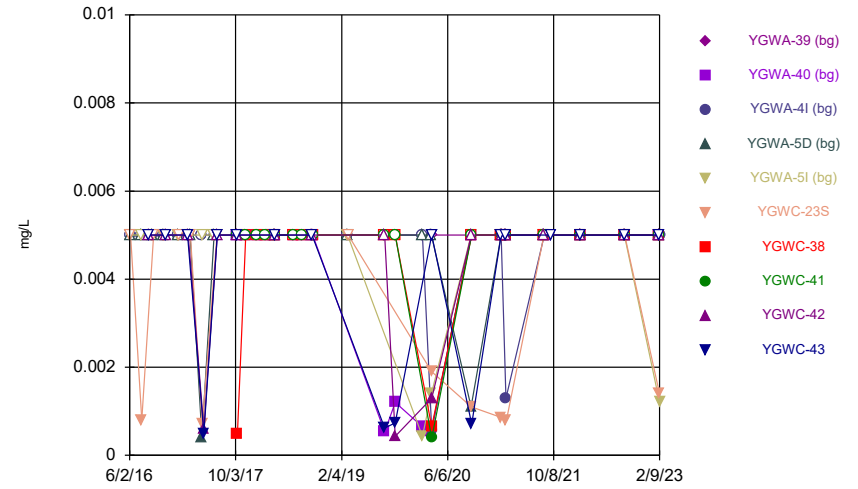
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Time Series



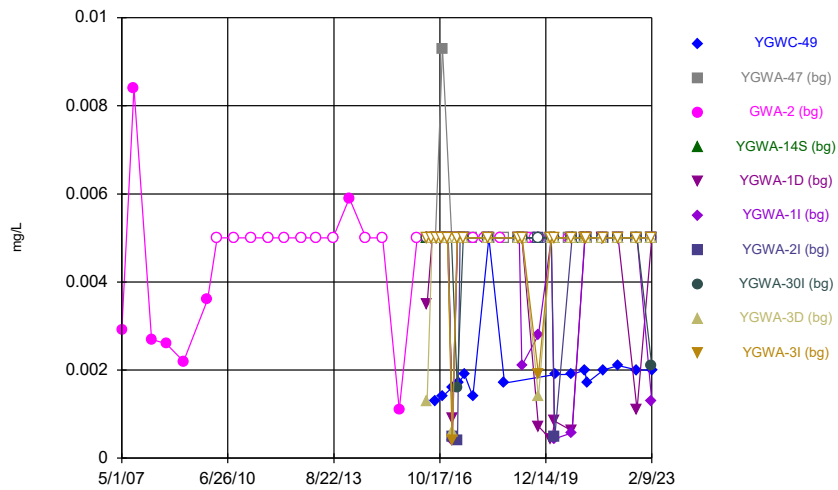
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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



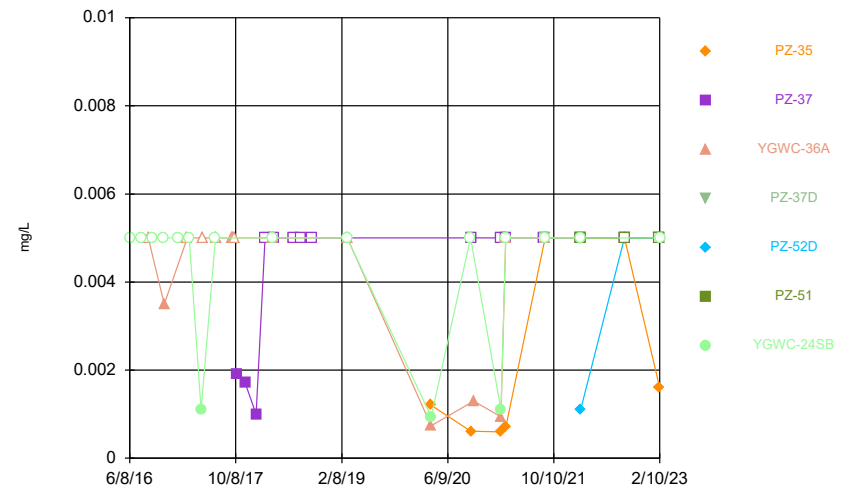
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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



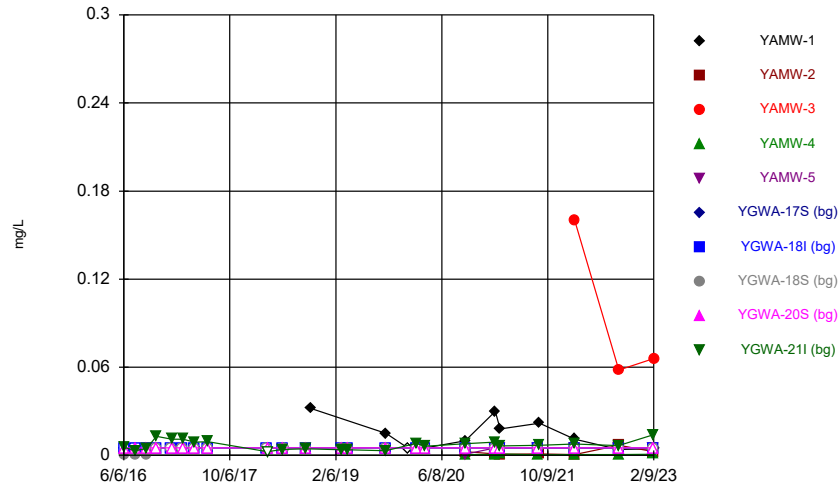
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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



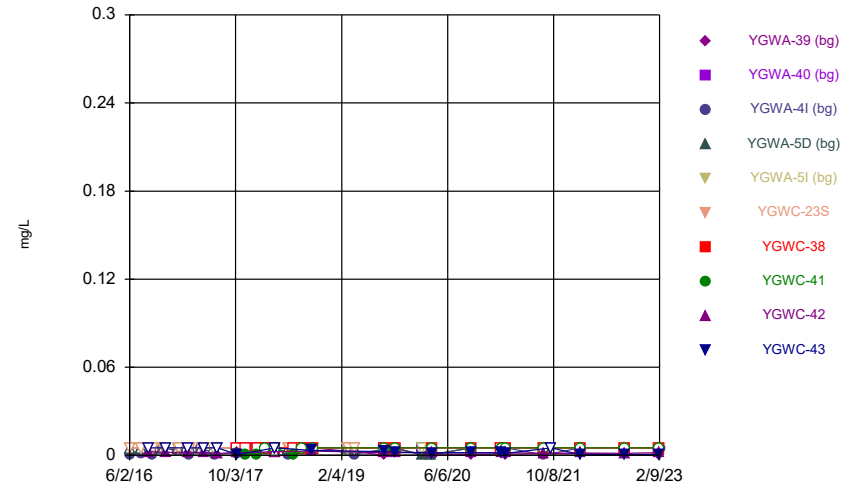
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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



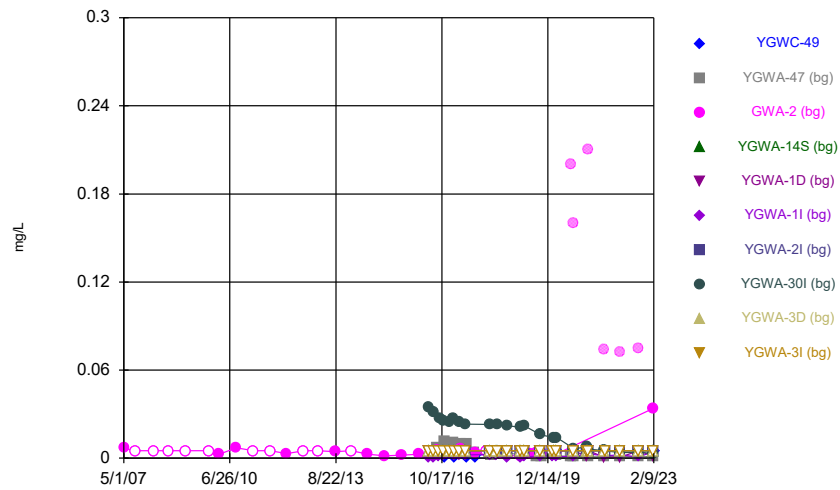
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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



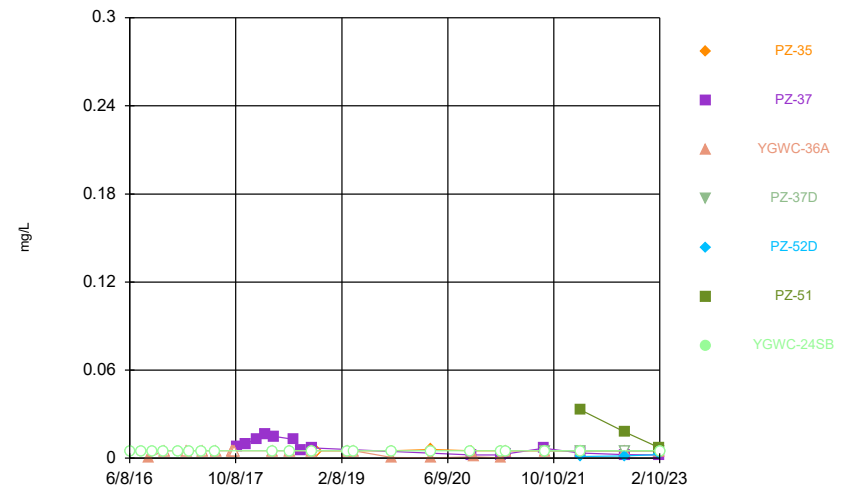
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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



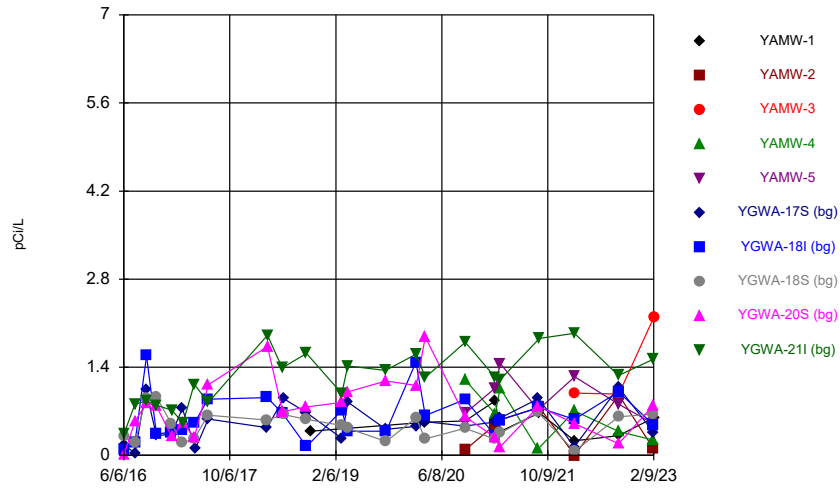
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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



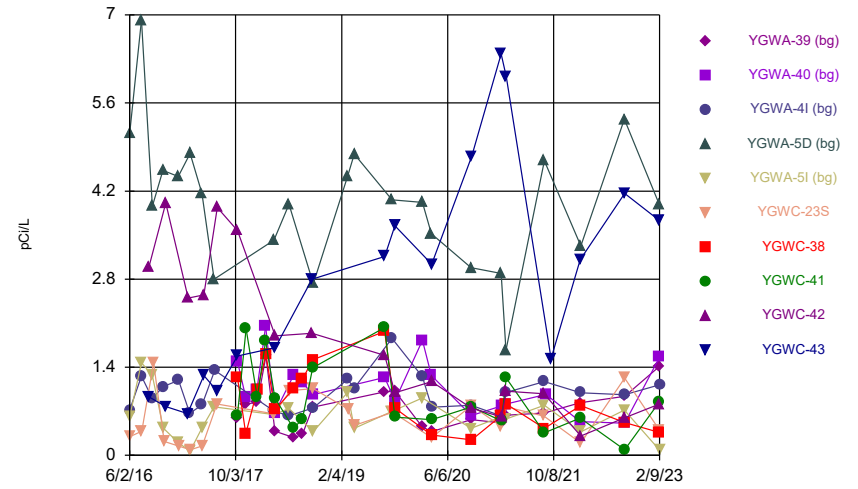
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Time Series



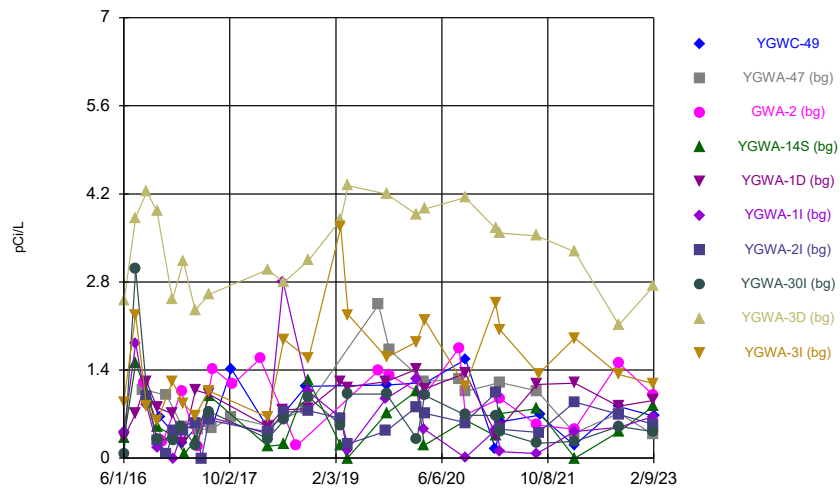
Constituent: Combined Radium 226 + 228 Analysis Run 4/26/2023 11:04 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



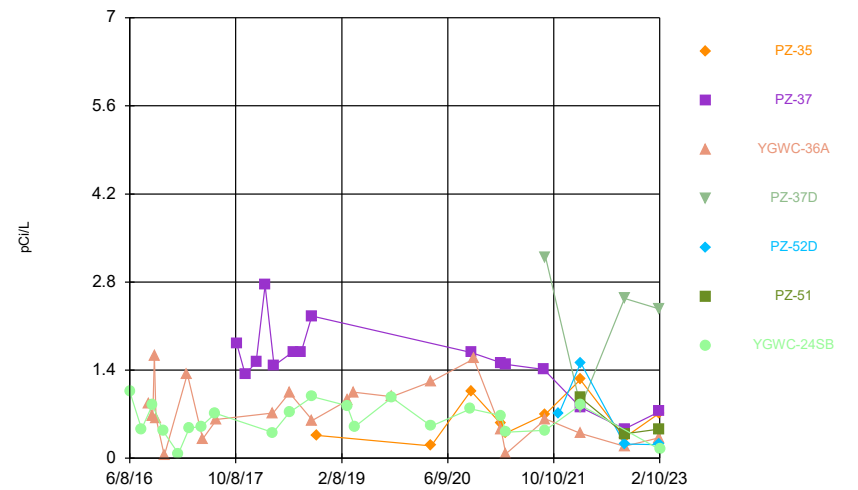
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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



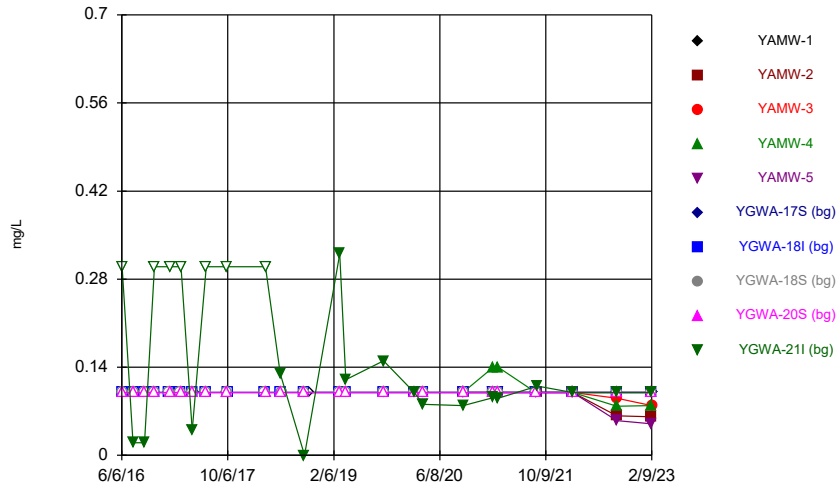
Constituent: Combined Radium 226 + 228 Analysis Run 4/26/2023 11:04 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



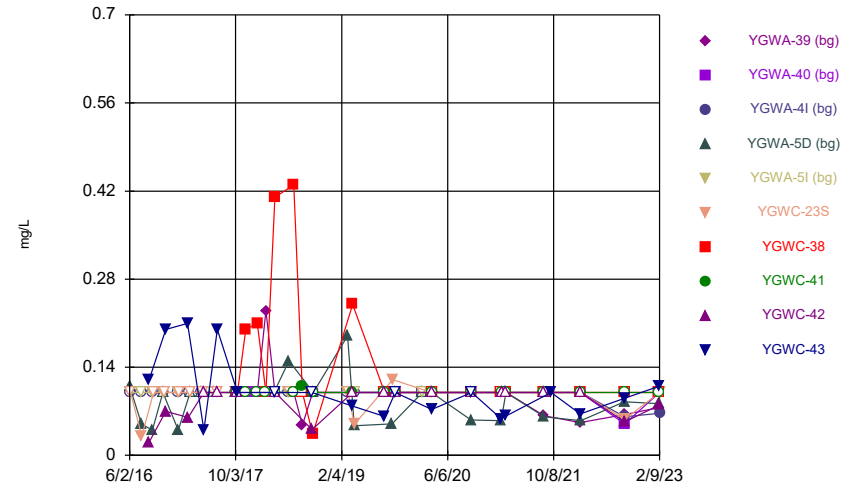
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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



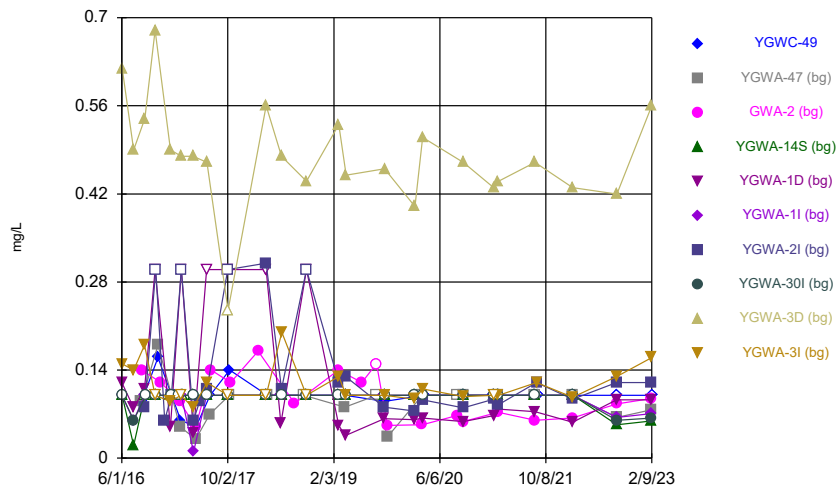
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Time Series



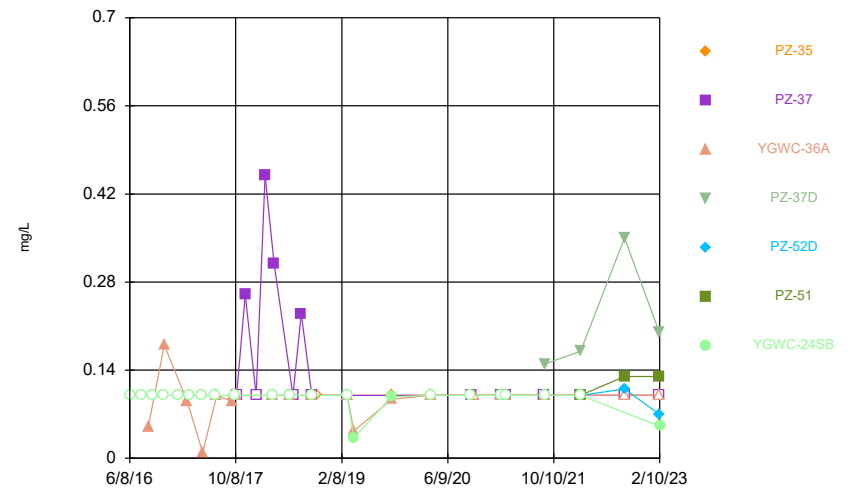
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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



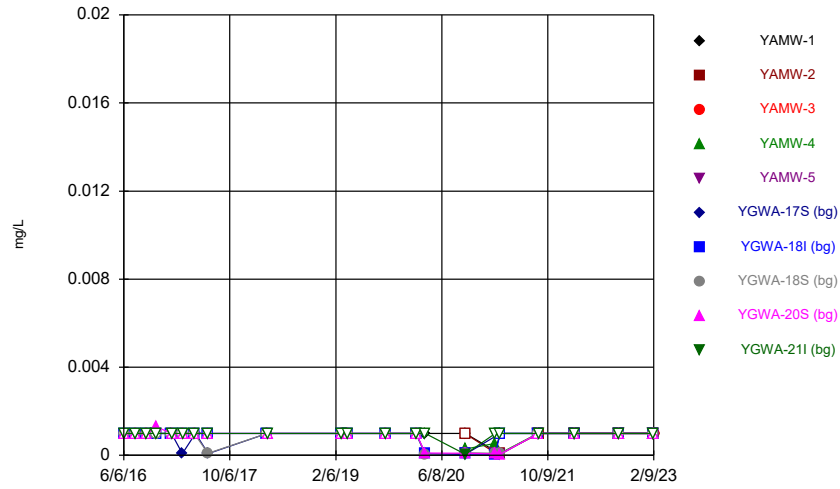
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Time Series



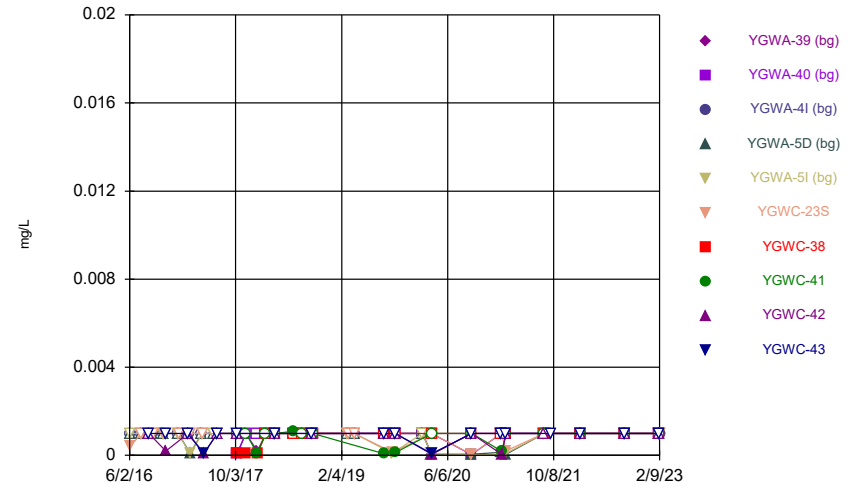
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Time Series



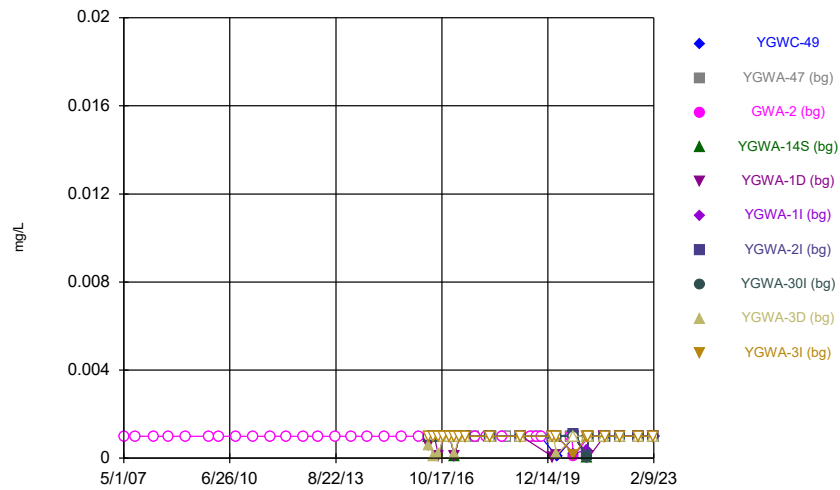
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Time Series



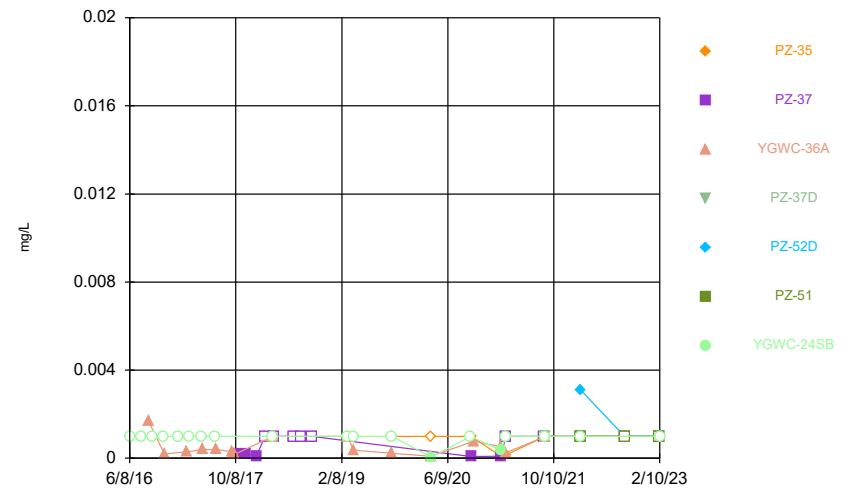
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Time Series



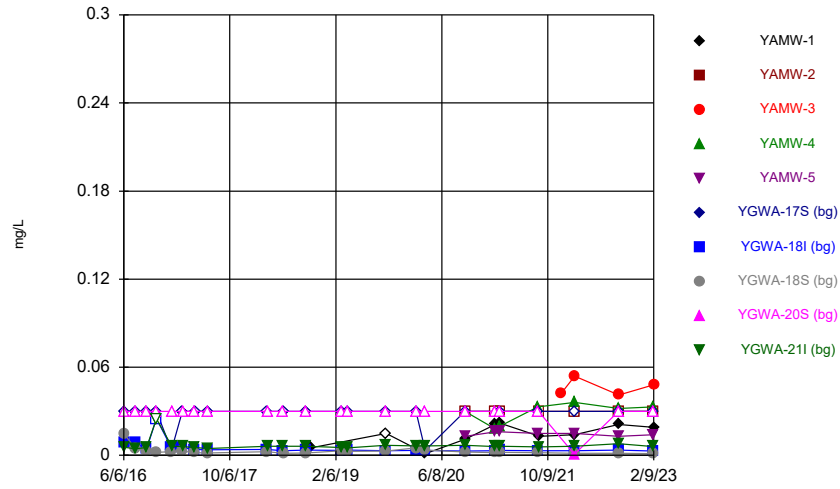
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Time Series



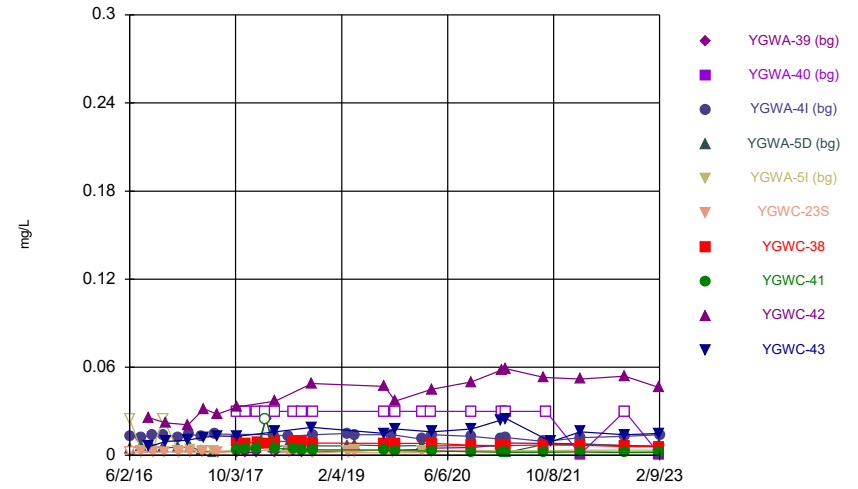
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Time Series



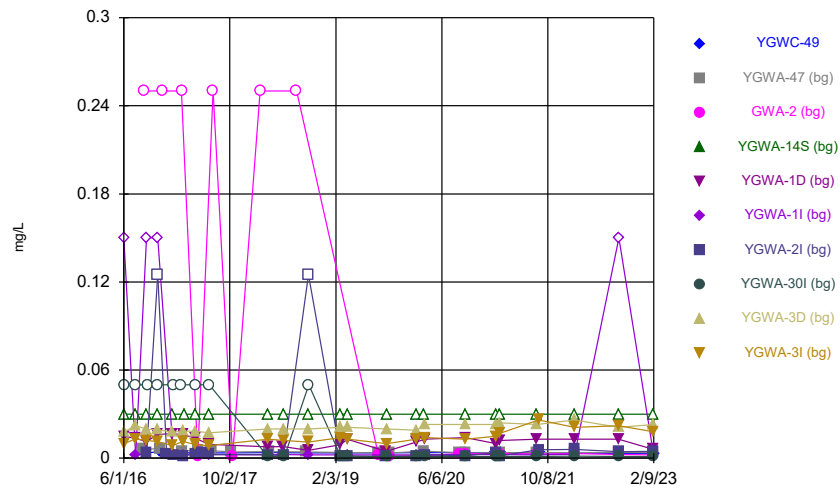
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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



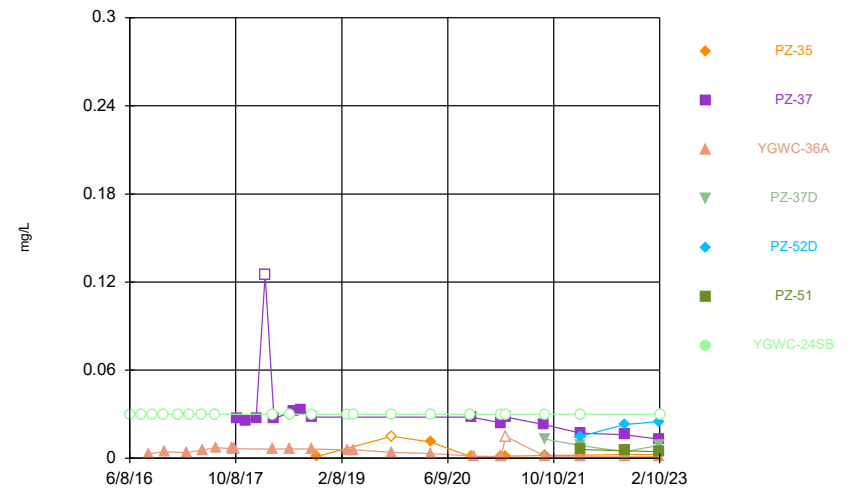
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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



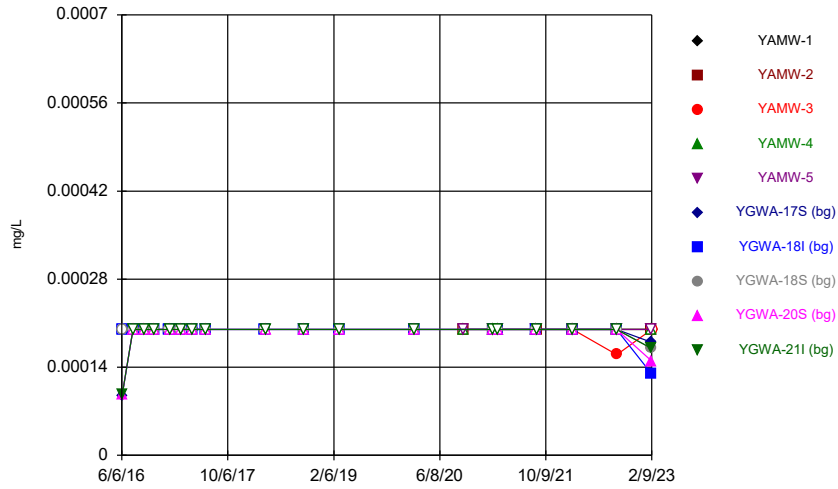
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Time Series



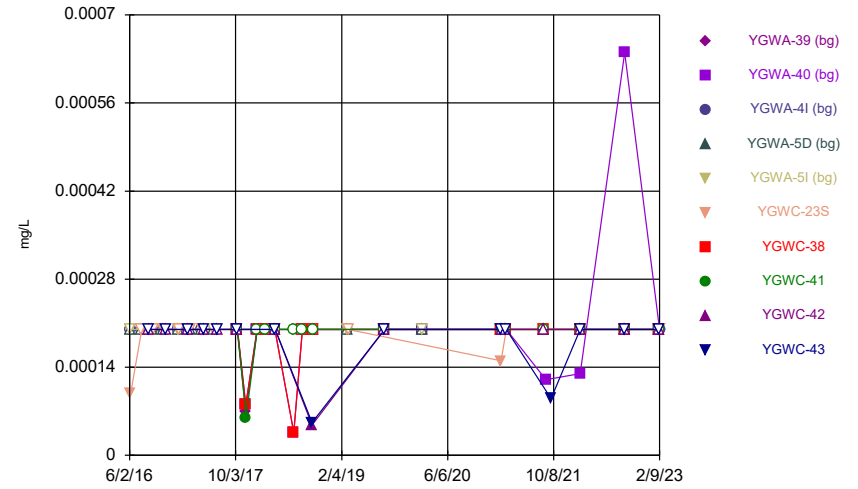
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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



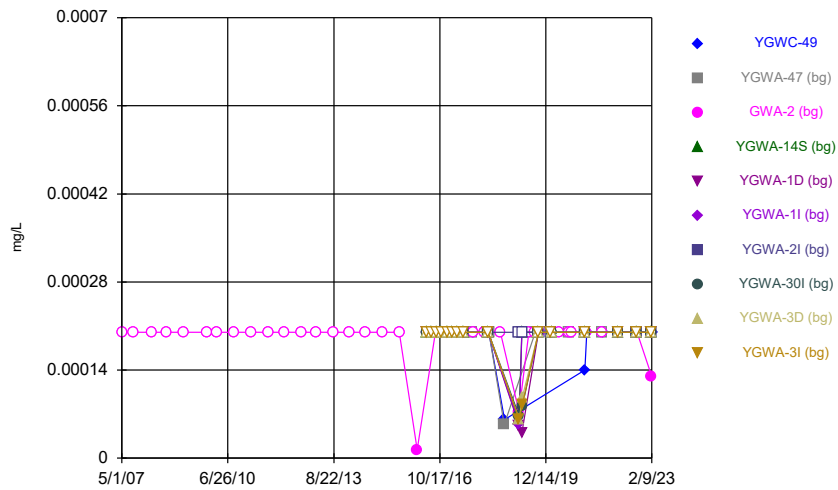
Constituent: Mercury Analysis Run 4/26/2023 11:04 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



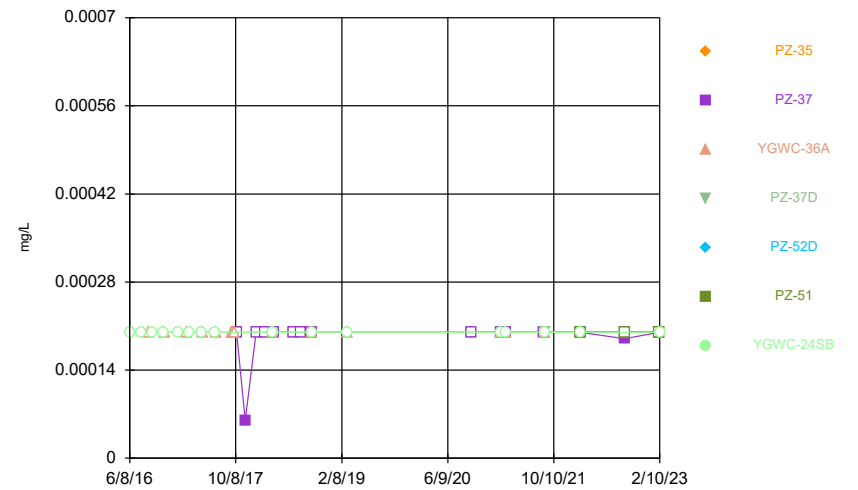
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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



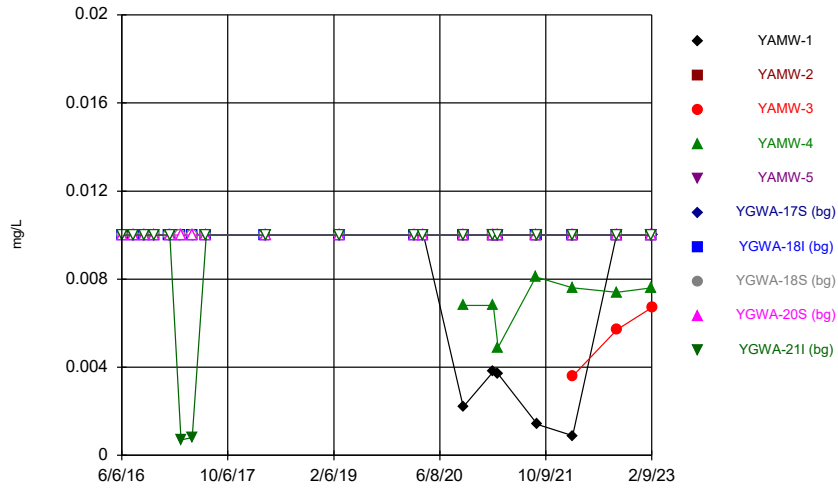
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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



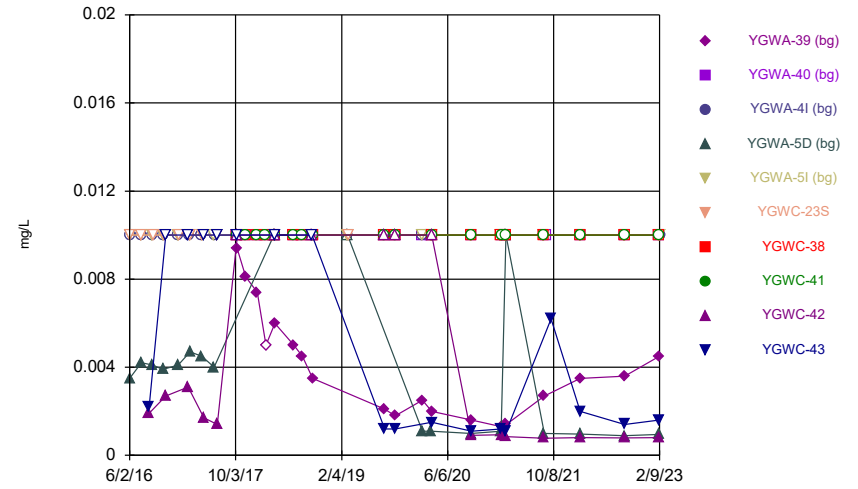
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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



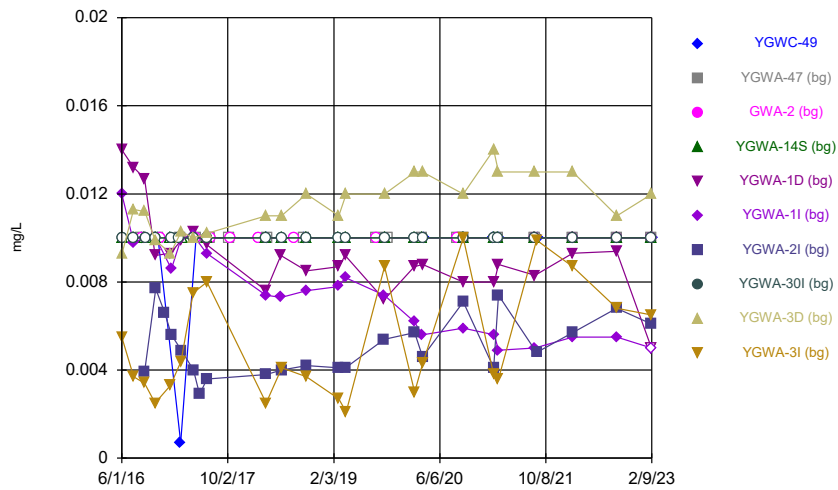
Constituent: Molybdenum Analysis Run 4/26/2023 11:04 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



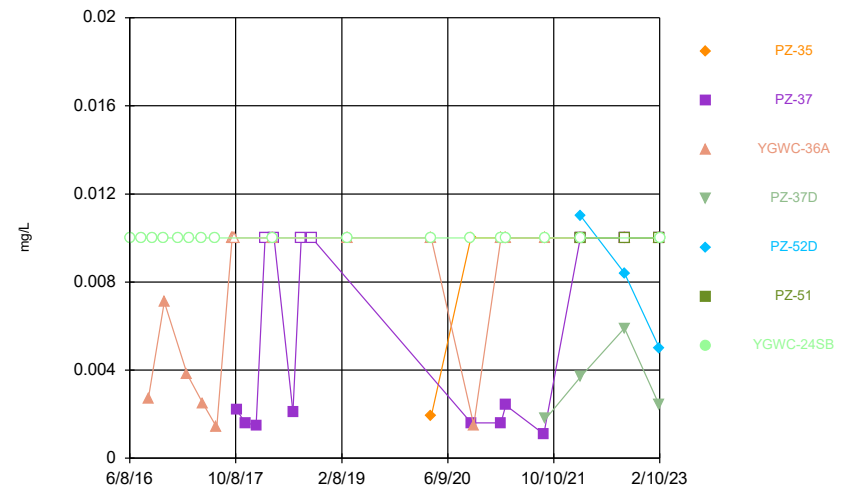
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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



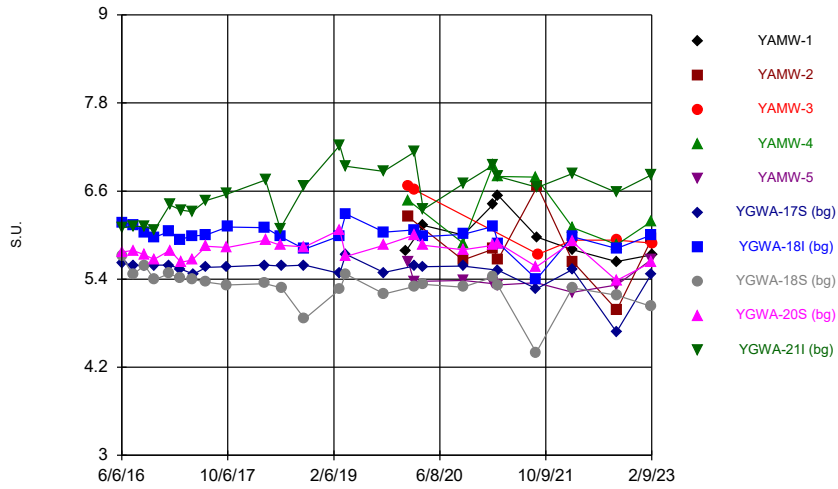
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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



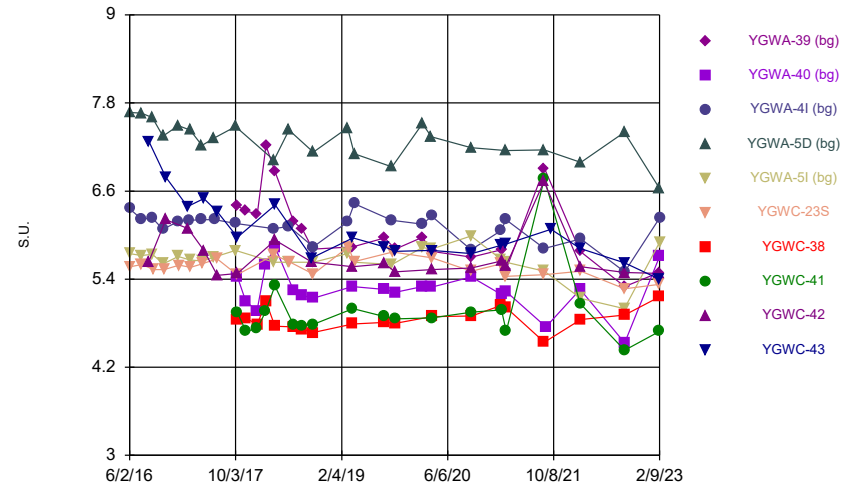
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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



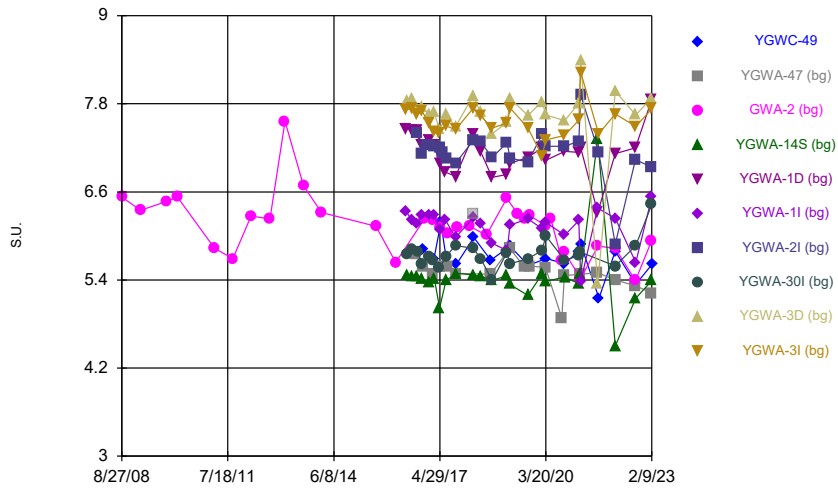
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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



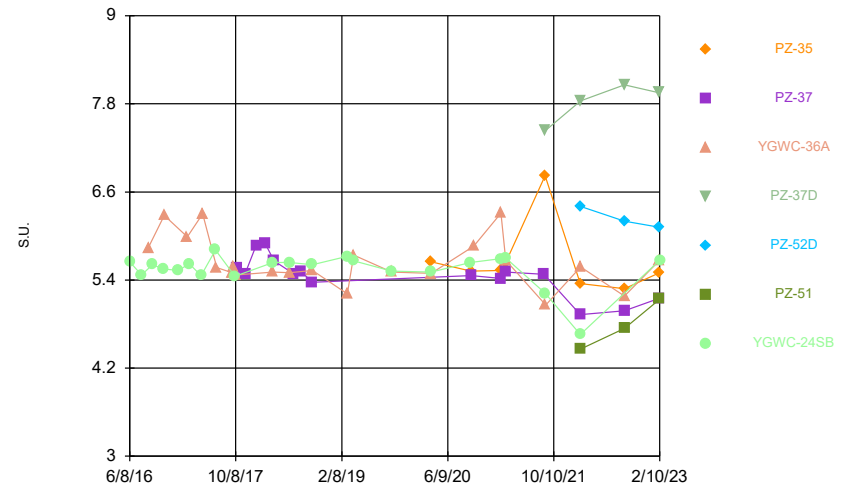
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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



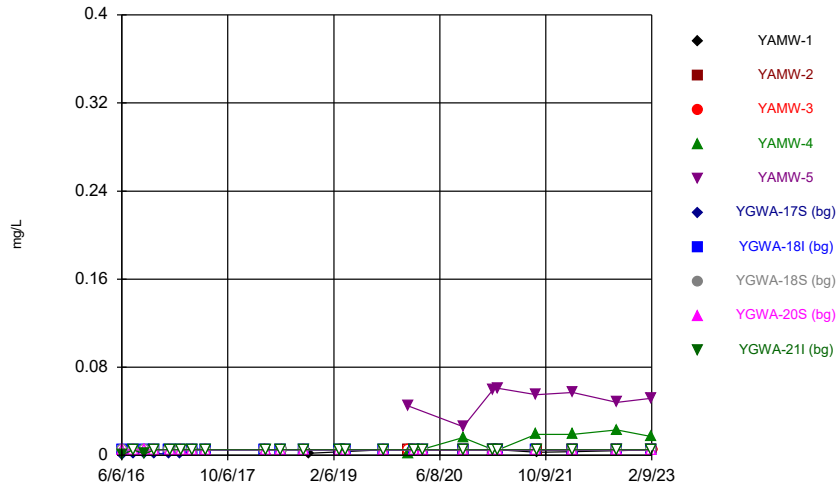
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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



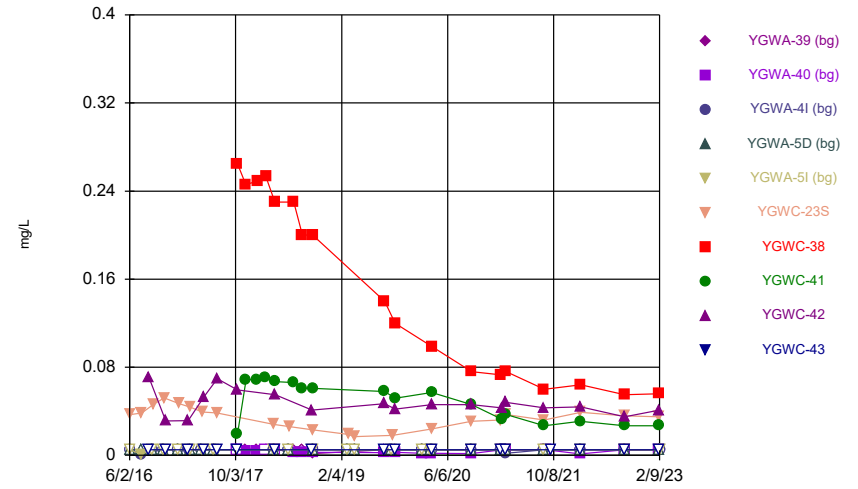
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Time Series



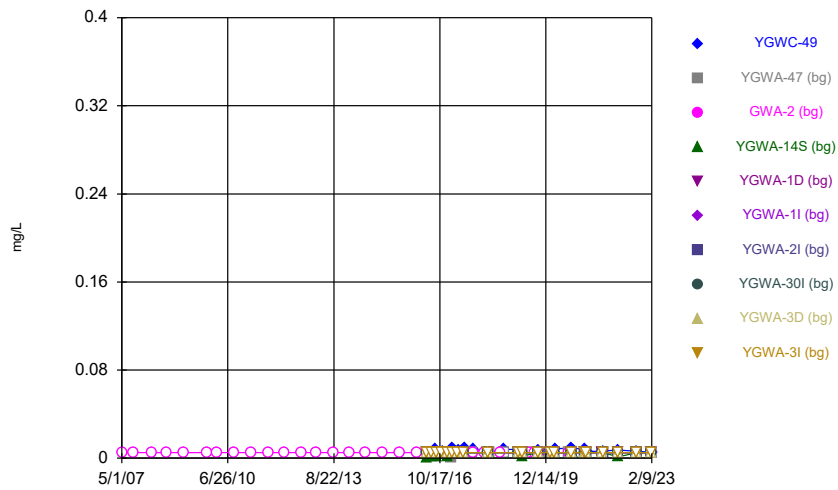
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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



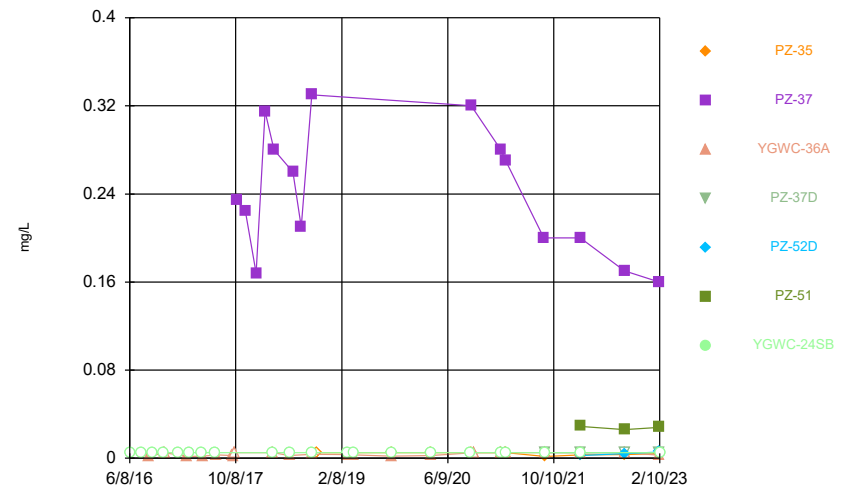
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Time Series



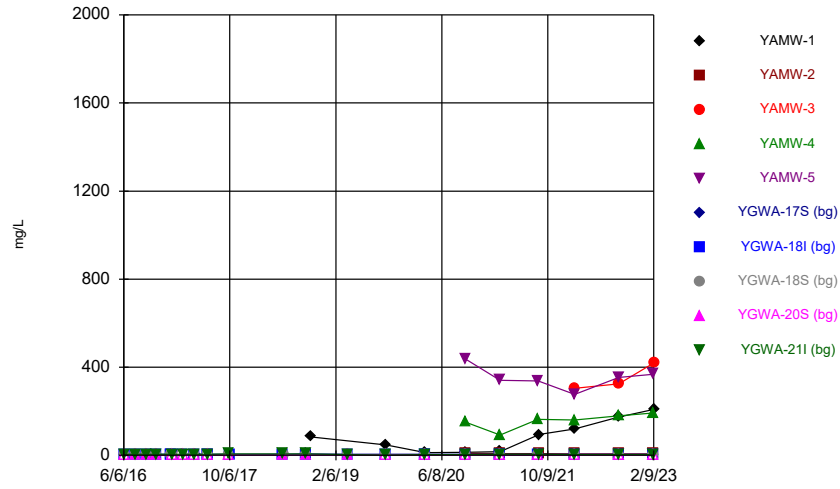
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Time Series



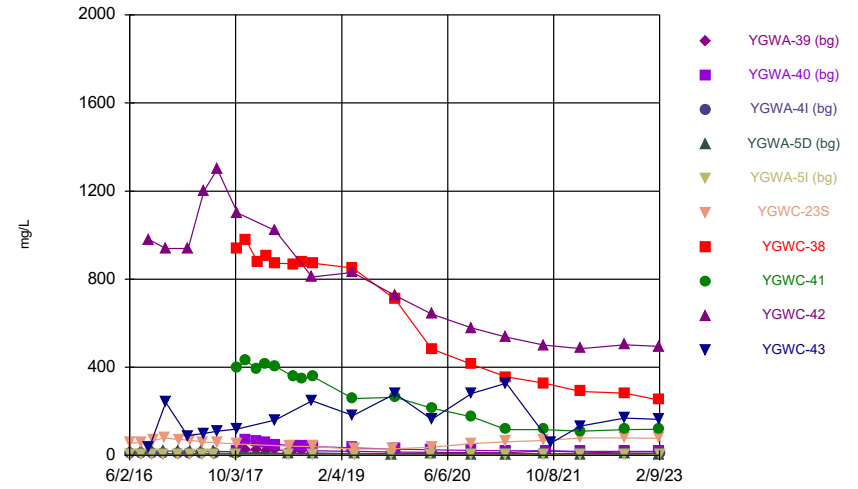
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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



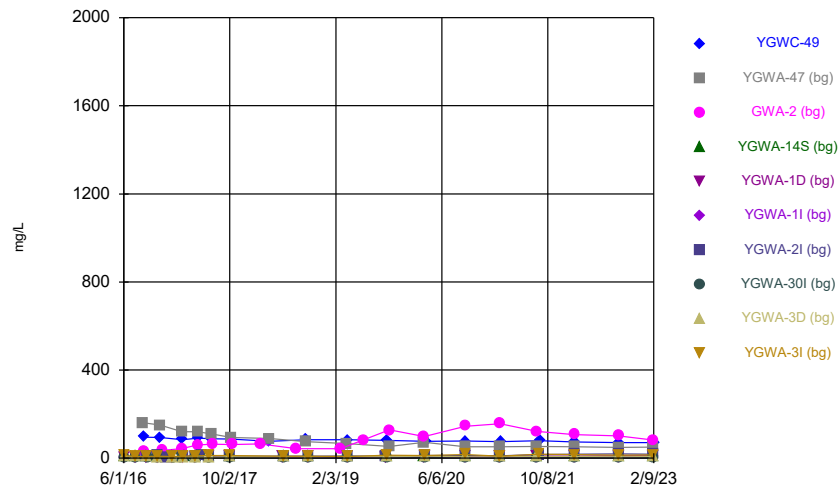
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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



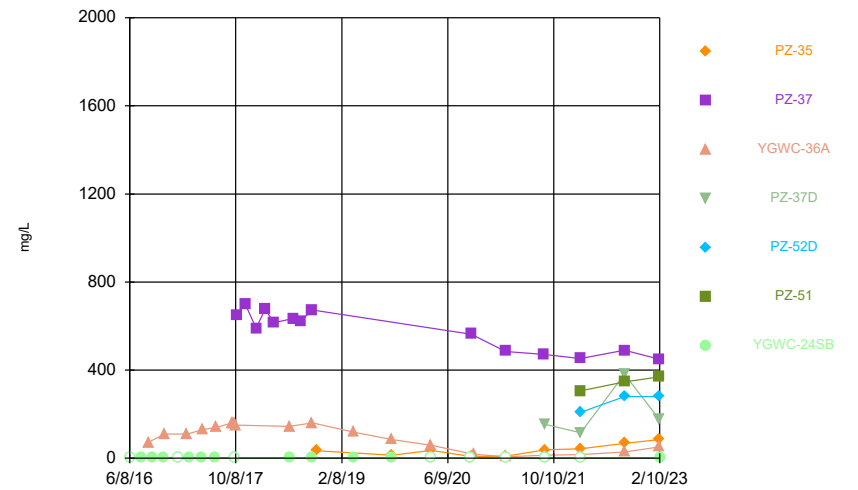
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Time Series



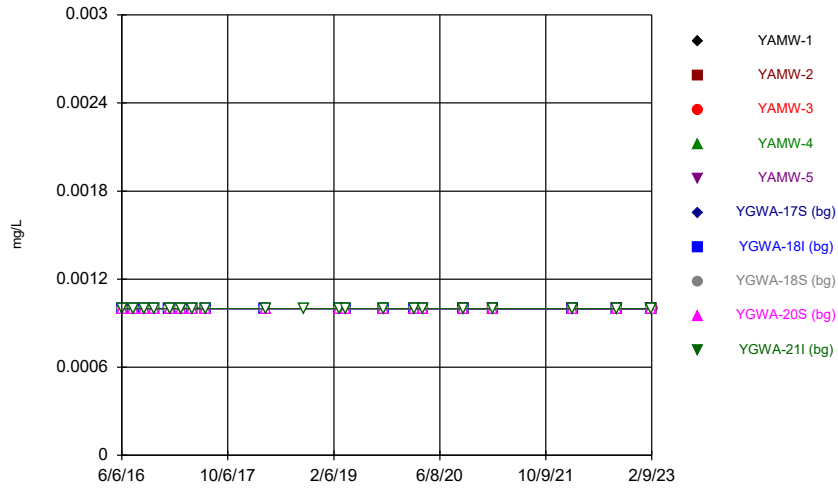
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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



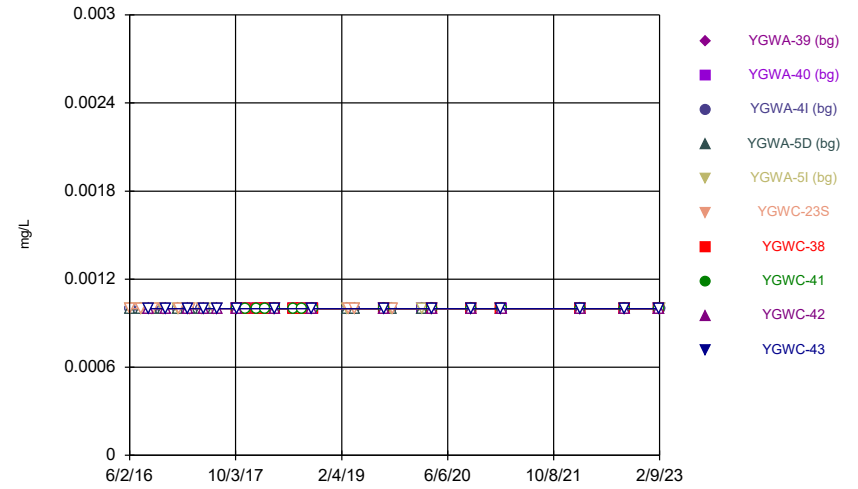
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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



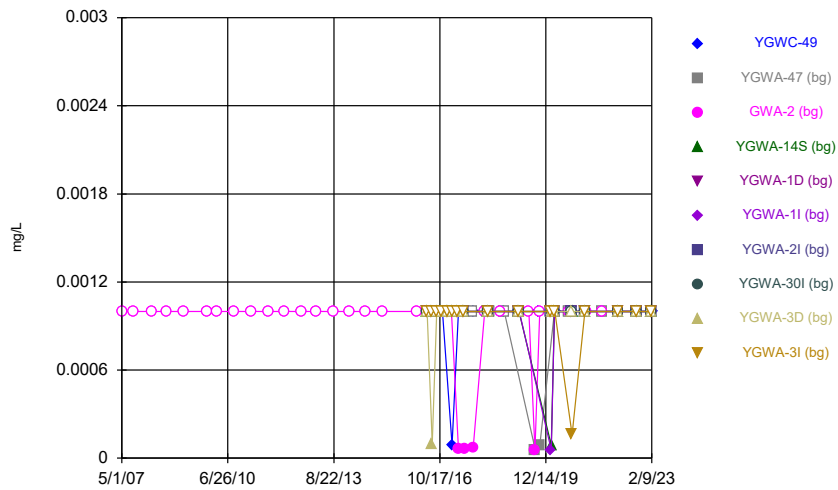
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Time Series



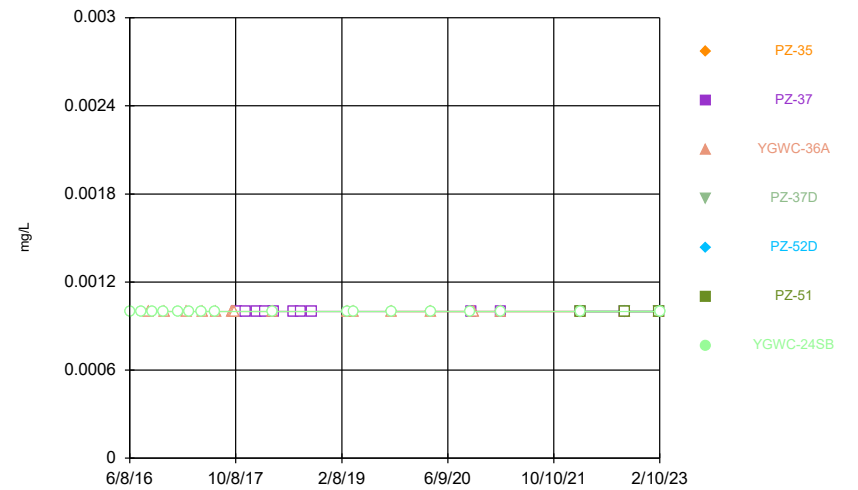
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Time Series



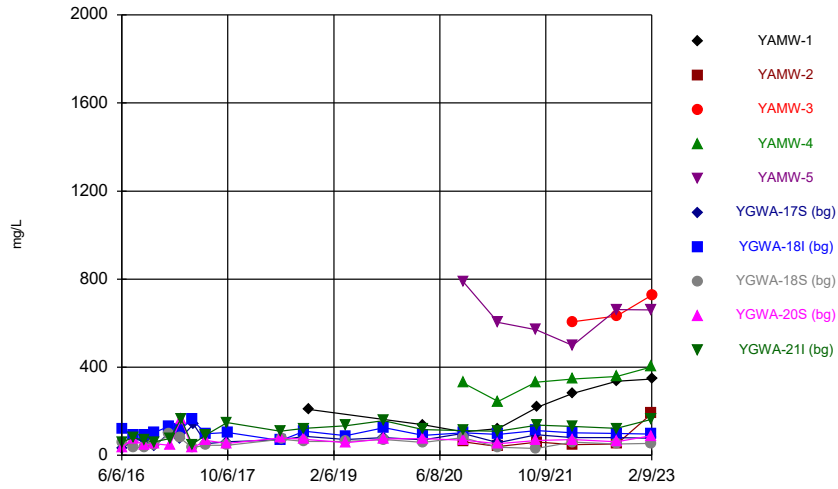
Constituent: Thallium Analysis Run 4/26/2023 11:05 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



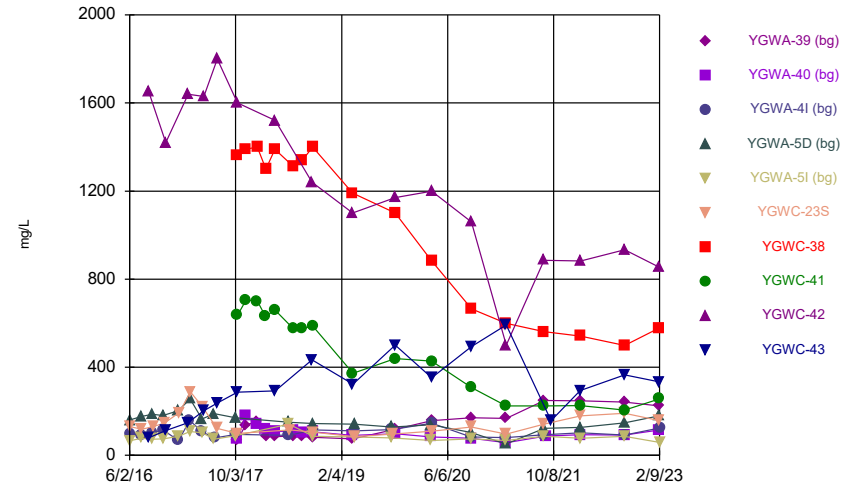
Constituent: Thallium Analysis Run 4/26/2023 11:05 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



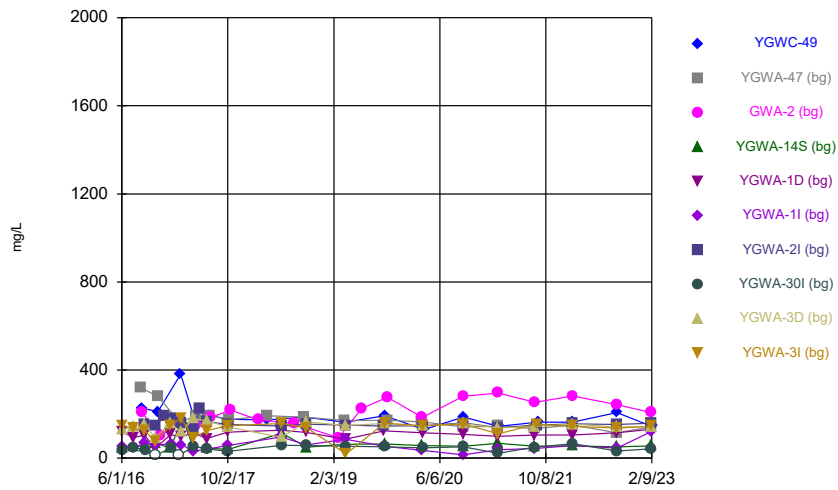
Constituent: Total Dissolved Solids Analysis Run 4/26/2023 11:05 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



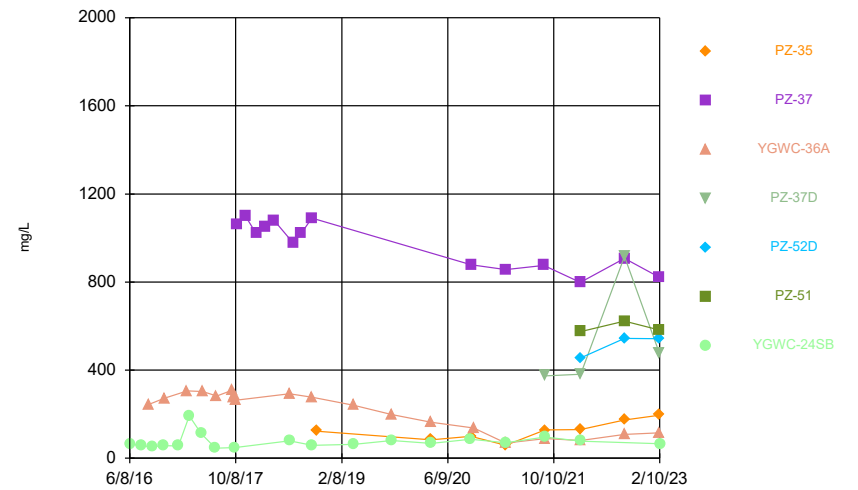
Constituent: Total Dissolved Solids Analysis Run 4/26/2023 11:05 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



Constituent: Total Dissolved Solids Analysis Run 4/26/2023 11:05 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



Constituent: Total Dissolved Solids Analysis Run 4/26/2023 11:05 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/26/2023 11:07 AM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/6/2016							<0.003	<0.003	
6/7/2016						<0.003			<0.003
7/27/2016						<0.003	0.0005 (J)	<0.003	<0.003
7/28/2016									
9/16/2016						<0.003		<0.003	
9/19/2016							<0.003		<0.003
11/2/2016									<0.003
11/3/2016						<0.003	<0.003	<0.003	
1/11/2017						<0.003	<0.003	<0.003	
1/13/2017									<0.003
3/1/2017							<0.003	<0.003	
3/2/2017						<0.003			
3/6/2017									<0.003
4/26/2017							<0.003	<0.003	<0.003
5/2/2017						<0.003			
6/28/2017							<0.003	<0.003	
6/29/2017						<0.003			<0.003
3/28/2018						<0.003	<0.003	<0.003	
3/29/2018									<0.003
3/5/2019						<0.003		<0.003	<0.003
3/6/2019							<0.003		
4/2/2019						<0.003			
4/3/2019							<0.003	<0.003	<0.003
9/24/2019									
9/25/2019						<0.003			<0.003
9/26/2019	<0.003						0.00056 (J)	<0.003	
2/11/2020						<0.003	<0.003	<0.003	
2/12/2020									<0.003
3/24/2020						<0.003	<0.003	<0.003	<0.003
3/25/2020	<0.003								
9/23/2020		<0.003		0.00065 (J)		<0.003	<0.003	<0.003	
9/24/2020	<0.003				0.00033 (J)				<0.003
2/9/2021	0.00037 (J)	<0.003		0.0011 (J)	<0.003		<0.003	<0.003	0.00032 (J)
3/3/2021	0.025	<0.003		0.00062 (J)		<0.003	<0.003	0.00067 (J)	<0.003
3/4/2021					<0.003				
8/25/2021				<0.003					
8/26/2021					<0.003			<0.003	
8/27/2021						<0.003	<0.003		<0.003
9/1/2021	0.0024 (J)	<0.003							
2/9/2022						<0.003	<0.003	<0.003	<0.003
2/10/2022	<0.003	<0.003	<0.003	<0.003	<0.003				
8/30/2022						<0.003	<0.003	<0.003	
8/31/2022	0.0016 (J)								<0.003
9/1/2022		<0.003	<0.003	<0.003	<0.003				
2/7/2023						0.0013 (J)	<0.003	<0.003	<0.003
2/8/2023		<0.003		<0.003	<0.003				
2/9/2023	<0.003		<0.003						

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/26/2023 11:07 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-211 (bg)
6/6/2016	
6/7/2016	<0.003
7/27/2016	
7/28/2016	<0.003
9/16/2016	
9/19/2016	0.001 (J)
11/2/2016	
11/3/2016	<0.003
1/11/2017	
1/13/2017	<0.003
3/1/2017	
3/2/2017	
3/6/2017	0.0005 (J)
4/26/2017	<0.003
5/2/2017	
6/28/2017	
6/29/2017	<0.003
3/28/2018	
3/29/2018	<0.003
3/5/2019	0.0011 (J)
3/6/2019	
4/2/2019	0.0011 (J)
4/3/2019	
9/24/2019	0.0035
9/25/2019	
9/26/2019	
2/11/2020	
2/12/2020	0.0015 (J)
3/24/2020	0.0017 (J)
3/25/2020	
9/23/2020	
9/24/2020	0.0047
2/9/2021	0.0013 (J)
3/3/2021	
3/4/2021	0.0014 (J)
8/25/2021	
8/26/2021	
8/27/2021	
9/1/2021	<0.003
2/9/2022	<0.003
2/10/2022	
8/30/2022	0.0046
8/31/2022	
9/1/2022	
2/7/2023	<0.003
2/8/2023	
2/9/2023	

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/26/2023 11:07 AM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-41 (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/2/2016			<0.003	<0.003	<0.003				
6/7/2016						<0.003			
7/26/2016			0.0003 (J)	<0.003	<0.003				
7/28/2016						<0.003			
8/30/2016									<0.003
8/31/2016									
9/14/2016			<0.003	<0.003	<0.003				
9/20/2016						<0.003			
11/2/2016			<0.003	<0.003					
11/4/2016					<0.003				
11/8/2016						<0.003			
11/16/2016									<0.003
1/12/2017				<0.003	<0.003				
1/13/2017			<0.003						
1/16/2017						<0.003			
2/24/2017									
2/27/2017									<0.003
3/6/2017			<0.003						
3/7/2017				<0.003	<0.003				
3/9/2017						<0.003			
5/1/2017			<0.003	<0.003					
5/2/2017					<0.003	<0.003			
5/10/2017									<0.003
6/27/2017				<0.003	<0.003				
6/29/2017			<0.003						
7/10/2017						<0.003			
7/11/2017									<0.003
10/11/2017	0.0006 (J)								
10/12/2017		<0.003					<0.003	<0.003	<0.003
11/20/2017	<0.003	<0.003					<0.003		
11/21/2017								<0.003	
1/10/2018		<0.003							
1/11/2018	<0.003							<0.003	
1/12/2018							<0.003		
2/19/2018		<0.003						<0.003	
2/20/2018	<0.003						<0.003		
3/29/2018			<0.003	<0.003	<0.003				
3/30/2018						<0.003			
4/3/2018	<0.003	<0.003					<0.003	<0.003	
4/4/2018									<0.003
6/27/2018								<0.003	
6/28/2018	<0.003	<0.003					<0.003		
8/7/2018	<0.003	<0.003					0.0015 (J)	<0.003	
9/20/2018									<0.003
9/24/2018	<0.003	<0.003					<0.003	<0.003	
3/4/2019			<0.003	<0.003	<0.003				
3/6/2019						<0.003			
4/3/2019			<0.003	<0.003	<0.003				
4/4/2019						<0.003			
8/21/2019	<0.003	<0.003							
8/22/2019							<0.003	<0.003	<0.003
9/24/2019				<0.003	<0.003				

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/26/2023 11:07 AM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-41 (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
9/25/2019			<0.003						
9/27/2019						0.00029 (J)			
2/12/2020	<0.003	<0.003	<0.003	<0.003	<0.003				
3/24/2020		<0.003		<0.003	<0.003				
3/25/2020	0.0014 (J)		<0.003				0.00063 (J)	<0.003	<0.003
3/26/2020						<0.003			
9/22/2020			<0.003	<0.003	<0.003				
9/24/2020	<0.003	<0.003				0.00085 (J)			<0.003
9/25/2020							0.00061 (J)	<0.003	
2/8/2021				<0.003	<0.003				
2/9/2021			<0.003			0.00052 (J)	0.00031 (J)		
2/10/2021	<0.003	<0.003						0.0014 (J)	0.00053 (J)
3/2/2021				<0.003	<0.003				
3/3/2021			<0.003						
3/4/2021	<0.003	<0.003				<0.003	<0.003	<0.003	<0.003
8/25/2021						<0.003			<0.003
8/26/2021	<0.003		<0.003	<0.003	<0.003		<0.003	<0.003	
9/3/2021		<0.003							
9/27/2021									
2/8/2022	<0.003	<0.003						<0.003	
2/10/2022				<0.003	<0.003	<0.003	<0.003		<0.003
2/11/2022			<0.003						
8/30/2022				<0.003	<0.003				
8/31/2022	<0.003	<0.003	<0.003						
9/1/2022						<0.003	<0.003	<0.003	<0.003
2/7/2023	<0.003			<0.003					
2/8/2023		<0.003				<0.003	<0.003	<0.003	<0.003
2/9/2023			<0.003		<0.003				

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/26/2023 11:07 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

YGWC-43

6/2/2016	
6/7/2016	
7/26/2016	
7/28/2016	
8/30/2016	
8/31/2016	<0.003
9/14/2016	
9/20/2016	
11/2/2016	
11/4/2016	
11/8/2016	
11/16/2016	<0.003
1/12/2017	
1/13/2017	
1/16/2017	
2/24/2017	<0.003
2/27/2017	
3/6/2017	
3/7/2017	
3/9/2017	
5/1/2017	
5/2/2017	
5/10/2017	<0.003
6/27/2017	
6/29/2017	
7/10/2017	
7/11/2017	<0.003
10/11/2017	
10/12/2017	<0.003
11/20/2017	
11/21/2017	
1/10/2018	
1/11/2018	
1/12/2018	
2/19/2018	
2/20/2018	
3/29/2018	
3/30/2018	
4/3/2018	
4/4/2018	<0.003
6/27/2018	
6/28/2018	
8/7/2018	
9/20/2018	<0.003
9/24/2018	
3/4/2019	
3/6/2019	
4/3/2019	
4/4/2019	
8/21/2019	<0.003
8/22/2019	
9/24/2019	

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/26/2023 11:07 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

YGWC-43	
9/25/2019	
9/27/2019	
2/12/2020	
3/24/2020	
3/25/2020	0.00031 (J)
3/26/2020	
9/22/2020	
9/24/2020	
9/25/2020	<0.003
2/8/2021	
2/9/2021	<0.003
2/10/2021	
3/2/2021	
3/3/2021	
3/4/2021	<0.003
8/25/2021	
8/26/2021	
9/3/2021	
9/27/2021	<0.003
2/8/2022	<0.003
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	
9/1/2022	<0.003
2/7/2023	
2/8/2023	<0.003
2/9/2023	

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/26/2023 11:07 AM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
5/1/2007			<0.003						
9/11/2007			<0.003						
3/20/2008			<0.003						
8/27/2008			<0.003						
3/3/2009			<0.003						
11/18/2009			<0.003						
3/3/2010			<0.003						
9/8/2010			<0.003						
3/10/2011			<0.003						
9/8/2011			<0.003						
3/5/2012			<0.003						
9/10/2012			<0.003						
2/6/2013			<0.003						
8/12/2013			<0.003						
2/5/2014			<0.003						
8/5/2014			<0.003						
2/4/2015			<0.003						
8/3/2015			<0.003						
2/16/2016			<0.003						
6/1/2016					<0.003	<0.003			
6/2/2016				<0.003				<0.003	<0.003
7/25/2016						<0.003		<0.003	
7/26/2016				0.0005 (J)	0.001 (J)				0.002 (J)
8/30/2016		0.0028 (J)							
8/31/2016			<0.003						
9/1/2016	<0.003								
9/13/2016					0.001 (J)	<0.003			
9/14/2016							<0.003		
9/15/2016				<0.003					0.0027 (J)
9/19/2016								<0.003	
11/1/2016					0.0015 (J)			<0.003	<0.003
11/2/2016				<0.003					
11/4/2016						<0.003	<0.003		
11/14/2016		<0.003							
11/15/2016	<0.003								
11/28/2016			0.0014 (J)						
12/15/2016							0.0012 (J)		
1/10/2017				<0.003					
1/11/2017					<0.003				<0.003
1/16/2017						<0.003	<0.003	<0.003	
2/21/2017								<0.003	
2/22/2017			<0.003						
2/24/2017		<0.003							
2/27/2017	0.0011 (J)								
3/1/2017									
3/2/2017					0.0004 (J)	<0.003			0.0008 (J)
3/3/2017							<0.003		
3/8/2017				<0.003					
4/26/2017				<0.003				<0.003	<0.003
4/27/2017					0.0004 (J)	0.0017 (J)			
4/28/2017							0.0015 (J)		
5/8/2017		0.0004 (J)	<0.003						

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/26/2023 11:07 AM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
5/9/2017	<0.003								
5/26/2017							0.0005 (J)		
6/27/2017					<0.003	<0.003			
6/28/2017							<0.003		<0.003
6/30/2017				<0.003				<0.003	
7/11/2017		0.0006 (J)							
7/13/2017	<0.003								
7/17/2017			<0.003						
10/10/2017		<0.003							
10/11/2017	<0.003								
10/16/2017			<0.003						
2/19/2018			<0.003						
3/27/2018				<0.003		<0.003		<0.003	
3/28/2018							<0.003		<0.003
3/29/2018					<0.003				
4/2/2018		<0.003							
4/4/2018	<0.003								
8/6/2018			<0.003						
9/19/2018		<0.003							
9/20/2018	<0.003								
2/25/2019			<0.003						
2/26/2019				<0.003				<0.003	
2/27/2019					<0.003	<0.003	<0.003		<0.003
6/12/2019			<0.003						
8/19/2019			<0.003						
8/20/2019		<0.003							
9/26/2019	<0.003								
10/8/2019			<0.003						
2/10/2020					0.00088 (J)	<0.003			
2/11/2020							0.00036 (J)		
2/12/2020				<0.003				<0.003	<0.003
3/17/2020			<0.003						
3/18/2020				<0.003		0.0004 (J)			
3/19/2020					<0.003		0.0003 (J)	<0.003	0.00064 (J)
3/25/2020	0.00053 (J)								
8/26/2020			0.00042 (J)						
8/27/2020		0.00048 (J)							
9/22/2020		<0.003	0.00044 (J)						
9/23/2020					<0.003	<0.003	<0.003		<0.003
9/24/2020	<0.003							<0.003	
9/25/2020				<0.003					
2/9/2021	<0.003								
2/10/2021				<0.003			0.0013 (J)		<0.003
2/11/2021								<0.003	
2/12/2021					<0.003	<0.003			
3/1/2021		0.00048 (J)						<0.003	
3/2/2021			<0.003	<0.003					
3/3/2021					<0.003	<0.003	<0.003		<0.003
3/4/2021	<0.003								
8/19/2021		<0.003		<0.003	<0.003	<0.003		<0.003	<0.003
8/20/2021			<0.003						
8/27/2021							<0.003		

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/26/2023 11:07 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
9/1/2021	<0.003								
2/8/2022	<0.003	<0.003	<0.003						
2/9/2022					<0.003	<0.003	<0.003		0.0018 (J)
2/10/2022				<0.003					
2/11/2022								<0.003	
8/30/2022			<0.003		<0.003		<0.003		
8/31/2022	<0.003	<0.003		<0.003		<0.003		<0.003	<0.003
2/7/2023			<0.003		<0.003	<0.003	<0.003		
2/8/2023		<0.003		<0.003				<0.003	<0.003
2/9/2023	<0.003								

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/26/2023 11:07 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

YGWA-3I (bg)

5/1/2007	
9/11/2007	
3/20/2008	
8/27/2008	
3/3/2009	
11/18/2009	
3/3/2010	
9/8/2010	
3/10/2011	
9/8/2011	
3/5/2012	
9/10/2012	
2/6/2013	
8/12/2013	
2/5/2014	
8/5/2014	
2/4/2015	
8/3/2015	
2/16/2016	
6/1/2016	<0.003
6/2/2016	
7/25/2016	<0.003
7/26/2016	
8/30/2016	
8/31/2016	
9/1/2016	
9/13/2016	
9/14/2016	<0.003
9/15/2016	
9/19/2016	
11/1/2016	<0.003
11/2/2016	
11/4/2016	
11/14/2016	
11/15/2016	
11/28/2016	
12/15/2016	
1/10/2017	
1/11/2017	<0.003
1/16/2017	
2/21/2017	
2/22/2017	
2/24/2017	
2/27/2017	
3/1/2017	<0.003
3/2/2017	
3/3/2017	
3/8/2017	
4/26/2017	<0.003
4/27/2017	
4/28/2017	
5/8/2017	

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/26/2023 11:07 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

YGWA-3I (bg)

5/9/2017	
5/26/2017	
6/27/2017	
6/28/2017	<0.003
6/30/2017	
7/11/2017	
7/13/2017	
7/17/2017	
10/10/2017	
10/11/2017	
10/16/2017	
2/19/2018	
3/27/2018	
3/28/2018	<0.003
3/29/2018	
4/2/2018	
4/4/2018	
8/6/2018	
9/19/2018	
9/20/2018	
2/25/2019	
2/26/2019	
2/27/2019	<0.003
6/12/2019	
8/19/2019	
8/20/2019	
9/26/2019	
10/8/2019	
2/10/2020	
2/11/2020	<0.003
2/12/2020	
3/17/2020	
3/18/2020	
3/19/2020	<0.003
3/25/2020	
8/26/2020	
8/27/2020	
9/22/2020	
9/23/2020	<0.003
9/24/2020	
9/25/2020	
2/9/2021	
2/10/2021	<0.003
2/11/2021	
2/12/2021	
3/1/2021	
3/2/2021	
3/3/2021	<0.003
3/4/2021	
8/19/2021	
8/20/2021	
8/27/2021	<0.003

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/26/2023 11:07 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
9/1/2021	
2/8/2022	
2/9/2022	<0.003
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	<0.003
2/7/2023	
2/8/2023	<0.003
2/9/2023	

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/26/2023 11:07 AM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB
6/8/2016							<0.003
8/1/2016							<0.003
9/2/2016			<0.003				
9/20/2016							0.0009 (J)
11/8/2016							<0.003
11/14/2016			0.0014 (J)				
1/17/2017							<0.003
2/28/2017			0.0004 (J)				
3/8/2017							<0.003
5/2/2017							<0.003
5/9/2017			<0.003				
7/7/2017							<0.003
7/13/2017			<0.003				
9/22/2017			<0.003				
9/29/2017			<0.003				
10/6/2017			<0.003				
10/12/2017		<0.003					
11/21/2017		<0.003					
1/11/2018		<0.003					
2/20/2018		<0.003					
3/30/2018			<0.003				<0.003
4/3/2018		<0.003					
6/29/2018		<0.003					
8/6/2018		<0.003					
9/24/2018		<0.003					
3/5/2019							<0.003
3/6/2019			0.0011 (J)				
4/4/2019			0.0041				<0.003
9/26/2019	<0.003		0.0065				<0.003
3/25/2020	<0.003		0.0011 (J)				
3/26/2020							<0.003
9/23/2020							<0.003
9/24/2020	<0.003						
9/25/2020		0.0014 (J)					
10/7/2020			<0.003				
2/9/2021		0.00035 (J)					<0.003
2/10/2021	<0.003		0.028				
3/3/2021							<0.003
3/4/2021	0.00039 (J)	<0.003	0.0015 (J)				
8/25/2021		<0.003					
9/1/2021	<0.003						<0.003
9/3/2021			0.0016 (J)	<0.003			
2/10/2022	<0.003	<0.003				<0.003	<0.003
2/11/2022			0.0023 (J)	<0.003	<0.003		
8/31/2022	<0.003						
9/1/2022		0.00091 (J)	<0.003	<0.003	<0.003	<0.003	
2/8/2023		<0.003		0.0015 (J)	<0.003		
2/9/2023	<0.003		<0.003			<0.003	
2/10/2023							<0.003

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/6/2016							<0.005	<0.005	
6/7/2016						<0.005			<0.005
7/27/2016						<0.005	<0.005	<0.005	<0.005
7/28/2016									
9/16/2016						<0.005		<0.005	
9/19/2016							<0.005		<0.005
11/2/2016									<0.005
11/3/2016						<0.005	<0.005	<0.005	
1/11/2017						<0.005	<0.005	<0.005	
1/13/2017									<0.005
3/1/2017							<0.005	<0.005	
3/2/2017						<0.005			
3/6/2017									<0.005
4/26/2017							<0.005	<0.005	<0.005
5/2/2017						<0.005			
6/28/2017							<0.005	<0.005	
6/29/2017						<0.005			<0.005
3/28/2018						<0.005	<0.005	0.00061 (J)	
3/29/2018									<0.005
6/5/2018									
6/6/2018									<0.005
6/7/2018							0.00066 (J)		
6/11/2018						<0.005		<0.005	
9/25/2018						<0.005	<0.005	<0.005	<0.005
10/16/2018	<0.005								
3/5/2019						<0.005		<0.005	<0.005
3/6/2019							<0.005		
4/2/2019						<0.005			
4/3/2019							<0.005	<0.005	<0.005
9/24/2019									
9/25/2019						<0.005			<0.005
9/26/2019	<0.005						<0.005	<0.005	
2/11/2020						0.0022 (J)	0.0014 (J)	0.0026 (J)	
2/12/2020									<0.005
3/24/2020						<0.005	<0.005	<0.005	<0.005
3/25/2020	<0.005								
9/23/2020		<0.005		<0.005		<0.005	<0.005	<0.005	
9/24/2020	<0.005				0.0015 (J)				<0.005
2/9/2021	<0.005	<0.005		0.001 (J)	0.00095 (J)		<0.005	<0.005	<0.005
3/3/2021	<0.005	<0.005		0.00079 (J)		<0.005	<0.005	<0.005	<0.005
3/4/2021					<0.005				
8/25/2021				<0.005					
8/26/2021					<0.005			<0.005	
8/27/2021						<0.005	<0.005		<0.005
9/1/2021	<0.005	<0.005							
2/9/2022						0.0024 (J)	0.0022 (J)	0.0024 (J)	0.0021 (J)
2/10/2022	0.0023 (J)	<0.005	0.0038 (J)	0.0026 (J)	0.0024 (J)				
8/30/2022						<0.005	<0.005	<0.005	
8/31/2022	<0.005								<0.005
9/1/2022		<0.005	<0.005	<0.005	<0.005				
2/7/2023						<0.005	<0.005	<0.005	<0.005
2/8/2023		<0.005		0.0037 (J)	0.0038 (J)				

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/26/2023 11:07 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
2/9/2023	0.0034 (J)		<0.005						

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/26/2023 11:07 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-211 (bg)
6/6/2016	
6/7/2016	<0.005
7/27/2016	
7/28/2016	<0.005
9/16/2016	
9/19/2016	<0.005
11/2/2016	
11/3/2016	<0.005
1/11/2017	
1/13/2017	<0.005
3/1/2017	
3/2/2017	
3/6/2017	0.0017 (J)
4/26/2017	<0.005
5/2/2017	
6/28/2017	
6/29/2017	<0.005
3/28/2018	
3/29/2018	0.0015 (J)
6/5/2018	0.0013 (J)
6/6/2018	
6/7/2018	
6/11/2018	
9/25/2018	0.0022 (J)
10/16/2018	
3/5/2019	0.0013 (J)
3/6/2019	
4/2/2019	0.00096 (J)
4/3/2019	
9/24/2019	0.0026 (J)
9/25/2019	
9/26/2019	
2/11/2020	
2/12/2020	0.0025 (J)
3/24/2020	0.0013 (J)
3/25/2020	
9/23/2020	
9/24/2020	0.0014 (J)
2/9/2021	0.001 (J)
3/3/2021	
3/4/2021	0.00078 (J)
8/25/2021	
8/26/2021	
8/27/2021	
9/1/2021	<0.005
2/9/2022	0.0036 (J)
2/10/2022	
8/30/2022	0.0022 (J)
8/31/2022	
9/1/2022	
2/7/2023	0.0028 (J)
2/8/2023	

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/26/2023 11:07 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

YGWA-211 (bg)

2/9/2023

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-41 (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/2/2016			<0.005	0.00071 (J)	<0.005				
6/7/2016						<0.005			
7/26/2016			<0.005	0.001 (J)	<0.005				
7/28/2016						<0.005			
8/30/2016									0.0023 (J)
8/31/2016									
9/14/2016			<0.005	<0.005	<0.005				
9/20/2016						<0.005			
11/2/2016			<0.005	<0.005					
11/4/2016					<0.005				
11/8/2016						<0.005			
11/16/2016									0.0017 (J)
1/12/2017				<0.005	<0.005				
1/13/2017			<0.005						
1/16/2017						<0.005			
2/24/2017									
2/27/2017									0.002 (J)
3/6/2017			<0.005						
3/7/2017				0.0012 (J)	<0.005				
3/9/2017						<0.005			
5/1/2017			<0.005	<0.005					
5/2/2017					<0.005	<0.005			
5/10/2017									0.0022 (J)
6/27/2017				0.0019 (J)	<0.005				
6/29/2017			<0.005						
7/10/2017						<0.005			
7/11/2017									0.003 (J)
10/11/2017	0.0009 (J)								
10/12/2017		<0.005					0.0023 (J)	0.0011 (J)	0.0031 (J)
11/20/2017	<0.005	<0.005					0.0008 (J)		
11/21/2017								<0.005	
1/10/2018		<0.005							
1/11/2018	<0.005							<0.005	
1/12/2018							0.001 (J)		
2/19/2018		<0.005						<0.005	
2/20/2018	<0.005						0.00096 (J)		
3/29/2018			<0.005	0.0006 (J)	<0.005				
3/30/2018						<0.005			
4/3/2018	<0.005	<0.005					0.0015 (J)	0.00072 (J)	
4/4/2018									0.0023 (J)
6/6/2018				0.0013 (J)					
6/7/2018			0.00059 (J)		<0.005				
6/12/2018						<0.005			
6/27/2018								0.00062 (J)	
6/28/2018	<0.005	<0.005					0.0017 (J)		
8/7/2018	<0.005	<0.005					0.00072 (J)	<0.005	
9/20/2018									0.0018 (J)
9/24/2018	<0.005	<0.005					0.0017 (J)	0.001 (J)	
9/26/2018			<0.005	0.0014 (J)	<0.005				
9/27/2018						<0.005			
3/4/2019			<0.005	<0.005	<0.005				
3/6/2019						<0.005			

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/26/2023 11:07 AM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-41 (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
4/3/2019			<0.005	<0.005	<0.005				
4/4/2019						<0.005			
8/21/2019	0.00058 (J)	<0.005							
8/22/2019							0.00055 (J)	0.00036 (J)	0.00089 (J)
9/24/2019				0.00043 (J)	<0.005				
9/25/2019			<0.005						
9/27/2019						<0.005			
10/9/2019	0.00063 (J)	<0.005					0.00057 (J)	0.00052 (J)	0.00078 (J)
2/12/2020	0.00058 (J)	0.0034 (J)	<0.005	0.0046 (J)	0.002 (J)				
3/24/2020		<0.005		0.00065 (J)	<0.005				
3/25/2020	0.0012 (J)		<0.005				0.00068 (J)	0.001 (J)	0.0013 (J)
3/26/2020						0.0012 (J)			
9/22/2020			<0.005	0.001 (J)	<0.005				
9/24/2020	<0.005	<0.005				<0.005			<0.005
9/25/2020							<0.005	<0.005	
2/8/2021				<0.005	<0.005				
2/9/2021			<0.005			<0.005	0.00098 (J)		
2/10/2021	<0.005	<0.005						<0.005	0.0016 (J)
3/2/2021				<0.005	<0.005				
3/3/2021			<0.005						
3/4/2021	<0.005	<0.005				<0.005	<0.005	<0.005	<0.005
8/25/2021						<0.005			0.0014 (J)
8/26/2021	<0.005		<0.005	0.0016 (J)	<0.005		0.0013 (J)	<0.005	
9/3/2021		<0.005							
9/27/2021									
2/8/2022	0.0034 (J)	0.003 (J)						0.0021 (J)	
2/10/2022				0.004 (J)	0.0016 (J)	0.0025 (J)	0.0017 (J)		0.0026 (J)
2/11/2022			0.0014 (J)						
8/30/2022				0.0031 (J)	<0.005				
8/31/2022	0.0029 (J)	<0.005	<0.005						
9/1/2022						<0.005	<0.005	<0.005	<0.005
2/7/2023	0.0029 (J)			0.003 (J)					
2/8/2023		<0.005				<0.005	<0.005	0.0027 (J)	0.0025 (J)
2/9/2023			<0.005		<0.005				

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/26/2023 11:07 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

YGWC-43

6/2/2016	
6/7/2016	
7/26/2016	
7/28/2016	
8/30/2016	
8/31/2016	<0.005
9/14/2016	
9/20/2016	
11/2/2016	
11/4/2016	
11/8/2016	
11/16/2016	<0.005
1/12/2017	
1/13/2017	
1/16/2017	
2/24/2017	<0.005
2/27/2017	
3/6/2017	
3/7/2017	
3/9/2017	
5/1/2017	
5/2/2017	
5/10/2017	<0.005
6/27/2017	
6/29/2017	
7/10/2017	
7/11/2017	<0.005
10/11/2017	
10/12/2017	<0.005
11/20/2017	
11/21/2017	
1/10/2018	
1/11/2018	
1/12/2018	
2/19/2018	
2/20/2018	
3/29/2018	
3/30/2018	
4/3/2018	
4/4/2018	<0.005
6/6/2018	
6/7/2018	
6/12/2018	
6/27/2018	
6/28/2018	
8/7/2018	
9/20/2018	0.00099 (J)
9/24/2018	
9/26/2018	
9/27/2018	
3/4/2019	
3/6/2019	

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/26/2023 11:07 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
4/3/2019	
4/4/2019	
8/21/2019	<0.005
8/22/2019	
9/24/2019	
9/25/2019	
9/27/2019	
10/9/2019	0.00051 (J)
2/12/2020	
3/24/2020	
3/25/2020	0.0007 (J)
3/26/2020	
9/22/2020	
9/24/2020	
9/25/2020	<0.005
2/8/2021	
2/9/2021	<0.005
2/10/2021	
3/2/2021	
3/3/2021	
3/4/2021	<0.005
8/25/2021	
8/26/2021	
9/3/2021	
9/27/2021	<0.005
2/8/2022	0.0022 (J)
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	
9/1/2022	<0.005
2/7/2023	
2/8/2023	0.0033 (J)
2/9/2023	

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
5/1/2007			<0.005						
9/11/2007			<0.005						
3/20/2008			<0.005						
8/27/2008			<0.005						
3/3/2009			<0.005						
11/18/2009			<0.005						
3/3/2010			<0.005						
9/8/2010			<0.005						
3/10/2011			<0.005						
9/8/2011			<0.005						
3/5/2012			<0.005						
9/10/2012			<0.005						
2/6/2013			<0.005						
8/12/2013			<0.005						
2/5/2014			<0.005						
8/5/2014			<0.005						
2/4/2015			<0.005						
8/3/2015			<0.005						
2/16/2016			<0.005						
6/1/2016					0.0021	<0.005			
6/2/2016				<0.005				<0.005	<0.005
7/25/2016						<0.005		<0.005	
7/26/2016				<0.005	0.0016 (J)				<0.005
8/30/2016		<0.005							
8/31/2016			<0.005						
9/1/2016	<0.005								
9/13/2016					<0.005	<0.005			
9/14/2016							<0.005		
9/15/2016				<0.005					<0.005
9/19/2016								<0.005	
11/1/2016					<0.005			<0.005	<0.005
11/2/2016				<0.005					
11/4/2016						<0.005	0.0017 (J)		
11/14/2016		<0.005							
11/15/2016	<0.005								
11/28/2016			<0.005						
12/15/2016							0.0023 (J)		
1/10/2017				<0.005					
1/11/2017					0.0017 (J)				<0.005
1/16/2017						<0.005	0.0018 (J)	<0.005	
2/21/2017								<0.005	
2/22/2017			<0.005						
2/24/2017		<0.005							
2/27/2017	<0.005								
3/1/2017									
3/2/2017					0.0014 (J)	<0.005			<0.005
3/3/2017							0.0016 (J)		
3/8/2017				<0.005					
4/26/2017				<0.005				<0.005	<0.005
4/27/2017					0.0018 (J)	<0.005			
4/28/2017							0.002 (J)		
5/8/2017		<0.005	<0.005						

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/26/2023 11:07 AM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
5/9/2017	<0.005								
5/26/2017							0.0005 (J)		
6/27/2017					0.0018 (J)	<0.005			
6/28/2017							0.0016 (J)		0.0007 (J)
6/30/2017				<0.005				<0.005	
7/11/2017		<0.005							
7/13/2017	<0.005								
7/17/2017			<0.005						
10/10/2017		0.0007 (J)							
10/11/2017	0.0006 (J)								
10/16/2017			<0.005						
2/19/2018			<0.005						
3/27/2018				<0.005		<0.005		<0.005	
3/28/2018							0.0013 (J)		<0.005
3/29/2018					0.0017 (J)				
4/2/2018		<0.005							
4/4/2018	<0.005								
6/5/2018					0.0013 (J)				
6/6/2018						<0.005			
6/7/2018							0.00082 (J)		<0.005
6/8/2018				<0.005					
6/11/2018								<0.005	
8/6/2018			<0.005						
9/19/2018		0.00072 (J)							
9/20/2018	0.001 (J)								
10/1/2018				<0.005	0.0016 (J)	<0.005	0.0011 (J)		<0.005
10/2/2018								<0.005	
2/25/2019			<0.005						
2/26/2019				<0.005				<0.005	
2/27/2019					0.0015 (J)	<0.005	0.001 (J)		<0.005
3/28/2019					0.00072 (J)	<0.005			
3/29/2019				<0.005			0.00063 (J)		
4/1/2019								<0.005	<0.005
6/12/2019			0.00038 (J)						
8/19/2019			0.00095 (J)						
8/20/2019		<0.005							
9/24/2019					0.0014 (J)	<0.005	<0.005		
9/25/2019				<0.005				<0.005	<0.005
9/26/2019	<0.005								
10/8/2019		<0.005	<0.005						
2/10/2020					0.0026 (J)	0.0005 (J)			
2/11/2020							0.0044 (J)		
2/12/2020				<0.005				0.0032 (J)	0.0038 (J)
3/17/2020		<0.005	<0.005						
3/18/2020				<0.005		<0.005			
3/19/2020					0.00095 (J)		0.00066 (J)	<0.005	<0.005
3/25/2020	0.00086 (J)								
8/26/2020			<0.005						
8/27/2020		<0.005							
9/22/2020		<0.005	<0.005						
9/23/2020					0.0011 (J)	<0.005	0.001 (J)		<0.005
9/24/2020	<0.005							<0.005	

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/26/2023 11:07 AM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
9/25/2020				<0.005					
2/9/2021	<0.005								
2/10/2021				<0.005			<0.005		0.00094 (J)
2/11/2021								<0.005	
2/12/2021					<0.005	<0.005			
3/1/2021		<0.005						<0.005	
3/2/2021			<0.005	<0.005					
3/3/2021					<0.005	<0.005	0.00098 (J)		<0.005
3/4/2021	<0.005								
8/19/2021		<0.005		<0.005	<0.005	<0.005		<0.005	<0.005
8/20/2021			<0.005						
8/27/2021							<0.005		
9/1/2021	<0.005								
2/8/2022	<0.005	0.0027 (J)	0.0033 (J)						
2/9/2022					0.0031 (J)	0.0033 (J)	0.0037 (J)		0.002 (J)
2/10/2022				0.0016 (J)					
2/11/2022								0.0014 (J)	
8/30/2022			0.0024 (J)		<0.005		0.0027 (J)		
8/31/2022	<0.005	<0.005		<0.005		<0.005		<0.005	0.0028 (J)
2/7/2023			<0.005		<0.005	<0.005	<0.005		
2/8/2023		<0.005		<0.005				<0.005	0.003 (J)
2/9/2023	<0.005								

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/26/2023 11:07 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

YGWA-3I (bg)

5/1/2007	
9/11/2007	
3/20/2008	
8/27/2008	
3/3/2009	
11/18/2009	
3/3/2010	
9/8/2010	
3/10/2011	
9/8/2011	
3/5/2012	
9/10/2012	
2/6/2013	
8/12/2013	
2/5/2014	
8/5/2014	
2/4/2015	
8/3/2015	
2/16/2016	
6/1/2016	<0.005
6/2/2016	
7/25/2016	<0.005
7/26/2016	
8/30/2016	
8/31/2016	
9/1/2016	
9/13/2016	
9/14/2016	<0.005
9/15/2016	
9/19/2016	
11/1/2016	<0.005
11/2/2016	
11/4/2016	
11/14/2016	
11/15/2016	
11/28/2016	
12/15/2016	
1/10/2017	
1/11/2017	<0.005
1/16/2017	
2/21/2017	
2/22/2017	
2/24/2017	
2/27/2017	
3/1/2017	0.0004 (J)
3/2/2017	
3/3/2017	
3/8/2017	
4/26/2017	<0.005
4/27/2017	
4/28/2017	
5/8/2017	

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/26/2023 11:07 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

YGWA-3I (bg)	
5/9/2017	
5/26/2017	
6/27/2017	
6/28/2017	0.0011 (J)
6/30/2017	
7/11/2017	
7/13/2017	
7/17/2017	
10/10/2017	
10/11/2017	
10/16/2017	
2/19/2018	
3/27/2018	
3/28/2018	<0.005
3/29/2018	
4/2/2018	
4/4/2018	
6/5/2018	
6/6/2018	
6/7/2018	
6/8/2018	<0.005
6/11/2018	
8/6/2018	
9/19/2018	
9/20/2018	
10/1/2018	<0.005
10/2/2018	
2/25/2019	
2/26/2019	
2/27/2019	<0.005
3/28/2019	
3/29/2019	
4/1/2019	<0.005
6/12/2019	
8/19/2019	
8/20/2019	
9/24/2019	
9/25/2019	<0.005
9/26/2019	
10/8/2019	
2/10/2020	
2/11/2020	0.0041 (J)
2/12/2020	
3/17/2020	
3/18/2020	
3/19/2020	<0.005
3/25/2020	
8/26/2020	
8/27/2020	
9/22/2020	
9/23/2020	<0.005
9/24/2020	

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/26/2023 11:07 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
9/25/2020	
2/9/2021	
2/10/2021	0.00078 (J)
2/11/2021	
2/12/2021	
3/1/2021	
3/2/2021	
3/3/2021	<0.005
3/4/2021	
8/19/2021	
8/20/2021	
8/27/2021	<0.005
9/1/2021	
2/8/2022	
2/9/2022	0.0018 (J)
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	<0.005
2/7/2023	
2/8/2023	0.0024 (J)
2/9/2023	

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB
6/8/2016							<0.005
8/1/2016							<0.005
9/2/2016			<0.005				
9/20/2016							<0.005
11/8/2016							<0.005
11/14/2016			<0.005				
1/17/2017							<0.005
2/28/2017			0.0006 (J)				
3/8/2017							<0.005
5/2/2017							<0.005
5/9/2017			0.0006 (J)				
7/7/2017							<0.005
7/13/2017			<0.005				
9/22/2017			<0.005				
9/29/2017			<0.005				
10/6/2017			<0.005				
10/12/2017		0.0014 (J)					
11/21/2017		0.0008 (J)					
1/11/2018		0.0006 (J)					
2/20/2018		<0.005					
3/30/2018			<0.005				<0.005
4/3/2018		0.0012 (J)					
6/12/2018							<0.005
6/13/2018			0.00066 (J)				
6/29/2018		0.0011 (J)					
8/6/2018		<0.005					
9/24/2018		0.00094 (J)					
9/26/2018			<0.005				<0.005
10/16/2018	0.00069 (J)						
3/5/2019							<0.005
3/6/2019			<0.005				
4/4/2019			<0.005				<0.005
9/26/2019	<0.005		<0.005				<0.005
3/25/2020	<0.005		<0.005				
3/26/2020							0.0015 (J)
9/23/2020							<0.005
9/24/2020	<0.005						
9/25/2020		<0.005					
10/7/2020			<0.005				
2/9/2021		0.0015 (J)					<0.005
2/10/2021	0.00096 (J)		0.00088 (J)				
3/3/2021							<0.005
3/4/2021	<0.005	<0.005	<0.005				
8/25/2021		0.0014 (J)					
9/1/2021	<0.005						<0.005
9/3/2021			<0.005	<0.005			
2/10/2022	0.0018 (J)	0.0017 (J)				0.0013 (J)	0.0024 (J)
2/11/2022			0.0014 (J)	<0.005	0.0014 (J)		
8/31/2022	<0.005						
9/1/2022		<0.005	<0.005	<0.005	<0.005	<0.005	
2/8/2023		<0.005	<0.005	<0.005	0.0032 (J)		
2/9/2023	0.0028 (J)		0.0047 (J)			<0.005	

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/26/2023 11:07 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

2/10/2023	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB
							0.0035 (J)

Time Series

Constituent: Barium (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/6/2016							0.028	0.019	
6/7/2016						0.012			0.014
7/27/2016						0.0126	0.0294	0.0167	0.0141
7/28/2016									
9/16/2016						0.0127		0.0168	
9/19/2016							0.0247		0.0155
11/2/2016									0.0157
11/3/2016						0.0128	0.0248	0.0159	
1/11/2017						0.0142	0.0266	0.0162	
1/13/2017									0.0158
3/1/2017							0.0275	0.0195	
3/2/2017						0.0155			
3/6/2017									0.0163
4/26/2017							0.024	0.0182	0.0177
5/2/2017						0.0138			
6/28/2017							0.0237	0.018	
6/29/2017						0.0128			0.017
3/28/2018						0.014	0.024	0.021	
3/29/2018									0.014
6/5/2018									
6/6/2018									0.015
6/7/2018							0.023		
6/11/2018						0.013		0.019	
9/25/2018						0.014	0.023	0.019	0.015
10/16/2018	0.048								
3/5/2019						0.015		0.02	0.016
3/6/2019							0.024		
4/2/2019						0.016			
4/3/2019							0.025	0.017	0.018
9/24/2019									
9/25/2019						0.015			0.014
9/26/2019	0.047						0.021	0.017	
2/11/2020						0.015	0.022	0.019	
2/12/2020									0.014
3/24/2020						0.015	0.021	0.017	0.015
3/25/2020	0.04								
9/23/2020		0.0092 (J)		0.0063 (J)		0.015	0.021	0.016	
9/24/2020	0.028				0.057				0.015
2/9/2021	0.039	0.0085 (J)		0.02	0.042		0.023	0.017	0.015
3/3/2021	0.035	0.0082		0.021		0.017	0.023	0.017	0.015
3/4/2021					0.039				
8/25/2021				0.0037 (J)					
8/26/2021					0.036			0.015	
8/27/2021						0.016	0.02		0.013
9/1/2021	0.075	0.0072							
2/9/2022						0.017	0.021	0.014	0.014
2/10/2022	0.084	0.0074	0.038	0.0033 (J)	0.034				
8/30/2022						0.017	0.017	0.012	
8/31/2022	0.085								0.011
9/1/2022		0.0092	0.024	0.003 (J)	0.034				
2/7/2023						0.017	0.019	0.012	0.014
2/8/2023		0.0064		0.003 (J)	0.039				

Time Series

Constituent: Barium (mg/L) Analysis Run 4/26/2023 11:07 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
2/9/2023	0.078		0.045						

Time Series

Constituent: Barium (mg/L) Analysis Run 4/26/2023 11:07 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-211 (bg)
6/6/2016	
6/7/2016	0.0058
7/27/2016	
7/28/2016	0.0068 (J)
9/16/2016	
9/19/2016	0.0071 (J)
11/2/2016	
11/3/2016	0.0092 (J)
1/11/2017	
1/13/2017	0.0105
3/1/2017	
3/2/2017	
3/6/2017	0.0105
4/26/2017	0.011
5/2/2017	
6/28/2017	
6/29/2017	0.0109
3/28/2018	
3/29/2018	<0.01
6/5/2018	0.011
6/6/2018	
6/7/2018	
6/11/2018	
9/25/2018	0.011
10/16/2018	
3/5/2019	0.011
3/6/2019	
4/2/2019	0.011
4/3/2019	
9/24/2019	0.011
9/25/2019	
9/26/2019	
2/11/2020	
2/12/2020	0.011
3/24/2020	0.011
3/25/2020	
9/23/2020	
9/24/2020	0.01
2/9/2021	0.011
3/3/2021	
3/4/2021	0.011
8/25/2021	
8/26/2021	
8/27/2021	
9/1/2021	0.0099
2/9/2022	0.011
2/10/2022	
8/30/2022	0.0085
8/31/2022	
9/1/2022	
2/7/2023	0.01
2/8/2023	

Time Series

Constituent: Barium (mg/L) Analysis Run 4/26/2023 11:07 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

YGWA-211 (bg)

2/9/2023

Time Series

Constituent: Barium (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-41 (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/2/2016			0.013	0.0084	0.019				
6/7/2016						0.045			
7/26/2016			0.0158	0.01	0.0179				
7/28/2016						0.0511			
8/30/2016									0.0455
8/31/2016									
9/14/2016			0.0143	0.0085 (J)	0.0181				
9/20/2016						0.0561			
11/2/2016			0.0148	0.0091 (J)					
11/4/2016					0.0165				
11/8/2016						0.054			
11/16/2016									0.0541
1/12/2017				0.0089 (J)	0.0199				
1/13/2017			0.0146						
1/16/2017						0.0528			
2/24/2017									
2/27/2017									0.0573
3/6/2017			0.0141						
3/7/2017				0.009 (J)	0.0196				
3/9/2017						0.0469			
5/1/2017			0.0149	0.0083 (J)					
5/2/2017					0.0202	0.0427			
5/10/2017									0.0517
6/27/2017				0.0074 (J)	0.0184				
6/29/2017			0.0154						
7/10/2017						0.0395			
7/11/2017									0.0451
10/11/2017	0.0092 (J)								
10/12/2017		0.0328					0.0269	0.0394	0.0429
11/20/2017	0.0081 (J)	0.0671				0.0255			
11/21/2017								0.032	
1/10/2018		0.0656							
1/11/2018	0.0077 (J)							0.03	
1/12/2018							0.0236		
2/19/2018		0.0598						0.0308	
2/20/2018	<0.01						0.0255		
3/29/2018			0.014	<0.01	0.021				
3/30/2018						0.03			
4/3/2018	<0.01	0.045					0.023	0.03	
4/4/2018									0.041
6/6/2018				0.008 (J)					
6/7/2018			0.014		0.019				
6/12/2018						0.024			
6/27/2018								0.028	
6/28/2018	0.0078 (J)	0.047					0.024		
8/7/2018	0.0078 (J)	0.048					0.023	0.027	
9/20/2018									0.038
9/24/2018	0.0071 (J)	0.042					0.021	0.026	
9/26/2018			0.02	0.0075 (J)	0.019				
9/27/2018						0.022			
3/4/2019			0.016	0.0077 (J)	0.019				
3/6/2019						0.019			

Time Series

Constituent: Barium (mg/L) Analysis Run 4/26/2023 11:07 AM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-41 (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
4/3/2019			0.017	0.0087 (J)	0.023				
4/4/2019						0.019			
8/21/2019	0.015	0.035							
8/22/2019							0.019	0.021	0.031
9/24/2019				0.0075 (J)	0.019				
9/25/2019			0.015						
9/27/2019						0.018			
10/9/2019	0.013	0.036					0.019	0.021	0.027
2/12/2020	0.011	0.035	0.012	0.0079 (J)	0.021				
3/24/2020		0.033		0.0076 (J)	0.021				
3/25/2020	0.014		0.016				0.018	0.021	0.03
3/26/2020						0.027			
9/22/2020			0.013	0.0076 (J)	0.019				
9/24/2020	0.016	0.028				0.035			0.026
9/25/2020							0.015	0.016	
2/8/2021				0.0079 (J)	0.02				
2/9/2021			0.013			0.042	0.016		
2/10/2021	0.027	0.032						0.017	0.031
3/2/2021				0.014	0.019				
3/3/2021			0.014						
3/4/2021	0.028	0.032				0.043	0.016	0.017	0.03
8/25/2021						0.049			0.027
8/26/2021	0.038		0.012	0.0092	0.019		0.016	0.018	
9/3/2021		0.035							
9/27/2021									
2/8/2022	0.041	0.039						0.021	
2/10/2022				0.0084	0.02	0.058	0.016		0.026
2/11/2022			0.013						
8/30/2022				0.0079	0.017				
8/31/2022	0.035	0.035	0.013						
9/1/2022						0.053	0.014	0.019	0.023
2/7/2023	0.03			0.0075					
2/8/2023		0.037				0.053	0.016	0.022	0.023
2/9/2023			0.014		0.019				

Time Series

Constituent: Barium (mg/L) Analysis Run 4/26/2023 11:07 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

YGWC-43

6/2/2016	
6/7/2016	
7/26/2016	
7/28/2016	
8/30/2016	
8/31/2016	0.0065 (J)
9/14/2016	
9/20/2016	
11/2/2016	
11/4/2016	
11/8/2016	
11/16/2016	0.0092 (J)
1/12/2017	
1/13/2017	
1/16/2017	
2/24/2017	0.0144
2/27/2017	
3/6/2017	
3/7/2017	
3/9/2017	
5/1/2017	
5/2/2017	
5/10/2017	0.0173
6/27/2017	
6/29/2017	
7/10/2017	
7/11/2017	0.0183
10/11/2017	
10/12/2017	0.0205
11/20/2017	
11/21/2017	
1/10/2018	
1/11/2018	
1/12/2018	
2/19/2018	
2/20/2018	
3/29/2018	
3/30/2018	
4/3/2018	
4/4/2018	0.024
6/6/2018	
6/7/2018	
6/12/2018	
6/27/2018	
6/28/2018	
8/7/2018	
9/20/2018	0.035
9/24/2018	
9/26/2018	
9/27/2018	
3/4/2019	
3/6/2019	

Time Series

Constituent: Barium (mg/L) Analysis Run 4/26/2023 11:07 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

YGWC-43

4/3/2019	
4/4/2019	
8/21/2019	0.03
8/22/2019	
9/24/2019	
9/25/2019	
9/27/2019	
10/9/2019	0.04
2/12/2020	
3/24/2020	
3/25/2020	0.033
3/26/2020	
9/22/2020	
9/24/2020	
9/25/2020	0.046
2/8/2021	
2/9/2021	0.041
2/10/2021	
3/2/2021	
3/3/2021	
3/4/2021	0.039
8/25/2021	
8/26/2021	
9/3/2021	
9/27/2021	0.0097
2/8/2022	0.029
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	
9/1/2022	0.029
2/7/2023	
2/8/2023	0.031
2/9/2023	

Time Series

Constituent: Barium (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
5/1/2007			0.032						
9/11/2007			0.017						
3/20/2008			0.025						
8/27/2008			0.041						
3/3/2009			0.053						
11/18/2009			0.05						
3/3/2010			0.061						
9/8/2010			0.071						
3/10/2011			0.057						
9/8/2011			0.057						
3/5/2012			0.061						
9/10/2012			0.055						
2/6/2013			0.061						
8/12/2013			0.055						
2/5/2014			0.063						
8/5/2014			0.038						
2/4/2015			0.039						
8/3/2015			0.031						
2/16/2016			0.045						
6/1/2016					0.008	0.012			
6/2/2016				0.0081				0.0064	0.01
7/25/2016						0.0091 (J)		0.0071 (J)	
7/26/2016				0.0082 (J)	0.006 (J)				0.0088 (J)
8/30/2016		0.0413							
8/31/2016			0.0542						
9/1/2016	0.077								
9/13/2016					0.0084 (J)	0.008 (J)			
9/14/2016							0.0037 (J)		
9/15/2016				0.0087 (J)					0.009 (J)
9/19/2016								0.0069 (J)	
11/1/2016					0.0062 (J)			0.007 (J)	0.0079 (J)
11/2/2016				0.0082 (J)					
11/4/2016						0.0067 (J)	0.0059 (J)		
11/14/2016		0.0383							
11/15/2016	0.0772								
11/28/2016			0.0529						
12/15/2016							0.0056 (J)		
1/10/2017				0.0086 (J)					
1/11/2017					0.0069 (J)				0.0075 (J)
1/16/2017						0.0096 (J)	0.0049 (J)	0.0071 (J)	
2/21/2017								0.0077 (J)	
2/22/2017			0.0607						
2/24/2017		0.0351							
2/27/2017	0.0888								
3/1/2017									
3/2/2017					0.0071 (J)	0.0112			0.009 (J)
3/3/2017							0.0046 (J)		
3/8/2017				0.0088 (J)					
4/26/2017				0.0085 (J)				0.0074 (J)	0.0078 (J)
4/27/2017					0.0064 (J)	0.0106			
4/28/2017							0.0039 (J)		
5/8/2017		0.0251	0.065						

Time Series

Constituent: Barium (mg/L) Analysis Run 4/26/2023 11:07 AM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
5/9/2017	0.0792								
5/26/2017							0.0034 (J)		
6/27/2017					0.0054 (J)	0.0092 (J)			
6/28/2017							0.003 (J)		0.0071 (J)
6/30/2017				0.0081 (J)				0.0076 (J)	
7/11/2017		0.0233							
7/13/2017	0.0839								
7/17/2017			0.06						
10/10/2017		0.0207							
10/11/2017	0.078								
10/16/2017			0.0542						
2/19/2018			0.0533						
3/27/2018				<0.01		<0.01		<0.01	
3/28/2018							<0.01		<0.01
3/29/2018					<0.01				
4/2/2018		0.022							
4/4/2018	0.074								
6/5/2018					0.0069 (J)				
6/6/2018						0.0082 (J)			
6/7/2018							0.0037 (J)		0.0068 (J)
6/8/2018				0.007 (J)					
6/11/2018								0.007 (J)	
8/6/2018			0.044						
9/19/2018		0.023							
9/20/2018	0.074								
10/1/2018				0.007 (J)	0.0062 (J)	0.0084 (J)	0.0038 (J)		0.0065 (J)
10/2/2018								0.0069 (J)	
2/25/2019			0.045						
2/26/2019				0.0067 (J)				0.007 (J)	
2/27/2019					0.0074 (J)	0.008 (J)	0.0035 (J)		0.0059 (J)
3/28/2019					0.0082 (J)	0.0082 (J)			
3/29/2019				0.0066 (J)			0.0039 (J)		
4/1/2019								0.0072 (J)	0.0064 (J)
6/12/2019			0.063						
8/19/2019			0.065						
8/20/2019		0.024							
9/24/2019					0.0072 (J)	0.0086 (J)	0.0038 (J)		
9/25/2019				0.0071 (J)				0.0066 (J)	0.0059 (J)
9/26/2019	0.065								
10/8/2019		0.025	0.058						
2/10/2020					0.0066 (J)	0.0091 (J)			
2/11/2020							0.0036 (J)		
2/12/2020				0.007 (J)				0.0073 (J)	0.0062 (J)
3/17/2020		0.035	0.047						
3/18/2020				0.0076 (J)		0.0084 (J)			
3/19/2020					0.0076 (J)		0.0036 (J)	0.0074 (J)	0.0072 (J)
3/25/2020	0.071								
8/26/2020			0.044						
8/27/2020		0.027							
9/22/2020		0.026	0.045						
9/23/2020					0.0068 (J)	0.0079 (J)	0.0039 (J)		0.0051 (J)
9/24/2020	0.066							0.0062 (J)	

Time Series

Constituent: Barium (mg/L) Analysis Run 4/26/2023 11:07 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

YGWA-3I (bg)

5/1/2007	
9/11/2007	
3/20/2008	
8/27/2008	
3/3/2009	
11/18/2009	
3/3/2010	
9/8/2010	
3/10/2011	
9/8/2011	
3/5/2012	
9/10/2012	
2/6/2013	
8/12/2013	
2/5/2014	
8/5/2014	
2/4/2015	
8/3/2015	
2/16/2016	
6/1/2016	0.0038
6/2/2016	
7/25/2016	0.0031 (J)
7/26/2016	
8/30/2016	
8/31/2016	
9/1/2016	
9/13/2016	
9/14/2016	0.0027 (J)
9/15/2016	
9/19/2016	
11/1/2016	0.0027 (J)
11/2/2016	
11/4/2016	
11/14/2016	
11/15/2016	
11/28/2016	
12/15/2016	
1/10/2017	
1/11/2017	0.0036 (J)
1/16/2017	
2/21/2017	
2/22/2017	
2/24/2017	
2/27/2017	
3/1/2017	0.0036 (J)
3/2/2017	
3/3/2017	
3/8/2017	
4/26/2017	0.0038 (J)
4/27/2017	
4/28/2017	
5/8/2017	

Time Series

Constituent: Barium (mg/L) Analysis Run 4/26/2023 11:07 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
5/9/2017	
5/26/2017	
6/27/2017	
6/28/2017	0.004 (J)
6/30/2017	
7/11/2017	
7/13/2017	
7/17/2017	
10/10/2017	
10/11/2017	
10/16/2017	
2/19/2018	
3/27/2018	
3/28/2018	<0.01
3/29/2018	
4/2/2018	
4/4/2018	
6/5/2018	
6/6/2018	
6/7/2018	
6/8/2018	0.0034 (J)
6/11/2018	
8/6/2018	
9/19/2018	
9/20/2018	
10/1/2018	0.0034 (J)
10/2/2018	
2/25/2019	
2/26/2019	
2/27/2019	0.0034 (J)
3/28/2019	
3/29/2019	
4/1/2019	0.003 (J)
6/12/2019	
8/19/2019	
8/20/2019	
9/24/2019	
9/25/2019	0.005 (J)
9/26/2019	
10/8/2019	
2/10/2020	
2/11/2020	0.0031 (J)
2/12/2020	
3/17/2020	
3/18/2020	
3/19/2020	0.0029 (J)
3/25/2020	
8/26/2020	
8/27/2020	
9/22/2020	
9/23/2020	0.0039 (J)
9/24/2020	

Time Series

Constituent: Barium (mg/L) Analysis Run 4/26/2023 11:07 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
9/25/2020	
2/9/2021	
2/10/2021	0.0029 (J)
2/11/2021	
2/12/2021	
3/1/2021	
3/2/2021	
3/3/2021	0.0031 (J)
3/4/2021	
8/19/2021	
8/20/2021	
8/27/2021	0.0039 (J)
9/1/2021	
2/8/2022	
2/9/2022	0.0031 (J)
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	0.003 (J)
2/7/2023	
2/8/2023	0.0029 (J)
2/9/2023	

Time Series

Constituent: Barium (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB
6/8/2016							0.02
8/1/2016							0.02
9/2/2016			0.0409				
9/20/2016							0.0203
11/8/2016							0.0191
11/14/2016			0.0182				
1/17/2017							0.0192
2/28/2017			0.023				
3/8/2017							0.0189
5/2/2017							0.019
5/9/2017			0.0349				
7/7/2017							0.019
7/13/2017			0.0484				
9/22/2017			0.0491				
9/29/2017			0.0452				
10/6/2017			0.0508				
10/12/2017		0.064					
11/21/2017		0.0579					
1/11/2018		0.0549					
2/20/2018		0.0593					
3/30/2018			0.043				0.02
4/3/2018		0.051					
6/12/2018							0.018
6/13/2018			0.046				
6/29/2018		0.054					
8/6/2018		0.048					
9/24/2018		0.047					
9/26/2018			0.048				0.019
10/16/2018	0.063						
3/5/2019							0.019
3/6/2019			0.041				
4/4/2019			0.042				0.02
9/26/2019	0.039		0.025				0.017
3/25/2020	0.039		0.025				
3/26/2020							0.019
9/23/2020							0.026
9/24/2020	0.034						
9/25/2020		0.034					
10/7/2020			0.04				
2/9/2021		0.036					0.031
2/10/2021	0.032		0.035				
3/3/2021							0.025
3/4/2021	0.033	0.036	0.028				
8/25/2021		0.035					
9/1/2021	0.067						0.025
9/3/2021			0.038	0.015			
2/10/2022	0.074	0.029				0.017	0.026
2/11/2022			0.044	0.013	0.032		
8/31/2022	0.1						
9/1/2022		0.023	0.059	0.033	0.015	0.013	
2/8/2023		0.022		0.018	0.012		
2/9/2023	0.13		0.097			0.015	

Time Series

Constituent: Barium (mg/L) Analysis Run 4/26/2023 11:07 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

2/10/2023	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB
							0.031

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/26/2023 11:07 AM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/6/2016							<0.0005	<0.003	
6/7/2016						<0.003			<0.0025
7/27/2016						<0.003	<0.0005	<0.003	<0.0025
7/28/2016									
9/16/2016						<0.003		<0.003	
9/19/2016							<0.0005		<0.0025
11/2/2016									<0.0025
11/3/2016						<0.003	<0.0005	<0.003	
1/11/2017						<0.003	<0.0005	<0.003	
1/13/2017									<0.0025
3/1/2017							<0.0005	<0.003	
3/2/2017						8E-05 (J)			
3/6/2017									<0.0025
4/26/2017							<0.0005	<0.003	<0.0025
5/2/2017						<0.003			
6/28/2017							<0.0005	<0.003	
6/29/2017						<0.003			<0.0025
3/28/2018						<0.003	<0.0005	<0.003	
3/29/2018									<0.0025
6/5/2018									
6/6/2018									8E-05 (J)
6/7/2018							<0.0005		
6/11/2018						9E-05 (J)		5.7E-05 (J)	
9/25/2018						8.9E-05 (J)	<0.0005	8.2E-05 (J)	6.1E-05 (J)
10/16/2018	<0.0005								
3/5/2019						9.1E-05 (J)		7.9E-05 (J)	0.00011 (J)
3/6/2019							<0.0005		
4/2/2019						9E-05 (J)			
4/3/2019							<0.0005	7.5E-05 (J)	6.4E-05 (J)
9/24/2019									
9/25/2019						8.1E-05 (J)			<0.0025
9/26/2019	<0.0005						<0.0005	8.4E-05 (J)	
1/15/2020					0.00017 (J)				
2/11/2020						7.8E-05 (J)	<0.0005	7.6E-05 (J)	
2/12/2020									7.8E-05 (J)
3/24/2020						8E-05 (J)	<0.0005	8.9E-05 (J)	7.6E-05 (J)
3/25/2020	0.00037 (J)								
9/23/2020		<0.0005		<0.0005		8.1E-05 (J)	<0.0005	8.8E-05 (J)	
9/24/2020	5.8E-05 (J)				8.6E-05 (J)				8.3E-05 (J)
2/9/2021	<0.0005	5.1E-05 (J)		<0.0005	0.00015 (J)		<0.0005	9.8E-05 (J)	6.8E-05 (J)
3/3/2021	<0.0005	<0.0005		<0.0005		9.9E-05 (J)	<0.0005	0.00011 (J)	6.8E-05 (J)
3/4/2021					0.00013 (J)				
8/25/2021				<0.0005					
8/26/2021					0.00012 (J)			9.3E-05 (J)	
8/27/2021						0.0001 (J)	<0.0005		5.9E-05 (J)
9/1/2021	9.5E-05 (J)	6.5E-05 (J)							
2/9/2022						0.00011 (J)	<0.0005	8.9E-05 (J)	7.7E-05 (J)
2/10/2022	0.00016 (J)	7.4E-05 (J)	7.8E-05 (J)	<0.0005	0.00013 (J)				
8/30/2022						0.0001 (J)	<0.0005	8.2E-05 (J)	
8/31/2022	0.00011 (J)								<0.0025
9/1/2022		5.7E-05 (J)	0.00011 (J)	<0.0005	0.00011 (J)				
2/7/2023						9.6E-05 (J)	<0.0005	7.1E-05 (J)	7.4E-05 (J)

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/26/2023 11:07 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
2/8/2023		5.5E-05 (J)		<0.0005	0.00013 (J)				
2/9/2023	0.00012 (J)		6.2E-05 (J)						

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/26/2023 11:07 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-211 (bg)
6/6/2016	
6/7/2016	<0.0005
7/27/2016	
7/28/2016	<0.0005
9/16/2016	
9/19/2016	<0.0005
11/2/2016	
11/3/2016	<0.0005
1/11/2017	
1/13/2017	<0.0005
3/1/2017	
3/2/2017	
3/6/2017	<0.0005
4/26/2017	<0.0005
5/2/2017	
6/28/2017	
6/29/2017	<0.0005
3/28/2018	
3/29/2018	<0.0005
6/5/2018	<0.0005
6/6/2018	
6/7/2018	
6/11/2018	
9/25/2018	<0.0005
10/16/2018	
3/5/2019	<0.0005
3/6/2019	
4/2/2019	<0.0005
4/3/2019	
9/24/2019	<0.0005
9/25/2019	
9/26/2019	
1/15/2020	
2/11/2020	
2/12/2020	<0.0005
3/24/2020	<0.0005
3/25/2020	
9/23/2020	
9/24/2020	<0.0005
2/9/2021	<0.0005
3/3/2021	
3/4/2021	<0.0005
8/25/2021	
8/26/2021	
8/27/2021	
9/1/2021	<0.0005
2/9/2022	<0.0005
2/10/2022	
8/30/2022	<0.0005
8/31/2022	
9/1/2022	
2/7/2023	<0.0005

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/26/2023 11:07 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

YGWA-211 (bg)

2/8/2023

2/9/2023

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/26/2023 11:07 AM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-41 (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/2/2016			<0.0005	<0.0005	<0.0005				
6/7/2016						<0.003			
7/26/2016			<0.0005	<0.0005	<0.0005				
7/28/2016						<0.003			
8/30/2016									9E-05 (J)
8/31/2016									
9/14/2016			<0.0005	<0.0005	<0.0005				
9/20/2016						0.0001 (J)			
11/2/2016			<0.0005	<0.0005					
11/4/2016					<0.0005				
11/8/2016						<0.003			
11/16/2016									<0.0005
1/12/2017				<0.0005	<0.0005				
1/13/2017			<0.0005						
1/16/2017						0.0001 (J)			
2/24/2017									
2/27/2017									<0.0005
3/6/2017			<0.0005						
3/7/2017				<0.0005	<0.0005				
3/9/2017						0.0001 (J)			
5/1/2017			<0.0005	<0.0005					
5/2/2017					<0.0005	9E-05 (J)			
5/10/2017									9E-05 (J)
6/27/2017				<0.0005	<0.0005				
6/29/2017			<0.0005						
7/10/2017						<0.003			
7/11/2017									0.0001 (J)
10/11/2017	<0.0005								
10/12/2017		0.0002 (J)					0.0057	0.0036	<0.0005
11/20/2017	<0.0005	0.0003 (J)					0.0053		
11/21/2017								0.0036	
1/10/2018		0.0003 (J)							
1/11/2018	<0.0005							0.0037	
1/12/2018							0.0053		
2/19/2018		<0.003						0.0039	
2/20/2018	<0.0005						0.0053		
3/29/2018			<0.0005	<0.0005	<0.0005				
3/30/2018						<0.003			
4/3/2018	<0.0005	<0.003					0.0056	0.0037	
4/4/2018									<0.0005
6/6/2018				<0.0005					
6/7/2018			<0.0005		<0.0005				
6/12/2018						8.1E-05 (J)			
6/27/2018								0.0038	
6/28/2018	<0.0005	0.00029 (J)					0.0059		
8/7/2018	<0.0005	0.00024 (J)					0.0058	0.0037	
9/20/2018									<0.0005
9/24/2018	<0.0005	0.00019 (J)					0.0051	0.0032	
9/26/2018			<0.0005	<0.0005	<0.0005				
9/27/2018						9E-05 (J)			
3/4/2019			<0.0005	<0.0005	<0.0005				
3/6/2019						6.6E-05 (J)			

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/26/2023 11:07 AM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-41 (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
4/3/2019			<0.0005	<0.0005	<0.0005				
4/4/2019						7.2E-05 (J)			
8/21/2019	<0.0005	0.0002 (J)							
8/22/2019							0.0049	0.0026 (J)	<0.0005
9/24/2019				<0.0005	<0.0005				
9/25/2019			<0.0005						
9/27/2019						7.7E-05 (J)			
10/9/2019	<0.0005	0.0002 (J)					0.0046	0.0026 (J)	<0.0005
2/12/2020	<0.0005	0.00018 (J)	<0.0005	<0.0005	<0.0005				
3/24/2020		0.00022 (J)		<0.0005	<0.0005				
3/25/2020	<0.0005		<0.0005				0.0038	0.0026 (J)	<0.0005
3/26/2020						9E-05 (J)			
9/22/2020			<0.0005	<0.0005	<0.0005				
9/24/2020	<0.0005	0.0002 (J)				0.00015 (J)			6.7E-05 (J)
9/25/2020							0.0033	0.002 (J)	
2/8/2021				<0.0005	<0.0005				
2/9/2021			<0.0005			0.00015 (J)	0.0029 (J)		
2/10/2021	5.1E-05 (J)	0.00021 (J)						0.0015 (J)	5.7E-05 (J)
3/2/2021				<0.0005	<0.0005				
3/3/2021			<0.0005						
3/4/2021	<0.0005	0.00021 (J)				0.00013 (J)	0.0029	0.0015	<0.0005
8/25/2021						0.00019 (J)			<0.0005
8/26/2021	<0.0005		<0.0005	<0.0005	<0.0005		0.0028	0.0012	
9/3/2021		0.00024 (J)							
9/27/2021									
2/8/2022	<0.0005	0.00028 (J)						0.0016	
2/10/2022				<0.0005	<0.0005	0.00023 (J)	0.0027		6.1E-05 (J)
2/11/2022			<0.0005						
8/30/2022				<0.0005	<0.0005				
8/31/2022	<0.0005	0.00025 (J)	<0.0005						
9/1/2022						0.00019 (J)	0.0022	0.0013	<0.0005
2/7/2023	<0.0005			<0.0005					
2/8/2023		0.00026 (J)				0.00022 (J)	0.002	0.0013	6.2E-05 (J)
2/9/2023			<0.0005		<0.0005				

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/26/2023 11:07 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Date	Value
6/2/2016	
6/7/2016	
7/26/2016	
7/28/2016	
8/30/2016	
8/31/2016	<0.003
9/14/2016	
9/20/2016	
11/2/2016	
11/4/2016	
11/8/2016	
11/16/2016	<0.003
1/12/2017	
1/13/2017	
1/16/2017	
2/24/2017	<0.003
2/27/2017	
3/6/2017	
3/7/2017	
3/9/2017	
5/1/2017	
5/2/2017	
5/10/2017	<0.003
6/27/2017	
6/29/2017	
7/10/2017	
7/11/2017	<0.003
10/11/2017	
10/12/2017	0.0001 (J)
11/20/2017	
11/21/2017	
1/10/2018	
1/11/2018	
1/12/2018	
2/19/2018	
2/20/2018	
3/29/2018	
3/30/2018	
4/3/2018	
4/4/2018	<0.003
6/6/2018	
6/7/2018	
6/12/2018	
6/27/2018	
6/28/2018	
8/7/2018	
9/20/2018	0.00029 (J)
9/24/2018	
9/26/2018	
9/27/2018	
3/4/2019	
3/6/2019	

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/26/2023 11:07 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
4/3/2019	
4/4/2019	
8/21/2019	0.0003 (J)
8/22/2019	
9/24/2019	
9/25/2019	
9/27/2019	
10/9/2019	0.00034 (J)
2/12/2020	
3/24/2020	
3/25/2020	0.00034 (J)
3/26/2020	
9/22/2020	
9/24/2020	
9/25/2020	0.00054 (J)
2/8/2021	
2/9/2021	0.00053 (J)
2/10/2021	
3/2/2021	
3/3/2021	
3/4/2021	0.00056
8/25/2021	
8/26/2021	
9/3/2021	
9/27/2021	0.00015 (J)
2/8/2022	0.00037 (J)
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	
9/1/2022	0.00033 (J)
2/7/2023	
2/8/2023	0.00036 (J)
2/9/2023	

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/26/2023 11:07 AM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
5/1/2007			<0.0005						
9/11/2007			<0.0005						
3/20/2008			<0.0005						
8/27/2008			<0.0005						
3/3/2009			<0.0005						
11/18/2009			<0.0005						
3/3/2010			<0.0005						
9/8/2010			<0.0005						
3/10/2011			<0.0005						
9/8/2011			<0.0005						
3/5/2012			<0.0005						
9/10/2012			<0.0005						
2/6/2013			<0.0005						
8/12/2013			<0.0005						
2/5/2014			<0.0005						
8/5/2014			<0.0005						
2/4/2015			<0.0005						
8/3/2015			<0.0005						
2/16/2016			<0.0005						
6/1/2016					<0.0005	<0.0025			
6/2/2016				<0.003				<0.0005	<0.0005
7/25/2016						<0.0025		<0.0005	
7/26/2016				0.0002 (J)	<0.0005				<0.0005
8/30/2016		<0.0005							
8/31/2016			<0.0005						
9/1/2016	0.0001 (J)								
9/13/2016					<0.0005	<0.0025			
9/14/2016							<0.0005		
9/15/2016				0.0002 (J)					<0.0005
9/19/2016								<0.0005	
11/1/2016					<0.0005			<0.0005	<0.0005
11/2/2016				0.0002 (J)					
11/4/2016						<0.0025	<0.0005		
11/14/2016		<0.0005							
11/15/2016	0.0001 (J)								
11/28/2016			<0.0005						
12/15/2016							<0.0005		
1/10/2017				0.0002 (J)					
1/11/2017					<0.0005				<0.0005
1/16/2017						<0.0025	<0.0005	<0.0005	
2/21/2017								<0.0005	
2/22/2017			<0.0005						
2/24/2017		<0.0005							
2/27/2017	0.0001 (J)								
3/1/2017									
3/2/2017					<0.0005	<0.0025			<0.0005
3/3/2017							<0.0005		
3/8/2017				0.0002 (J)					
4/26/2017				0.0002 (J)				<0.0005	<0.0005
4/27/2017					<0.0005	<0.0025			
4/28/2017							<0.0005		
5/8/2017		7E-05 (J)	<0.0005						

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/26/2023 11:07 AM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
5/9/2017	0.0001 (J)								
5/26/2017							<0.0005		
6/27/2017					<0.0005	<0.0025			
6/28/2017							<0.0005		<0.0005
6/30/2017				0.0002 (J)				<0.0005	
7/11/2017		<0.0005							
7/13/2017	0.0001 (J)								
7/17/2017			<0.0005						
10/10/2017		<0.0005							
10/11/2017	0.0001 (J)								
10/16/2017			<0.0005						
2/19/2018			<0.0005						
3/27/2018				<0.003		<0.0025		<0.0005	
3/28/2018							<0.0005		<0.0005
3/29/2018					<0.0005				
4/2/2018		<0.0005							
4/4/2018	<0.003								
8/6/2018			<0.0005						
9/19/2018		5.7E-05 (J)							
9/20/2018	0.00011 (J)								
2/25/2019			<0.0005						
2/26/2019				0.00016 (J)				7.2E-05 (J)	
2/27/2019					<0.0005	<0.0025	<0.0005		<0.0005
3/28/2019					<0.0005	<0.0025			
3/29/2019				0.00017 (J)			<0.0005		
4/1/2019								<0.0005	<0.0005
6/12/2019			<0.0005						
8/19/2019			<0.0005						
8/20/2019		<0.0005							
9/24/2019					<0.0005	<0.0025	<0.0005		
9/25/2019				0.00018 (J)				<0.0005	<0.0005
9/26/2019	0.00013 (J)								
10/8/2019			<0.0005						
2/10/2020					<0.0005	<0.0025			
2/11/2020							<0.0005		
2/12/2020				0.00019 (J)				<0.0005	<0.0005
3/17/2020			<0.0005						
3/18/2020				0.00021 (J)		<0.0025			
3/19/2020					<0.0005		<0.0005	<0.0005	<0.0005
3/25/2020	0.00013 (J)								
8/26/2020			<0.0005						
8/27/2020		4.7E-05 (J)							
9/22/2020		<0.0005	<0.0005						
9/23/2020					<0.0005	<0.0025	<0.0005		<0.0005
9/24/2020	0.00013 (J)							<0.0005	
9/25/2020				0.00018 (J)					
2/9/2021	0.00013 (J)								
2/10/2021				0.00019 (J)			<0.0005		<0.0005
2/11/2021								4.7E-05 (J)	
2/12/2021					<0.0005	<0.0025			
3/1/2021		5.5E-05 (J)						<0.0005	
3/2/2021			<0.0005	0.00018 (J)					

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/26/2023 11:07 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
3/3/2021					<0.0005	<0.0025	<0.0005		<0.0005
3/4/2021	0.0001 (J)								
8/19/2021		<0.0005		0.00022 (J)	<0.0005	<0.0025		<0.0005	<0.0005
8/20/2021			<0.0005						
8/27/2021							<0.0005		
9/1/2021	0.00012 (J)								
2/8/2022	0.00015 (J)	5.6E-05 (J)	<0.0005						
2/9/2022					<0.0005	<0.0025	<0.0005		<0.0005
2/10/2022				0.00025 (J)					
2/11/2022								<0.0005	
8/30/2022			<0.0005		<0.0005		<0.0005		
8/31/2022	0.00017 (J)	<0.0005		0.0002 (J)		<0.0025		<0.0005	<0.0005
2/7/2023			<0.0005		0.0011	0.00054	<0.0005		
2/8/2023		<0.0005		0.00022 (J)				<0.0005	<0.0005
2/9/2023	0.00012 (J)								

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/26/2023 11:07 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

YGWA-3I (bg)

5/1/2007	
9/11/2007	
3/20/2008	
8/27/2008	
3/3/2009	
11/18/2009	
3/3/2010	
9/8/2010	
3/10/2011	
9/8/2011	
3/5/2012	
9/10/2012	
2/6/2013	
8/12/2013	
2/5/2014	
8/5/2014	
2/4/2015	
8/3/2015	
2/16/2016	
6/1/2016	<0.0005
6/2/2016	
7/25/2016	<0.0005
7/26/2016	
8/30/2016	
8/31/2016	
9/1/2016	
9/13/2016	
9/14/2016	<0.0005
9/15/2016	
9/19/2016	
11/1/2016	<0.0005
11/2/2016	
11/4/2016	
11/14/2016	
11/15/2016	
11/28/2016	
12/15/2016	
1/10/2017	
1/11/2017	<0.0005
1/16/2017	
2/21/2017	
2/22/2017	
2/24/2017	
2/27/2017	
3/1/2017	<0.0005
3/2/2017	
3/3/2017	
3/8/2017	
4/26/2017	<0.0005
4/27/2017	
4/28/2017	
5/8/2017	

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/26/2023 11:07 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
5/9/2017	
5/26/2017	
6/27/2017	
6/28/2017	<0.0005
6/30/2017	
7/11/2017	
7/13/2017	
7/17/2017	
10/10/2017	
10/11/2017	
10/16/2017	
2/19/2018	
3/27/2018	
3/28/2018	<0.0005
3/29/2018	
4/2/2018	
4/4/2018	
8/6/2018	
9/19/2018	
9/20/2018	
2/25/2019	
2/26/2019	
2/27/2019	<0.0005
3/28/2019	
3/29/2019	
4/1/2019	<0.0005
6/12/2019	
8/19/2019	
8/20/2019	
9/24/2019	
9/25/2019	<0.0005
9/26/2019	
10/8/2019	
2/10/2020	
2/11/2020	<0.0005
2/12/2020	
3/17/2020	
3/18/2020	
3/19/2020	<0.0005
3/25/2020	
8/26/2020	
8/27/2020	
9/22/2020	
9/23/2020	5.9E-05 (J)
9/24/2020	
9/25/2020	
2/9/2021	
2/10/2021	<0.0005
2/11/2021	
2/12/2021	
3/1/2021	
3/2/2021	

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/26/2023 11:07 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
3/3/2021	<0.0005
3/4/2021	
8/19/2021	
8/20/2021	
8/27/2021	<0.0005
9/1/2021	
2/8/2022	
2/9/2022	<0.0005
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	<0.0005
2/7/2023	
2/8/2023	<0.0005
2/9/2023	

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/26/2023 11:07 AM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB
6/8/2016							<0.003
8/1/2016							0.0001 (J)
9/2/2016			0.0003 (J)				
9/20/2016							0.0001 (J)
11/8/2016							<0.003
11/14/2016			9E-05 (J)				
1/17/2017							0.0001 (J)
2/28/2017			0.0001 (J)				
3/8/2017							0.0001 (J)
5/2/2017							0.0001 (J)
5/9/2017			0.0002 (J)				
7/7/2017							0.0001 (J)
7/13/2017			0.0003 (J)				
9/22/2017			0.0003 (J)				
9/29/2017			0.0003 (J)				
10/6/2017			0.0003 (J)				
10/12/2017		0.0004 (J)					
11/21/2017		0.0004 (J)					
1/11/2018		0.0003 (J)					
2/20/2018		<0.003					
3/30/2018			<0.003				<0.003
4/3/2018		<0.003					
6/12/2018							0.00012 (J)
6/13/2018			0.00035 (J)				
6/29/2018		0.00033 (J)					
8/6/2018		0.0002 (J)					
8/30/2018	0.00052 (J)						
9/24/2018		0.00029 (J)					
9/26/2018			0.00032 (J)				0.00014 (J)
10/16/2018	0.00036 (J)						
3/5/2019							0.00016 (J)
3/6/2019			0.00029 (J)				
4/4/2019			0.00033 (J)				0.00015 (J)
9/26/2019	<0.003		0.00029 (J)				0.00014 (J)
3/25/2020	<0.003		0.00022 (J)				
3/26/2020							0.00016 (J)
9/23/2020							6.1E-05 (J)
9/24/2020	0.00033 (J)						
9/25/2020		0.00031 (J)					
10/7/2020			0.00014 (J)				
2/9/2021		0.00029 (J)					0.00013 (J)
2/10/2021	0.00025 (J)		9.9E-05 (J)				
3/3/2021							9.9E-05 (J)
3/4/2021	0.00025 (J)	0.00017 (J)	0.00016 (J)				
8/25/2021		0.00059					
9/1/2021	0.00045 (J)						0.00014 (J)
9/3/2021			0.00035 (J)	<0.0005			
2/10/2022	0.00055	0.001				0.0033	0.00016 (J)
2/11/2022			0.00043 (J)	<0.0005	5.9E-05 (J)		
8/31/2022	0.00061						
9/1/2022		0.0011	0.00053	<0.0005	<0.0005	0.0031	
2/8/2023		0.0011		<0.0005	<0.0005		

Time Series

Constituent: Boron (mg/L) Analysis Run 4/26/2023 11:07 AM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/6/2016							<0.04	<0.04	
6/7/2016						<0.04			<0.04
7/27/2016						0.008 (J)	<0.04	0.0059 (J)	<0.04
7/28/2016									
9/16/2016						0.0086 (J)		0.0079 (J)	
9/19/2016							<0.04		<0.04
11/2/2016									<0.04
11/3/2016						0.0077 (J)	<0.04	0.0082 (J)	
1/11/2017						0.0092 (J)	<0.04	0.0096 (J)	
1/13/2017									<0.04
3/1/2017							<0.04	<0.04	
3/2/2017						0.0095 (J)			
3/6/2017									<0.04
4/26/2017							<0.04	0.0091 (J)	<0.04
5/2/2017						<0.04			
6/28/2017							<0.04	0.0079 (J)	
6/29/2017						0.0074 (J)			<0.04
10/3/2017									
10/4/2017						0.0077 (J)		0.009 (J)	<0.04
10/5/2017							<0.04		
6/5/2018									
6/6/2018									0.0049 (J)
6/7/2018							<0.04		
6/11/2018						0.01 (J)		0.0093 (J)	
9/25/2018						0.0096 (J)	0.0046 (J)	0.007 (J)	<0.04
10/16/2018	0.2								
4/2/2019						0.0066 (J)			
4/3/2019							<0.04	0.0053 (J)	<0.04
9/24/2019									
9/25/2019						0.0081 (J)			<0.04
9/26/2019	0.092						0.0062 (J)	0.0072 (J)	
1/15/2020		0.031 (J)			8.7				
1/16/2020			6.8	1.9					
2/11/2020			4.5		7.8				
3/24/2020						0.0092 (J)	0.0054 (J)	0.01 (J)	<0.04
3/25/2020	0.018 (J)								
9/23/2020		0.026 (J)		2.5		0.0066 (J)	0.021 (J)	0.006 (J)	
9/24/2020	0.076 (J)				8.7				0.0094 (J)
3/3/2021	0.039 (J)	0.032 (J)		0.81		0.01 (J)	<0.04	0.0094 (J)	<0.04
3/4/2021					6.1				
8/25/2021				2.8					
8/26/2021					5.9			<0.04	
8/27/2021						0.011 (J)	<0.04		<0.04
9/1/2021	0.18	0.017 (J)							
2/9/2022						0.0098 (J)	<0.04	<0.04	<0.04
2/10/2022	0.36	0.022 (J)	7.7	3	4.9				
8/30/2022						0.013 (J)	<0.04	0.014 (J)	
8/31/2022	0.58								<0.04
9/1/2022		0.046	7.1	3.2	6.1				
2/7/2023						0.014 (J)	<0.04	<0.04	<0.04
2/8/2023		0.031 (J)		3	6.5				
2/9/2023	0.63		8.1						

Time Series

Constituent: Boron (mg/L) Analysis Run 4/26/2023 11:07 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-211 (bg)
6/6/2016	
6/7/2016	<0.04
7/27/2016	
7/28/2016	<0.04
9/16/2016	
9/19/2016	<0.04
11/2/2016	
11/3/2016	<0.04
1/11/2017	
1/13/2017	<0.04
3/1/2017	
3/2/2017	
3/6/2017	<0.04
4/26/2017	<0.04
5/2/2017	
6/28/2017	
6/29/2017	<0.04
10/3/2017	<0.04
10/4/2017	
10/5/2017	
6/5/2018	0.0092 (J)
6/6/2018	
6/7/2018	
6/11/2018	
9/25/2018	0.0054 (J)
10/16/2018	
4/2/2019	0.011 (J)
4/3/2019	
9/24/2019	0.018 (J)
9/25/2019	
9/26/2019	
1/15/2020	
1/16/2020	
2/11/2020	
3/24/2020	0.016 (J)
3/25/2020	
9/23/2020	
9/24/2020	0.013 (J)
3/3/2021	
3/4/2021	0.0079 (J)
8/25/2021	
8/26/2021	
8/27/2021	
9/1/2021	<0.04
2/9/2022	<0.04
2/10/2022	
8/30/2022	0.012 (J)
8/31/2022	
9/1/2022	
2/7/2023	<0.04
2/8/2023	
2/9/2023	

Time Series

Constituent: Boron (mg/L) Analysis Run 4/26/2023 11:07 AM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/2/2016			<0.04	<0.04	<0.04				
6/7/2016						0.99			
7/26/2016			0.0047 (J)	0.0052 (J)	<0.04				
7/28/2016						1.09			
8/30/2016									24.7
8/31/2016									
9/14/2016			<0.04	0.0071 (J)	0.01 (J)				
9/20/2016						1.35			
11/2/2016			<0.04	<0.04					
11/4/2016					<0.04				
11/8/2016						1.5			
11/16/2016									16.4
1/12/2017				0.0076 (J)	<0.04				
1/13/2017			<0.04						
1/16/2017						1.67			
2/24/2017									
2/27/2017									17.9
3/6/2017			<0.04						
3/7/2017				0.0089 (J)	<0.04				
3/9/2017						1.44			
5/1/2017			<0.04	0.0061 (J)					
5/2/2017					<0.04	1.2			
5/10/2017									20.4
6/27/2017				0.0079 (J)	<0.04				
6/29/2017			<0.04						
7/10/2017						1.12			
7/11/2017									25.2
10/3/2017				0.0094 (J)	<0.04				
10/5/2017			<0.04						
10/11/2017	0.0135 (J)					1.09			
10/12/2017		0.0401					19.3	12	20
11/20/2017	0.0251 (J)	0.156					21.8		
11/21/2017								12.1	
1/10/2018		0.15							
1/11/2018	0.0255 (J)							12.8	
1/12/2018							18.7		
2/19/2018		0.146						15.2	
2/20/2018	<0.04						18.6		
4/3/2018	0.033 (J)	0.12					20.9	14.5	
4/4/2018									22.7
6/6/2018				0.0098 (J)					
6/7/2018			0.0045 (J)		<0.04				
6/12/2018						0.9			
6/27/2018								14.1	
6/28/2018	0.053	0.16					22.7		
8/7/2018	0.024 (J)	0.12					19.1	11.9	
9/20/2018									20.3
9/24/2018	0.028 (J)	0.099					18.4	12.2	
9/26/2018			0.005 (J)	0.01 (J)	0.0057 (J)				
9/27/2018						0.71			
3/26/2019		0.096							
3/27/2019	0.017 (J)						16.7		20.3

Time Series

Constituent: Boron (mg/L) Analysis Run 4/26/2023 11:07 AM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
3/28/2019								7.1	
4/3/2019			0.0055 (J)	0.0076 (J)	0.0044 (J)				
4/4/2019						0.6			
9/24/2019				0.01 (J)	0.0049 (J)				
9/25/2019			<0.04						
9/27/2019						0.58			
10/9/2019	0.017 (J)	0.079					13.5	8.6	16.6
3/24/2020		0.088 (J)		0.011 (J)	0.0068 (J)				
3/25/2020	0.043 (J)		0.011 (J)				9.3	7.9	15.5
3/26/2020						0.94			
9/22/2020			<0.04	0.0079 (J)	0.0053 (J)				
9/24/2020	0.037 (J)	0.087 (J)				1.1			15.2
9/25/2020							8	6	
3/2/2021				0.0068 (J)	0.011 (J)				
3/3/2021			0.0056 (J)						
3/4/2021	0.033 (J)	0.078				1.2	6.4	4	14.8
8/25/2021						1.3			13.5
8/26/2021	0.095		<0.04	0.009 (J)	<0.04		6.1	3.3	
9/3/2021		0.077							
9/27/2021									
2/8/2022	0.13	0.074						4	
2/10/2022				0.011 (J)	<0.04	1.5	5.4		14.4
2/11/2022			<0.04						
8/30/2022				0.0098 (J)	<0.04				
8/31/2022	0.14	0.062	<0.04						
9/1/2022						1.5	4.8	3.6	13.4
2/7/2023	0.13			<0.04					
2/8/2023		0.057				1.6	4.1	3.3	14.5
2/9/2023			<0.04		<0.04				

Time Series

Constituent: Boron (mg/L) Analysis Run 4/26/2023 11:07 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

YGWC-43

6/2/2016	
6/7/2016	
7/26/2016	
7/28/2016	
8/30/2016	
8/31/2016	0.169
9/14/2016	
9/20/2016	
11/2/2016	
11/4/2016	
11/8/2016	
11/16/2016	0.406
1/12/2017	
1/13/2017	
1/16/2017	
2/24/2017	0.725
2/27/2017	
3/6/2017	
3/7/2017	
3/9/2017	
5/1/2017	
5/2/2017	
5/10/2017	0.955
6/27/2017	
6/29/2017	
7/10/2017	
7/11/2017	0.994
10/3/2017	
10/5/2017	
10/11/2017	
10/12/2017	1.15
11/20/2017	
11/21/2017	
1/10/2018	
1/11/2018	
1/12/2018	
2/19/2018	
2/20/2018	
4/3/2018	
4/4/2018	1.2
6/6/2018	
6/7/2018	
6/12/2018	
6/27/2018	
6/28/2018	
8/7/2018	
9/20/2018	2.1
9/24/2018	
9/26/2018	
9/27/2018	
3/26/2019	
3/27/2019	

Time Series

Constituent: Boron (mg/L) Analysis Run 4/26/2023 11:07 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
3/28/2019	1.8
4/3/2019	
4/4/2019	
9/24/2019	
9/25/2019	
9/27/2019	
10/9/2019	2.7
3/24/2020	
3/25/2020	2.4
3/26/2020	
9/22/2020	
9/24/2020	
9/25/2020	3.9
3/2/2021	
3/3/2021	
3/4/2021	3.6
8/25/2021	
8/26/2021	
9/3/2021	
9/27/2021	0.64
2/8/2022	2.3
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	
9/1/2022	2.6
2/7/2023	
2/8/2023	2.5
2/9/2023	

Time Series

Constituent: Boron (mg/L) Analysis Run 4/26/2023 11:07 AM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
6/1/2016					<0.04	<0.04			
6/2/2016				<0.1				<0.04	<0.04
7/25/2016						<0.04		<0.04	
7/26/2016				0.0177 (J)	0.0055 (J)				0.0097 (J)
8/30/2016		0.0166 (J)							
8/31/2016			0.0315 (J)						
9/1/2016	0.0113 (J)								
9/13/2016					<0.04	<0.04			
9/14/2016							<0.04		
9/15/2016				0.0214 (J)					0.0102 (J)
9/19/2016								<0.04	
11/1/2016					0.0086 (J)			<0.04	<0.04
11/2/2016				<0.1					
11/4/2016						<0.04	<0.04		
11/14/2016		0.0166 (J)							
11/15/2016	0.0074 (J)								
11/28/2016			0.0095 (J)						
12/15/2016							0.0107 (J)		
1/10/2017				0.0198 (J)					
1/11/2017					0.0074 (J)				<0.04
1/16/2017						<0.04	<0.04	<0.04	
2/21/2017								<0.04	
2/22/2017			<0.04						
2/24/2017		0.0145 (J)							
2/27/2017	<0.04								
3/1/2017									
3/2/2017					0.008 (J)	<0.04			0.0084 (J)
3/3/2017							<0.04		
3/8/2017				0.0189 (J)					
4/26/2017				0.0161 (J)				<0.04	<0.04
4/27/2017					0.0066 (J)	<0.04			
4/28/2017							<0.04		
5/8/2017		0.0141 (J)	0.0084 (J)						
5/9/2017	<0.04								
5/26/2017							<0.04		
6/27/2017					0.0087 (J)	0.006 (J)			
6/28/2017							<0.04		<0.04
6/30/2017				0.0173 (J)				<0.04	
7/11/2017		0.0131 (J)							
7/13/2017	0.0093 (J)								
7/17/2017			0.0092 (J)						
10/3/2017					0.0072 (J)	0.0071 (J)	<0.04		
10/4/2017								<0.04	<0.04
10/5/2017				0.0173 (J)					
10/10/2017		0.0124 (J)							
10/11/2017	<0.04								
10/16/2017			<0.04						
2/19/2018			<0.04						
4/2/2018		0.013 (J)							
4/4/2018	0.0041 (J)								
6/5/2018					0.0052 (J)				
6/6/2018						<0.04			

Time Series

Constituent: Boron (mg/L) Analysis Run 4/26/2023 11:07 AM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
6/7/2018							<0.04		0.004 (J)
6/8/2018				0.013 (J)					
6/11/2018								0.014 (J)	
8/6/2018			<0.04						
9/19/2018		0.012 (J)							
9/20/2018	0.0042 (J)								
10/1/2018				0.015 (J)	0.021 (J)	0.0049 (J)	<0.04		<0.04
10/2/2018								<0.04	
2/25/2019			<0.04						
3/27/2019		0.013 (J)							
3/28/2019	<0.04				0.005 (J)	<0.04			
3/29/2019				0.014 (J)			0.0065 (J)		
4/1/2019								<0.04	<0.04
6/12/2019			<0.04						
9/24/2019					0.0064 (J)	0.0055 (J)	0.0076 (J)		
9/25/2019				0.018 (J)				<0.04	0.0054 (J)
9/26/2019	<0.04								
10/8/2019		0.012 (J)	<0.04						
3/17/2020		0.023 (J)	0.0051 (J)						
3/18/2020				0.02 (J)		0.0087 (J)			
3/19/2020					0.0085 (J)		0.0073 (J)	0.0052 (J)	0.0073 (J)
3/25/2020	0.012 (J)								
9/22/2020		0.0076 (J)	0.0079 (J)						
9/23/2020					<0.04	<0.04	<0.04		0.012 (J)
9/24/2020	0.062 (J)							0.0075 (J)	
9/25/2020				0.02 (J)					
3/1/2021		0.013 (J)						<0.04	
3/2/2021			<0.04	0.017 (J)					
3/3/2021					<0.04	<0.04	<0.04		<0.04
3/4/2021	<0.04								
8/19/2021		0.011 (J)		0.018 (J)	<0.04	<0.04		<0.04	<0.04
8/20/2021			<0.04						
8/27/2021							<0.04		
9/1/2021	<0.04								
2/8/2022	<0.04	0.015 (J)	<0.04						
2/9/2022					<0.04	<0.04	<0.04		0.01 (J)
2/10/2022				0.02 (J)					
2/11/2022								<0.04	
8/30/2022			<0.04		<0.04		<0.04		
8/31/2022	0.011 (J)	0.0091 (J)		0.015 (J)		<0.04		<0.04	<0.04
2/7/2023			<0.04		<0.04	<0.04	<0.04		
2/8/2023		0.011 (J)		0.015 (J)				<0.04	<0.04
2/9/2023	0.014 (J)								

Time Series

Constituent: Boron (mg/L) Analysis Run 4/26/2023 11:07 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
6/1/2016	<0.04
6/2/2016	
7/25/2016	<0.04
7/26/2016	
8/30/2016	
8/31/2016	
9/1/2016	
9/13/2016	
9/14/2016	<0.04
9/15/2016	
9/19/2016	
11/1/2016	<0.04
11/2/2016	
11/4/2016	
11/14/2016	
11/15/2016	
11/28/2016	
12/15/2016	
1/10/2017	
1/11/2017	<0.04
1/16/2017	
2/21/2017	
2/22/2017	
2/24/2017	
2/27/2017	
3/1/2017	<0.04
3/2/2017	
3/3/2017	
3/8/2017	
4/26/2017	<0.04
4/27/2017	
4/28/2017	
5/8/2017	
5/9/2017	
5/26/2017	
6/27/2017	
6/28/2017	<0.04
6/30/2017	
7/11/2017	
7/13/2017	
7/17/2017	
10/3/2017	
10/4/2017	<0.04
10/5/2017	
10/10/2017	
10/11/2017	
10/16/2017	
2/19/2018	
4/2/2018	
4/4/2018	
6/5/2018	
6/6/2018	

Time Series

Constituent: Boron (mg/L) Analysis Run 4/26/2023 11:07 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
6/7/2018	
6/8/2018	<0.04
6/11/2018	
8/6/2018	
9/19/2018	
9/20/2018	
10/1/2018	<0.04
10/2/2018	
2/25/2019	
3/27/2019	
3/28/2019	
3/29/2019	
4/1/2019	<0.04
6/12/2019	
9/24/2019	
9/25/2019	<0.04
9/26/2019	
10/8/2019	
3/17/2020	
3/18/2020	
3/19/2020	0.0053 (J)
3/25/2020	
9/22/2020	
9/23/2020	0.0073 (J)
9/24/2020	
9/25/2020	
3/1/2021	
3/2/2021	
3/3/2021	<0.04
3/4/2021	
8/19/2021	
8/20/2021	
8/27/2021	<0.04
9/1/2021	
2/8/2022	
2/9/2022	<0.04
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	<0.04
2/7/2023	
2/8/2023	<0.04
2/9/2023	

Time Series

Constituent: Boron (mg/L) Analysis Run 4/26/2023 11:07 AM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB
6/8/2016							<0.04
8/1/2016							<0.04
9/2/2016			0.133				
9/20/2016							<0.04
11/8/2016							<0.04
11/14/2016			0.287				
1/17/2017							<0.04
2/28/2017			0.215				
3/8/2017							<0.04
5/2/2017							0.0099 (J)
5/9/2017			0.233				
7/7/2017							0.0076 (J)
7/13/2017			0.262				
9/22/2017			0.238				
9/29/2017			0.235				
10/5/2017							<0.04
10/6/2017			0.256				
10/11/2017			0.245				
10/12/2017		15.4					
11/21/2017		17.2					
1/11/2018		15.8					
2/20/2018		19.5					
4/3/2018		17.5					
6/12/2018							0.018 (J)
6/13/2018			0.25				
6/29/2018		20.6					
8/6/2018		15.9					
8/30/2018	0.04						
9/24/2018		16.5					
9/26/2018			0.24				0.0055 (J)
10/16/2018	0.031 (J)						
4/4/2019			0.22				<0.04
9/26/2019	<0.04		0.13				0.0068 (J)
3/25/2020	0.071 (J)		0.11				
3/26/2020							0.033 (J)
9/23/2020							<0.04
9/24/2020	0.017 (J)						
9/25/2020		14.1					
10/7/2020			0.018 (J)				
3/3/2021							<0.04
3/4/2021	0.012 (J)	12.4	0.0088 (J)				
8/25/2021		10.3					
9/1/2021	0.044						<0.04
9/3/2021			0.012 (J)	1.6			
2/10/2022	0.054	9.5				6.8	<0.04
2/11/2022			0.019 (J)	0.44	0.84		
8/31/2022	0.052						
9/1/2022		9.9	0.067	0.83	1.2	7.2	
2/8/2023		8.2		0.7	1.2		
2/9/2023	0.076		0.028 (J)			6.9	
2/10/2023							<0.04

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/26/2023 11:07 AM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/6/2016							<0.0005	<0.0005	<0.0005
6/7/2016						<0.0005			<0.0005
7/27/2016						<0.0005	<0.0005	<0.0005	<0.0005
7/28/2016									
9/16/2016						<0.0005		<0.0005	
9/19/2016							<0.0005		<0.0005
11/2/2016									<0.0005
11/3/2016						<0.0005	<0.0005	<0.0005	
1/11/2017						0.0001 (J)	<0.0005	0.0001 (J)	
1/13/2017									<0.0005
3/1/2017							<0.0005	<0.0005	
3/2/2017						<0.0005			
3/6/2017									<0.0005
4/26/2017							<0.0005	<0.0005	<0.0005
5/2/2017						<0.0005			
6/28/2017							<0.0005	<0.0005	
6/29/2017						<0.0005			<0.0005
3/28/2018						<0.0005	<0.0005	<0.0005	
3/29/2018									<0.0005
6/5/2018									
6/6/2018									<0.0005
6/7/2018							<0.0005		
6/11/2018						<0.0005		<0.0005	
9/25/2018						<0.0005	<0.0005	<0.0005	<0.0005
10/16/2018	0.00014 (J)								
3/5/2019						<0.0005		<0.0005	<0.0005
3/6/2019							<0.0005		
4/2/2019						<0.0005			
4/3/2019							<0.0005	<0.0005	<0.0005
9/24/2019									
9/25/2019						<0.0005			<0.0005
9/26/2019	<0.0005						<0.0005	<0.0005	
2/11/2020						<0.0005	<0.0005	<0.0005	
2/12/2020									<0.0005
3/24/2020						<0.0005	<0.0005	<0.0005	<0.0005
3/25/2020	<0.0005								
9/23/2020		<0.0005		<0.0005		<0.0005	<0.0005	<0.0005	
9/24/2020	0.00017 (J)				0.00018 (J)				<0.0005
2/9/2021	0.00013 (J)	<0.0005		<0.0005	0.00025 (J)		<0.0005	<0.0005	<0.0005
3/3/2021	<0.0005	<0.0005		<0.0005		<0.0005	<0.0005	<0.0005	<0.0005
3/4/2021					0.00018 (J)				
8/25/2021				<0.0005					
8/26/2021					0.00021 (J)			<0.0005	
8/27/2021						<0.0005	<0.0005		<0.0005
9/1/2021	0.00023 (J)	<0.0005							
2/9/2022						<0.0005	<0.0005	<0.0005	<0.0005
2/10/2022	0.00018 (J)	<0.0005	<0.0005	<0.0005	0.00022 (J)		<0.0005	<0.0005	
8/30/2022						<0.0005	<0.0005	<0.0005	
8/31/2022	0.00015 (J)								<0.0005
9/1/2022		0.00015 (J)	<0.0005	<0.0005	0.00023 (J)				
2/7/2023						<0.0005	<0.0005	<0.0005	<0.0005
2/8/2023		<0.0005		<0.0005	0.00046 (J)				

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/26/2023 11:07 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
2/9/2023	<0.0005		<0.0005						

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/26/2023 11:07 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-211 (bg)
6/6/2016	
6/7/2016	<0.0005
7/27/2016	
7/28/2016	<0.0005
9/16/2016	
9/19/2016	<0.0005
11/2/2016	
11/3/2016	<0.0005
1/11/2017	
1/13/2017	<0.0005
3/1/2017	
3/2/2017	
3/6/2017	<0.0005
4/26/2017	<0.0005
5/2/2017	
6/28/2017	
6/29/2017	<0.0005
3/28/2018	
3/29/2018	<0.0005
6/5/2018	<0.0005
6/6/2018	
6/7/2018	
6/11/2018	
9/25/2018	9.6E-05 (J)
10/16/2018	
3/5/2019	<0.0005
3/6/2019	
4/2/2019	<0.0005
4/3/2019	
9/24/2019	<0.0005
9/25/2019	
9/26/2019	
2/11/2020	
2/12/2020	<0.0005
3/24/2020	<0.0005
3/25/2020	
9/23/2020	
9/24/2020	<0.0005
2/9/2021	0.00041 (J)
3/3/2021	
3/4/2021	<0.0005
8/25/2021	
8/26/2021	
8/27/2021	
9/1/2021	<0.0005
2/9/2022	<0.0005
2/10/2022	
8/30/2022	<0.0005
8/31/2022	
9/1/2022	
2/7/2023	0.00012 (J)
2/8/2023	

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/26/2023 11:07 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

YGWA-211 (bg)

2/9/2023

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/26/2023 11:07 AM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-41 (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/2/2016			<0.0005	<0.0005	<0.0005				
6/7/2016						<0.0005			
7/26/2016			<0.0005	<0.0005	<0.0005				
7/28/2016						<0.0005			
8/30/2016									<0.0005
8/31/2016									
9/14/2016			<0.0005	<0.0005	<0.0005				
9/20/2016						<0.0005			
11/2/2016			<0.0005	<0.0005					
11/4/2016					<0.0005				
11/8/2016						7E-05 (J)			
11/16/2016									<0.0005
1/12/2017				<0.0005	9E-05 (J)				
1/13/2017			<0.0005						
1/16/2017						<0.0005			
2/24/2017									
2/27/2017									<0.0005
3/6/2017			<0.0005						
3/7/2017				<0.0005	<0.0005				
3/9/2017						<0.0005			
5/1/2017			<0.0005	<0.0005					
5/2/2017					<0.0005	<0.0005			
5/10/2017									0.0002 (J)
6/27/2017				<0.0005	<0.0005				
6/29/2017			<0.0005						
7/10/2017						<0.0005			
7/11/2017									0.0005 (J)
10/11/2017	<0.0025								
10/12/2017		<0.0005					0.003	0.0002 (J)	0.0006 (J)
11/20/2017	<0.0025	<0.0005					0.0027		
11/21/2017								0.0003 (J)	
1/10/2018		<0.0005							
1/11/2018	<0.0025							0.0002 (J)	
1/12/2018							0.0029		
2/19/2018		<0.0005						<0.0005	
2/20/2018	<0.0025						0.0029		
3/29/2018			<0.0005	<0.0005	<0.0005				
3/30/2018						<0.0005			
4/3/2018	<0.0025	<0.0005					0.0027	<0.0005	
4/4/2018									<0.0005
6/6/2018				<0.0005					
6/7/2018			<0.0005		<0.0005				
6/12/2018						<0.0005			
6/27/2018								0.00025 (J)	
6/28/2018	<0.0025	<0.0005					0.0029		
8/7/2018	<0.0025	<0.0005					0.0027	0.00024 (J)	
9/20/2018									0.0002 (J)
9/24/2018	<0.0025	<0.0005					0.0027	0.00021 (J)	
9/26/2018			<0.0005	<0.0005	<0.0005				
9/27/2018						<0.0005			
3/4/2019			<0.0005	<0.0005	<0.0005				
3/6/2019						<0.0005			

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/26/2023 11:07 AM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-41 (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
4/3/2019			<0.0005	<0.0005	<0.0005				
4/4/2019						<0.0005			
8/21/2019	<0.0025	<0.0005							
8/22/2019							0.0023 (J)	0.00015 (J)	0.00017 (J)
9/24/2019				<0.0005	<0.0005				
9/25/2019			<0.0005						
9/27/2019						<0.0005			
10/9/2019	<0.0025	<0.0005					0.0021 (J)	0.00017 (J)	0.00025 (J)
2/12/2020	<0.0025	<0.0005	<0.0005	<0.0005	<0.0005				
3/24/2020		<0.0005		<0.0005	<0.0005				
3/25/2020	<0.0025		<0.0005				0.0018 (J)	0.00018 (J)	0.00021 (J)
3/26/2020						<0.0005			
9/22/2020			<0.0005	<0.0005	<0.0005				
9/24/2020	<0.0025	<0.0005				<0.0005			0.00014 (J)
9/25/2020							0.0015 (J)	0.00014 (J)	
2/8/2021				<0.0005	<0.0005				
2/9/2021			<0.0005			<0.0005	0.0014 (J)		
2/10/2021	0.00019 (J)	<0.0005						<0.0005	<0.0005
3/2/2021				<0.0005	<0.0005				
3/3/2021			<0.0005						
3/4/2021	0.0003 (J)	<0.0005				<0.0005	0.0013	<0.0005	<0.0005
8/25/2021						<0.0005			<0.0005
8/26/2021	0.00049 (J)		<0.0005	<0.0005	<0.0005		0.0011	<0.0005	
9/3/2021		<0.0005							
9/27/2021									
2/8/2022	0.00063	<0.0005						0.00012 (J)	
2/10/2022				<0.0005	<0.0005	<0.0005	0.0011		<0.0005
2/11/2022			<0.0005						
8/30/2022				<0.0005	<0.0005				
8/31/2022	0.00044 (J)	<0.0005	<0.0005						
9/1/2022						<0.0005	0.00094	<0.0005	<0.0005
2/7/2023	0.00014 (J)			<0.0005					
2/8/2023		<0.0005				<0.0005	0.00068	<0.0005	0.00014 (J)
2/9/2023			<0.0005		<0.0005				

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/26/2023 11:07 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

YGWC-43

6/2/2016	
6/7/2016	
7/26/2016	
7/28/2016	
8/30/2016	
8/31/2016	<0.0005
9/14/2016	
9/20/2016	
11/2/2016	
11/4/2016	
11/8/2016	
11/16/2016	<0.0005
1/12/2017	
1/13/2017	
1/16/2017	
2/24/2017	<0.0005
2/27/2017	
3/6/2017	
3/7/2017	
3/9/2017	
5/1/2017	
5/2/2017	
5/10/2017	<0.0005
6/27/2017	
6/29/2017	
7/10/2017	
7/11/2017	<0.0005
10/11/2017	
10/12/2017	<0.0005
11/20/2017	
11/21/2017	
1/10/2018	
1/11/2018	
1/12/2018	
2/19/2018	
2/20/2018	
3/29/2018	
3/30/2018	
4/3/2018	
4/4/2018	<0.0005
6/6/2018	
6/7/2018	
6/12/2018	
6/27/2018	
6/28/2018	
8/7/2018	
9/20/2018	<0.0005
9/24/2018	
9/26/2018	
9/27/2018	
3/4/2019	
3/6/2019	

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/26/2023 11:07 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
4/3/2019	
4/4/2019	
8/21/2019	<0.0005
8/22/2019	
9/24/2019	
9/25/2019	
9/27/2019	
10/9/2019	<0.0005
2/12/2020	
3/24/2020	
3/25/2020	<0.0005
3/26/2020	
9/22/2020	
9/24/2020	
9/25/2020	<0.0005
2/8/2021	
2/9/2021	<0.0005
2/10/2021	
3/2/2021	
3/3/2021	
3/4/2021	<0.0005
8/25/2021	
8/26/2021	
9/3/2021	
9/27/2021	<0.0005
2/8/2022	<0.0005
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	
9/1/2022	<0.0005
2/7/2023	
2/8/2023	<0.0005
2/9/2023	

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/26/2023 11:07 AM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
5/1/2007			<0.0005						
9/11/2007			<0.0005						
3/20/2008			<0.0005						
8/27/2008			<0.0005						
3/3/2009			<0.0005						
11/18/2009			<0.0005						
3/3/2010			<0.0005						
9/8/2010			<0.0005						
3/10/2011			<0.0005						
9/8/2011			<0.0005						
3/5/2012			<0.0005						
9/10/2012			<0.0005						
2/6/2013			<0.0005						
8/12/2013			<0.0005						
2/5/2014			<0.0005						
8/5/2014			<0.0005						
2/4/2015			<0.0005						
8/3/2015			<0.0005						
2/16/2016			<0.0005						
6/1/2016					<0.0005	<0.0005			
6/2/2016				<0.0005				<0.0005	<0.0005
7/25/2016						<0.0005		<0.0005	
7/26/2016				<0.0005	<0.0005				<0.0005
8/30/2016		0.0001 (J)							
8/31/2016			<0.0005						
9/1/2016	<0.0005								
9/13/2016					<0.0005	<0.0005			
9/14/2016							<0.0005		
9/15/2016				<0.0005					<0.0005
9/19/2016								<0.0005	
11/1/2016					<0.0005			<0.0005	<0.0005
11/2/2016				<0.0005					
11/4/2016						<0.0005	<0.0005		
11/14/2016		0.0001 (J)							
11/15/2016	<0.0005								
11/28/2016			<0.0005						
12/15/2016							<0.0005		
1/10/2017				<0.0005					
1/11/2017					0.0002 (J)				0.0001 (J)
1/16/2017						<0.0005	<0.0005	<0.0005	
2/21/2017								<0.0005	
2/22/2017			<0.0005						
2/24/2017		9E-05 (J)							
2/27/2017	7E-05 (J)								
3/1/2017									
3/2/2017					<0.0005	<0.0005			<0.0005
3/3/2017							<0.0005		
3/8/2017				7E-05 (J)					
4/26/2017				<0.0005				<0.0005	<0.0005
4/27/2017					<0.0005	<0.0005			
4/28/2017							<0.0005		
5/8/2017		0.0001 (J)	<0.0005						

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/26/2023 11:07 AM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
5/9/2017	<0.0005								
5/26/2017							<0.0005		
6/27/2017					<0.0005	<0.0005			
6/28/2017							<0.0005		<0.0005
6/30/2017				<0.0005				<0.0005	
7/11/2017		<0.0005							
7/13/2017	<0.0005								
7/17/2017			<0.0005						
10/10/2017		<0.0005							
10/11/2017	<0.0005								
10/16/2017			<0.0005						
2/19/2018			<0.0005						
3/27/2018				<0.0005		<0.0005		<0.0005	
3/28/2018							<0.0005		<0.0005
3/29/2018					<0.0005				
4/2/2018		<0.0005							
4/4/2018	<0.0005								
8/6/2018			<0.0005						
9/19/2018		<0.0005							
9/20/2018	<0.0005								
2/25/2019			<0.0005						
2/26/2019				<0.0005				<0.0005	
2/27/2019					<0.0005	<0.0005	<0.0005		<0.0005
3/28/2019					<0.0005	<0.0005			
3/29/2019				<0.0005			<0.0005		
4/1/2019								<0.0005	<0.0005
6/12/2019			<0.0005						
8/19/2019			<0.0005						
8/20/2019		<0.0005							
9/24/2019				<0.0005	<0.0005	<0.0005	<0.0005		
9/25/2019				<0.0005				<0.0005	<0.0005
9/26/2019	<0.0005								
10/8/2019		<0.0005	<0.0005						
2/10/2020					<0.0005	<0.0005			
2/11/2020							<0.0005		
2/12/2020				<0.0005				<0.0005	<0.0005
3/17/2020		<0.0005	<0.0005						
3/18/2020				<0.0005		<0.0005			
3/19/2020					<0.0005		<0.0005	<0.0005	<0.0005
3/25/2020	<0.0005								
8/26/2020			<0.0005						
8/27/2020		<0.0005							
9/22/2020			<0.0005						
9/23/2020					<0.0005	<0.0005	<0.0005		<0.0005
9/24/2020	<0.0005							<0.0005	
9/25/2020				<0.0005					
2/9/2021	<0.0005								
2/10/2021				<0.0005			<0.0005		<0.0005
2/11/2021								<0.0005	
2/12/2021					<0.0005	<0.0005			
3/1/2021								<0.0005	
3/2/2021			<0.0005	<0.0005					

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/26/2023 11:07 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
3/3/2021					<0.0005	<0.0005	<0.0005		<0.0005
3/4/2021	<0.0005								
8/19/2021		<0.0005		<0.0005	<0.0005	<0.0005		<0.0005	<0.0005
8/20/2021			<0.0005						
8/27/2021							<0.0005		
9/1/2021	<0.0005								
2/8/2022	<0.0005	<0.0005	<0.0005						
2/9/2022					<0.0005	<0.0005	<0.0005		<0.0005
2/10/2022				<0.0005					
2/11/2022								<0.0005	
8/30/2022			<0.0005		<0.0005		<0.0005		
8/31/2022	<0.0005	<0.0005		<0.0005		<0.0005		<0.0005	<0.0005
2/7/2023			0.00012 (J)		<0.0005	<0.0005	<0.0005		
2/8/2023		0.00032 (J)		<0.0005				<0.0005	<0.0005
2/9/2023	<0.0005								

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/26/2023 11:07 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

YGWA-3I (bg)

5/1/2007	
9/11/2007	
3/20/2008	
8/27/2008	
3/3/2009	
11/18/2009	
3/3/2010	
9/8/2010	
3/10/2011	
9/8/2011	
3/5/2012	
9/10/2012	
2/6/2013	
8/12/2013	
2/5/2014	
8/5/2014	
2/4/2015	
8/3/2015	
2/16/2016	
6/1/2016	<0.0005
6/2/2016	
7/25/2016	<0.0005
7/26/2016	
8/30/2016	
8/31/2016	
9/1/2016	
9/13/2016	
9/14/2016	<0.0005
9/15/2016	
9/19/2016	
11/1/2016	<0.0005
11/2/2016	
11/4/2016	
11/14/2016	
11/15/2016	
11/28/2016	
12/15/2016	
1/10/2017	
1/11/2017	8E-05 (J)
1/16/2017	
2/21/2017	
2/22/2017	
2/24/2017	
2/27/2017	
3/1/2017	<0.0005
3/2/2017	
3/3/2017	
3/8/2017	
4/26/2017	<0.0005
4/27/2017	
4/28/2017	
5/8/2017	

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/26/2023 11:07 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

YGWA-3I (bg)

5/9/2017	
5/26/2017	
6/27/2017	
6/28/2017	<0.0005
6/30/2017	
7/11/2017	
7/13/2017	
7/17/2017	
10/10/2017	
10/11/2017	
10/16/2017	
2/19/2018	
3/27/2018	
3/28/2018	<0.0005
3/29/2018	
4/2/2018	
4/4/2018	
8/6/2018	
9/19/2018	
9/20/2018	
2/25/2019	
2/26/2019	
2/27/2019	<0.0005
3/28/2019	
3/29/2019	
4/1/2019	<0.0005
6/12/2019	
8/19/2019	
8/20/2019	
9/24/2019	
9/25/2019	<0.0005
9/26/2019	
10/8/2019	
2/10/2020	
2/11/2020	<0.0005
2/12/2020	
3/17/2020	
3/18/2020	
3/19/2020	<0.0005
3/25/2020	
8/26/2020	
8/27/2020	
9/22/2020	
9/23/2020	<0.0005
9/24/2020	
9/25/2020	
2/9/2021	
2/10/2021	<0.0005
2/11/2021	
2/12/2021	
3/1/2021	
3/2/2021	

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/26/2023 11:07 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
3/3/2021	<0.0005
3/4/2021	
8/19/2021	
8/20/2021	
8/27/2021	<0.0005
9/1/2021	
2/8/2022	
2/9/2022	<0.0005
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	<0.0005
2/7/2023	
2/8/2023	0.00013 (J)
2/9/2023	

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/26/2023 11:07 AM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB
6/8/2016							<0.0005
8/1/2016							<0.0005
9/2/2016			<0.0005				
9/20/2016							<0.0005
11/8/2016							<0.0005
11/14/2016			9E-05 (J)				
1/17/2017							<0.0005
2/28/2017			0.0001 (J)				
3/8/2017							<0.0005
5/2/2017							<0.0005
5/9/2017			0.0002 (J)				
7/7/2017							<0.0005
7/13/2017			0.0002 (J)				
9/22/2017			0.0002 (J)				
9/29/2017			0.0002 (J)				
10/6/2017			0.0002 (J)				
10/12/2017		0.0002 (J)					
11/21/2017		0.0002 (J)					
1/11/2018		0.0004 (J)					
2/20/2018		<0.001					
3/30/2018			<0.0005				<0.0005
4/3/2018		<0.001					
6/12/2018							<0.0005
6/13/2018			0.00019 (J)				
6/29/2018		0.00099 (J)					
8/6/2018		0.00063 (J)					
9/24/2018		0.00069 (J)					
9/26/2018			0.00018 (J)				<0.0005
10/16/2018	<0.0005						
3/5/2019							<0.0005
3/6/2019			0.00015 (J)				
4/4/2019			0.00019 (J)				<0.0005
9/26/2019	<0.0005		0.00017 (J)				<0.0005
3/25/2020	0.00016 (J)		0.00019 (J)				
3/26/2020							<0.0005
9/23/2020							<0.0005
9/24/2020	<0.0005						
9/25/2020		0.00039 (J)					
10/7/2020			0.00012 (J)				
2/9/2021		0.00042 (J)					<0.0005
2/10/2021	<0.0005		<0.0005				
3/3/2021							<0.0005
3/4/2021	<0.0005	0.00028 (J)	<0.0005				
8/25/2021		0.00094					
9/1/2021	<0.0005						<0.0005
9/3/2021			<0.0005	<0.0005			
2/10/2022	<0.0005	0.00093				0.0019	<0.0005
2/11/2022			<0.0005	<0.0005	<0.0005		
8/31/2022	0.00011 (J)						
9/1/2022		0.0009	<0.0005	<0.0005	<0.0005	0.0017	
2/8/2023		0.00076	<0.0005	<0.0005	<0.0005		
2/9/2023	0.00025 (J)		<0.0005			0.0018	

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/26/2023 11:07 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB
2/10/2023							<0.0005

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/6/2016							6.2	1.4	
6/7/2016						2.2			2.3
7/27/2016						2	4.73	1.19	2.08
7/28/2016									
9/16/2016						1.97		1.5	
9/19/2016							4.76		1.97
11/2/2016									2.13
11/3/2016						1.99	5.25	1.31	
1/11/2017						2.28	4.74	1.25	
1/13/2017									2.45
3/1/2017							5.37	1.26	
3/2/2017						2.15			
3/6/2017									2.48
4/26/2017							4.28	1.05	2.3
5/2/2017						1.95			
6/28/2017							4.95	1.06	
6/29/2017						2.02			2.54
10/3/2017									
10/4/2017						2.03		1.1	2.25
10/5/2017							5.28		
6/5/2018									
6/6/2018									2.3
6/7/2018							4.8		
6/11/2018						2.1		1.4	
9/25/2018						2.1	4.6	1	2.3
10/16/2018	14.5 (J)								
4/2/2019						2.5			
4/3/2019							5.3	1.2	2.9
9/24/2019									
9/25/2019						2.6			2.4
9/26/2019	9.3						4.9	1.1	
3/24/2020						2.7	5.3	1	2.6
3/25/2020	4.5								
9/23/2020		1.7		10.5		2.6	5.2	0.91 (J)	
9/24/2020	4.8				61.3				2.6
3/3/2021	6.9	1.5		20.6		2.5	5.2	0.96 (J)	2.4
3/4/2021					53.8				
8/25/2021				11					
8/26/2021					45			0.98 (J)	
8/27/2021						2.7	5.1		2.4
9/1/2021	16.8	1.4							
9/3/2021			42.5						
2/9/2022						2.8	5.1	0.87 (J)	2.3
2/10/2022	21.5	1.3	29.4	11.6	40.8				
8/30/2022						3	5.7	0.77 (J)	
8/31/2022	27								2.4
9/1/2022		1.4	34.4	11.1	43.7				
2/7/2023						2.9	5.5	0.79 (J)	2.4
2/8/2023		1.2		12	52.3				
2/9/2023	31.7		33						

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/26/2023 11:07 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-211 (bg)
6/6/2016	
6/7/2016	3.7
7/27/2016	
7/28/2016	3.15
9/16/2016	
9/19/2016	3.17
11/2/2016	
11/3/2016	3.4
1/11/2017	
1/13/2017	4.98
3/1/2017	
3/2/2017	
3/6/2017	6.28
4/26/2017	6.65
5/2/2017	
6/28/2017	
6/29/2017	6.04
10/3/2017	8.28
10/4/2017	
10/5/2017	
6/5/2018	9.1
6/6/2018	
6/7/2018	
6/11/2018	
9/25/2018	10.4 (J)
10/16/2018	
4/2/2019	8.8
4/3/2019	
9/24/2019	7.7
9/25/2019	
9/26/2019	
3/24/2020	6
3/25/2020	
9/23/2020	
9/24/2020	7.8
3/3/2021	
3/4/2021	8.7
8/25/2021	
8/26/2021	
8/27/2021	
9/1/2021	9.5
9/3/2021	
2/9/2022	9.8
2/10/2022	
8/30/2022	7.3
8/31/2022	
9/1/2022	
2/7/2023	7.5
2/8/2023	
2/9/2023	

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-41 (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/2/2016			8.8	33	2.4				
6/7/2016						9.6			
7/26/2016			7.69	32.3	2.12				
7/28/2016						7.87			
8/30/2016									133
8/31/2016									
9/14/2016			8.49	31	2.18				
9/20/2016						9.28			
11/2/2016			7.83	30.9					
11/4/2016					2.17 (J)				
11/8/2016						8.6			
11/16/2016									125
1/12/2017				35.7	2.37				
1/13/2017			8.08						
1/16/2017						8.85			
2/24/2017									
2/27/2017									139
3/6/2017			8.64						
3/7/2017				32.7	2.34				
3/9/2017						8.4			
5/1/2017			13.4	37					
5/2/2017					2.17	12.9			
5/10/2017									130
6/27/2017				36.5	2.13				
6/29/2017			8.81						
7/10/2017						8.09			
7/11/2017									172
10/3/2017				30.9	2.15				
10/5/2017			9.29						
10/11/2017	2.74					6.36			
10/12/2017		2.9					190	44.5	144
11/20/2017	1.81	10.4					184		
11/21/2017								44.4	
1/10/2018		10.2							
1/11/2018	1.54							43.9	
1/12/2018							178		
2/19/2018		<25						45.3	
2/20/2018	1.71						184		
4/3/2018	1.4	6.3					174	42.7	
4/4/2018									137
6/6/2018				26.2					
6/7/2018			8.2		2.3				
6/12/2018						4.7			
6/27/2018								42.2	
6/28/2018	1.4	6.7					190		
8/7/2018	1.2	6.3					176	40.7	
9/20/2018									108
9/24/2018	1.1	5.7					172	38.5	
9/26/2018			9.5 (J)	25.8	2.3				
9/27/2018						4.1			
3/26/2019		5.6							
3/27/2019	1.5						155		109

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/26/2023 11:07 AM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
3/28/2019								26	
4/3/2019			8.4	24.7 (J)	2.8				
4/4/2019						3.7			
9/24/2019				25.8	2.5				
9/25/2019			9.5						
9/27/2019						3.7			
10/9/2019	2.4	4.9					133	27.6	92
3/24/2020		4.8		26.1	2.5				
3/25/2020	2.7		10.5				124	29.6	107
3/26/2020						5.6			
9/22/2020			9.6	27.2	2.6				
9/24/2020	3.7	4.4				7.9			84.3
9/25/2020							93.7	20.5	
3/2/2021				1.6	2.6				
3/3/2021			7.7						
3/4/2021	8.2	4.6				10.2	87	16.4	90.7
8/25/2021						10.6			79.9
8/26/2021	14.1		7.6	25.2	2.5		73.6	12.8	
9/3/2021		5.6							
9/27/2021									
2/8/2022	15.2	6						15	
2/10/2022				24.8	2.5	11.8	68.9		74.4
2/11/2022			7.5						
8/30/2022				24.8	2.5				
8/31/2022	16.3	6.2	8.9						
9/1/2022						11.2	59.4	12.9	68.5
2/7/2023	16.1			26.6					
2/8/2023		5.9				10.9	55.3	14.4	74.6
2/9/2023			9.6		2.8				

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/26/2023 11:07 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

YGWC-43

6/2/2016	
6/7/2016	
7/26/2016	
7/28/2016	
8/30/2016	
8/31/2016	3.4
9/14/2016	
9/20/2016	
11/2/2016	
11/4/2016	
11/8/2016	
11/16/2016	3.79
1/12/2017	
1/13/2017	
1/16/2017	
2/24/2017	6.42
2/27/2017	
3/6/2017	
3/7/2017	
3/9/2017	
5/1/2017	
5/2/2017	
5/10/2017	7.9
6/27/2017	
6/29/2017	
7/10/2017	
7/11/2017	6.71
10/3/2017	
10/5/2017	
10/11/2017	
10/12/2017	7.05
11/20/2017	
11/21/2017	
1/10/2018	
1/11/2018	
1/12/2018	
2/19/2018	
2/20/2018	
4/3/2018	
4/4/2018	8.6
6/6/2018	
6/7/2018	
6/12/2018	
6/27/2018	
6/28/2018	
8/7/2018	
9/20/2018	15.9 (J)
9/24/2018	
9/26/2018	
9/27/2018	
3/26/2019	
3/27/2019	

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/26/2023 11:07 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
3/28/2019	8.9
4/3/2019	
4/4/2019	
9/24/2019	
9/25/2019	
9/27/2019	
10/9/2019	18.2
3/24/2020	
3/25/2020	12.1
3/26/2020	
9/22/2020	
9/24/2020	
9/25/2020	19.8
3/2/2021	
3/3/2021	
3/4/2021	32.2
8/25/2021	
8/26/2021	
9/3/2021	
9/27/2021	4.1
2/8/2022	9.9
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	
9/1/2022	10.7
2/7/2023	
2/8/2023	11
2/9/2023	

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
6/1/2016					12	2.5			
6/2/2016				1.3				1.3	28
7/25/2016						2.16		1.17	
7/26/2016				1.24	11				24.5
8/30/2016		20.9							
8/31/2016			9.31						
9/1/2016	13.9								
9/13/2016					11.8	2.21			
9/14/2016							23.5		
9/15/2016				1.17					27
9/19/2016								1.05	
11/1/2016					11			1.14	25.6
11/2/2016				1.23					
11/4/2016						2.67	23.7		
11/14/2016		18.6							
11/15/2016	13.5								
11/28/2016			9.47 (B)						
12/15/2016							23.1		
1/10/2017				1.24					
1/11/2017					11.2				27.5
1/16/2017						2.45	23.3	1.23	
2/21/2017								1.25	
2/22/2017			10.4						
2/24/2017		16.1							
2/27/2017	12.5								
3/1/2017									
3/2/2017					11	2.57			27.5
3/3/2017							25.1		
3/8/2017				1.21					
4/26/2017				1.14				1.03	30.4
4/27/2017					11.1	2.38			
4/28/2017							30.7		
5/8/2017		14.6	14.2						
5/9/2017	14.4								
5/26/2017							26.2		
6/27/2017					13.8	2.36			
6/28/2017							26.1		29.8
6/30/2017				1.24				1.13	
7/11/2017		14.3							
7/13/2017	14.1								
7/17/2017			14.1						
10/3/2017					14	2.21	26.7		
10/4/2017								1.09	29.7
10/5/2017				1.11					
10/10/2017		12.1							
10/11/2017	12.4								
10/16/2017			13.6						
2/19/2018			<25						
4/2/2018		<25							
4/4/2018	<25								
6/5/2018					15.2 (J)				
6/6/2018						2.3			

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/26/2023 11:07 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
6/1/2016	21
6/2/2016	
7/25/2016	20.3
7/26/2016	
8/30/2016	
8/31/2016	
9/1/2016	
9/13/2016	
9/14/2016	19.7
9/15/2016	
9/19/2016	
11/1/2016	18.4
11/2/2016	
11/4/2016	
11/14/2016	
11/15/2016	
11/28/2016	
12/15/2016	
1/10/2017	
1/11/2017	20.3
1/16/2017	
2/21/2017	
2/22/2017	
2/24/2017	
2/27/2017	
3/1/2017	18.6
3/2/2017	
3/3/2017	
3/8/2017	
4/26/2017	25.6
4/27/2017	
4/28/2017	
5/8/2017	
5/9/2017	
5/26/2017	
6/27/2017	
6/28/2017	23.9
6/30/2017	
7/11/2017	
7/13/2017	
7/17/2017	
10/3/2017	
10/4/2017	22.1
10/5/2017	
10/10/2017	
10/11/2017	
10/16/2017	
2/19/2018	
4/2/2018	
4/4/2018	
6/5/2018	
6/6/2018	

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/26/2023 11:07 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
6/7/2018	
6/8/2018	21.9 (J)
6/11/2018	
8/6/2018	
9/19/2018	
9/20/2018	
10/1/2018	19.7
10/2/2018	
2/25/2019	
3/27/2019	
3/28/2019	
3/29/2019	
4/1/2019	20.4 (J)
6/12/2019	
9/24/2019	
9/25/2019	22.4
9/26/2019	
10/8/2019	
3/17/2020	
3/18/2020	
3/19/2020	21.9
3/25/2020	
9/22/2020	
9/23/2020	23.6
9/24/2020	
9/25/2020	
3/1/2021	
3/2/2021	
3/3/2021	20.6
3/4/2021	
8/19/2021	
8/20/2021	
8/27/2021	24.7
9/1/2021	
2/8/2022	
2/9/2022	23.7
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	23.5
2/7/2023	
2/8/2023	23.3
2/9/2023	

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB
6/8/2016							1.9
8/1/2016							1.83
9/2/2016			11.2				
9/20/2016							1.78
11/8/2016							1.77
11/14/2016			7.79				
1/17/2017							1.7
2/28/2017			8.37				
3/8/2017							1.77
5/2/2017							1.57
5/9/2017			13.9				
7/7/2017							1.8
7/13/2017			16.6				
9/22/2017			18.4				
9/29/2017			16.1				
10/5/2017							1.7
10/6/2017			16.6				
10/11/2017			18.1				
10/12/2017		122					
11/21/2017		118					
1/11/2018		119					
2/20/2018		124					
4/3/2018		114					
6/12/2018							1.8
6/13/2018			18.7 (J)				
6/29/2018		129					
8/6/2018		114					
9/24/2018		115					
9/26/2018			19.8 (J)				1.7
10/16/2018	6.5						
4/4/2019			16.9 (J)				1.9
9/26/2019	4.7		11.7				1.7
3/25/2020	7.9		10.6				
3/26/2020							1.7
9/23/2020							2.4
9/24/2020	3.6						
9/25/2020		108					
10/7/2020			9.9				
3/3/2021							2.4
3/4/2021	4.4	118	5.6				
8/25/2021		106					
9/1/2021	7.9						2.3
9/3/2021			4.1	64			
2/10/2022	8.8	106				54.7	2.2
2/11/2022			4.6	49	27.3		
8/31/2022	11.8						
9/1/2022		99.9	6.3	67.9	22.8	52.5	
2/8/2023		95.9		55.2	22.9		
2/9/2023	14.5		9.2			54.3	
2/10/2023							2.4

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/6/2016							6.8	6.4	
6/7/2016						4.5			1.9
7/27/2016						4.5	6.7	6.2	1.9
7/28/2016									
9/16/2016						4.5		6.1	
9/19/2016							7		1.9
11/2/2016									2.6
11/3/2016						5.4	7.5	7.4	
1/11/2017						4.7	6.5	6.1	
1/13/2017									2.3
3/1/2017							6.9	6	
3/2/2017						4.8			
3/6/2017									1.9
4/26/2017							7	6.5	2
5/2/2017						4.6			
6/28/2017							7	6.4	
6/29/2017						4.5			2.6
10/3/2017									
10/4/2017						4.7		6.8	2.6
10/5/2017							7		
6/5/2018									
6/6/2018									2.7
6/7/2018							6.8		
6/11/2018						4.9		6.8	
9/25/2018						5.6	7.9	7.8	3.6
10/16/2018	12.1								
4/2/2019						4.8			
4/3/2019							6.9	6.3	3.1
9/24/2019									
9/25/2019						5.7			2.8
9/26/2019	6.4						7	7.1	
3/24/2020						5	7	6.8	2.7
3/25/2020	7.7								
9/23/2020		2.7		1.8		6.6	7.2	7.2	
9/24/2020	6.6				3.7				2.7
3/3/2021	6.1	2.5		22.9		7.1	7	7.2	2.7
3/4/2021					3.7				
8/25/2021				1.5					
8/26/2021					3.9			7.3	
8/27/2021						8.5	7.4		2.8
9/1/2021	5.7	2.6							
2/9/2022						10.9	7.5	7	2.8
2/10/2022	5.3	2.5	3.2	1.4	3.9				
8/30/2022						12	7.9	7	
8/31/2022	5.3								2.9
9/1/2022		2.4	10.2	1.4	3.6				
2/7/2023						11.4	7.4	6.4	2.9
2/8/2023		2.5		1.5	3.8				
2/9/2023	5.4		9.6						

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/26/2023 11:07 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-211 (bg)
6/6/2016	
6/7/2016	2.8
7/27/2016	
7/28/2016	2.6
9/16/2016	
9/19/2016	2.4
11/2/2016	
11/3/2016	2.9
1/11/2017	
1/13/2017	2.5
3/1/2017	
3/2/2017	
3/6/2017	2.1
4/26/2017	2.1
5/2/2017	
6/28/2017	
6/29/2017	2.8
10/3/2017	2.2
10/4/2017	
10/5/2017	
6/5/2018	1.7
6/6/2018	
6/7/2018	
6/11/2018	
9/25/2018	2.2
10/16/2018	
4/2/2019	2.5
4/3/2019	
9/24/2019	3.1
9/25/2019	
9/26/2019	
3/24/2020	2.8
3/25/2020	
9/23/2020	
9/24/2020	2
3/3/2021	
3/4/2021	1.8
8/25/2021	
8/26/2021	
8/27/2021	
9/1/2021	1.8
2/9/2022	1.7
2/10/2022	
8/30/2022	2.4
8/31/2022	
9/1/2022	
2/7/2023	2.4
2/8/2023	
2/9/2023	

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-41 (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/2/2016			3.7	7.2	4.3				
6/7/2016						2.9			
7/26/2016			3.6	6.6	4.4				
7/28/2016						3.5			
8/30/2016									4.4
8/31/2016									
9/14/2016			3.4	6.6	3.8				
9/20/2016						2.4			
11/2/2016			4.5	7.6					
11/4/2016					4.8				
11/8/2016						2.8			
11/16/2016									4.7
1/12/2017				6.8	3.8				
1/13/2017			4.2						
1/16/2017						1.8			
2/24/2017									
2/27/2017									4.7
3/6/2017			3.6						
3/7/2017				6.8	4.5				
3/9/2017						1.7			
5/1/2017			4.3	7.2					
5/2/2017					4.6	1.8			
5/10/2017									4.4
6/27/2017				7	4.3				
6/29/2017			4.2						
7/10/2017						1.9			
7/11/2017									4.7
10/3/2017				6.5	4.2				
10/5/2017			4.7						
10/11/2017	2.4					2.4			
10/12/2017		3.8					6	3.1	4.3
11/20/2017	1.8	4.4					6.9		
11/21/2017								4.2	
1/10/2018		4.6							
1/11/2018	1.6							3.8	
1/12/2018							6.6		
2/19/2018		4.6						3.5	
2/20/2018	2						6.2		
4/3/2018	3.3	5.9					6.9	4.4	
4/4/2018									3.7
6/6/2018				4.7					
6/7/2018			4.4		4.5				
6/12/2018						1.8			
6/27/2018								3.6	
6/28/2018	2.1	5					6.4		
8/7/2018	1.2	4.3					5.5	3.3	
9/20/2018									3.8
9/24/2018	1.3	4.9					5.9	3.3	
9/26/2018			4.8	4.8	5.1				
9/27/2018						2			
3/26/2019		4.4							
3/27/2019	1.4						6.2		3.9

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/26/2023 11:07 AM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-41 (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
3/28/2019								3.2	
4/3/2019			4.3	4	4.2				
4/4/2019						1.7			
9/24/2019				3.7	4.5				
9/25/2019			4.5						
9/27/2019						1.7			
10/9/2019	2.1	5.1					5	3.3	4.1
3/24/2020		4.7		3.5	4.3				
3/25/2020	1.9		3.9				4	2.7	3.2
3/26/2020						1.6			
9/22/2020			4.5	3.6	4.2				
9/24/2020	2.7	5				2			3.3
9/25/2020							4	3	
3/2/2021				3.2	4.3				
3/3/2021			4.1						
3/4/2021	4.9	4.9				1.8	3.9	3.4	2.7
8/25/2021						2.5			3.4
8/26/2021	7.2		4.4	3.4	4.3		4.1	3.6	
9/3/2021		5.5							
9/27/2021									
2/8/2022	7.4	6.2						3.5	
2/10/2022				3.2	4.4	1.9	4		3.3
2/11/2022			4.1						
8/30/2022				3.5	4.4				
8/31/2022	6.7	6.3	4.4						
9/1/2022						2	4.2	3.8	3.3
2/7/2023	5.6			3.3					
2/8/2023		6.9				2	3.9	4	3.4
2/9/2023			4.5		5				

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/26/2023 11:07 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

YGWC-43

6/2/2016	
6/7/2016	
7/26/2016	
7/28/2016	
8/30/2016	
8/31/2016	1.5
9/14/2016	
9/20/2016	
11/2/2016	
11/4/2016	
11/8/2016	
11/16/2016	1.7
1/12/2017	
1/13/2017	
1/16/2017	
2/24/2017	1.5
2/27/2017	
3/6/2017	
3/7/2017	
3/9/2017	
5/1/2017	
5/2/2017	
5/10/2017	1.2
6/27/2017	
6/29/2017	
7/10/2017	
7/11/2017	1.5
10/3/2017	
10/5/2017	
10/11/2017	
10/12/2017	1.6
11/20/2017	
11/21/2017	
1/10/2018	
1/11/2018	
1/12/2018	
2/19/2018	
2/20/2018	
4/3/2018	
4/4/2018	1.8
6/6/2018	
6/7/2018	
6/12/2018	
6/27/2018	
6/28/2018	
8/7/2018	
9/20/2018	1.9
9/24/2018	
9/26/2018	
9/27/2018	
3/26/2019	
3/27/2019	

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/26/2023 11:07 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
3/28/2019	1.8
4/3/2019	
4/4/2019	
9/24/2019	
9/25/2019	
9/27/2019	
10/9/2019	2.3
3/24/2020	
3/25/2020	1.8
3/26/2020	
9/22/2020	
9/24/2020	
9/25/2020	2.3
3/2/2021	
3/3/2021	
3/4/2021	2.1
8/25/2021	
8/26/2021	
9/3/2021	
9/27/2021	1.1
2/8/2022	2.1
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	
9/1/2022	2.1
2/7/2023	
2/8/2023	2.4
2/9/2023	

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
6/1/2016					1.3	1.6			
6/2/2016				4.1				1.9	1.4
7/25/2016						1.4		1.7	
7/26/2016				4	1.2				1.6
8/30/2016		5.2							
8/31/2016			4						
9/1/2016	5.3								
9/13/2016					1.1	1.3			
9/14/2016							1.1		
9/15/2016				4.2					1.5
9/19/2016								1.6	
11/1/2016					1.3			1.8	1.7
11/2/2016				4.9					
11/4/2016						1.6	1.4		
11/14/2016		6.4							
11/15/2016	5.8								
11/28/2016			4.2						
12/15/2016							2.9		
1/10/2017				4.1					
1/11/2017					1.1				1.2
1/16/2017						1.4	0.98	1.7	
2/21/2017								1.7	
2/22/2017			3.7						
2/24/2017		5.5							
2/27/2017	4.6								
3/1/2017									
3/2/2017					1	1.3			1.2
3/3/2017							1.1		
3/8/2017				4.2					
4/26/2017				4.1				1.7	1.2
4/27/2017					1	1.3			
4/28/2017							0.91		
5/8/2017		5.8	4.2						
5/9/2017	5.3								
5/26/2017							0.93		
6/27/2017					1.1	1.4			
6/28/2017							1		1.3
6/30/2017				3.7				1.8	
7/11/2017		5.8							
7/13/2017	4.7								
7/17/2017			3.8						
10/3/2017					1.1	1.7	1.2		
10/4/2017								1.8	1.5
10/5/2017				3.8					
10/10/2017		5.9							
10/11/2017	5.8								
10/16/2017			4.2						
2/19/2018			4.3						
4/2/2018		4.8							
4/4/2018	4.3								
6/5/2018					1.1				
6/6/2018						1.4			

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/26/2023 11:07 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
6/1/2016	1.3
6/2/2016	
7/25/2016	1.3
7/26/2016	
8/30/2016	
8/31/2016	
9/1/2016	
9/13/2016	
9/14/2016	1.3
9/15/2016	
9/19/2016	
11/1/2016	1.4
11/2/2016	
11/4/2016	
11/14/2016	
11/15/2016	
11/28/2016	
12/15/2016	
1/10/2017	
1/11/2017	1.1
1/16/2017	
2/21/2017	
2/22/2017	
2/24/2017	
2/27/2017	
3/1/2017	1.1
3/2/2017	
3/3/2017	
3/8/2017	
4/26/2017	1.1
4/27/2017	
4/28/2017	
5/8/2017	
5/9/2017	
5/26/2017	
6/27/2017	
6/28/2017	1.2
6/30/2017	
7/11/2017	
7/13/2017	
7/17/2017	
10/3/2017	
10/4/2017	1.2
10/5/2017	
10/10/2017	
10/11/2017	
10/16/2017	
2/19/2018	
4/2/2018	
4/4/2018	
6/5/2018	
6/6/2018	

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/26/2023 11:07 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
6/7/2018	
6/8/2018	1.2
6/11/2018	
8/6/2018	
9/19/2018	
9/20/2018	
10/1/2018	1.2
10/2/2018	
2/25/2019	
3/27/2019	
3/28/2019	
3/29/2019	
4/1/2019	1.1
6/12/2019	
9/24/2019	
9/25/2019	1.1
9/26/2019	
10/8/2019	
3/17/2020	
3/18/2020	
3/19/2020	1.1
3/25/2020	
9/22/2020	
9/23/2020	1
9/24/2020	
9/25/2020	
3/1/2021	
3/2/2021	
3/3/2021	0.99 (J)
3/4/2021	
8/19/2021	
8/20/2021	
8/27/2021	1.1
9/1/2021	
2/8/2022	
2/9/2022	1.1
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	1.3
2/7/2023	
2/8/2023	1.1
2/9/2023	

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB
6/8/2016							5.9
8/1/2016							5.3
9/2/2016			6.3				
9/20/2016							5.5
11/8/2016							6.4
11/14/2016			6.7				
1/17/2017							5.5
2/28/2017			5.4				
3/8/2017							5.4
5/2/2017							5.7
5/9/2017			5.7				
7/7/2017							5.7
7/13/2017			5.4				
9/22/2017			6.9				
9/29/2017			5.5				
10/5/2017							6
10/6/2017			5.5				
10/11/2017			6.4				
10/12/2017		5.4					
11/21/2017		6.5					
1/11/2018		5					
2/20/2018		5.2					
4/3/2018		4.8					
6/12/2018							6.2
6/13/2018			5.6				
6/29/2018		5.7					
8/6/2018		4.8					
9/24/2018		4.9					
9/26/2018			6				6.9
10/16/2018	8.5						
4/4/2019			5.4				5.9
9/26/2019	7.5		7.1				6.5
3/25/2020	6.8		6.3				
3/26/2020							5.4
9/23/2020							9.3
9/24/2020	7.5						
9/25/2020		4.3					
10/7/2020			8.7				
3/3/2021							8.6
3/4/2021	6.7	3.9	6.6				
8/25/2021		7					
9/1/2021	6.3						8.9
9/3/2021			7	7.1			
2/10/2022	5.6	4.2				4.2	8.7
2/11/2022			6.6	12.5	6.7		
8/31/2022	5.5						
9/1/2022		4.2	6.2	45.6	3.7	4	
2/8/2023		3.8		33.5	2		
2/9/2023	5.4		5.9			4.7	
2/10/2023							9.1

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/26/2023 11:07 AM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/6/2016							0.0012 (J)	<0.005	
6/7/2016						<0.005			<0.005
7/27/2016						0.0008 (J)	0.0007 (J)	0.0006 (J)	0.0005 (J)
7/28/2016									
9/16/2016						<0.005		<0.005	
9/19/2016							<0.005		<0.005
11/2/2016									<0.005
11/3/2016						<0.005	<0.005	<0.005	
1/11/2017						<0.005	<0.005	<0.005	
1/13/2017									<0.005
3/1/2017							0.0012 (J)	<0.005	
3/2/2017						0.001 (J)			
3/6/2017									<0.005
4/26/2017							0.0005 (J)	0.0003 (J)	0.0007 (J)
5/2/2017						0.0007 (J)			
6/28/2017							0.0006 (J)	<0.005	
6/29/2017						0.0006 (J)			0.0005 (J)
3/28/2018						<0.005	<0.005	<0.005	
3/29/2018									<0.005
3/5/2019						<0.005		<0.005	<0.005
3/6/2019							<0.005		
2/11/2020						0.00087 (J)	0.001 (J)	0.00088 (J)	
2/12/2020									0.00045 (J)
3/24/2020						0.00087 (J)	0.00095 (J)	0.0011 (J)	0.00077 (J)
3/25/2020	0.00058 (J)								
9/23/2020		0.00071 (J)		<0.005		0.00098 (J)	0.00092 (J)	0.0012 (J)	
9/24/2020	0.00074 (J)				<0.005				0.00076 (J)
2/9/2021	0.001 (J)	0.0011 (J)		0.00057 (J)	<0.005		0.00083 (J)	0.0013 (J)	0.00056 (J)
3/3/2021	0.00076 (J)	0.0012 (J)		<0.005		0.00082 (J)	0.00087 (J)	0.001 (J)	<0.005
3/4/2021					<0.005				
8/25/2021				<0.005					
8/26/2021					<0.005			<0.005	
8/27/2021						<0.005	<0.005		<0.005
9/1/2021	<0.005	0.003 (J)							
2/9/2022						<0.005	<0.005	0.0014 (J)	<0.005
2/10/2022	0.0013 (J)	<0.005	0.0011 (J)	<0.005	0.0016 (J)				
8/30/2022						<0.005	<0.005	0.0015 (J)	
8/31/2022	<0.005								<0.005
9/1/2022		<0.005	<0.005	<0.005	<0.005				
2/7/2023						<0.005	<0.005	0.0016 (J)	<0.005
2/8/2023		<0.005		<0.005	<0.005				
2/9/2023	<0.005		<0.005						

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/26/2023 11:07 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-211 (bg)
6/6/2016	
6/7/2016	<0.005
7/27/2016	
7/28/2016	<0.005
9/16/2016	
9/19/2016	<0.005
11/2/2016	
11/3/2016	<0.005
1/11/2017	
1/13/2017	<0.005
3/1/2017	
3/2/2017	
3/6/2017	<0.005
4/26/2017	<0.005
5/2/2017	
6/28/2017	
6/29/2017	<0.005
3/28/2018	
3/29/2018	<0.005
3/5/2019	<0.005
3/6/2019	
2/11/2020	
2/12/2020	<0.005
3/24/2020	<0.005
3/25/2020	
9/23/2020	
9/24/2020	<0.005
2/9/2021	<0.005
3/3/2021	
3/4/2021	<0.005
8/25/2021	
8/26/2021	
8/27/2021	
9/1/2021	<0.005
2/9/2022	<0.005
2/10/2022	
8/30/2022	<0.005
8/31/2022	
9/1/2022	
2/7/2023	<0.005
2/8/2023	
2/9/2023	

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/26/2023 11:07 AM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-41 (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/2/2016			<0.005	<0.005	<0.005				
6/7/2016						<0.005			
7/26/2016			<0.005	<0.005	<0.005				
7/28/2016						0.0008 (J)			
8/30/2016									<0.005
8/31/2016									
9/14/2016			<0.005	<0.005	<0.005				
9/20/2016						<0.005			
11/2/2016			<0.005	<0.005					
11/4/2016					<0.005				
11/8/2016						<0.005			
11/16/2016									<0.005
1/12/2017				<0.005	<0.005				
1/13/2017			<0.005						
1/16/2017						<0.005			
2/24/2017									
2/27/2017									<0.005
3/6/2017			<0.005						
3/7/2017				<0.005	<0.005				
3/9/2017						<0.005			
5/1/2017			<0.005	0.0004 (J)					
5/2/2017					<0.005	0.0007 (J)			
5/10/2017									0.0006 (J)
6/27/2017				<0.005	<0.005				
6/29/2017			<0.005						
7/10/2017						<0.005			
7/11/2017									<0.005
10/11/2017	<0.005								
10/12/2017		<0.005					0.0005 (J)	<0.005	<0.005
11/20/2017	<0.005	<0.005					<0.005		
11/21/2017								<0.005	
1/10/2018		<0.005							
1/11/2018	<0.005							<0.005	
1/12/2018							<0.005		
2/19/2018		<0.005						<0.005	
2/20/2018	<0.005						<0.005		
3/29/2018			<0.005	<0.005	<0.005				
3/30/2018						<0.005			
4/3/2018	<0.005	<0.005					<0.005	<0.005	
4/4/2018									<0.005
6/27/2018								<0.005	
6/28/2018	<0.005	<0.005					<0.005		
8/7/2018	<0.005	<0.005					<0.005	<0.005	
9/20/2018									<0.005
9/24/2018	<0.005	<0.005					<0.005	<0.005	
3/4/2019			<0.005	<0.005	<0.005				
3/6/2019						<0.005			
8/21/2019	<0.005	0.00053 (J)							
8/22/2019							<0.005	<0.005	<0.005
10/9/2019	<0.005	0.0012 (J)					<0.005	<0.005	0.00043 (J)
2/12/2020	<0.005	0.00065 (J)	<0.005	<0.005	0.00043 (J)				
3/24/2020		0.00055 (J)		<0.005	0.0014 (J)				

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/26/2023 11:07 AM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-41 (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
3/25/2020	<0.005		0.00058 (J)				0.00065 (J)	0.00039 (J)	0.0013 (J)
3/26/2020						0.0019 (J)			
9/22/2020			<0.005	0.0011 (J)	<0.005				
9/24/2020	<0.005	<0.005				0.0011 (J)			<0.005
9/25/2020							<0.005	<0.005	
2/8/2021				<0.005	<0.005				
2/9/2021			<0.005			0.00086 (J)	<0.005		
2/10/2021	<0.005	<0.005						<0.005	<0.005
3/2/2021				<0.005	<0.005				
3/3/2021			0.0013 (J)						
3/4/2021	<0.005	<0.005				0.00078 (J)	<0.005	<0.005	<0.005
8/25/2021						<0.005			<0.005
8/26/2021	<0.005		<0.005	<0.005	<0.005		<0.005	<0.005	
9/3/2021		<0.005							
9/27/2021									
2/8/2022	<0.005	<0.005						<0.005	
2/10/2022				<0.005	<0.005	<0.005	<0.005		<0.005
2/11/2022			<0.005						
8/30/2022				<0.005	<0.005				
8/31/2022	<0.005	<0.005	<0.005						
9/1/2022						<0.005	<0.005	<0.005	<0.005
2/7/2023	<0.005			<0.005					
2/8/2023		<0.005				0.0014 (J)	<0.005	<0.005	<0.005
2/9/2023			<0.005		0.0012 (J)				

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/26/2023 11:07 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Date	Concentration (mg/L)
6/2/2016	
6/7/2016	
7/26/2016	
7/28/2016	
8/30/2016	
8/31/2016	<0.005
9/14/2016	
9/20/2016	
11/2/2016	
11/4/2016	
11/8/2016	
11/16/2016	<0.005
1/12/2017	
1/13/2017	
1/16/2017	
2/24/2017	<0.005
2/27/2017	
3/6/2017	
3/7/2017	
3/9/2017	
5/1/2017	
5/2/2017	
5/10/2017	0.0005 (J)
6/27/2017	
6/29/2017	
7/10/2017	
7/11/2017	<0.005
10/11/2017	
10/12/2017	<0.005
11/20/2017	
11/21/2017	
1/10/2018	
1/11/2018	
1/12/2018	
2/19/2018	
2/20/2018	
3/29/2018	
3/30/2018	
4/3/2018	
4/4/2018	<0.005
6/27/2018	
6/28/2018	
8/7/2018	
9/20/2018	<0.005
9/24/2018	
3/4/2019	
3/6/2019	
8/21/2019	0.00062 (J)
8/22/2019	
10/9/2019	0.00074 (J)
2/12/2020	
3/24/2020	

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/26/2023 11:07 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
3/25/2020	<0.005
3/26/2020	
9/22/2020	
9/24/2020	
9/25/2020	0.00071 (J)
2/8/2021	
2/9/2021	<0.005
2/10/2021	
3/2/2021	
3/3/2021	
3/4/2021	<0.005
8/25/2021	
8/26/2021	
9/3/2021	
9/27/2021	<0.005
2/8/2022	<0.005
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	
9/1/2022	<0.005
2/7/2023	
2/8/2023	<0.005
2/9/2023	

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/26/2023 11:07 AM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
5/1/2007			0.0029						
9/11/2007			0.0084						
3/20/2008			0.0027						
8/27/2008			0.0026						
3/3/2009			0.0022						
11/18/2009			0.0036						
3/3/2010			<0.005						
9/8/2010			<0.005						
3/10/2011			<0.005						
9/8/2011			<0.005						
3/5/2012			<0.005						
9/10/2012			<0.005						
2/6/2013			<0.005						
8/12/2013			<0.005						
2/5/2014			0.0059						
8/5/2014			<0.005						
2/4/2015			<0.005						
8/3/2015			0.0011 (J)						
2/16/2016			<0.005						
6/1/2016					0.0035	<0.005			
6/2/2016				<0.005				<0.005	0.0013 (J)
7/25/2016						<0.005		<0.005	
7/26/2016				<0.005	<0.005				<0.005
8/30/2016		<0.005							
8/31/2016			<0.005						
9/1/2016	0.0013 (J)								
9/13/2016				<0.005	<0.005				
9/14/2016							<0.005		
9/15/2016				<0.005					<0.005
9/19/2016								<0.005	
11/1/2016				<0.005	<0.005			<0.005	<0.005
11/2/2016				<0.005					
11/4/2016						<0.005	<0.005		
11/14/2016		0.0093 (J)							
11/15/2016	0.0014 (J)								
11/28/2016			<0.005						
12/15/2016							<0.005		
1/10/2017				<0.005					
1/11/2017					<0.005				<0.005
1/16/2017						<0.005	<0.005	<0.005	
2/21/2017								<0.005	
2/22/2017			<0.005						
2/24/2017		<0.005							
2/27/2017	0.0016 (J)								
3/1/2017									
3/2/2017					0.0009 (J)	0.0004 (J)			0.0006 (J)
3/3/2017							0.0005 (J)		
3/8/2017			<0.005						
4/26/2017			<0.005					0.0016 (J)	<0.005
4/27/2017				<0.005	<0.005				
4/28/2017							0.0004 (J)		
5/8/2017		<0.005	<0.005						

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/26/2023 11:07 AM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
5/9/2017	0.0017 (J)								
5/26/2017							<0.005		
6/27/2017					<0.005	<0.005			
6/28/2017							<0.005		<0.005
6/30/2017				<0.005				<0.005	
7/11/2017		<0.005							
7/13/2017	0.0019 (J)								
7/17/2017			<0.005						
10/10/2017		<0.005							
10/11/2017	0.0014 (J)								
10/16/2017			<0.005						
2/19/2018			<0.005						
3/27/2018				<0.005		<0.005		<0.005	
3/28/2018							<0.005		<0.005
3/29/2018					<0.005				
4/2/2018		<0.005							
4/4/2018	<0.01								
8/6/2018			<0.005						
9/19/2018		<0.005							
9/20/2018	0.0017 (J)								
2/25/2019			<0.005						
2/26/2019				<0.005				<0.005	
2/27/2019					<0.005	<0.005	<0.005		<0.005
3/28/2019					<0.005	0.0021 (J)			
3/29/2019				<0.005			<0.005		
4/1/2019								<0.005	<0.005
6/12/2019			<0.005						
8/19/2019			<0.005						
8/20/2019		<0.005							
9/24/2019					0.00072 (J)	0.0028 (J)	<0.005		
9/25/2019				<0.005				<0.005	0.0014 (J)
10/8/2019			<0.005						
2/10/2020					0.00042 (J)	<0.005			
2/11/2020							<0.005		
2/12/2020				<0.005				<0.005	<0.005
3/17/2020			<0.005						
3/18/2020				<0.005		0.00044 (J)			
3/19/2020					0.00084 (J)		0.00048 (J)	<0.005	<0.005
3/25/2020	0.0019 (J)								
8/26/2020			<0.005						
8/27/2020		<0.005							
9/22/2020		<0.005	<0.005						
9/23/2020					0.00062 (J)	0.00058 (J)	<0.005		<0.005
9/24/2020	0.0019 (J)							<0.005	
9/25/2020				<0.005					
2/9/2021	0.002 (J)								
2/10/2021				<0.005			<0.005		<0.005
2/11/2021								<0.005	
2/12/2021					<0.005	<0.005			
3/1/2021		<0.005						<0.005	
3/2/2021			<0.005	<0.005					
3/3/2021					<0.005	<0.005	<0.005		<0.005

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/26/2023 11:07 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
3/4/2021	0.0017 (J)								
8/19/2021		<0.005		<0.005	<0.005	<0.005		<0.005	<0.005
8/20/2021			<0.005						
8/27/2021							<0.005		
9/1/2021	0.002 (J)								
2/8/2022	0.0021 (J)	<0.005	<0.005						
2/9/2022					<0.005	<0.005	<0.005		<0.005
2/10/2022				<0.005					
2/11/2022								<0.005	
8/30/2022			<0.005		0.0011 (J)		<0.005		
8/31/2022	0.002 (J)	<0.005		<0.005		<0.005		<0.005	<0.005
2/7/2023			<0.005		<0.005	0.0013 (J)	<0.005		
2/8/2023		<0.005		<0.005				0.0021 (J)	<0.005
2/9/2023	0.002 (J)								

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/26/2023 11:07 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

YGWA-3I (bg)

5/1/2007	
9/11/2007	
3/20/2008	
8/27/2008	
3/3/2009	
11/18/2009	
3/3/2010	
9/8/2010	
3/10/2011	
9/8/2011	
3/5/2012	
9/10/2012	
2/6/2013	
8/12/2013	
2/5/2014	
8/5/2014	
2/4/2015	
8/3/2015	
2/16/2016	
6/1/2016	<0.005
6/2/2016	
7/25/2016	<0.005
7/26/2016	
8/30/2016	
8/31/2016	
9/1/2016	
9/13/2016	
9/14/2016	<0.005
9/15/2016	
9/19/2016	
11/1/2016	<0.005
11/2/2016	
11/4/2016	
11/14/2016	
11/15/2016	
11/28/2016	
12/15/2016	
1/10/2017	
1/11/2017	<0.005
1/16/2017	
2/21/2017	
2/22/2017	
2/24/2017	
2/27/2017	
3/1/2017	0.0004 (J)
3/2/2017	
3/3/2017	
3/8/2017	
4/26/2017	<0.005
4/27/2017	
4/28/2017	
5/8/2017	

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/26/2023 11:07 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

YGWA-3I (bg)

5/9/2017	
5/26/2017	
6/27/2017	
6/28/2017	<0.005
6/30/2017	
7/11/2017	
7/13/2017	
7/17/2017	
10/10/2017	
10/11/2017	
10/16/2017	
2/19/2018	
3/27/2018	
3/28/2018	<0.005
3/29/2018	
4/2/2018	
4/4/2018	
8/6/2018	
9/19/2018	
9/20/2018	
2/25/2019	
2/26/2019	
2/27/2019	<0.005
3/28/2019	
3/29/2019	
4/1/2019	<0.005
6/12/2019	
8/19/2019	
8/20/2019	
9/24/2019	
9/25/2019	0.0019 (J)
10/8/2019	
2/10/2020	
2/11/2020	<0.005
2/12/2020	
3/17/2020	
3/18/2020	
3/19/2020	<0.005
3/25/2020	
8/26/2020	
8/27/2020	
9/22/2020	
9/23/2020	<0.005
9/24/2020	
9/25/2020	
2/9/2021	
2/10/2021	<0.005
2/11/2021	
2/12/2021	
3/1/2021	
3/2/2021	
3/3/2021	<0.005

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/26/2023 11:07 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
3/4/2021	
8/19/2021	
8/20/2021	
8/27/2021	<0.005
9/1/2021	
2/8/2022	
2/9/2022	<0.005
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	<0.005
2/7/2023	
2/8/2023	<0.005
2/9/2023	

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/26/2023 11:07 AM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB
6/8/2016							<0.005
8/1/2016							<0.005
9/2/2016			<0.005				
9/20/2016							<0.005
11/8/2016							<0.005
11/14/2016			0.0035				
1/17/2017							<0.005
2/28/2017			<0.005				
3/8/2017							<0.005
5/2/2017							0.0011 (J)
5/9/2017			<0.005				
7/7/2017							<0.005
7/13/2017			<0.005				
9/22/2017			<0.005				
9/29/2017			<0.005				
10/6/2017			<0.005				
10/12/2017		0.0019 (J)					
11/21/2017		0.0017 (J)					
1/11/2018		0.001 (J)					
2/20/2018		<0.005					
3/30/2018			<0.005				<0.005
4/3/2018		<0.005					
6/29/2018		<0.005					
8/6/2018		<0.005					
9/24/2018		<0.005					
3/5/2019							<0.005
3/6/2019			<0.005				
3/25/2020	0.0012 (J)		0.00074 (J)				
3/26/2020							0.00094 (J)
9/23/2020							<0.005
9/24/2020	0.00061 (J)						
9/25/2020		<0.005					
10/7/2020			0.0013 (J)				
2/9/2021		<0.005					0.0011 (J)
2/10/2021	0.0006 (J)		0.00094 (J)				
3/3/2021							<0.005
3/4/2021	0.0007 (J)	<0.005	<0.005				
8/25/2021		<0.005					
9/1/2021	<0.005						<0.005
9/3/2021			<0.005	<0.005			
2/10/2022	<0.005	<0.005				<0.005	<0.005
2/11/2022			<0.005	<0.005	0.0011 (J)		
8/31/2022	<0.005						
9/1/2022		<0.005	<0.005	<0.005	<0.005	<0.005	
2/8/2023		<0.005		<0.005	<0.005		
2/9/2023	0.0016 (J)		<0.005			<0.005	
2/10/2023							<0.005

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/26/2023 11:07 AM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/6/2016							<0.005	0.00061 (J)	
6/7/2016						<0.005			<0.005
7/27/2016						<0.005	<0.005	0.0004 (J)	<0.005
7/28/2016									
9/16/2016						<0.005		0.0008 (J)	
9/19/2016							<0.005		<0.005
11/2/2016									<0.005
11/3/2016						<0.005	<0.005	<0.005	
1/11/2017						<0.005	<0.005	<0.005	
1/13/2017									<0.005
3/1/2017							<0.005	<0.005	
3/2/2017						<0.005			
3/6/2017									<0.005
4/26/2017							<0.005	<0.005	<0.005
5/2/2017						<0.005			
6/28/2017							<0.005	<0.005	
6/29/2017						<0.005			<0.005
3/28/2018						<0.005	<0.005	<0.005	
3/29/2018									<0.005
6/5/2018									
6/6/2018									<0.005
6/7/2018							<0.005		
6/11/2018						<0.005		<0.005	
9/25/2018						<0.005	<0.005	<0.005	<0.005
10/16/2018	0.032								
3/5/2019						<0.005		<0.005	<0.005
3/6/2019							<0.005		
4/2/2019						<0.005			
4/3/2019							<0.005	<0.005	<0.005
9/24/2019									
9/25/2019						<0.005			<0.005
9/26/2019	0.015						<0.005	<0.005	
1/3/2020	<0.005								
2/11/2020						<0.005	<0.005	<0.005	
2/12/2020									<0.005
3/24/2020						<0.005	<0.005	<0.005	<0.005
3/25/2020	<0.005								
9/23/2020		0.0025 (J)		0.00052 (J)		<0.005	<0.005	<0.005	
9/24/2020	0.01				0.00077 (J)				<0.005
2/9/2021	0.03	0.001 (J)		0.00063 (J)	<0.005		<0.005	<0.005	<0.005
3/3/2021	0.018	0.00082 (J)		0.001 (J)		<0.005	<0.005	<0.005	<0.005
3/4/2021					<0.005				
8/25/2021				0.00041 (J)					
8/26/2021					<0.005			<0.005	
8/27/2021						<0.005	<0.005		<0.005
9/1/2021	0.022	0.00093 (J)							
2/9/2022						<0.005	<0.005	<0.005	<0.005
2/10/2022	0.011	0.00052 (J)	0.16	0.00044 (J)	<0.005				
8/30/2022						<0.005	<0.005	<0.005	
8/31/2022	0.0041 (J)								<0.005
9/1/2022		0.0068	0.058	0.00048 (J)	<0.005				
2/7/2023						<0.005	<0.005	<0.005	<0.005

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/26/2023 11:07 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
2/8/2023		<0.005		0.00085 (J)	<0.005				
2/9/2023	0.0045 (J)		0.066						

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/26/2023 11:07 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-211 (bg)
6/6/2016	
6/7/2016	0.0056
7/27/2016	
7/28/2016	0.0032 (J)
9/16/2016	
9/19/2016	0.0047 (J)
11/2/2016	
11/3/2016	0.013
1/11/2017	
1/13/2017	0.011
3/1/2017	
3/2/2017	
3/6/2017	0.011
4/26/2017	0.009 (J)
5/2/2017	
6/28/2017	
6/29/2017	0.0093 (J)
3/28/2018	
3/29/2018	<0.005
6/5/2018	0.0041 (J)
6/6/2018	
6/7/2018	
6/11/2018	
9/25/2018	0.0044 (J)
10/16/2018	
3/5/2019	0.0039 (J)
3/6/2019	
4/2/2019	0.0039 (J)
4/3/2019	
9/24/2019	0.0032 (J)
9/25/2019	
9/26/2019	
1/3/2020	
2/11/2020	
2/12/2020	0.0081
3/24/2020	0.0061
3/25/2020	
9/23/2020	
9/24/2020	0.0079
2/9/2021	0.009
3/3/2021	
3/4/2021	0.0065
8/25/2021	
8/26/2021	
8/27/2021	
9/1/2021	0.0068
2/9/2022	0.0078
2/10/2022	
8/30/2022	0.0066
8/31/2022	
9/1/2022	
2/7/2023	0.014

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/26/2023 11:07 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

YGWA-211 (bg)

2/8/2023

2/9/2023

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/26/2023 11:07 AM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-41 (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/2/2016			0.00082 (J)	<0.005	<0.005				
6/7/2016						<0.005			
7/26/2016			0.0012 (J)	<0.005	<0.005				
7/28/2016						<0.005			
8/30/2016									0.0025 (J)
8/31/2016									
9/14/2016			0.0006 (J)	<0.005	<0.005				
9/20/2016						<0.005			
11/2/2016			<0.005	<0.005					
11/4/2016					<0.005				
11/8/2016						<0.005			
11/16/2016									0.002 (J)
1/12/2017				<0.005	<0.005				
1/13/2017			0.0029 (J)						
1/16/2017						<0.005			
2/24/2017									
2/27/2017									0.0021 (J)
3/6/2017			0.0006 (J)						
3/7/2017				<0.005	<0.005				
3/9/2017						<0.005			
5/1/2017			<0.005	<0.005					
5/2/2017					<0.005	<0.005			
5/10/2017									0.0021 (J)
6/27/2017				<0.005	<0.005				
6/29/2017			0.0005 (J)						
7/10/2017						<0.005			
7/11/2017									0.0014 (J)
10/11/2017	<0.005								
10/12/2017		<0.005					<0.005	0.0011 (J)	0.0017 (J)
11/20/2017	<0.005	<0.005					<0.005		
11/21/2017								0.0003 (J)	
1/10/2018		<0.005							
1/11/2018	<0.005							0.0003 (J)	
1/12/2018							<0.005		
2/19/2018		<0.005						<0.005	
2/20/2018	<0.005						<0.005		
3/29/2018			<0.005	<0.005	<0.005				
3/30/2018						<0.005			
4/3/2018	<0.005	<0.005					<0.005	<0.005	
4/4/2018									<0.005
6/6/2018				<0.005					
6/7/2018			0.00058 (J)		<0.005				
6/12/2018						<0.005			
6/27/2018								0.00069 (J)	
6/28/2018	<0.005	<0.005					<0.005		
8/7/2018	<0.005	<0.005					<0.005	<0.005	
9/20/2018									0.003 (J)
9/24/2018	<0.005	<0.005					<0.005	<0.005	
9/26/2018			<0.005	<0.005	<0.005				
9/27/2018						<0.005			
3/4/2019			<0.005	<0.005	<0.005				
3/6/2019						<0.005			

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/26/2023 11:07 AM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-41 (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
4/3/2019			0.00083 (J)	<0.005	<0.005				
4/4/2019						<0.005			
8/21/2019	0.00034 (J)	<0.005							
8/22/2019							<0.005	<0.005	0.0019 (J)
9/24/2019				<0.005	<0.005				
9/25/2019			<0.005						
9/27/2019						<0.005			
10/9/2019	<0.005	<0.005					<0.005	<0.005	0.0019 (J)
2/12/2020	0.00034 (J)	<0.005	<0.005	0.00037 (J)	<0.005				
3/24/2020		<0.005		0.00035 (J)	<0.005				
3/25/2020	0.00034 (J)		0.00056 (J)				<0.005	<0.005	0.0018 (J)
3/26/2020						<0.005			
9/22/2020			<0.005	<0.005	<0.005				
9/24/2020	0.00053 (J)	<0.005				<0.005			0.0017 (J)
9/25/2020							<0.005	<0.005	
2/8/2021				<0.005	<0.005				
2/9/2021			<0.005			<0.005	<0.005		
2/10/2021	0.00098 (J)	<0.005						<0.005	0.0019 (J)
3/2/2021				<0.005	<0.005				
3/3/2021			<0.005						
3/4/2021	0.00071 (J)	<0.005				<0.005	<0.005	<0.005	0.0018 (J)
8/25/2021						<0.005			0.0014 (J)
8/26/2021	0.0011 (J)		0.00042 (J)	<0.005	<0.005		<0.005	<0.005	
9/3/2021		<0.005							
9/27/2021									
2/8/2022	0.0012 (J)	<0.005						<0.005	
2/10/2022				<0.005	<0.005	<0.005	<0.005		0.0017 (J)
2/11/2022			<0.005						
8/30/2022				<0.005	<0.005				
8/31/2022	0.00085 (J)	<0.005	<0.005						
9/1/2022						<0.005	<0.005	<0.005	0.0015 (J)
2/7/2023	0.00066 (J)			<0.005					
2/8/2023		<0.005				<0.005	<0.005	<0.005	0.0018 (J)
2/9/2023			<0.005		<0.005				

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/26/2023 11:07 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
6/2/2016	
6/7/2016	
7/26/2016	
7/28/2016	
8/30/2016	
8/31/2016	<0.005
9/14/2016	
9/20/2016	
11/2/2016	
11/4/2016	
11/8/2016	
11/16/2016	<0.005
1/12/2017	
1/13/2017	
1/16/2017	
2/24/2017	<0.005
2/27/2017	
3/6/2017	
3/7/2017	
3/9/2017	
5/1/2017	
5/2/2017	
5/10/2017	<0.005
6/27/2017	
6/29/2017	
7/10/2017	
7/11/2017	<0.005
10/11/2017	
10/12/2017	0.0006 (J)
11/20/2017	
11/21/2017	
1/10/2018	
1/11/2018	
1/12/2018	
2/19/2018	
2/20/2018	
3/29/2018	
3/30/2018	
4/3/2018	
4/4/2018	<0.005
6/6/2018	
6/7/2018	
6/12/2018	
6/27/2018	
6/28/2018	
8/7/2018	
9/20/2018	0.0034 (J)
9/24/2018	
9/26/2018	
9/27/2018	
3/4/2019	
3/6/2019	

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/26/2023 11:07 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
4/3/2019	
4/4/2019	
8/21/2019	0.0026 (J)
8/22/2019	
9/24/2019	
9/25/2019	
9/27/2019	
10/9/2019	0.0023 (J)
2/12/2020	
3/24/2020	
3/25/2020	0.0016 (J)
3/26/2020	
9/22/2020	
9/24/2020	
9/25/2020	0.0018 (J)
2/8/2021	
2/9/2021	0.0017 (J)
2/10/2021	
3/2/2021	
3/3/2021	
3/4/2021	0.0015 (J)
8/25/2021	
8/26/2021	
9/3/2021	
9/27/2021	<0.005
2/8/2022	0.00045 (J)
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	
9/1/2022	0.0005 (J)
2/7/2023	
2/8/2023	0.00049 (J)
2/9/2023	

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/26/2023 11:07 AM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
5/1/2007			0.0067						
9/11/2007			<0.005						
3/20/2008			<0.005						
8/27/2008			<0.005						
3/3/2009			<0.005						
11/18/2009			<0.005						
3/3/2010			0.0027						
9/8/2010			0.007						
3/10/2011			<0.005						
9/8/2011			<0.005						
3/5/2012			0.0032						
9/10/2012			<0.005						
2/6/2013			<0.005						
8/12/2013			0.0045						
2/5/2014			<0.005						
8/5/2014			0.0027						
2/4/2015			0.0016						
8/3/2015			0.002						
2/16/2016			0.0027						
6/1/2016					<0.005	0.00082 (J)			
6/2/2016				<0.005				0.035	<0.005
7/25/2016						0.0008 (J)		0.0312	
7/26/2016				<0.005	<0.005				<0.005
8/30/2016		0.0073 (J)							
8/31/2016			0.0053 (J)						
9/1/2016	<0.005								
9/13/2016					<0.005	0.0009 (J)			
9/14/2016							<0.005		
9/15/2016				<0.005					<0.005
9/19/2016								0.0275	
11/1/2016					<0.005			0.0255	<0.005
11/2/2016				<0.005					
11/4/2016						0.0025 (J)	<0.005		
11/14/2016		0.0115							
11/15/2016	0.0006 (J)								
11/28/2016			0.0036 (J)						
12/15/2016							<0.005		
1/10/2017				<0.005					
1/11/2017					<0.005				<0.005
1/16/2017						0.0027 (J)	<0.005	0.0245	
2/21/2017								0.0272	
2/22/2017			0.0049 (J)						
2/24/2017		0.0106							
2/27/2017	0.0008 (J)								
3/1/2017									
3/2/2017					<0.005	0.0022 (J)			<0.005
3/3/2017							<0.005		
3/8/2017				<0.005					
4/26/2017				<0.005				0.0244	<0.005
4/27/2017					<0.005	0.0018 (J)			
4/28/2017							<0.005		
5/8/2017		0.0099 (J)	0.0059 (J)						

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/26/2023 11:07 AM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
5/9/2017	<0.005								
5/26/2017							<0.005		
6/27/2017					<0.005	0.0023 (J)			
6/28/2017							<0.005		<0.005
6/30/2017				<0.005				0.0233	
7/11/2017		0.0096 (J)							
7/13/2017	0.0005 (J)								
7/17/2017			0.0046 (J)						
10/10/2017		0.0036 (J)							
10/11/2017	0.0006 (J)								
10/16/2017			0.0034 (J)						
2/19/2018			<0.005						
3/27/2018				<0.005		<0.005		0.023	
3/28/2018							<0.005		<0.005
3/29/2018					<0.005				
4/2/2018		<0.005							
4/4/2018	<0.005								
6/5/2018					<0.005				
6/6/2018						<0.005			
6/7/2018							<0.005		<0.005
6/8/2018				<0.005					
6/11/2018								0.023	
8/6/2018			0.003 (J)						
9/19/2018		0.0036 (J)							
9/20/2018	<0.005								
10/1/2018				<0.005	<0.005	0.00059 (J)	<0.005		<0.005
10/2/2018								0.022	
2/25/2019			0.001 (J)						
2/26/2019				<0.005				0.021	
2/27/2019					<0.005	0.00064 (J)	<0.005		<0.005
3/28/2019					<0.005	0.00091 (J)			
3/29/2019				<0.005			<0.005		
4/1/2019								0.022	<0.005
6/12/2019			0.003 (J)						
8/19/2019			0.0035 (J)						
8/20/2019		0.00092 (J)							
9/24/2019					<0.005	0.0013 (J)	<0.005		
9/25/2019				<0.005				0.016	<0.005
9/26/2019	<0.005								
10/8/2019		0.0014 (J)	0.0039 (J)						
2/10/2020					<0.005	0.0016 (J)			
2/11/2020							<0.005		
2/12/2020				<0.005				0.014	<0.005
3/17/2020		0.0017 (J)	0.003 (J)						
3/18/2020				<0.005		0.00087 (J)			
3/19/2020					<0.005		<0.005	0.014	<0.005
3/25/2020	<0.005								
8/26/2020			0.2 (O)						
8/27/2020		0.0011 (J)							
9/22/2020		0.00097 (J)	0.16 (O)						
9/23/2020					<0.005	0.0013 (J)	<0.005		<0.005
9/24/2020	<0.005							0.0064	

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/26/2023 11:07 AM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
9/25/2020				<0.005					
2/9/2021	<0.005								
2/10/2021				<0.005			<0.005		<0.005
2/11/2021								0.0078	
2/12/2021					0.00086 (J)	0.0028 (J)			
3/1/2021		0.001 (J)						0.0061	
3/2/2021			0.21 (O)	<0.005					
3/3/2021					<0.005	0.003 (J)	<0.005		<0.005
3/4/2021	<0.005								
8/19/2021		0.00099 (J)		<0.005	0.00055 (J)	0.0017 (J)		0.0052	<0.005
8/20/2021			0.074 (O)						
8/27/2021							<0.005		
9/1/2021	<0.005								
2/8/2022	<0.005	0.0013 (J)	0.072 (o)						
2/9/2022					0.00072 (J)	0.0023 (J)	<0.005		<0.005
2/10/2022				<0.005					
2/11/2022								0.0038 (J)	
8/30/2022			0.075 (o)		<0.005		<0.005		
8/31/2022	<0.005	0.00096 (J)		<0.005		0.00085 (J)		0.004 (J)	<0.005
2/7/2023			0.034		0.00097 (J)	0.0048 (J)	<0.005		
2/8/2023		0.0011 (J)		<0.005				0.0031 (J)	<0.005
2/9/2023	<0.005								

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/26/2023 11:07 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

YGWA-3I (bg)

5/1/2007	
9/11/2007	
3/20/2008	
8/27/2008	
3/3/2009	
11/18/2009	
3/3/2010	
9/8/2010	
3/10/2011	
9/8/2011	
3/5/2012	
9/10/2012	
2/6/2013	
8/12/2013	
2/5/2014	
8/5/2014	
2/4/2015	
8/3/2015	
2/16/2016	
6/1/2016	<0.005
6/2/2016	
7/25/2016	<0.005
7/26/2016	
8/30/2016	
8/31/2016	
9/1/2016	
9/13/2016	
9/14/2016	<0.005
9/15/2016	
9/19/2016	
11/1/2016	<0.005
11/2/2016	
11/4/2016	
11/14/2016	
11/15/2016	
11/28/2016	
12/15/2016	
1/10/2017	
1/11/2017	<0.005
1/16/2017	
2/21/2017	
2/22/2017	
2/24/2017	
2/27/2017	
3/1/2017	<0.005
3/2/2017	
3/3/2017	
3/8/2017	
4/26/2017	<0.005
4/27/2017	
4/28/2017	
5/8/2017	

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/26/2023 11:07 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

YGWA-3I (bg)

5/9/2017	
5/26/2017	
6/27/2017	
6/28/2017	<0.005
6/30/2017	
7/11/2017	
7/13/2017	
7/17/2017	
10/10/2017	
10/11/2017	
10/16/2017	
2/19/2018	
3/27/2018	
3/28/2018	<0.005
3/29/2018	
4/2/2018	
4/4/2018	
6/5/2018	
6/6/2018	
6/7/2018	
6/8/2018	<0.005
6/11/2018	
8/6/2018	
9/19/2018	
9/20/2018	
10/1/2018	<0.005
10/2/2018	
2/25/2019	
2/26/2019	
2/27/2019	<0.005
3/28/2019	
3/29/2019	
4/1/2019	<0.005
6/12/2019	
8/19/2019	
8/20/2019	
9/24/2019	
9/25/2019	<0.005
9/26/2019	
10/8/2019	
2/10/2020	
2/11/2020	<0.005
2/12/2020	
3/17/2020	
3/18/2020	
3/19/2020	<0.005
3/25/2020	
8/26/2020	
8/27/2020	
9/22/2020	
9/23/2020	<0.005
9/24/2020	

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/26/2023 11:07 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
9/25/2020	
2/9/2021	
2/10/2021	<0.005
2/11/2021	
2/12/2021	
3/1/2021	
3/2/2021	
3/3/2021	<0.005
3/4/2021	
8/19/2021	
8/20/2021	
8/27/2021	<0.005
9/1/2021	
2/8/2022	
2/9/2022	<0.005
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	<0.005
2/7/2023	
2/8/2023	<0.005
2/9/2023	

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/26/2023 11:07 AM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB
6/8/2016							<0.005
8/1/2016							<0.005
9/2/2016			0.0006 (J)				
9/20/2016							<0.005
11/8/2016							<0.005
11/14/2016			<0.005				
1/17/2017							<0.005
2/28/2017			<0.005				
3/8/2017							<0.005
5/2/2017							<0.005
5/9/2017			<0.005				
7/7/2017							<0.005
7/13/2017			<0.005				
9/22/2017			<0.005				
9/29/2017			<0.005				
10/6/2017			<0.005				
10/12/2017		0.0078 (J)					
11/21/2017		0.0097 (J)					
1/11/2018		0.0131					
2/20/2018		0.0162					
3/30/2018			<0.005				<0.005
4/3/2018		0.015					
6/12/2018							<0.005
6/13/2018			<0.005				
6/29/2018		0.013					
8/6/2018		0.0053 (J)					
9/24/2018		0.0071 (J)					
9/26/2018			<0.005				<0.005
10/16/2018	<0.005						
3/5/2019							<0.005
3/6/2019			<0.005				
4/4/2019			<0.005				<0.005
9/26/2019	<0.005		0.00048 (J)				<0.005
3/25/2020	0.0059		0.00038 (J)				
3/26/2020							<0.005
9/23/2020							<0.005
9/24/2020	<0.005						
9/25/2020		0.0023 (J)					
10/7/2020			0.00086 (J)				
2/9/2021		0.0023 (J)					<0.005
2/10/2021	<0.005		0.00038 (J)				
3/3/2021							<0.005
3/4/2021	<0.005	0.003 (J)	<0.005				
8/25/2021		0.0068					
9/1/2021	<0.005						<0.005
9/3/2021			<0.005	<0.005			
2/10/2022	<0.005	0.0036 (J)				0.033	<0.005
2/11/2022			<0.005	<0.005	0.0011 (J)		
8/31/2022	<0.005						
9/1/2022		0.0025 (J)	<0.005	<0.005	0.0016 (J)	0.018	
2/8/2023		0.0022 (J)	<0.005	<0.005	0.0026 (J)		
2/9/2023	<0.005		<0.005			0.0071	

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/26/2023 11:07 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB
2/10/2023							<0.005

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/6/2016							0.0804 (U)	0.301 (U)	
6/7/2016						0.158 (U)			0.0191 (U)
7/27/2016						0.0354 (U)	0.206 (U)	0.196 (U)	0.541 (U)
7/28/2016									
9/16/2016						1.04		0.915 (U)	
9/19/2016							1.58		0.826 (U)
11/2/2016									0.791 (U)
11/3/2016						0.314 (U)	0.342 (U)	0.928 (U)	
1/11/2017						0.34 (U)	0.365 (U)	0.502 (U)	
1/13/2017									0.296 (U)
3/1/2017							0.395 (U)	0.202 (U)	
3/2/2017						0.746 (U)			
3/6/2017									0.518 (U)
4/26/2017							0.507 (U)	0.264 (U)	0.282 (U)
5/2/2017						0.111 (U)			
6/28/2017							0.892	0.636 (U)	
6/29/2017						0.576 (U)			1.12
3/28/2018						0.438 (U)	0.92 (U)	0.56 (U)	
3/29/2018									1.73
6/5/2018									
6/6/2018									0.694 (U)
6/7/2018							0.668 (U)		
6/11/2018						0.901 (U)		0.649 (U)	
9/25/2018						0.68 (U)	0.141 (U)	0.574 (U)	0.772 (U)
10/16/2018	0.384 (U)								
3/5/2019						0.272 (U)		0.474 (U)	0.84 (U)
3/6/2019							0.714 (U)		
4/2/2019						0.847 (U)			
4/3/2019							0.385 (U)	0.429 (U)	1.01
9/24/2019									
9/25/2019						0.412 (U)			1.18 (U)
9/26/2019							0.386 (U)	0.222 (U)	
2/11/2020						0.461 (U)	1.48	0.597 (U)	
2/12/2020									1.11 (U)
3/24/2020						0.534 (U)	0.632 (U)	0.262 (U)	1.88
3/25/2020	0.525 (U)								
9/23/2020		0.0813 (U)		1.2 (U)		0.466 (U)	0.887 (U)	0.43 (U)	
9/24/2020	0.547 (U)				0.668 (U)				0.611 (U)
2/9/2021	0.866 (U)	0.492 (U)		0.659 (U)	1.07 (U)	0.529 (U)	0.314 (U)	0.259 (U)	0.284 (U)
3/3/2021	0.377 (U)	0.563 (U)		1.07		0.59 (U)	0.565 (U)	0.352 (U)	0.133 (U)
3/4/2021					1.46				
8/25/2021				0.0991 (U)					
8/26/2021					0.724 (U)			0.686 (U)	
8/27/2021						0.9 (U)	0.761 (U)		0.779 (U)
9/1/2021	0.676 (U)	0.761 (U)							
2/9/2022						0.133 (U)	0.571 (U)	0.0618 (U)	0.504 (U)
2/10/2022	0.233 (U)	0 (U)	0.988 (U)	0.702 (U)	1.25 (U)				
8/30/2022						1.08	1.01	0.611 (U)	
8/31/2022	0.313 (U)								0.184 (U)
9/1/2022		0.959 (U)	0.975 (U)	0.381 (U)	0.811 (U)				
2/7/2023						0.367 (U)	0.485 (U)	0.656 (U)	0.794 (U)
2/8/2023		0.0994 (U)		0.239 (U)	0.502 (U)				

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/26/2023 11:07 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
2/9/2023	0.595 (U)		2.19						

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

YGWA-211 (bg)

6/6/2016	
6/7/2016	0.347
7/27/2016	
7/28/2016	0.815 (U)
9/16/2016	
9/19/2016	0.862 (U)
11/2/2016	
11/3/2016	0.797 (U)
1/11/2017	
1/13/2017	0.72 (U)
3/1/2017	
3/2/2017	
3/6/2017	0.518 (U)
4/26/2017	1.13 (U)
5/2/2017	
6/28/2017	
6/29/2017	0.841 (U)
3/28/2018	
3/29/2018	1.91
6/5/2018	1.39
6/6/2018	
6/7/2018	
6/11/2018	
9/25/2018	1.62
10/16/2018	
3/5/2019	0.985 (U)
3/6/2019	
4/2/2019	1.42
4/3/2019	
9/24/2019	1.35
9/25/2019	
9/26/2019	
2/11/2020	
2/12/2020	1.61
3/24/2020	1.24 (U)
3/25/2020	
9/23/2020	
9/24/2020	1.8
2/9/2021	1.24
3/3/2021	1.2
3/4/2021	
8/25/2021	
8/26/2021	
8/27/2021	
9/1/2021	1.86
2/9/2022	1.94
2/10/2022	
8/30/2022	1.27
8/31/2022	
9/1/2022	
2/7/2023	1.53
2/8/2023	

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/26/2023 11:07 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

YGWA-211 (bg)

2/9/2023

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-41 (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/2/2016			0.721	5.11	0.614				
6/7/2016						0.303 (U)			
7/26/2016			1.26	6.92	1.47				
7/28/2016						0.386 (U)			
8/30/2016									2.99
8/31/2016									
9/14/2016			0.901 (U)	3.96	1.27				
9/20/2016						1.47			
11/2/2016			1.09 (U)	4.53					
11/4/2016					0.434 (U)				
11/8/2016						0.22 (U)			
11/16/2016									4.01
1/12/2017				4.43	0.202 (U)				
1/13/2017			1.19						
1/16/2017						0.147 (U)			
2/24/2017									
2/27/2017									2.5
3/6/2017			0.669 (U)						
3/7/2017				4.8	0.0674 (U)				
3/9/2017						0.0892 (U)			
5/1/2017			0.803 (U)	4.16					
5/2/2017					0.444 (U)	0.149 (U)			
5/10/2017									2.55
6/27/2017				2.8	0.77 (U)				
6/29/2017			1.35						
7/10/2017						0.815 (U)			
7/11/2017									3.94
10/11/2017	0.586 (U)								
10/12/2017		1.49					1.24	0.641 (U)	3.57
11/20/2017	0.816 (U)	0.918 (U)					0.342 (U)		
11/21/2017								2.01	
1/10/2018		1.05							
1/11/2018	0.841 (U)							0.919 (U)	
1/12/2018							1.04		
2/19/2018		2.05						1.82	
2/20/2018	1.58						1.6 (U)		
3/29/2018			0.703 (U)	3.42	0.648 (U)				
3/30/2018						0.659 (U)			
4/3/2018	0.385 (U)	0.68 (U)					0.726 (U)	0.911 (U)	
4/4/2018									1.9
6/6/2018				3.99					
6/7/2018			0.628 (U)		0.745 (U)				
6/12/2018						1.03 (U)			
6/27/2018								0.429 (U)	
6/28/2018	0.283 (U)	1.28					1.06 (U)		
8/7/2018	0.332 (U)	1.16					1.21	0.579 (U)	
9/20/2018									1.94
9/24/2018	0.767 (U)	0.965 (U)					1.52	1.39	
9/26/2018			0.756 (U)	2.73	0.377 (U)				
9/27/2018						1.06 (U)			
3/4/2019			1.21 (U)	4.43	1 (U)				
3/6/2019						0.736 (U)			

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-41 (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
4/3/2019			1.07 (U)	4.79	0.43 (U)				
4/4/2019						0.474 (U)			
8/21/2019	1.01 (U)	1.24 (U)							
8/22/2019						1.97	2.03	1.59	
9/24/2019				4.06	0.699 (U)				
9/25/2019			1.86						
9/27/2019						0.684 (U)			
10/8/2019	1.02 (U)	0.866 (U)					0.751 (U)	0.609 (U)	0.995 (U)
2/12/2020	0.45 (U)	1.83	1.25	4.02	0.913 (U)				
3/24/2020		1.27 (U)		3.52					
3/25/2020	0.377 (U)		0.766 (U)				0.321 (U)	0.568 (U)	1.17 (U)
3/26/2020						0.281 (U)			
9/22/2020			0.795 (U)	2.98	0.428 (U)				
9/24/2020	0.568 (U)	0.634 (U)				0.788 (U)			0.751 (U)
9/25/2020							0.246 (U)	0.769 (U)	
2/8/2021				2.89	0.613 (U)				
2/9/2021			0.626 (U)			0.464 (U)	0.626 (U)		
2/10/2021	0.518 (U)	0.783 (U)						0.548 (U)	0.612 (U)
3/2/2021				1.67	0.579 (U)				
3/3/2021			1						
3/4/2021	0.636 (U)	0.818 (U)				0.771 (U)	0.816 (U)	1.23	1.02
8/25/2021						0.624 (U)			0.978 (U)
8/26/2021	0.674 (U)		1.17 (U)	4.68	0.798 (U)		0.427 (U)	0.356 (U)	
9/3/2021		0.971 (U)							
9/27/2021								0.594 (U)	
2/8/2022	0.834	0.534 (U)							
2/10/2022				3.33	0.375 (U)	0.197 (U)	0.791 (U)		0.307 (U)
2/11/2022			0.996						
8/30/2022				5.34	0.72 (U)				
8/31/2022	0.937	0.513 (U)	0.962						
9/1/2022						1.23 (U)	0.52 (U)	0.0906 (U)	0.596 (U)
2/7/2023	1.41			3.99					
2/8/2023		1.56				0.4 (U)	0.361 (U)	0.852 (U)	0.817
2/9/2023			1.12		0.0815 (U)				

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/26/2023 11:07 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

YGWC-43

6/2/2016	
6/7/2016	
7/26/2016	
7/28/2016	
8/30/2016	
8/31/2016	0.926 (U)
9/14/2016	
9/20/2016	
11/2/2016	
11/4/2016	
11/8/2016	
11/16/2016	0.773 (U)
1/12/2017	
1/13/2017	
1/16/2017	
2/24/2017	0.661 (U)
2/27/2017	
3/6/2017	
3/7/2017	
3/9/2017	
5/1/2017	
5/2/2017	
5/10/2017	1.27
6/27/2017	
6/29/2017	
7/10/2017	
7/11/2017	1.02
10/11/2017	
10/12/2017	1.58
11/20/2017	
11/21/2017	
1/10/2018	
1/11/2018	
1/12/2018	
2/19/2018	
2/20/2018	
3/29/2018	
3/30/2018	
4/3/2018	
4/4/2018	1.71
6/6/2018	
6/7/2018	
6/12/2018	
6/27/2018	
6/28/2018	
8/7/2018	
9/20/2018	2.8
9/24/2018	
9/26/2018	
9/27/2018	
3/4/2019	
3/6/2019	

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/26/2023 11:07 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

YGWC-43

4/3/2019	
4/4/2019	
8/21/2019	3.16
8/22/2019	
9/24/2019	
9/25/2019	
9/27/2019	
10/8/2019	3.65
2/12/2020	
3/24/2020	
3/25/2020	3.04
3/26/2020	
9/22/2020	
9/24/2020	
9/25/2020	4.75
2/8/2021	
2/9/2021	6.38
2/10/2021	
3/2/2021	
3/3/2021	
3/4/2021	6.02
8/25/2021	
8/26/2021	
9/3/2021	
9/27/2021	1.54
2/8/2022	3.11
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	
9/1/2022	4.16
2/7/2023	
2/8/2023	3.73
2/9/2023	

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
6/1/2016					0.321 (U)	0.42			
6/2/2016				0.329 (U)				0.0652 (U)	2.51
7/25/2016						1.83		3.01	
7/26/2016				1.51	0.707 (U)				3.82
8/30/2016		1.09							
8/31/2016			1.2						
9/1/2016	1.2								
9/13/2016					1.22	0.841			
9/14/2016							0.98 (U)		
9/15/2016				1.04 (U)					4.24
9/19/2016								0.871 (U)	
11/1/2016					0.805 (U)			0.307 (U)	3.92
11/2/2016				0.496 (U)					
11/4/2016						0.166 (U)	0.277 (U)		
11/15/2016	0.645 (U)								
11/28/2016			0.264 (U)						
12/15/2016		1 (U)					0.071 (U)		
1/10/2017				0.376 (U)					
1/11/2017					0.705 (U)				2.52
1/16/2017						0	0.44 (U)	0.284 (U)	
2/21/2017								0.503 (U)	
2/22/2017			1.06 (U)						
2/24/2017		0.504 (U)							
2/27/2017	0.244 (U)								
3/1/2017									
3/2/2017					0.251 (U)	0.504 (U)			3.13
3/3/2017							0.448 (U)		
3/8/2017				0.0745 (U)					
4/26/2017				0.282 (U)				0.204 (U)	2.35
4/27/2017					1.08	0.593 (U)			
4/28/2017							0.548 (U)		
5/8/2017		0.455 (U)	0.187 (U)						
5/9/2017	0.519 (U)								
5/26/2017							0 (U)		
6/27/2017					1.02 (U)	0.657 (U)			
6/28/2017							0.608 (U)		2.6
6/30/2017				0.994				0.738 (U)	
7/11/2017		0.471 (U)							
7/13/2017	0.5 (U)								
7/17/2017			1.42						
10/10/2017		0.649 (U)							
10/11/2017	1.41								
10/16/2017			1.17						
2/19/2018			1.58 (D)						
3/27/2018				0.189 (U)		0.39 (U)		0.31 (U)	
3/28/2018							0.412 (U)		3
3/29/2018					0.503 (U)				
4/2/2018		0.512 (U)							
4/4/2018	0.442 (U)								
6/5/2018					0.771 (U)				
6/6/2018						2.8			
6/7/2018							0.73 (U)		2.79

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
6/1/2016	0.896
6/2/2016	
7/25/2016	2.28
7/26/2016	
8/30/2016	
8/31/2016	
9/1/2016	
9/13/2016	
9/14/2016	0.821 (U)
9/15/2016	
9/19/2016	
11/1/2016	0.585 (U)
11/2/2016	
11/4/2016	
11/15/2016	
11/28/2016	
12/15/2016	
1/10/2017	
1/11/2017	1.22
1/16/2017	
2/21/2017	
2/22/2017	
2/24/2017	
2/27/2017	
3/1/2017	0.877 (U)
3/2/2017	
3/3/2017	
3/8/2017	
4/26/2017	0.672 (U)
4/27/2017	
4/28/2017	
5/8/2017	
5/9/2017	
5/26/2017	
6/27/2017	
6/28/2017	1.07 (U)
6/30/2017	
7/11/2017	
7/13/2017	
7/17/2017	
10/10/2017	
10/11/2017	
10/16/2017	
2/19/2018	
3/27/2018	
3/28/2018	0.65 (U)
3/29/2018	
4/2/2018	
4/4/2018	
6/5/2018	
6/6/2018	
6/7/2018	

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
6/8/2018	1.89
6/11/2018	
8/6/2018	
9/19/2018	
9/20/2018	
10/1/2018	1.58
10/2/2018	
2/26/2019	
2/27/2019	3.67
3/28/2019	
3/29/2019	
4/1/2019	2.28
8/19/2019	
8/20/2019	
9/24/2019	
9/25/2019	1.6
9/26/2019	
10/8/2019	
2/10/2020	
2/11/2020	1.85
2/12/2020	
3/17/2020	
3/18/2020	
3/19/2020	2.2
3/25/2020	
8/26/2020	
8/27/2020	
9/22/2020	
9/23/2020	1.14 (U)
9/24/2020	
9/25/2020	
2/9/2021	
2/10/2021	2.46
2/11/2021	
2/12/2021	
3/1/2021	
3/2/2021	
3/3/2021	2.03
3/4/2021	
8/19/2021	
8/20/2021	
8/27/2021	1.34
9/1/2021	
2/8/2022	
2/9/2022	1.91
2/10/2022	
8/30/2022	
8/31/2022	1.33
2/7/2023	
2/8/2023	1.18
2/9/2023	

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB
6/8/2016							1.06
8/1/2016							0.467 (U)
9/2/2016			0.873 (U)				
9/20/2016							0.853 (U)
9/22/2016			0.667 (U)				
9/29/2016			1.63				
10/6/2016			0.641 (U)				
11/8/2016							0.433 (U)
11/14/2016			0.0451 (U)				
1/17/2017							0.0759 (U)
2/28/2017			1.34 (U)				
3/8/2017							0.479 (U)
5/2/2017							0.506 (U)
5/9/2017			0.309 (U)				
7/7/2017							0.713 (U)
7/13/2017			0.618 (U)				
10/12/2017		1.83					
11/21/2017		1.33					
1/11/2018		1.53					
2/20/2018		2.75					
3/30/2018			0.721 (U)				0.409 (U)
4/3/2018		1.47					
6/12/2018							0.728 (U)
6/13/2018			1.04 (U)				
6/29/2018		1.69					
8/6/2018		1.69					
9/24/2018		2.26					
9/26/2018			0.604 (U)				0.981
10/16/2018	0.363 (U)						
3/5/2019							0.837 (U)
3/6/2019			0.919 (U)				
4/4/2019			1.05 (U)				
4/9/2019							0.502 (U)
9/26/2019			0.979 (U)				0.964 (U)
3/25/2020	0.197 (U)		1.22 (U)				
3/26/2020							0.511 (U)
9/23/2020							0.786 (U)
9/24/2020	1.07 (U)						
9/25/2020		1.68 (U)					
10/7/2020			1.58				
2/9/2021		1.52					0.678 (U)
2/10/2021	0.546 (U)		0.466 (U)				
3/3/2021							0.415 (U)
3/4/2021	0.397 (U)	1.49	0.0671 (U)				
8/25/2021		1.41					
9/1/2021	0.696 (U)						0.444 (U)
9/3/2021			0.622 (U)	3.18			
11/4/2021					0.721 (U)		
2/10/2022	1.25 (U)	0.81 (U)				0.964 (U)	0.846 (U)
2/11/2022			0.395 (U)	0.815 (U)	1.52		
8/31/2022	0.326 (U)						
9/1/2022		0.463 (U)	0.189 (U)	2.54	0.225 (U)	0.389 (U)	

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/6/2016							<0.1	<0.1	
6/7/2016						<0.1			<0.1
7/27/2016						<0.1	<0.1	<0.1	<0.1
7/28/2016									
9/16/2016						<0.1		<0.1	
9/19/2016							<0.1		<0.1
11/2/2016									<0.1
11/3/2016						<0.1	<0.1	<0.1	
1/11/2017						<0.1	<0.1	<0.1	
1/13/2017									<0.1
3/1/2017							<0.1	<0.1	
3/2/2017						<0.1			
3/6/2017									<0.1
4/26/2017							<0.1	<0.1	<0.1
5/2/2017						<0.1			
6/28/2017							<0.1	<0.1	
6/29/2017						<0.1			<0.1
10/3/2017									
10/4/2017						<0.1		<0.1	<0.1
10/5/2017							<0.1		
3/28/2018						<0.1	<0.1	<0.1	
3/29/2018									<0.1
6/5/2018									
6/6/2018									<0.1
6/7/2018							<0.1		
6/11/2018						<0.1		<0.1	
9/25/2018						<0.1	<0.1	<0.1	<0.1
10/16/2018	<0.1								
3/5/2019						<0.1		<0.1	<0.1
3/6/2019							<0.1		
4/2/2019						<0.1			
4/3/2019							<0.1	<0.1	<0.1
9/24/2019									
9/25/2019						<0.1			<0.1
9/26/2019	<0.1						<0.1	<0.1	
2/11/2020						<0.1	<0.1	<0.1	
2/12/2020									<0.1
3/24/2020						<0.1	<0.1	<0.1	<0.1
3/25/2020	<0.1								
9/23/2020		<0.1		<0.1		<0.1	<0.1	<0.1	
9/24/2020	<0.1				<0.1				<0.1
2/9/2021	<0.1	<0.1		0.14	<0.1		<0.1	<0.1	<0.1
3/3/2021	<0.1	<0.1		0.14		<0.1	<0.1	<0.1	<0.1
3/4/2021					<0.1				
8/25/2021				<0.1					
8/26/2021					<0.1			<0.1	
8/27/2021						<0.1	<0.1		<0.1
9/1/2021	<0.1	<0.1							
2/9/2022						<0.1	<0.1	<0.1	<0.1
2/10/2022	<0.1	<0.1	<0.1	<0.1	<0.1				
8/30/2022						<0.1	<0.1	<0.1	
8/31/2022	<0.1								<0.1

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
9/1/2022		0.063 (J)	0.091 (J)	0.078 (J)	0.055 (J)				
2/7/2023						<0.1	<0.1	<0.1	<0.1
2/8/2023		0.061 (J)		0.079 (J)	0.05 (J)				
2/9/2023	<0.1		0.079 (J)						

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/26/2023 11:07 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-211 (bg)
6/6/2016	
6/7/2016	<0.3
7/27/2016	
7/28/2016	0.02 (J)
9/16/2016	
9/19/2016	0.02 (J)
11/2/2016	
11/3/2016	<0.3
1/11/2017	
1/13/2017	<0.3
3/1/2017	
3/2/2017	
3/6/2017	<0.3
4/26/2017	0.04 (J)
5/2/2017	
6/28/2017	
6/29/2017	<0.3
10/3/2017	<0.3
10/4/2017	
10/5/2017	
3/28/2018	
3/29/2018	<0.3
6/5/2018	0.13 (J)
6/6/2018	
6/7/2018	
6/11/2018	
9/25/2018	0 (J)
10/16/2018	
3/5/2019	0.32
3/6/2019	
4/2/2019	0.12 (J)
4/3/2019	
9/24/2019	0.15 (J)
9/25/2019	
9/26/2019	
2/11/2020	
2/12/2020	0.1 (J)
3/24/2020	0.081 (J)
3/25/2020	
9/23/2020	
9/24/2020	0.079 (J)
2/9/2021	0.092 (J)
3/3/2021	
3/4/2021	0.091 (J)
8/25/2021	
8/26/2021	
8/27/2021	
9/1/2021	0.11
2/9/2022	0.1
2/10/2022	
8/30/2022	0.1
8/31/2022	

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/26/2023 11:07 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

YGWA-211 (bg)

9/1/2022
2/7/2023
2/8/2023
2/9/2023

0.1

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/2/2016			<0.1	0.11 (J)	<0.1				
6/7/2016						<0.1			
7/26/2016			<0.1	0.05 (J)	<0.1				
7/28/2016						0.03 (J)			
8/30/2016									0.02 (J)
8/31/2016									
9/14/2016			<0.1	0.04 (J)	<0.1				
9/20/2016						<0.1			
11/2/2016			<0.1	<0.1					
11/4/2016					<0.1				
11/8/2016						<0.1			
11/16/2016									0.07 (J)
1/12/2017				0.04 (J)	<0.1				
1/13/2017			<0.1						
1/16/2017						<0.1			
2/24/2017									
2/27/2017									0.06 (J)
3/6/2017			<0.1						
3/7/2017				<0.1	<0.1				
3/9/2017						<0.1			
5/1/2017			<0.1	<0.1					
5/2/2017					<0.1	<0.1			
5/10/2017									<0.1
6/27/2017				<0.1	<0.1				
6/29/2017			<0.1						
7/10/2017						<0.1			
7/11/2017									<0.1
10/3/2017				<0.1	<0.1				
10/5/2017			<0.1						
10/11/2017	<0.1					<0.1			
10/12/2017		<0.1					<0.1	<0.1	<0.1
11/20/2017	<0.1	<0.1					0.2 (J)		
11/21/2017								<0.1	
1/10/2018		<0.1							
1/11/2018	<0.1							<0.1	
1/12/2018							0.21 (J)		
2/19/2018		<0.1						<0.1	
2/20/2018	0.23						<0.1		
3/29/2018			<0.1	<0.1	<0.1				
3/30/2018						<0.1			
4/3/2018	<0.1	<0.1					0.41	<0.1	
4/4/2018									<0.1
6/6/2018				0.15 (J)					
6/7/2018			<0.1		<0.1				
6/12/2018						<0.1			
6/27/2018								<0.1	
6/28/2018	<0.1	<0.1					0.43		
8/7/2018	0.048 (J)	<0.1					<0.1	0.11 (J)	
9/20/2018									0.041 (J)
9/24/2018	<0.1	<0.1					0.034 (J)	<0.1	
9/26/2018			<0.1	<0.1	<0.1				
9/27/2018						<0.1			

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/26/2023 11:07 AM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
3/4/2019			<0.1	0.19 (J)	<0.1				
3/6/2019						<0.1			
3/26/2019		<0.1							
3/27/2019	<0.1						0.24 (J)		<0.1
3/28/2019								0.1 (J)	
4/3/2019			<0.1	0.047 (J)	<0.1				
4/4/2019						0.049 (J)			
8/21/2019	<0.1	<0.1							
8/22/2019							<0.1	<0.1	<0.1
9/24/2019				0.05 (J)	<0.1				
9/25/2019			<0.1						
9/27/2019						0.12 (J)			
10/9/2019	<0.1	<0.1					<0.1	<0.1	<0.1
2/12/2020	<0.1	<0.1	<0.1	<0.1	<0.1				
3/24/2020		<0.1		<0.1	<0.1				
3/25/2020	<0.1		<0.1				<0.1	<0.1	<0.1
3/26/2020						<0.1			
9/22/2020			<0.1	0.056 (J)	<0.1				
9/24/2020	<0.1	<0.1				<0.1			<0.1
9/25/2020							<0.1	<0.1	
2/8/2021				0.055 (J)	<0.1				
2/9/2021			<0.1			<0.1	<0.1		
2/10/2021	<0.1	<0.1						<0.1	<0.1
3/2/2021				<0.1	<0.1				
3/3/2021			<0.1						
3/4/2021	<0.1	<0.1				<0.1	<0.1	<0.1	<0.1
8/25/2021						<0.1			<0.1
8/26/2021	0.063 (J)		<0.1	0.061 (J)	<0.1		<0.1	<0.1	
9/3/2021		<0.1							
9/27/2021									
2/8/2022	0.052 (J)	<0.1						<0.1	
2/10/2022				0.055 (J)	<0.1	<0.1	<0.1		<0.1
2/11/2022			<0.1						
8/30/2022				0.085 (J)	<0.1				
8/31/2022	0.065 (J)	0.05 (J)	0.061 (J)						
9/1/2022						0.057 (J)	<0.1	<0.1	0.053 (J)
2/7/2023	0.076 (J)			0.082 (J)					
2/8/2023		<0.1				<0.1	<0.1	<0.1	0.08 (J)
2/9/2023			0.067 (J)		<0.1				

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/26/2023 11:07 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

YGWC-43

6/2/2016	
6/7/2016	
7/26/2016	
7/28/2016	
8/30/2016	
8/31/2016	0.12 (J)
9/14/2016	
9/20/2016	
11/2/2016	
11/4/2016	
11/8/2016	
11/16/2016	0.2 (J)
1/12/2017	
1/13/2017	
1/16/2017	
2/24/2017	0.21 (J)
2/27/2017	
3/6/2017	
3/7/2017	
3/9/2017	
5/1/2017	
5/2/2017	
5/10/2017	0.04 (J)
6/27/2017	
6/29/2017	
7/10/2017	
7/11/2017	0.2 (J)
10/3/2017	
10/5/2017	
10/11/2017	
10/12/2017	0.1 (J)
11/20/2017	
11/21/2017	
1/10/2018	
1/11/2018	
1/12/2018	
2/19/2018	
2/20/2018	
3/29/2018	
3/30/2018	
4/3/2018	
4/4/2018	<0.1
6/6/2018	
6/7/2018	
6/12/2018	
6/27/2018	
6/28/2018	
8/7/2018	
9/20/2018	<0.1
9/24/2018	
9/26/2018	
9/27/2018	

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/26/2023 11:07 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

YGWC-43

3/4/2019	
3/6/2019	
3/26/2019	
3/27/2019	
3/28/2019	0.078 (J)
4/3/2019	
4/4/2019	
8/21/2019	0.062 (J)
8/22/2019	
9/24/2019	
9/25/2019	
9/27/2019	
10/9/2019	<0.1
2/12/2020	
3/24/2020	
3/25/2020	0.073 (J)
3/26/2020	
9/22/2020	
9/24/2020	
9/25/2020	<0.1
2/8/2021	
2/9/2021	0.058 (J)
2/10/2021	
3/2/2021	
3/3/2021	
3/4/2021	0.063 (J)
8/25/2021	
8/26/2021	
9/3/2021	
9/27/2021	0.1
2/8/2022	0.066 (J)
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	
9/1/2022	0.091 (J)
2/7/2023	
2/8/2023	0.11
2/9/2023	

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
6/1/2016					0.12 (J)	<0.1			
6/2/2016				<0.1				<0.1	0.62
7/25/2016						0.06 (J)		0.06 (J)	
7/26/2016				0.02 (J)	0.08 (J)				0.49
8/30/2016		0.09 (J)							
8/31/2016			0.14 (J)						
9/1/2016	0.09 (J)								
9/13/2016					0.11 (J)	<0.1			
9/14/2016							0.08 (J)		
9/15/2016				<0.1					0.54
9/19/2016								<0.1	
11/1/2016					<0.3			<0.1	0.68
11/2/2016				<0.1					
11/4/2016						<0.1	<0.3		
11/14/2016		0.18 (J)							
11/15/2016	0.16 (J)								
11/28/2016			0.12 (J)						
12/15/2016							0.06 (J)		
1/10/2017				<0.1					
1/11/2017					0.05 (J)				0.49
1/16/2017						<0.1	0.1 (J)	<0.1	
2/21/2017								<0.1	
2/22/2017			0.09 (J)						
2/24/2017		0.05 (J)							
2/27/2017	0.06 (J)								
3/1/2017									
3/2/2017					<0.3	<0.1			0.48
3/3/2017							<0.3		
3/8/2017				<0.1					
4/26/2017				<0.1				<0.1	0.48
4/27/2017					0.04 (J)	0.01 (J)			
4/28/2017							0.06 (J)		
5/8/2017		0.03 (J)	0.05 (J)						
5/9/2017	0.05 (J)								
5/26/2017							0.09 (J)		
6/27/2017					<0.3	<0.1			
6/28/2017							0.11 (J)		0.47
6/30/2017				<0.1				<0.1	
7/11/2017		0.07 (J)							
7/13/2017	<0.1								
7/17/2017			0.14 (J)						
10/3/2017					<0.3	<0.1	<0.3		
10/4/2017								<0.1	<0.47
10/5/2017				<0.1					
10/10/2017		<0.1							
10/11/2017	0.14 (J)								
10/16/2017			0.12 (J)						
2/19/2018			0.17						
3/27/2018				<0.1		<0.1		<0.1	
3/28/2018							0.31		0.56
3/29/2018					<0.3				
4/2/2018		<0.1							

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/26/2023 11:07 AM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
4/4/2018	<0.1								
6/5/2018					0.055 (J)				
6/6/2018						<0.1			
6/7/2018							0.11 (J)		0.48
6/8/2018				<0.1					
6/11/2018								<0.1	
8/6/2018			0.087 (J)						
9/19/2018		<0.1							
9/20/2018	<0.1								
10/1/2018				<0.1	<0.3	<0.1	<0.3		0.44
10/2/2018								<0.1	
2/25/2019			0.14 (J)						
2/26/2019				<0.1				<0.1	
2/27/2019					0.052 (J)	<0.1	0.12 (J)		0.53
3/27/2019		0.081 (J)							
3/28/2019	<0.1				0.036 (J)	<0.1			
3/29/2019				<0.1			0.13 (J)		
4/1/2019								<0.1	0.45
6/12/2019			0.12 (J)						
8/19/2019			<0.3						
8/20/2019		<0.1							
9/24/2019					0.063 (J)	<0.1	0.081 (J)		
9/25/2019				<0.1				<0.1	0.46
9/26/2019	0.09 (J)								
10/8/2019		0.034 (J)	0.052 (J)						
2/10/2020					0.061 (J)	<0.1			
2/11/2020							0.075 (J)		
2/12/2020				<0.1				<0.1	0.4
3/17/2020		<0.1	0.053 (J)						
3/18/2020				<0.1		<0.1			
3/19/2020					0.064 (J)		0.093 (J)	<0.1	0.51
3/25/2020	<0.1								
8/26/2020			0.068 (J)						
8/27/2020		<0.1							
9/22/2020		<0.1	0.058 (J)						
9/23/2020					0.058 (J)	<0.1	0.08 (J)		0.47
9/24/2020	<0.1							<0.1	
9/25/2020				<0.1					
2/9/2021	<0.1								
2/10/2021				<0.1			0.094 (J)		0.43
2/11/2021								<0.1	
2/12/2021					0.068 (J)	<0.1			
3/1/2021		<0.1						<0.1	
3/2/2021			0.073 (J)	<0.1					
3/3/2021					0.078 (J)	<0.1	0.085 (J)		0.44
3/4/2021	<0.1								
8/19/2021		<0.1		<0.1	0.074 (J)	<0.1		<0.1	0.47
8/20/2021			0.06 (J)						
8/27/2021							0.12		
9/1/2021	<0.1								
2/8/2022	<0.1	<0.1	0.064 (J)						
2/9/2022					0.057 (J)	<0.1	0.094 (J)		0.43

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/26/2023 11:07 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
2/10/2022				<0.1					
2/11/2022								<0.1	
8/30/2022			0.086 (J)		0.093 (J)		0.12		
8/31/2022	<0.1	0.065 (J)		0.053 (J)		0.065 (J)		0.06 (J)	0.42
2/7/2023			0.095 (J)		0.093 (J)	0.071 (J)	0.12		
2/8/2023		0.077 (J)		0.059 (J)				0.064 (J)	0.56
2/9/2023	<0.1								

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/26/2023 11:07 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
6/1/2016	0.15 (J)
6/2/2016	
7/25/2016	0.14 (J)
7/26/2016	
8/30/2016	
8/31/2016	
9/1/2016	
9/13/2016	
9/14/2016	0.18 (J)
9/15/2016	
9/19/2016	
11/1/2016	<0.1
11/2/2016	
11/4/2016	
11/14/2016	
11/15/2016	
11/28/2016	
12/15/2016	
1/10/2017	
1/11/2017	0.09 (J)
1/16/2017	
2/21/2017	
2/22/2017	
2/24/2017	
2/27/2017	
3/1/2017	<0.1
3/2/2017	
3/3/2017	
3/8/2017	
4/26/2017	0.08 (J)
4/27/2017	
4/28/2017	
5/8/2017	
5/9/2017	
5/26/2017	
6/27/2017	
6/28/2017	0.12 (J)
6/30/2017	
7/11/2017	
7/13/2017	
7/17/2017	
10/3/2017	
10/4/2017	<0.1
10/5/2017	
10/10/2017	
10/11/2017	
10/16/2017	
2/19/2018	
3/27/2018	
3/28/2018	<0.1
3/29/2018	
4/2/2018	

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/26/2023 11:07 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
4/4/2018	
6/5/2018	
6/6/2018	
6/7/2018	
6/8/2018	0.2 (J)
6/11/2018	
8/6/2018	
9/19/2018	
9/20/2018	
10/1/2018	<0.1
10/2/2018	
2/25/2019	
2/26/2019	
2/27/2019	0.13 (J)
3/27/2019	
3/28/2019	
3/29/2019	
4/1/2019	0.1 (J)
6/12/2019	
8/19/2019	
8/20/2019	
9/24/2019	
9/25/2019	0.1 (J)
9/26/2019	
10/8/2019	
2/10/2020	
2/11/2020	0.094 (J)
2/12/2020	
3/17/2020	
3/18/2020	
3/19/2020	0.11 (J)
3/25/2020	
8/26/2020	
8/27/2020	
9/22/2020	
9/23/2020	0.098 (J)
9/24/2020	
9/25/2020	
2/9/2021	
2/10/2021	<0.1
2/11/2021	
2/12/2021	
3/1/2021	
3/2/2021	
3/3/2021	0.1
3/4/2021	
8/19/2021	
8/20/2021	
8/27/2021	0.12
9/1/2021	
2/8/2022	
2/9/2022	0.097 (J)

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/26/2023 11:07 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

YGWA-3I (bg)

2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	0.13
2/7/2023	
2/8/2023	0.16
2/9/2023	

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB
6/8/2016							<0.1
8/1/2016							<0.1
9/2/2016			0.05 (J)				
9/20/2016							<0.1
11/8/2016							<0.1
11/14/2016			0.18 (J)				
1/17/2017							<0.1
2/28/2017			0.09 (J)				
3/8/2017							<0.1
5/2/2017							<0.1
5/9/2017			0.009 (J)				
7/7/2017							<0.1
7/13/2017			<0.1				
9/22/2017			0.09 (J)				
9/29/2017			<0.1				
10/5/2017							<0.1
10/6/2017			<0.1				
10/11/2017			<0.1				
10/12/2017		<0.1					
11/21/2017		0.26 (J)					
1/11/2018		<0.1					
2/20/2018		0.45					
3/30/2018			<0.1				<0.1
4/3/2018		0.31					
6/12/2018							<0.1
6/13/2018			<0.1				
6/29/2018		<0.1					
8/6/2018		0.23 (J)					
9/24/2018		<0.1					
9/26/2018			<0.1				<0.1
10/16/2018	<0.1						
3/5/2019							<0.1
3/6/2019			<0.1				
4/4/2019			0.043 (J)				0.033 (J)
9/26/2019	<0.1		0.094 (J)				0.098 (J)
3/25/2020	<0.1		<0.1				
3/26/2020							<0.1
9/23/2020							<0.1
9/24/2020	<0.1						
9/25/2020		<0.1					
10/7/2020			<0.1				
2/9/2021		<0.1					<0.1
2/10/2021	<0.1		<0.1				
3/3/2021							<0.1
3/4/2021	<0.1	<0.1	<0.1				
8/25/2021		<0.1					
9/1/2021	<0.1						<0.1
9/3/2021			<0.1	0.15			
2/10/2022	<0.1	<0.1				0.1	<0.1
2/11/2022			<0.1	0.17	0.1		
8/31/2022	<0.1						
9/1/2022		<0.1	<0.1	0.35	0.11	0.13	

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB
2/8/2023		<0.1		0.2	0.07 (J)		
2/9/2023	<0.1		<0.1			0.13	
2/10/2023							0.051 (J)

Time Series

Constituent: Lead (mg/L) Analysis Run 4/26/2023 11:07 AM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/6/2016							<0.001	<0.001	
6/7/2016						<0.001			<0.001
7/27/2016						<0.001	<0.001	<0.001	<0.001
7/28/2016									
9/16/2016						<0.001		<0.001	
9/19/2016							<0.001		<0.001
11/2/2016									0.0013 (J)
11/3/2016						<0.001	<0.001	<0.001	
1/11/2017						<0.001	<0.001	<0.001	
1/13/2017									<0.001
3/1/2017							<0.001	<0.001	
3/2/2017						8E-05 (J)			
3/6/2017									<0.001
4/26/2017							<0.001	<0.001	<0.001
5/2/2017						<0.001			
6/28/2017							<0.001	0.0001 (J)	
6/29/2017						8E-05 (J)			<0.001
3/28/2018						<0.001	<0.001	<0.001	
3/29/2018									<0.001
3/5/2019						<0.001		<0.001	<0.001
3/6/2019							<0.001		
4/2/2019						<0.001			
4/3/2019							<0.001	<0.001	<0.001
9/24/2019									
9/25/2019						<0.001			<0.001
9/26/2019	<0.001						<0.001	<0.001	
2/11/2020						<0.001	<0.001	<0.001	
2/12/2020									<0.001
3/24/2020						6.4E-05 (J)	7.1E-05 (J)	5.4E-05 (J)	0.00011 (J)
3/25/2020	<0.001								
9/23/2020		<0.001		0.00028 (J)		4.1E-05 (J)	6E-05 (J)	9.7E-05 (J)	
9/24/2020	<0.001				0.00011 (J)				9.2E-05 (J)
2/9/2021	0.00019 (J)	0.00011 (J)		0.00054 (J)	7.3E-05 (J)		5E-05 (J)	9.4E-05 (J)	6.3E-05 (J)
3/3/2021	<0.001	8E-05 (J)		9.6E-05 (J)		<0.001	<0.001	7.6E-05 (J)	4.5E-05 (J)
3/4/2021					4.1E-05 (J)				
8/25/2021				<0.001					
8/26/2021					<0.001			<0.001	
8/27/2021						<0.001	<0.001		<0.001
9/1/2021	<0.001	<0.001							
2/9/2022						<0.001	<0.001	<0.001	<0.001
2/10/2022	<0.001	<0.001	<0.001	<0.001	<0.001				
8/30/2022						<0.001	<0.001	<0.001	
8/31/2022	<0.001								<0.001
9/1/2022		<0.001	<0.001	<0.001	<0.001				
2/7/2023						<0.001	<0.001	<0.001	<0.001
2/8/2023		<0.001		<0.001	<0.001				
2/9/2023	<0.001		<0.001						

Time Series

Constituent: Lead (mg/L) Analysis Run 4/26/2023 11:07 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-211 (bg)
6/6/2016	
6/7/2016	<0.001
7/27/2016	
7/28/2016	<0.001
9/16/2016	
9/19/2016	<0.001
11/2/2016	
11/3/2016	<0.001
1/11/2017	
1/13/2017	<0.001
3/1/2017	
3/2/2017	
3/6/2017	<0.001
4/26/2017	<0.001
5/2/2017	
6/28/2017	
6/29/2017	<0.001
3/28/2018	
3/29/2018	<0.001
3/5/2019	<0.001
3/6/2019	
4/2/2019	<0.001
4/3/2019	
9/24/2019	<0.001
9/25/2019	
9/26/2019	
2/11/2020	
2/12/2020	<0.001
3/24/2020	<0.001
3/25/2020	
9/23/2020	
9/24/2020	4.6E-05 (J)
2/9/2021	<0.001
3/3/2021	
3/4/2021	<0.001
8/25/2021	
8/26/2021	
8/27/2021	
9/1/2021	<0.001
2/9/2022	<0.001
2/10/2022	
8/30/2022	<0.001
8/31/2022	
9/1/2022	
2/7/2023	<0.001
2/8/2023	
2/9/2023	

Time Series

Constituent: Lead (mg/L) Analysis Run 4/26/2023 11:07 AM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-41 (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/2/2016			<0.001	<0.001	<0.001				
6/7/2016						0.00044 (J)			
7/26/2016			<0.001	<0.001	<0.001				
7/28/2016						<0.001			
8/30/2016									<0.001
8/31/2016									
9/14/2016			<0.001	<0.001	<0.001				
9/20/2016						<0.001			
11/2/2016			<0.001	<0.001					
11/4/2016					<0.001				
11/8/2016						<0.001			
11/16/2016									0.0002 (J)
1/12/2017				<0.001	<0.001				
1/13/2017			<0.001						
1/16/2017						<0.001			
2/24/2017									
2/27/2017									<0.001
3/6/2017			<0.001						
3/7/2017				0.0001 (J)	7E-05 (J)				
3/9/2017						<0.001			
5/1/2017			<0.001	<0.001					
5/2/2017					<0.001	<0.001			
5/10/2017									9E-05 (J)
6/27/2017				<0.001	<0.001				
6/29/2017			<0.001						
7/10/2017						<0.001			
7/11/2017									<0.001
10/11/2017	0.0001 (J)								
10/12/2017		9E-05 (J)					0.0001 (J)	<0.001	<0.001
11/20/2017	<0.001	<0.001					0.0001 (J)		
11/21/2017								<0.001	
1/10/2018		<0.001							
1/11/2018	0.0002 (J)							7E-05 (J)	
1/12/2018							0.0001 (J)		
2/19/2018		<0.001						<0.001	
2/20/2018	<0.001						<0.001		
3/29/2018			<0.001	<0.001	<0.001				
3/30/2018						<0.001			
4/3/2018	<0.001	<0.001					<0.001	<0.001	
4/4/2018									<0.001
6/27/2018								0.0011 (J)	
6/28/2018	<0.001	<0.001					<0.001		
8/7/2018	<0.001	<0.001					<0.001	<0.001	
9/20/2018									<0.001
9/24/2018	<0.001	<0.001					<0.001	<0.001	
3/4/2019			<0.001	<0.001	<0.001				
3/6/2019						<0.001			
4/3/2019			<0.001	<0.001	<0.001				
4/4/2019						<0.001			
8/21/2019	<0.001	<0.001							
8/22/2019							<0.001	6.7E-05 (J)	<0.001
9/24/2019				<0.001	9E-05 (J)				

Time Series

Constituent: Lead (mg/L) Analysis Run 4/26/2023 11:07 AM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-41 (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
9/25/2019			<0.001						
9/27/2019						0.00013 (J)			
10/9/2019	<0.001	<0.001					<0.001	0.00012 (J)	<0.001
2/12/2020	<0.001	<0.001	<0.001	<0.001	<0.001				
3/24/2020		<0.001		5.4E-05 (J)	6.8E-05 (J)				
3/25/2020	5.1E-05 (J)		<0.001				<0.001	<0.001	4.7E-05 (J)
3/26/2020						<0.001			
9/22/2020			<0.001	4.5E-05 (J)	4.2E-05 (J)				
9/24/2020	<0.001	3.8E-05 (J)				4.6E-05 (J)			<0.001
9/25/2020							<0.001	<0.001	
2/8/2021				0.00013 (J)	3.7E-05 (J)				
2/9/2021			<0.001			<0.001	<0.001		
2/10/2021	<0.001	<0.001						0.0002 (J)	5.4E-05 (J)
3/2/2021				5.1E-05 (J)	9.2E-05 (J)				
3/3/2021			<0.001						
3/4/2021	<0.001	<0.001				0.00021 (J)	<0.001	<0.001	<0.001
8/25/2021						<0.001			<0.001
8/26/2021	<0.001		<0.001	<0.001	<0.001		<0.001	<0.001	
9/3/2021		<0.001							
9/27/2021									
2/8/2022	<0.001	<0.001						<0.001	
2/10/2022				<0.001	<0.001	<0.001	<0.001		<0.001
2/11/2022			<0.001						
8/30/2022				<0.001	<0.001				
8/31/2022	<0.001	<0.001	<0.001						
9/1/2022						<0.001	<0.001	<0.001	<0.001
2/7/2023	<0.001			<0.001		<0.001	<0.001	<0.001	<0.001
2/8/2023		<0.001				<0.001	<0.001	<0.001	<0.001
2/9/2023			<0.001		<0.001				

Time Series

Constituent: Lead (mg/L) Analysis Run 4/26/2023 11:07 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

YGWC-43

6/2/2016	
6/7/2016	
7/26/2016	
7/28/2016	
8/30/2016	
8/31/2016	<0.001
9/14/2016	
9/20/2016	
11/2/2016	
11/4/2016	
11/8/2016	
11/16/2016	<0.001
1/12/2017	
1/13/2017	
1/16/2017	
2/24/2017	<0.001
2/27/2017	
3/6/2017	
3/7/2017	
3/9/2017	
5/1/2017	
5/2/2017	
5/10/2017	8E-05 (J)
6/27/2017	
6/29/2017	
7/10/2017	
7/11/2017	<0.001
10/11/2017	
10/12/2017	<0.001
11/20/2017	
11/21/2017	
1/10/2018	
1/11/2018	
1/12/2018	
2/19/2018	
2/20/2018	
3/29/2018	
3/30/2018	
4/3/2018	
4/4/2018	<0.001
6/27/2018	
6/28/2018	
8/7/2018	
9/20/2018	<0.001
9/24/2018	
3/4/2019	
3/6/2019	
4/3/2019	
4/4/2019	
8/21/2019	<0.001
8/22/2019	
9/24/2019	

Time Series

Constituent: Lead (mg/L) Analysis Run 4/26/2023 11:07 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

YGWC-43	
9/25/2019	
9/27/2019	
10/9/2019	<0.001
2/12/2020	
3/24/2020	
3/25/2020	7.5E-05 (J)
3/26/2020	
9/22/2020	
9/24/2020	
9/25/2020	<0.001
2/8/2021	
2/9/2021	<0.001
2/10/2021	
3/2/2021	
3/3/2021	
3/4/2021	<0.001
8/25/2021	
8/26/2021	
9/3/2021	
9/27/2021	<0.001
2/8/2022	<0.001
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	
9/1/2022	<0.001
2/7/2023	
2/8/2023	<0.001
2/9/2023	

Time Series

Constituent: Lead (mg/L) Analysis Run 4/26/2023 11:07 AM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
5/1/2007			<0.001						
9/11/2007			<0.001						
3/20/2008			<0.001						
8/27/2008			<0.001						
3/3/2009			<0.001						
11/18/2009			<0.001						
3/3/2010			<0.001						
9/8/2010			<0.001						
3/10/2011			<0.001						
9/8/2011			<0.001						
3/5/2012			<0.001						
9/10/2012			<0.001						
2/6/2013			<0.001						
8/12/2013			<0.001						
2/5/2014			<0.001						
8/5/2014			<0.001						
2/4/2015			<0.001						
8/3/2015			<0.001						
2/16/2016			<0.001						
6/1/2016					0.00056 (J)	<0.001			
6/2/2016				<0.001				<0.001	0.00056 (J)
7/25/2016						<0.001		<0.001	
7/26/2016				<0.001	<0.001				0.0001 (J)
8/30/2016		<0.001							
8/31/2016			<0.001						
9/1/2016	<0.001								
9/13/2016					0.0001 (J)	<0.001			
9/14/2016							<0.001		
9/15/2016				<0.001					0.0002 (J)
9/19/2016								<0.001	
11/1/2016					<0.001			<0.001	<0.001
11/2/2016				<0.001					
11/4/2016						<0.001	<0.001		
11/14/2016		<0.001							
11/15/2016	<0.001								
11/28/2016			<0.001						
12/15/2016							<0.001		
1/10/2017				<0.001					
1/11/2017					<0.001				<0.001
1/16/2017						<0.001	<0.001	<0.001	
2/21/2017								<0.001	
2/22/2017			<0.001						
2/24/2017		<0.001							
2/27/2017	<0.001								
3/1/2017									
3/2/2017					0.0001 (J)	<0.001			0.0002 (J)
3/3/2017							<0.001		
3/8/2017				0.0001 (J)					
4/26/2017				<0.001				<0.001	<0.001
4/27/2017					<0.001	<0.001			
4/28/2017							<0.001		
5/8/2017		<0.001	<0.001						

Time Series

Constituent: Lead (mg/L) Analysis Run 4/26/2023 11:07 AM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
5/9/2017	<0.001								
5/26/2017							<0.001		
6/27/2017					<0.001	<0.001			
6/28/2017							<0.001		<0.001
6/30/2017				<0.001				<0.001	
7/11/2017		<0.001							
7/13/2017	<0.001								
7/17/2017			<0.001						
10/10/2017		<0.001							
10/11/2017	<0.001								
10/16/2017			<0.001						
2/19/2018			<0.001						
3/27/2018				<0.001		<0.001		<0.001	
3/28/2018							<0.001		<0.001
3/29/2018					<0.001				
4/2/2018		<0.001							
4/4/2018	<0.001								
8/6/2018			<0.001						
9/19/2018		<0.001							
9/20/2018	<0.001								
2/25/2019			<0.001						
2/26/2019				<0.001				<0.001	
2/27/2019					<0.001	<0.001	<0.001		<0.001
6/12/2019			<0.001						
8/19/2019			<0.001						
8/20/2019		<0.001							
9/26/2019	<0.001								
10/8/2019			<0.001						
2/10/2020					4.9E-05 (J)	<0.001			
2/11/2020							<0.001		
2/12/2020				<0.001				<0.001	<0.001
3/17/2020			<0.001						
3/18/2020				<0.001		<0.001			
3/19/2020					0.00012 (J)		<0.001	<0.001	0.00017 (J)
3/25/2020	5.9E-05 (J)								
8/26/2020			<0.001						
8/27/2020		<0.001							
9/22/2020		<0.001	0.0001 (J)						
9/23/2020					<0.001	0.00021 (J)	0.0011 (J)		<0.001
9/24/2020	<0.001							<0.001	
9/25/2020				<0.001					
2/9/2021	<0.001								
2/10/2021				4.8E-05 (J)			0.00015 (J)		<0.001
2/11/2021								4.6E-05 (J)	
2/12/2021					4.4E-05 (J)	0.00038 (J)			
3/1/2021		<0.001						<0.001	
3/2/2021			<0.001	<0.001					
3/3/2021					5.6E-05 (J)	<0.001	<0.001		<0.001
3/4/2021	<0.001								
8/19/2021		<0.001		<0.001	<0.001	<0.001		<0.001	<0.001
8/20/2021			<0.001						
8/27/2021							<0.001		

Time Series

Constituent: Lead (mg/L) Analysis Run 4/26/2023 11:07 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
9/1/2021	<0.001								
2/8/2022	<0.001	<0.001	<0.001						
2/9/2022					<0.001	<0.001	<0.001		<0.001
2/10/2022				<0.001					
2/11/2022								<0.001	
8/30/2022			<0.001		<0.001		<0.001		
8/31/2022	<0.001	<0.001		<0.001		<0.001		<0.001	<0.001
2/7/2023			<0.001		<0.001	<0.001	<0.001		
2/8/2023		<0.001		<0.001				<0.001	<0.001
2/9/2023	<0.001								

Time Series

Constituent: Lead (mg/L) Analysis Run 4/26/2023 11:07 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

YGWA-3I (bg)

5/1/2007	
9/11/2007	
3/20/2008	
8/27/2008	
3/3/2009	
11/18/2009	
3/3/2010	
9/8/2010	
3/10/2011	
9/8/2011	
3/5/2012	
9/10/2012	
2/6/2013	
8/12/2013	
2/5/2014	
8/5/2014	
2/4/2015	
8/3/2015	
2/16/2016	
6/1/2016	<0.001
6/2/2016	
7/25/2016	<0.001
7/26/2016	
8/30/2016	
8/31/2016	
9/1/2016	
9/13/2016	
9/14/2016	<0.001
9/15/2016	
9/19/2016	
11/1/2016	<0.001
11/2/2016	
11/4/2016	
11/14/2016	
11/15/2016	
11/28/2016	
12/15/2016	
1/10/2017	
1/11/2017	<0.001
1/16/2017	
2/21/2017	
2/22/2017	
2/24/2017	
2/27/2017	
3/1/2017	<0.001
3/2/2017	
3/3/2017	
3/8/2017	
4/26/2017	<0.001
4/27/2017	
4/28/2017	
5/8/2017	

Time Series

Constituent: Lead (mg/L) Analysis Run 4/26/2023 11:07 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

YGWA-3I (bg)

5/9/2017	
5/26/2017	
6/27/2017	
6/28/2017	<0.001
6/30/2017	
7/11/2017	
7/13/2017	
7/17/2017	
10/10/2017	
10/11/2017	
10/16/2017	
2/19/2018	
3/27/2018	
3/28/2018	<0.001
3/29/2018	
4/2/2018	
4/4/2018	
8/6/2018	
9/19/2018	
9/20/2018	
2/25/2019	
2/26/2019	
2/27/2019	<0.001
6/12/2019	
8/19/2019	
8/20/2019	
9/26/2019	
10/8/2019	
2/10/2020	
2/11/2020	<0.001
2/12/2020	
3/17/2020	
3/18/2020	
3/19/2020	<0.001
3/25/2020	
8/26/2020	
8/27/2020	
9/22/2020	
9/23/2020	0.00015 (J)
9/24/2020	
9/25/2020	
2/9/2021	
2/10/2021	<0.001
2/11/2021	
2/12/2021	
3/1/2021	
3/2/2021	
3/3/2021	<0.001
3/4/2021	
8/19/2021	
8/20/2021	
8/27/2021	<0.001

Time Series

Constituent: Lead (mg/L) Analysis Run 4/26/2023 11:07 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
9/1/2021	
2/8/2022	
2/9/2022	<0.001
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	<0.001
2/7/2023	
2/8/2023	<0.001
2/9/2023	

Time Series

Constituent: Lead (mg/L) Analysis Run 4/26/2023 11:07 AM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB
6/8/2016							<0.001
8/1/2016							<0.001
9/2/2016			0.0017 (J)				
9/20/2016							<0.001
11/8/2016							<0.001
11/14/2016			0.0002 (J)				
1/17/2017							<0.001
2/28/2017			0.0003 (J)				
3/8/2017							<0.001
5/2/2017							<0.001
5/9/2017			0.0004 (J)				
7/7/2017							<0.001
7/13/2017			0.0004 (J)				
9/22/2017			0.0003 (J)				
9/29/2017			0.0002 (J)				
10/6/2017			0.0002 (J)				
10/12/2017		0.0002 (J)					
11/21/2017		0.0002 (J)					
1/11/2018		0.0001 (J)					
2/20/2018		<0.001					
3/30/2018			<0.001				<0.001
4/3/2018		<0.001					
6/29/2018		<0.001					
8/6/2018		<0.001					
9/24/2018		<0.001					
3/5/2019							<0.001
3/6/2019			<0.001				
4/4/2019			0.00037 (J)				<0.001
9/26/2019	<0.001		0.00023 (J)				<0.001
3/25/2020	<0.001		0.0001 (J)				
3/26/2020							5.3E-05 (J)
9/23/2020							<0.001
9/24/2020	<0.001						
9/25/2020		8.5E-05 (J)					
10/7/2020			0.00077 (J)				
2/9/2021		8.8E-05 (J)					0.00036 (J)
2/10/2021	8.7E-05 (J)		0.00051 (J)				
3/3/2021							<0.001
3/4/2021	0.00015 (J)	<0.001	0.00025 (J)				
8/25/2021		<0.001					
9/1/2021	<0.001						<0.001
9/3/2021			<0.001	<0.001			
2/10/2022	<0.001	<0.001				<0.001	<0.001
2/11/2022			<0.001	<0.001	0.0031		
8/31/2022	<0.001						
9/1/2022		<0.001	<0.001	<0.001	<0.001	<0.001	
2/8/2023		<0.001	<0.001	<0.001	<0.001		
2/9/2023	<0.001		<0.001			<0.001	
2/10/2023							<0.001

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/6/2016							0.0088	0.015	
6/7/2016						<0.03			<0.03
7/27/2016						<0.03	0.0087 (J)	0.0049 (J)	<0.03
7/28/2016									
9/16/2016						<0.03		0.0031 (J)	
9/19/2016							0.0043 (J)		<0.03
11/2/2016									<0.03
11/3/2016						<0.03	<0.05	0.0021 (J)	
1/11/2017						0.0035 (J)	0.0052 (J)	0.0025 (J)	
1/13/2017									<0.03
3/1/2017							0.0053 (J)	0.0029 (J)	
3/2/2017						<0.03			
3/6/2017									<0.03
4/26/2017							0.0041 (J)	0.0019 (J)	<0.03
5/2/2017						<0.03			
6/28/2017							0.0039 (J)	0.0016 (J)	
6/29/2017						<0.03			<0.03
3/28/2018						<0.03	0.0041 (J)	0.0024 (J)	
3/29/2018									<0.03
6/5/2018									
6/6/2018									<0.03
6/7/2018							0.0032 (J)		
6/11/2018						<0.03		0.0014 (J)	
9/25/2018						<0.03	0.0036 (J)	0.0016 (J)	<0.03
10/16/2018	0.0052 (J)								
3/5/2019						<0.03		0.0031 (J)	<0.03
3/6/2019							0.0033 (J)		
4/2/2019						<0.03			
4/3/2019							0.0035 (J)	0.0028 (J)	<0.03
9/24/2019									
9/25/2019						<0.03			<0.03
9/26/2019	<0.03						0.0032 (J)	0.0029 (J)	
2/11/2020						<0.03	0.0033 (J)	0.005 (J)	
2/12/2020									<0.03
3/24/2020						0.0034 (J)	0.0033 (J)	0.0035 (J)	<0.03
3/25/2020	0.0011 (J)								
9/23/2020		<0.03		0.03 (J)		<0.03	0.003 (J)	0.0022 (J)	
9/24/2020	0.011 (J)				0.013 (J)				<0.03
2/9/2021	0.021 (J)	<0.03		0.018 (J)	0.016 (J)		0.0031 (J)	0.0019 (J)	<0.03
3/3/2021	0.022 (J)	<0.03		0.02 (J)		<0.03	0.0034 (J)	0.0021 (J)	<0.03
3/4/2021					0.016 (J)				
8/25/2021				0.033					
8/26/2021					0.015 (J)			0.0019 (J)	
8/27/2021						<0.03	0.0032 (J)		<0.03
9/1/2021	0.013 (J)	<0.03							
12/9/2021			0.042						
2/9/2022						<0.03	0.0032 (J)	0.0015 (J)	0.00082 (J)
2/10/2022	0.014 (J)	<0.03	0.054	0.036	0.015 (J)				
8/30/2022						<0.03	0.0036 (J)	0.0014 (J)	
8/31/2022	0.021 (J)								<0.03
9/1/2022		<0.03	0.041	0.032	0.013 (J)				
2/7/2023						<0.03	0.003 (J)	0.0012 (J)	<0.03

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
2/8/2023		<0.03		0.033	0.014 (J)				
2/9/2023	0.019 (J)		0.048						

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/26/2023 11:07 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-211 (bg)
6/6/2016	
6/7/2016	0.0055
7/27/2016	
7/28/2016	0.0045 (J)
9/16/2016	
9/19/2016	0.0054 (J)
11/2/2016	
11/3/2016	<0.05
1/11/2017	
1/13/2017	0.0062 (J)
3/1/2017	
3/2/2017	
3/6/2017	0.0059 (J)
4/26/2017	0.0054 (J)
5/2/2017	
6/28/2017	
6/29/2017	0.0047 (J)
3/28/2018	
3/29/2018	0.0062 (J)
6/5/2018	0.0061 (J)
6/6/2018	
6/7/2018	
6/11/2018	
9/25/2018	0.0062 (J)
10/16/2018	
3/5/2019	0.0053 (J)
3/6/2019	
4/2/2019	0.0051 (J)
4/3/2019	
9/24/2019	0.0068 (J)
9/25/2019	
9/26/2019	
2/11/2020	
2/12/2020	0.0065 (J)
3/24/2020	0.0064 (J)
3/25/2020	
9/23/2020	
9/24/2020	0.0069 (J)
2/9/2021	0.006 (J)
3/3/2021	
3/4/2021	0.0062 (J)
8/25/2021	
8/26/2021	
8/27/2021	
9/1/2021	0.0057 (J)
12/9/2021	
2/9/2022	0.0061 (J)
2/10/2022	
8/30/2022	0.0079 (J)
8/31/2022	
9/1/2022	
2/7/2023	0.0059 (J)

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/26/2023 11:07 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

YGWA-211 (bg)

2/8/2023

2/9/2023

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-41 (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/2/2016			0.013	0.0049 (J)	<0.05				
6/7/2016						<0.005			
7/26/2016			0.0123 (J)	0.0063 (J)	0.0027 (J)				
7/28/2016						0.0019 (J)			
8/30/2016									0.0257 (J)
8/31/2016									
9/14/2016			0.0137 (J)	0.0058 (J)	0.0029 (J)				
9/20/2016						0.0021 (J)			
11/2/2016			0.0136 (J)	0.0053 (J)					
11/4/2016					<0.05				
11/8/2016						0.0024 (J)			
11/16/2016									0.0221 (J)
1/12/2017				0.0054 (J)	0.0032 (J)				
1/13/2017			0.0121 (J)						
1/16/2017						0.0022 (J)			
2/24/2017									
2/27/2017									0.0208 (J)
3/6/2017			0.0143 (J)						
3/7/2017				0.0056 (J)	0.0035 (J)				
3/9/2017						0.0025 (J)			
5/1/2017			0.0132 (J)	0.0031 (J)					
5/2/2017					0.0031 (J)	0.0019 (J)			
5/10/2017									0.0316 (J)
6/27/2017				0.0018 (J)	0.0029 (J)				
6/29/2017			0.0145 (J)						
7/10/2017						0.0018 (J)			
7/11/2017									0.0281 (J)
10/11/2017	0.0018 (J)								
10/12/2017		<0.03					0.0095 (J)	0.004 (J)	0.0331 (J)
11/20/2017	0.0018 (J)	<0.03					0.0083 (J)		
11/21/2017								0.0043 (J)	
1/10/2018		<0.03							
1/11/2018	0.0019 (J)							0.0044 (J)	
1/12/2018							0.0089 (J)		
2/19/2018		<0.03						<0.05	
2/20/2018	<0.05						0.0082 (J)		
3/29/2018			0.014 (J)	0.0058 (J)	0.0034 (J)				
3/30/2018						0.0039 (J)			
4/3/2018	0.0022 (J)	<0.03					0.0097 (J)	0.0047 (J)	
4/4/2018									0.037 (J)
6/6/2018				0.0068 (J)					
6/7/2018			0.013 (J)		0.0032 (J)				
6/12/2018						0.0017 (J)			
6/27/2018								0.0042 (J)	
6/28/2018	0.0026 (J)	<0.03					0.0093 (J)		
8/7/2018	0.0024 (J)	<0.03					0.0092 (J)	0.0038 (J)	
9/20/2018									0.049 (J)
9/24/2018	0.0022 (J)	<0.03					0.0083 (J)	0.0037 (J)	
9/26/2018			0.014 (J)	0.0065 (J)	0.0032 (J)				
9/27/2018						0.0017 (J)			
3/4/2019			0.015 (J)	0.0065 (J)	0.0032 (J)				
3/6/2019						0.0025 (J)			

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/26/2023 11:07 AM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-41 (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
4/3/2019			0.014 (J)	0.007 (J)	0.0035 (J)				
4/4/2019						0.0018 (J)			
8/21/2019	0.0035 (J)	<0.03							
8/22/2019							0.0082 (J)	0.0035 (J)	0.047
9/24/2019				0.0065 (J)	0.0031 (J)				
9/25/2019			0.014 (J)						
9/27/2019						0.0017 (J)			
10/9/2019	0.0036 (J)	<0.03					0.0081 (J)	0.0032 (J)	0.037
2/12/2020	0.0041 (J)	<0.03	0.011 (J)	0.0066 (J)	0.0032 (J)				
3/24/2020		<0.03		0.0064 (J)	0.0033 (J)				
3/25/2020	0.0049 (J)		0.014 (J)				0.0081 (J)	0.0029 (J)	0.045
3/26/2020						0.0021 (J)			
9/22/2020			0.013 (J)	0.0066 (J)	0.0034 (J)				
9/24/2020	0.0054 (J)	<0.03				0.0035 (J)			0.05
9/25/2020							0.0069 (J)	0.0025 (J)	
2/8/2021				0.0063 (J)	0.0032 (J)				
2/9/2021			0.011 (J)			0.0026 (J)	0.0067 (J)		
2/10/2021	0.0071 (J)	<0.03						0.0021 (J)	0.058
3/2/2021				0.0018 (J)	0.0031 (J)				
3/3/2021			0.012 (J)						
3/4/2021	0.0084 (J)	<0.03				0.0026 (J)	0.0067 (J)	0.0021 (J)	0.059
8/25/2021						0.0026 (J)			0.053
8/26/2021	0.0082 (J)		0.0094 (J)	0.0075 (J)	0.0032 (J)		0.007 (J)	0.0021 (J)	
9/3/2021		<0.03							
9/27/2021									
2/8/2022	0.008 (J)	0.00076 (J)						0.0023 (J)	
2/10/2022				0.0076 (J)	0.0036 (J)	0.0029 (J)	0.0068 (J)		0.052
2/11/2022			0.012 (J)						
8/30/2022				0.0068 (J)	0.0035 (J)				
8/31/2022	0.0065 (J)	<0.03	0.013 (J)						
9/1/2022						0.0025 (J)	0.006 (J)	0.0019 (J)	0.054
2/7/2023	0.0065 (J)			0.0059 (J)					
2/8/2023		0.00074 (J)				0.0028 (J)	0.0058 (J)	0.0021 (J)	0.046
2/9/2023			0.014 (J)		0.0036 (J)				

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/26/2023 11:07 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

YGWC-43

6/2/2016	
6/7/2016	
7/26/2016	
7/28/2016	
8/30/2016	
8/31/2016	0.006 (J)
9/14/2016	
9/20/2016	
11/2/2016	
11/4/2016	
11/8/2016	
11/16/2016	0.0095 (J)
1/12/2017	
1/13/2017	
1/16/2017	
2/24/2017	0.0104 (J)
2/27/2017	
3/6/2017	
3/7/2017	
3/9/2017	
5/1/2017	
5/2/2017	
5/10/2017	0.0123 (J)
6/27/2017	
6/29/2017	
7/10/2017	
7/11/2017	0.0131 (J)
10/11/2017	
10/12/2017	0.013 (J)
11/20/2017	
11/21/2017	
1/10/2018	
1/11/2018	
1/12/2018	
2/19/2018	
2/20/2018	
3/29/2018	
3/30/2018	
4/3/2018	
4/4/2018	0.016 (J)
6/6/2018	
6/7/2018	
6/12/2018	
6/27/2018	
6/28/2018	
8/7/2018	
9/20/2018	0.019 (J)
9/24/2018	
9/26/2018	
9/27/2018	
3/4/2019	
3/6/2019	

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/26/2023 11:07 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
4/3/2019	
4/4/2019	
8/21/2019	0.015 (J)
8/22/2019	
9/24/2019	
9/25/2019	
9/27/2019	
10/9/2019	0.018 (J)
2/12/2020	
3/24/2020	
3/25/2020	0.016 (J)
3/26/2020	
9/22/2020	
9/24/2020	
9/25/2020	0.018 (J)
2/8/2021	
2/9/2021	0.024 (J)
2/10/2021	
3/2/2021	
3/3/2021	
3/4/2021	0.025 (J)
8/25/2021	
8/26/2021	
9/3/2021	
9/27/2021	0.0092 (J)
2/8/2022	0.016 (J)
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	
9/1/2022	0.014 (J)
2/7/2023	
2/8/2023	0.015 (J)
2/9/2023	

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
6/1/2016					0.015	<0.15			
6/2/2016				<0.03				<0.05	0.018
7/25/2016						0.002 (J)		<0.05	
7/26/2016				<0.03	0.0135 (J)				0.0221 (J)
8/30/2016		0.0061 (J)							
8/31/2016			<0.25						
9/1/2016	0.0034 (J)								
9/13/2016					0.0112 (J)	<0.15			
9/14/2016							0.004 (J)		
9/15/2016				<0.03					0.0197 (J)
9/19/2016								<0.05	
11/1/2016					0.0163 (J)			<0.05	0.0194 (J)
11/2/2016				<0.03					
11/4/2016						<0.15	<0.25		
11/14/2016		0.0064 (J)							
11/15/2016	0.0044 (J)								
11/28/2016			<0.25						
12/15/2016							0.0026 (J)		
1/10/2017				<0.03					
1/11/2017					0.0166 (J)				0.0177 (J)
1/16/2017						0.0023 (J)	0.0023 (J)	<0.05	
2/21/2017								<0.05	
2/22/2017			<0.25						
2/24/2017		0.0049 (J)							
2/27/2017	0.0036 (J)								
3/1/2017									
3/2/2017					0.0159 (J)	0.0025 (J)			0.0185 (J)
3/3/2017							0.0013 (J)		
3/8/2017				<0.03					
4/26/2017				<0.03				<0.05	0.0183 (J)
4/27/2017					0.0137 (J)	0.0027 (J)			
4/28/2017							0.0031 (J)		
5/8/2017		0.0053 (J)	0.0014 (J)						
5/9/2017	0.0038 (J)								
5/26/2017							0.0038 (J)		
6/27/2017					0.0094 (J)	0.0024 (J)			
6/28/2017							0.0026 (J)		0.0173 (J)
6/30/2017				<0.03				<0.05	
7/11/2017		0.0051 (J)							
7/13/2017	0.0036 (J)								
7/17/2017			<0.25						
10/10/2017		0.0043 (J)							
10/11/2017	0.0036 (J)								
10/16/2017			0.0016 (J)						
2/19/2018			<0.25						
3/27/2018				<0.03		0.0023 (J)		0.0011 (J)	
3/28/2018							0.0025 (J)		0.02 (J)
3/29/2018					0.0078 (J)				
4/2/2018		0.0045 (J)							
4/4/2018	0.0039 (J)								
6/5/2018					0.0079 (J)				
6/6/2018						0.0024 (J)			

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/26/2023 11:07 AM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
6/7/2018							0.0017 (J)		0.02 (J)
6/8/2018				<0.03					
6/11/2018								0.0012 (J)	
8/6/2018			<0.25						
9/19/2018		0.0043 (J)							
9/20/2018	0.0036 (J)								
10/1/2018				<0.03	0.0053 (J)	0.0023 (J)	<0.25		0.02 (J)
10/2/2018								<0.05	
2/26/2019				<0.03				0.0011 (J)	
2/27/2019					0.0093 (J)	0.0023 (J)	0.0011 (J)		0.021 (J)
3/28/2019					0.013 (J)	0.0022 (J)			
3/29/2019				<0.03			0.0016 (J)		
4/1/2019								0.001 (J)	0.021 (J)
8/19/2019			0.0019 (J)						
8/20/2019		0.0036 (J)							
9/24/2019					0.0046 (J)	0.0023 (J)	0.0011 (J)		
9/25/2019				<0.03				0.0011 (J)	0.02 (J)
9/26/2019	0.0036 (J)								
10/8/2019		0.0036 (J)	0.0015 (J)						
2/10/2020					0.011 (J)	0.0023 (J)			
2/11/2020							0.0012 (J)		
2/12/2020				<0.03				0.0013 (J)	0.019 (J)
3/17/2020		0.0046 (J)	0.0017 (J)						
3/18/2020				<0.03		0.0024 (J)			
3/19/2020					0.013 (J)		0.0022 (J)	0.0012 (J)	0.023 (J)
3/25/2020	0.0037 (J)								
8/26/2020			0.0032 (J)						
8/27/2020		0.0039 (J)							
9/22/2020		0.0036 (J)	0.0029 (J)						
9/23/2020					0.014 (J)	0.0024 (J)	0.0016 (J)		0.023 (J)
9/24/2020	0.0037 (J)							0.0011 (J)	
9/25/2020				<0.03					
2/9/2021	0.0038 (J)								
2/10/2021				<0.03			0.0039 (J)		0.023 (J)
2/11/2021								0.0012 (J)	
2/12/2021					0.01 (J)	0.0025 (J)			
3/1/2021		0.0037 (J)						0.0011 (J)	
3/2/2021			0.0033 (J)	<0.03					
3/3/2021					0.012 (J)	0.0025 (J)	0.0016 (J)		0.024 (J)
3/4/2021	0.0035 (J)								
8/19/2021		0.0038 (J)		<0.03	0.013 (J)	0.0023 (J)		0.0012 (J)	0.023 (J)
8/20/2021			0.0028 (J)						
8/27/2021							0.0058 (J)		
9/1/2021	0.0036 (J)								
2/8/2022	0.0036 (J)	0.0039 (J)	0.0031 (J)						
2/9/2022					0.013 (J)	0.0027 (J)	0.006 (J)		0.026 (J)
2/10/2022				<0.03					
2/11/2022								0.0014 (J)	
8/30/2022			0.0025 (J)		0.013 (J)		0.0044 (J)		
8/31/2022	0.0031 (J)	0.0037 (J)		<0.03		<0.15		0.0012 (J)	0.021 (J)
2/7/2023			0.0022 (J)		0.006 (J)	0.0029 (J)	0.0047 (J)		
2/8/2023		0.0037 (J)		<0.03				0.0011 (J)	0.023 (J)

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/26/2023 11:07 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
6/1/2016	0.01
6/2/2016	
7/25/2016	0.0132 (J)
7/26/2016	
8/30/2016	
8/31/2016	
9/1/2016	
9/13/2016	
9/14/2016	0.012 (J)
9/15/2016	
9/19/2016	
11/1/2016	0.0115 (J)
11/2/2016	
11/4/2016	
11/14/2016	
11/15/2016	
11/28/2016	
12/15/2016	
1/10/2017	
1/11/2017	0.0085 (J)
1/16/2017	
2/21/2017	
2/22/2017	
2/24/2017	
2/27/2017	
3/1/2017	0.0114 (J)
3/2/2017	
3/3/2017	
3/8/2017	
4/26/2017	0.0092 (J)
4/27/2017	
4/28/2017	
5/8/2017	
5/9/2017	
5/26/2017	
6/27/2017	
6/28/2017	0.0085 (J)
6/30/2017	
7/11/2017	
7/13/2017	
7/17/2017	
10/10/2017	
10/11/2017	
10/16/2017	
2/19/2018	
3/27/2018	
3/28/2018	0.013 (J)
3/29/2018	
4/2/2018	
4/4/2018	
6/5/2018	
6/6/2018	

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/26/2023 11:07 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
6/7/2018	
6/8/2018	0.012 (J)
6/11/2018	
8/6/2018	
9/19/2018	
9/20/2018	
10/1/2018	0.011 (J)
10/2/2018	
2/26/2019	
2/27/2019	0.014 (J)
3/28/2019	
3/29/2019	
4/1/2019	0.013 (J)
8/19/2019	
8/20/2019	
9/24/2019	
9/25/2019	0.01 (J)
9/26/2019	
10/8/2019	
2/10/2020	
2/11/2020	0.013 (J)
2/12/2020	
3/17/2020	
3/18/2020	
3/19/2020	0.014 (J)
3/25/2020	
8/26/2020	
8/27/2020	
9/22/2020	
9/23/2020	0.013 (J)
9/24/2020	
9/25/2020	
2/9/2021	
2/10/2021	0.015 (J)
2/11/2021	
2/12/2021	
3/1/2021	
3/2/2021	
3/3/2021	0.017 (J)
3/4/2021	
8/19/2021	
8/20/2021	
8/27/2021	0.026 (J)
9/1/2021	
2/8/2022	
2/9/2022	0.021 (J)
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	0.022 (J)
2/7/2023	
2/8/2023	0.018 (J)

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/26/2023 11:07 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

YGWA-3I (bg)

2/9/2023

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB
6/8/2016							<0.03
8/1/2016							<0.03
9/2/2016			0.0029 (J)				
9/20/2016							<0.03
11/8/2016							<0.03
11/14/2016			0.0044 (J)				
1/17/2017							<0.03
2/28/2017			0.0038 (J)				
3/8/2017							<0.03
5/2/2017							<0.03
5/9/2017			0.0057 (J)				
7/7/2017							<0.03
7/13/2017			0.007 (J)				
9/22/2017			0.0067 (J)				
9/29/2017			0.0064 (J)				
10/6/2017			0.0065 (J)				
10/12/2017		0.0271 (J)					
11/21/2017		0.0255 (J)					
1/11/2018		0.0271 (J)					
2/20/2018		<0.25					
3/30/2018			0.0061 (J)				<0.03
4/3/2018		0.027 (J)					
6/12/2018							<0.03
6/13/2018			0.0065 (J)				
6/29/2018		0.032 (J)					
8/6/2018		0.033 (J)					
9/24/2018		0.028 (J)					
9/26/2018			0.0063 (J)				<0.03
10/16/2018	0.0011 (J)						
3/5/2019							<0.03
3/6/2019			0.0057 (J)				
4/4/2019			0.0058 (J)				<0.03
9/26/2019	<0.03		0.0041 (J)				<0.03
3/25/2020	0.011 (J)		0.0032 (J)				
3/26/2020							<0.03
9/23/2020							<0.03
9/24/2020	0.001 (J)						
9/25/2020		0.028 (J)					
10/7/2020			0.0014 (J)				
2/9/2021		0.024 (J)					<0.03
2/10/2021	0.0012 (J)		0.0011 (J)				
3/3/2021							<0.03
3/4/2021	0.0015 (J)	0.028 (J)	<0.03				
8/25/2021		0.023 (J)					
9/1/2021	0.0019 (J)						<0.03
9/3/2021			0.00086 (J)	0.013 (J)			
2/10/2022	0.0021 (J)	0.017 (J)				0.006 (J)	<0.03
2/11/2022			0.00093 (J)	0.0087 (J)	0.015 (J)		
8/31/2022	0.0025 (J)						
9/1/2022		0.016 (J)	0.00089 (J)	0.0044 (J)	0.023 (J)	0.0051 (J)	
2/8/2023		0.013 (J)		0.0088 (J)	0.025 (J)		
2/9/2023	0.0026 (J)		0.001 (J)			0.0045 (J)	

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/26/2023 11:07 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB
2/10/2023							<0.03

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/26/2023 11:07 AM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/6/2016							<0.0002	<0.0002	
6/7/2016						9.5E-05 (J)			9.6E-05 (J)
7/27/2016						<0.0002	<0.0002	<0.0002	<0.0002
7/28/2016									
9/16/2016						<0.0002		<0.0002	
9/19/2016							<0.0002		<0.0002
11/2/2016									<0.0002
11/3/2016						<0.0002	<0.0002	<0.0002	
1/11/2017						<0.0002	<0.0002	<0.0002	
1/13/2017									<0.0002
3/1/2017							<0.0002	<0.0002	
3/2/2017						<0.0002			
3/6/2017									<0.0002
4/26/2017							<0.0002	<0.0002	<0.0002
5/2/2017						<0.0002			
6/28/2017							<0.0002	<0.0002	
6/29/2017						<0.0002			<0.0002
3/28/2018						<0.0002	<0.0002	<0.0002	
3/29/2018									<0.0002
9/25/2018						<0.0002	<0.0002	<0.0002	<0.0002
3/5/2019						<0.0002		<0.0002	<0.0002
3/6/2019							<0.0002		
2/11/2020						<0.0002	<0.0002	<0.0002	
2/12/2020									<0.0002
9/23/2020		<0.0002		<0.0002					
9/24/2020	<0.0002				<0.0002				
2/9/2021	<0.0002	<0.0002		<0.0002	<0.0002		<0.0002	<0.0002	<0.0002
3/3/2021	<0.0002	<0.0002		<0.0002		<0.0002	<0.0002	<0.0002	<0.0002
3/4/2021					<0.0002				
8/25/2021				<0.0002					
8/26/2021					<0.0002			<0.0002	
8/27/2021						<0.0002	<0.0002		<0.0002
9/1/2021	<0.0002	<0.0002							
2/9/2022						<0.0002	<0.0002	<0.0002	<0.0002
2/10/2022	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002				
8/30/2022						<0.0002	<0.0002	<0.0002	
8/31/2022	<0.0002								<0.0002
9/1/2022		<0.0002	0.00016 (J)	<0.0002	<0.0002				
2/7/2023						0.00018 (J)	0.00013 (J)	0.00017 (J)	0.00015 (J)
2/8/2023		<0.0002		<0.0002	<0.0002				
2/9/2023	<0.0002		<0.0002						

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/26/2023 11:07 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-211 (bg)
6/6/2016	
6/7/2016	9.6E-05 (J)
7/27/2016	
7/28/2016	<0.0002
9/16/2016	
9/19/2016	<0.0002
11/2/2016	
11/3/2016	<0.0002
1/11/2017	
1/13/2017	<0.0002
3/1/2017	
3/2/2017	
3/6/2017	<0.0002
4/26/2017	<0.0002
5/2/2017	
6/28/2017	
6/29/2017	<0.0002
3/28/2018	
3/29/2018	<0.0002
9/25/2018	<0.0002
3/5/2019	<0.0002
3/6/2019	
2/11/2020	
2/12/2020	<0.0002
9/23/2020	
9/24/2020	
2/9/2021	<0.0002
3/3/2021	
3/4/2021	<0.0002
8/25/2021	
8/26/2021	
8/27/2021	
9/1/2021	<0.0002
2/9/2022	<0.0002
2/10/2022	
8/30/2022	<0.0002
8/31/2022	
9/1/2022	
2/7/2023	0.00017 (J)
2/8/2023	
2/9/2023	

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-41 (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/2/2016			<0.0002	<0.0002	<0.0002				
6/7/2016						9.8E-05 (J)			
7/26/2016			<0.0002	<0.0002	<0.0002				
7/28/2016						<0.0002			
8/30/2016									<0.0002
8/31/2016									
9/14/2016			<0.0002	<0.0002	<0.0002				
9/20/2016						<0.0002			
11/2/2016			<0.0002	<0.0002					
11/4/2016					<0.0002				
11/8/2016						<0.0002			
11/16/2016									<0.0002
1/12/2017				<0.0002	<0.0002				
1/13/2017			<0.0002						
1/16/2017						<0.0002			
2/24/2017									
2/27/2017									<0.0002
3/6/2017			<0.0002						
3/7/2017				<0.0002	<0.0002				
3/9/2017						<0.0002			
5/1/2017			<0.0002	<0.0002					
5/2/2017					<0.0002	<0.0002			
5/10/2017									<0.0002
6/27/2017				<0.0002	<0.0002				
6/29/2017			<0.0002						
7/10/2017						<0.0002			
7/11/2017									<0.0002
10/11/2017	<0.0002								
10/12/2017		<0.0002					<0.0002	<0.0002	<0.0002
11/20/2017	7E-05 (J)	8E-05 (J)					8E-05 (J)		
11/21/2017								6E-05 (J)	
1/10/2018		<0.0002							
1/11/2018	<0.0002							<0.0002	
1/12/2018							<0.0002		
2/19/2018		<0.0002						<0.0002	
2/20/2018	<0.0002						<0.0002		
3/29/2018			<0.0002	<0.0002	<0.0002				
3/30/2018						<0.0002			
4/3/2018	<0.0002	<0.0002					<0.0002	<0.0002	
4/4/2018									<0.0002
6/27/2018								<0.0002	
6/28/2018	<0.0002	3.6E-05 (J)					3.7E-05 (J)		
8/7/2018	<0.0002	<0.0002					<0.0002	<0.0002	
9/20/2018									4.8E-05 (J)
9/24/2018	<0.0002	<0.0002					<0.0002	<0.0002	
9/26/2018			<0.0002	<0.0002	<0.0002				
9/27/2018						<0.0002			
3/4/2019			<0.0002	<0.0002	<0.0002				
3/6/2019						<0.0002			
8/21/2019	<0.0002	<0.0002							
8/22/2019							<0.0002	<0.0002	<0.0002
2/12/2020	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002				

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/26/2023 11:07 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-41 (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
2/8/2021				<0.0002	<0.0002				
2/9/2021			<0.0002						
2/10/2021	<0.0002	<0.0002				0.00015 (J)	<0.0002		<0.0002
3/2/2021				<0.0002	<0.0002			<0.0002	
3/3/2021			<0.0002						
3/4/2021	<0.0002	<0.0002				<0.0002	<0.0002	<0.0002	<0.0002
8/25/2021						<0.0002			<0.0002
8/26/2021	<0.0002		<0.0002	<0.0002	<0.0002		<0.0002	<0.0002	
9/3/2021		0.00012 (J)							
9/27/2021									
2/8/2022	<0.0002	0.00013 (J)						<0.0002	
2/10/2022				<0.0002	<0.0002	<0.0002	<0.0002		<0.0002
2/11/2022			<0.0002						
8/30/2022				<0.0002	<0.0002				
8/31/2022	<0.0002	0.00064	<0.0002						
9/1/2022						<0.0002	<0.0002	<0.0002	<0.0002
2/7/2023	<0.0002			<0.0002					
2/8/2023		<0.0002				<0.0002	<0.0002	<0.0002	<0.0002
2/9/2023			<0.0002		<0.0002				

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/26/2023 11:07 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
6/2/2016	
6/7/2016	
7/26/2016	
7/28/2016	
8/30/2016	
8/31/2016	<0.0002
9/14/2016	
9/20/2016	
11/2/2016	
11/4/2016	
11/8/2016	
11/16/2016	<0.0002
1/12/2017	
1/13/2017	
1/16/2017	
2/24/2017	<0.0002
2/27/2017	
3/6/2017	
3/7/2017	
3/9/2017	
5/1/2017	
5/2/2017	
5/10/2017	<0.0002
6/27/2017	
6/29/2017	
7/10/2017	
7/11/2017	<0.0002
10/11/2017	
10/12/2017	<0.0002
11/20/2017	
11/21/2017	
1/10/2018	
1/11/2018	
1/12/2018	
2/19/2018	
2/20/2018	
3/29/2018	
3/30/2018	
4/3/2018	
4/4/2018	<0.0002
6/27/2018	
6/28/2018	
8/7/2018	
9/20/2018	5.2E-05 (J)
9/24/2018	
9/26/2018	
9/27/2018	
3/4/2019	
3/6/2019	
8/21/2019	<0.0002
8/22/2019	
2/12/2020	

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/26/2023 11:07 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
2/8/2021	
2/9/2021	<0.0002
2/10/2021	
3/2/2021	
3/3/2021	
3/4/2021	<0.0002
8/25/2021	
8/26/2021	
9/3/2021	
9/27/2021	9E-05 (JB)
2/8/2022	<0.0002
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	
9/1/2022	<0.0002
2/7/2023	
2/8/2023	<0.0002
2/9/2023	

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
5/1/2007			<0.0002						
9/11/2007			<0.0002						
3/20/2008			<0.0002						
8/27/2008			<0.0002						
3/3/2009			<0.0002						
11/18/2009			<0.0002						
3/3/2010			<0.0002						
9/8/2010			<0.0002						
3/10/2011			<0.0002						
9/8/2011			<0.0002						
3/5/2012			<0.0002						
9/10/2012			<0.0002						
2/6/2013			<0.0002						
8/12/2013			<0.0002						
2/5/2014			<0.0002						
8/5/2014			<0.0002						
2/4/2015			<0.0002						
8/3/2015			<0.0002						
2/16/2016			1.36E-05 (J)						
6/1/2016					<0.0002	<0.0002			
6/2/2016				<0.0002				<0.0002	<0.0002
7/25/2016						<0.0002		<0.0002	
7/26/2016				<0.0002	<0.0002				<0.0002
8/30/2016		<0.0002							
8/31/2016			<0.0002						
9/1/2016	<0.0002								
9/13/2016					<0.0002	<0.0002			
9/14/2016							<0.0002		
9/15/2016				<0.0002					<0.0002
9/19/2016								<0.0002	
11/1/2016					<0.0002			<0.0002	<0.0002
11/2/2016				<0.0002					
11/4/2016						<0.0002	<0.0002		
11/14/2016		<0.0002							
11/15/2016	<0.0002								
11/28/2016			<0.0002						
12/15/2016							<0.0002		
1/10/2017				<0.0002					
1/11/2017					<0.0002				<0.0002
1/16/2017						<0.0002	<0.0002	<0.0002	
2/21/2017								<0.0002	
2/22/2017			<0.0002						
2/24/2017		<0.0002							
2/27/2017	<0.0002								
3/1/2017									
3/2/2017					<0.0002	<0.0002			<0.0002
3/3/2017							<0.0002		
3/8/2017				<0.0002					
4/26/2017				<0.0002				<0.0002	<0.0002
4/27/2017					<0.0002	<0.0002			
4/28/2017							<0.0002		
5/8/2017		<0.0002	<0.0002						

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/26/2023 11:07 AM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
5/9/2017	<0.0002								
5/26/2017							<0.0002		
6/27/2017					<0.0002	<0.0002			
6/28/2017							<0.0002		<0.0002
6/30/2017				<0.0002				<0.0002	
7/11/2017		<0.0002							
7/13/2017	<0.0002								
7/17/2017			<0.0002						
10/10/2017		<0.0002							
10/11/2017	<0.0002								
10/16/2017			<0.0002						
2/19/2018			<0.0002						
3/27/2018				<0.0002		<0.0002		<0.0002	
3/28/2018							<0.0002		<0.0002
3/29/2018					<0.0002				
4/2/2018		<0.0002							
4/4/2018	<0.0002								
8/6/2018			<0.0002						
9/19/2018		5.3E-05 (J)							
9/20/2018	6.1E-05 (J)								
2/25/2019			7.4E-05 (J)						
2/26/2019				6.1E-05 (J)				6.8E-05 (J)	
2/27/2019					5.1E-05 (J)	5.4E-05 (J)	<0.0002		6.2E-05 (J)
3/28/2019					4E-05 (J)	<0.0002			
3/29/2019				<0.0002			<0.0002		
4/1/2019								8.2E-05 (J)	9.6E-05 (J)
6/12/2019			<0.0002						
8/19/2019			<0.0002						
8/20/2019		<0.0002							
9/24/2019					<0.0002	<0.0002	<0.0002		
9/25/2019				<0.0002				<0.0002	<0.0002
10/8/2019			<0.0002						
2/10/2020					<0.0002	<0.0002			
2/11/2020							<0.0002		
2/12/2020				<0.0002				<0.0002	<0.0002
5/6/2020			<0.0002						
8/26/2020			<0.0002						
8/27/2020		<0.0002							
9/22/2020			<0.0002						
2/9/2021	0.00014 (J)								
2/10/2021				<0.0002			<0.0002		<0.0002
2/11/2021								<0.0002	
2/12/2021					<0.0002	<0.0002			
3/2/2021			<0.0002						
3/4/2021	<0.0002								
8/19/2021		<0.0002							
8/20/2021			<0.0002						
9/1/2021	<0.0002								
2/8/2022	<0.0002	<0.0002	<0.0002						
2/9/2022					<0.0002	<0.0002	<0.0002		<0.0002
2/10/2022				<0.0002					
2/11/2022							<0.0002		

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
8/30/2022			<0.0002		<0.0002		<0.0002		
8/31/2022	<0.0002	<0.0002		<0.0002		<0.0002		<0.0002	<0.0002
2/7/2023			0.00013 (J)		<0.0002	<0.0002	<0.0002		
2/8/2023		<0.0002		<0.0002				<0.0002	<0.0002
2/9/2023	<0.0002								

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/26/2023 11:07 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

YGWA-3I (bg)

5/1/2007	
9/11/2007	
3/20/2008	
8/27/2008	
3/3/2009	
11/18/2009	
3/3/2010	
9/8/2010	
3/10/2011	
9/8/2011	
3/5/2012	
9/10/2012	
2/6/2013	
8/12/2013	
2/5/2014	
8/5/2014	
2/4/2015	
8/3/2015	
2/16/2016	
6/1/2016	<0.0002
6/2/2016	
7/25/2016	<0.0002
7/26/2016	
8/30/2016	
8/31/2016	
9/1/2016	
9/13/2016	
9/14/2016	<0.0002
9/15/2016	
9/19/2016	
11/1/2016	<0.0002
11/2/2016	
11/4/2016	
11/14/2016	
11/15/2016	
11/28/2016	
12/15/2016	
1/10/2017	
1/11/2017	<0.0002
1/16/2017	
2/21/2017	
2/22/2017	
2/24/2017	
2/27/2017	
3/1/2017	<0.0002
3/2/2017	
3/3/2017	
3/8/2017	
4/26/2017	<0.0002
4/27/2017	
4/28/2017	
5/8/2017	

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/26/2023 11:07 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
5/9/2017	
5/26/2017	
6/27/2017	
6/28/2017	<0.0002
6/30/2017	
7/11/2017	
7/13/2017	
7/17/2017	
10/10/2017	
10/11/2017	
10/16/2017	
2/19/2018	
3/27/2018	
3/28/2018	<0.0002
3/29/2018	
4/2/2018	
4/4/2018	
8/6/2018	
9/19/2018	
9/20/2018	
2/25/2019	
2/26/2019	
2/27/2019	6.1E-05 (J)
3/28/2019	
3/29/2019	
4/1/2019	8.4E-05 (J)
6/12/2019	
8/19/2019	
8/20/2019	
9/24/2019	
9/25/2019	<0.0002
10/8/2019	
2/10/2020	
2/11/2020	<0.0002
2/12/2020	
5/6/2020	
8/26/2020	
8/27/2020	
9/22/2020	
2/9/2021	
2/10/2021	<0.0002
2/11/2021	
2/12/2021	
3/2/2021	
3/4/2021	
8/19/2021	
8/20/2021	
9/1/2021	
2/8/2022	
2/9/2022	<0.0002
2/10/2022	
2/11/2022	

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/26/2023 11:07 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
8/30/2022	
8/31/2022	<0.0002
2/7/2023	
2/8/2023	<0.0002
2/9/2023	

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/26/2023 11:07 AM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB
6/8/2016							<0.0002
8/1/2016							<0.0002
9/2/2016			<0.0002				
9/20/2016							<0.0002
11/8/2016							<0.0002
11/14/2016			<0.0002				
1/17/2017							<0.0002
2/28/2017			<0.0002				
3/8/2017							<0.0002
5/2/2017							<0.0002
5/9/2017			<0.0002				
7/7/2017							<0.0002
7/13/2017			<0.0002				
9/22/2017			<0.0002				
9/29/2017			<0.0002				
10/6/2017			<0.0002				
10/12/2017		<0.0002					
11/21/2017		6E-05 (J)					
1/11/2018		<0.0002					
2/20/2018		<0.0002					
3/30/2018			<0.0002				<0.0002
4/3/2018		<0.0002					
6/29/2018		<0.0002					
8/6/2018		<0.0002					
9/24/2018		<0.0002					
9/26/2018			<0.0002				<0.0002
3/5/2019							<0.0002
3/6/2019			<0.0002				
9/24/2020	<0.0002						
9/25/2020		<0.0002					
2/9/2021		<0.0002					<0.0002
2/10/2021	<0.0002		<0.0002				
3/3/2021							<0.0002
3/4/2021	<0.0002	<0.0002	<0.0002				
8/25/2021		<0.0002					
9/1/2021	<0.0002						<0.0002
9/3/2021			<0.0002	<0.0002			
2/10/2022	<0.0002	<0.0002				<0.0002	<0.0002
2/11/2022			<0.0002	<0.0002	<0.0002		
8/31/2022	<0.0002						
9/1/2022		0.00019 (J)	<0.0002	<0.0002	<0.0002	<0.0002	
2/8/2023		<0.0002		<0.0002	<0.0002		
2/9/2023	<0.0002		<0.0002			<0.0002	
2/10/2023							<0.0002

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/6/2016							<0.01	<0.01	
6/7/2016						<0.01			<0.01
7/27/2016						<0.01	<0.01	<0.01	<0.01
7/28/2016									
9/16/2016						<0.01		<0.01	
9/19/2016							<0.01		<0.01
11/2/2016									<0.01
11/3/2016						<0.01	<0.01	<0.01	
1/11/2017						<0.01	<0.01	<0.01	
1/13/2017									<0.01
3/1/2017							<0.01	<0.01	
3/2/2017						<0.01			
3/6/2017									<0.01
4/26/2017							<0.01	<0.01	<0.01
5/2/2017						<0.01			
6/28/2017							<0.01	<0.01	
6/29/2017						<0.01			<0.01
3/28/2018						<0.01	<0.01	<0.01	
3/29/2018									<0.01
3/5/2019						<0.01		<0.01	<0.01
3/6/2019							<0.01		
2/11/2020						<0.01	<0.01	<0.01	
2/12/2020									<0.01
3/24/2020						<0.01	<0.01	<0.01	<0.01
3/25/2020	<0.01								
9/23/2020		<0.01		0.0068 (J)		<0.01	<0.01	<0.01	
9/24/2020	0.0022 (J)				<0.01				<0.01
2/9/2021	0.0038 (J)	<0.01		0.0068 (J)	<0.01		<0.01	<0.01	<0.01
3/3/2021	0.0037 (J)	<0.01		0.0049 (J)		<0.01	<0.01	<0.01	<0.01
3/4/2021					<0.01				
8/25/2021				0.0081 (J)					
8/26/2021					<0.01			<0.01	
8/27/2021						<0.01	<0.01		<0.01
9/1/2021	0.0014 (J)	<0.01							
2/9/2022						<0.01	<0.01	<0.01	<0.01
2/10/2022	0.00089 (J)	<0.01	0.0036 (J)	0.0076 (J)	<0.01				
8/30/2022						<0.01	<0.01	<0.01	
8/31/2022	<0.01								<0.01
9/1/2022		<0.01	0.0057 (J)	0.0074 (J)	<0.01				
2/7/2023						<0.01	<0.01	<0.01	<0.01
2/8/2023		<0.01		0.0076 (J)	<0.01				
2/9/2023	<0.01		0.0067 (J)						

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/26/2023 11:07 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-211 (bg)
6/6/2016	
6/7/2016	<0.01
7/27/2016	
7/28/2016	<0.01
9/16/2016	
9/19/2016	<0.01
11/2/2016	
11/3/2016	<0.01
1/11/2017	
1/13/2017	<0.01
3/1/2017	
3/2/2017	
3/6/2017	0.0007 (J)
4/26/2017	0.0008 (J)
5/2/2017	
6/28/2017	
6/29/2017	<0.01
3/28/2018	
3/29/2018	<0.01
3/5/2019	<0.01
3/6/2019	
2/11/2020	
2/12/2020	<0.01
3/24/2020	<0.01
3/25/2020	
9/23/2020	
9/24/2020	<0.01
2/9/2021	<0.01
3/3/2021	
3/4/2021	<0.01
8/25/2021	
8/26/2021	
8/27/2021	
9/1/2021	<0.01
2/9/2022	<0.01
2/10/2022	
8/30/2022	<0.01
8/31/2022	
9/1/2022	
2/7/2023	<0.01
2/8/2023	
2/9/2023	

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/26/2023 11:07 AM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/2/2016			<0.01	0.0035 (J)	<0.01				
6/7/2016						<0.01			
7/26/2016			<0.01	0.0042 (J)	<0.01				
7/28/2016						<0.01			
8/30/2016									0.0019 (J)
8/31/2016									
9/14/2016			<0.01	0.0041 (J)	<0.01				
9/20/2016						<0.01			
11/2/2016			<0.01	0.0039 (J)					
11/4/2016					<0.01				
11/8/2016						<0.01			
11/16/2016									0.0027 (J)
1/12/2017				0.0041 (J)	<0.01				
1/13/2017			<0.01						
1/16/2017						<0.01			
2/24/2017									
2/27/2017									0.0031 (J)
3/6/2017			<0.01						
3/7/2017				0.0047 (J)	<0.01				
3/9/2017						<0.01			
5/1/2017			<0.01	0.0045 (J)					
5/2/2017					<0.01	<0.01			
5/10/2017									0.0017 (J)
6/27/2017				0.004 (J)	<0.01				
6/29/2017			<0.01						
7/10/2017						<0.01			
7/11/2017									0.0014 (J)
10/11/2017	0.0094 (J)								
10/12/2017		<0.01					<0.01	<0.01	<0.01
11/20/2017	0.0081 (J)	<0.01					<0.01		
11/21/2017								<0.01	
1/10/2018		<0.01							
1/11/2018	0.0074 (J)							<0.01	
1/12/2018							<0.01		
2/19/2018		<0.01						<0.01	
2/20/2018	<0.01						<0.01		
3/29/2018			<0.01	<0.01	<0.01				
3/30/2018						<0.01			
4/3/2018	0.006 (J)	<0.01					<0.01	<0.01	
4/4/2018									<0.01
6/27/2018								<0.01	
6/28/2018	0.005 (J)	<0.01					<0.01		
8/7/2018	0.0045 (J)	<0.01					<0.01	<0.01	
9/20/2018									<0.01
9/24/2018	0.0035 (J)	<0.01					<0.01	<0.01	
3/4/2019			<0.01	<0.01	<0.01				
3/6/2019						<0.01			
8/21/2019	0.0021 (J)	<0.01							
8/22/2019							<0.01	<0.01	<0.01
10/9/2019	0.0018 (J)	<0.01					<0.01	<0.01	<0.01
2/12/2020	0.0025 (J)	<0.01	<0.01	0.0011 (J)	<0.01				
3/24/2020		<0.01		0.0011 (J)	<0.01				

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/26/2023 11:07 AM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-41 (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
3/25/2020	0.002 (J)		<0.01				<0.01	<0.01	<0.01
3/26/2020						<0.01			
9/22/2020			<0.01	0.00099 (J)	<0.01				
9/24/2020	0.0016 (J)	<0.01				<0.01			0.00091 (J)
9/25/2020							<0.01	<0.01	
2/8/2021				0.0011 (J)	<0.01				
2/9/2021			<0.01			<0.01	<0.01		
2/10/2021	0.0013 (J)	<0.01						<0.01	0.00094 (J)
3/2/2021				<0.01	<0.01				
3/3/2021			<0.01						
3/4/2021	0.0014 (J)	<0.01				<0.01	<0.01	<0.01	0.00085 (J)
8/25/2021						<0.01			0.00078 (J)
8/26/2021	0.0027 (J)		<0.01	0.001 (J)	<0.01		<0.01	<0.01	
9/3/2021		<0.01							
9/27/2021									
2/8/2022	0.0035 (J)	<0.01						<0.01	
2/10/2022				0.00096 (J)	<0.01	<0.01	<0.01		0.0008 (J)
2/11/2022			<0.01						
8/30/2022				0.00089 (J)	<0.01				
8/31/2022	0.0036 (J)	<0.01	<0.01						
9/1/2022						<0.01	<0.01	<0.01	0.00079 (J)
2/7/2023	0.0045 (J)			0.00095 (J)					
2/8/2023		<0.01				<0.01	<0.01	<0.01	0.00081 (J)
2/9/2023			<0.01		<0.01				

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/26/2023 11:07 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
6/2/2016	
6/7/2016	
7/26/2016	
7/28/2016	
8/30/2016	
8/31/2016	0.0022 (J)
9/14/2016	
9/20/2016	
11/2/2016	
11/4/2016	
11/8/2016	
11/16/2016	<0.01
1/12/2017	
1/13/2017	
1/16/2017	
2/24/2017	<0.01
2/27/2017	
3/6/2017	
3/7/2017	
3/9/2017	
5/1/2017	
5/2/2017	
5/10/2017	<0.01
6/27/2017	
6/29/2017	
7/10/2017	
7/11/2017	<0.01
10/11/2017	
10/12/2017	<0.01
11/20/2017	
11/21/2017	
1/10/2018	
1/11/2018	
1/12/2018	
2/19/2018	
2/20/2018	
3/29/2018	
3/30/2018	
4/3/2018	
4/4/2018	<0.01
6/27/2018	
6/28/2018	
8/7/2018	
9/20/2018	<0.01
9/24/2018	
3/4/2019	
3/6/2019	
8/21/2019	0.0012 (J)
8/22/2019	
10/9/2019	0.0012 (J)
2/12/2020	
3/24/2020	

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/26/2023 11:07 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
3/25/2020	0.0015 (J)
3/26/2020	
9/22/2020	
9/24/2020	
9/25/2020	0.0011 (J)
2/8/2021	
2/9/2021	0.0012 (J)
2/10/2021	
3/2/2021	
3/3/2021	
3/4/2021	0.0011 (J)
8/25/2021	
8/26/2021	
9/3/2021	
9/27/2021	0.0062 (J)
2/8/2022	0.002 (J)
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	
9/1/2022	0.0014 (J)
2/7/2023	
2/8/2023	0.0016 (J)
2/9/2023	

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/26/2023 11:07 AM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
6/1/2016					0.014 (J)	0.012 (J)			
6/2/2016				<0.01				<0.01	0.0093 (J)
7/25/2016						0.0098 (J)		<0.01	
7/26/2016				<0.01	0.0132				0.0113
8/30/2016		<0.01							
8/31/2016			<0.01						
9/1/2016	<0.01								
9/13/2016					0.0127	0.01 (J)			
9/14/2016							0.0039 (J)		
9/15/2016				<0.01					0.0112
9/19/2016								<0.01	
11/1/2016					0.0092 (J)			<0.01	0.0099 (J)
11/2/2016				<0.01					
11/4/2016						0.01	0.0077 (J)		
11/14/2016		<0.01							
11/15/2016	<0.01								
11/28/2016			<0.01						
12/15/2016							0.0066 (J)		
1/10/2017				<0.01					
1/11/2017					0.0093 (J)				0.0093 (J)
1/16/2017						0.0086 (J)	0.0056 (J)	<0.01	
2/21/2017								<0.01	
2/22/2017			<0.01						
2/24/2017		<0.01							
2/27/2017	0.0007 (J)								
3/1/2017									
3/2/2017					0.0099 (J)	0.01			0.0103
3/3/2017							0.0049 (J)		
3/8/2017				<0.01					
4/26/2017				<0.01				<0.01	0.01
4/27/2017					0.0103	0.0101			
4/28/2017							0.004 (J)		
5/8/2017		<0.01	<0.01						
5/9/2017	<0.01								
5/26/2017							0.0029 (J)		
6/27/2017					0.0097 (J)	0.0093 (J)			
6/28/2017							0.0036 (J)		0.0102
6/30/2017				<0.01				<0.01	
7/11/2017		<0.01							
7/13/2017	<0.01								
7/17/2017			<0.01						
10/10/2017		<0.01							
10/11/2017	<0.01								
10/16/2017			<0.01						
2/19/2018			<0.01						
3/27/2018				<0.01		0.0074 (J)		<0.01	
3/28/2018							0.0038 (J)		0.011
3/29/2018					0.0076 (J)				
4/2/2018		<0.01							
4/4/2018	<0.01								
6/5/2018					0.0092 (J)				
6/6/2018						0.0073 (J)			

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/26/2023 11:07 AM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
6/7/2018							0.004 (J)		0.011
6/8/2018				<0.01					
6/11/2018								<0.01	
8/6/2018			<0.01						
9/19/2018		<0.01							
9/20/2018	<0.01								
10/1/2018				<0.01	0.0085 (J)	0.0076 (J)	0.0042 (J)		0.012
10/2/2018								<0.01	
2/26/2019				<0.01				<0.01	
2/27/2019					0.0087 (J)	0.0078 (J)	0.0041 (J)		0.011
3/28/2019					0.0092 (J)	0.0082 (J)			
3/29/2019				<0.01			0.0041 (J)		
4/1/2019								<0.01	0.012
8/19/2019			<0.01						
8/20/2019		<0.01							
9/24/2019					0.0072 (J)	0.0074 (J)	0.0054 (J)		
9/25/2019				<0.01				<0.01	0.012
10/8/2019		<0.01							
2/10/2020					0.0087 (J)	0.0062 (J)			
2/11/2020							0.0057 (J)		
2/12/2020				<0.01				<0.01	0.013
3/17/2020		<0.01							
3/18/2020				<0.01		0.0056 (J)			
3/19/2020					0.0088 (J)		0.0046 (J)	<0.01	0.013
3/25/2020	<0.01								
8/26/2020			<0.01						
8/27/2020		<0.01							
9/22/2020		<0.01							
9/23/2020					0.008 (J)	0.0059 (J)	0.0071 (J)		0.012
9/24/2020	<0.01							<0.01	
9/25/2020				<0.01					
2/9/2021	<0.01								
2/10/2021				<0.01			0.0041 (J)		0.014
2/11/2021								<0.01	
2/12/2021					0.008 (J)	0.0056 (J)			
3/1/2021		<0.01						<0.01	
3/2/2021				<0.01					
3/3/2021					0.0088 (J)	0.0049 (J)	0.0074 (J)		0.013
3/4/2021	<0.01								
8/19/2021		<0.01		<0.01	0.0083 (J)	0.005 (J)		<0.01	0.013
8/20/2021			<0.01						
8/27/2021							0.0048 (J)		
9/1/2021	<0.01								
2/8/2022	<0.01	<0.01	<0.01						
2/9/2022					0.0093 (J)	0.0055 (J)	0.0057 (J)		0.013
2/10/2022				<0.01					
2/11/2022								<0.01	
8/30/2022			<0.01		0.0094 (J)		0.0068 (J)		
8/31/2022	<0.01	<0.01		<0.01		0.0055 (J)		<0.01	0.011
2/7/2023			<0.01		<0.01	<0.01	0.0061 (J)		
2/8/2023		<0.01		<0.01				<0.01	0.012
2/9/2023	<0.01								

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/26/2023 11:07 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
6/1/2016	0.0055 (J)
6/2/2016	
7/25/2016	0.0037 (J)
7/26/2016	
8/30/2016	
8/31/2016	
9/1/2016	
9/13/2016	
9/14/2016	0.0034 (J)
9/15/2016	
9/19/2016	
11/1/2016	0.0025 (J)
11/2/2016	
11/4/2016	
11/14/2016	
11/15/2016	
11/28/2016	
12/15/2016	
1/10/2017	
1/11/2017	0.0033 (J)
1/16/2017	
2/21/2017	
2/22/2017	
2/24/2017	
2/27/2017	
3/1/2017	0.0044 (J)
3/2/2017	
3/3/2017	
3/8/2017	
4/26/2017	0.0075 (J)
4/27/2017	
4/28/2017	
5/8/2017	
5/9/2017	
5/26/2017	
6/27/2017	
6/28/2017	0.008 (J)
6/30/2017	
7/11/2017	
7/13/2017	
7/17/2017	
10/10/2017	
10/11/2017	
10/16/2017	
2/19/2018	
3/27/2018	
3/28/2018	0.0025 (J)
3/29/2018	
4/2/2018	
4/4/2018	
6/5/2018	
6/6/2018	

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/26/2023 11:07 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
6/7/2018	
6/8/2018	0.0041 (J)
6/11/2018	
8/6/2018	
9/19/2018	
9/20/2018	
10/1/2018	0.0037 (J)
10/2/2018	
2/26/2019	
2/27/2019	0.0027 (J)
3/28/2019	
3/29/2019	
4/1/2019	0.0021 (J)
8/19/2019	
8/20/2019	
9/24/2019	
9/25/2019	0.0087 (J)
10/8/2019	
2/10/2020	
2/11/2020	0.003 (J)
2/12/2020	
3/17/2020	
3/18/2020	
3/19/2020	0.0043 (J)
3/25/2020	
8/26/2020	
8/27/2020	
9/22/2020	
9/23/2020	0.01
9/24/2020	
9/25/2020	
2/9/2021	
2/10/2021	0.0038 (J)
2/11/2021	
2/12/2021	
3/1/2021	
3/2/2021	
3/3/2021	0.0036 (J)
3/4/2021	
8/19/2021	
8/20/2021	
8/27/2021	0.0099 (J)
9/1/2021	
2/8/2022	
2/9/2022	0.0087 (J)
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	0.0068 (J)
2/7/2023	
2/8/2023	0.0065 (J)
2/9/2023	

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB
6/8/2016							<0.01
8/1/2016							<0.01
9/2/2016			0.0027 (J)				
9/20/2016							<0.01
11/8/2016							<0.01
11/14/2016			0.0071 (J)				
1/17/2017							<0.01
2/28/2017			0.0038 (J)				
3/8/2017							<0.01
5/2/2017							<0.01
5/9/2017			0.0025 (J)				
7/7/2017							<0.01
7/13/2017			0.0014 (J)				
9/22/2017			<0.01				
9/29/2017			<0.01				
10/6/2017			<0.01				
10/12/2017		0.0022 (J)					
11/21/2017		0.0016 (J)					
1/11/2018		0.0015 (J)					
2/20/2018		<0.01					
3/30/2018			<0.01				<0.01
4/3/2018		<0.01					
6/29/2018		0.0021 (J)					
8/6/2018		<0.01					
9/24/2018		<0.01					
3/5/2019							<0.01
3/6/2019			<0.01				
3/25/2020	0.0019 (J)		<0.01				
3/26/2020							<0.01
9/23/2020							<0.01
9/24/2020	<0.01						
9/25/2020		0.0016 (J)					
10/7/2020			0.0015 (J)				
2/9/2021		0.0016 (J)					<0.01
2/10/2021	<0.01		<0.01				
3/3/2021							<0.01
3/4/2021	<0.01	0.0024 (J)	<0.01				
8/25/2021		0.0011 (J)					
9/1/2021	<0.01						<0.01
9/3/2021			<0.01	0.0018 (J)			
2/10/2022	<0.01	<0.01				<0.01	<0.01
2/11/2022			<0.01	0.0037 (J)	0.011		
8/31/2022	<0.01						
9/1/2022		<0.01	<0.01	0.0059 (J)	0.0084 (J)	<0.01	
2/8/2023		<0.01		0.0024 (J)	0.005 (J)		
2/9/2023	<0.01		<0.01			<0.01	
2/10/2023							<0.01

Time Series

Constituent: pH (S.U.) Analysis Run 4/26/2023 11:07 AM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/6/2016							6.17	5.71	
6/7/2016						5.62			5.77
7/27/2016						5.59	6.14	5.46	5.79
7/28/2016									
9/16/2016						5.58			
9/19/2016							6.04	5.59	5.73
11/2/2016									5.67
11/3/2016						5.59	5.97	5.39	
1/11/2017						5.59	6.05	5.48	
1/13/2017									5.79
3/1/2017							5.94	5.41	
3/2/2017						5.54			
3/6/2017									5.63
4/26/2017							5.99	5.4	5.66
5/2/2017						5.47			
6/28/2017							6	5.36	
6/29/2017						5.56			5.85
10/3/2017									
10/4/2017						5.57		5.32	5.83
10/5/2017							6.11		
3/28/2018						5.59	6.1	5.34	
3/29/2018									5.93
6/5/2018									
6/6/2018									5.86
6/7/2018							5.98		
6/11/2018						5.58		5.28	
9/25/2018						5.59	5.81	4.86	5.84
3/5/2019						5.48		5.26	6.07
3/6/2019							5.99		
4/2/2019						5.74			
4/3/2019							6.29	5.47	5.71
9/24/2019									
9/25/2019						5.49			5.86
9/26/2019							6.04	5.2	
1/3/2020	5.78								
1/15/2020		6.25			5.64				
1/16/2020			6.67	6.47					
2/11/2020			6.62		5.37	5.58	6.07	5.3	
2/12/2020									6
3/24/2020						5.57	5.98	5.33	5.86
3/25/2020	6.13								
9/23/2020		5.66		5.89		5.58 (D)	6.01 (D)	5.29 (D)	
9/24/2020	6				5.38				5.8 (D)
2/9/2021	6.42	5.81		6.96	5.34		6.12	5.43	5.86
3/3/2021	6.54	5.67		6.8		5.52	5.89	5.31	5.89
3/4/2021					5.32				
8/25/2021				6.79					
8/26/2021					5.35			4.4	
8/27/2021						5.27	5.4		5.57
9/1/2021	5.97	6.67							
9/3/2021			5.74						
2/9/2022						5.53	5.98	5.28	5.91

Time Series

Constituent: pH (S.U.) Analysis Run 4/26/2023 11:07 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
2/10/2022	5.8	5.64	5.93	6.1	5.22 (D)				
8/30/2022						4.68	5.82	5.18	
8/31/2022	5.64								5.38
9/1/2022		4.98	5.93	5.87	5.32				
2/7/2023						5.47	6	5.03	5.63
2/8/2023		5.95		6.19	5.67				
2/9/2023	5.73		5.89						

Time Series

Constituent: pH (S.U.) Analysis Run 4/26/2023 11:07 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-211 (bg)
6/6/2016	
6/7/2016	6.1
7/27/2016	
7/28/2016	6.12
9/16/2016	
9/19/2016	6.12
11/2/2016	
11/3/2016	6.07
1/11/2017	
1/13/2017	6.41
3/1/2017	
3/2/2017	
3/6/2017	6.34
4/26/2017	6.32
5/2/2017	
6/28/2017	
6/29/2017	6.47
10/3/2017	6.56
10/4/2017	
10/5/2017	
3/28/2018	
3/29/2018	6.75
6/5/2018	6.09
6/6/2018	
6/7/2018	
6/11/2018	
9/25/2018	6.67
3/5/2019	7.22
3/6/2019	
4/2/2019	6.94
4/3/2019	
9/24/2019	6.87
9/25/2019	
9/26/2019	
1/3/2020	
1/15/2020	
1/16/2020	
2/11/2020	
2/12/2020	7.13
3/24/2020	6.35
3/25/2020	
9/23/2020	
9/24/2020	6.7 (D)
2/9/2021	6.95
3/3/2021	
3/4/2021	6.8
8/25/2021	
8/26/2021	
8/27/2021	
9/1/2021	6.65
9/3/2021	
2/9/2022	6.84

Time Series

Constituent: pH (S.U.) Analysis Run 4/26/2023 11:07 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

YGWA-211 (bg)

2/10/2022	
8/30/2022	6.58
8/31/2022	
9/1/2022	
2/7/2023	6.82
2/8/2023	
2/9/2023	

Time Series

Constituent: pH (S.U.) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-41 (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/2/2016			6.36	7.67	5.75				
6/7/2016						5.57			
7/26/2016			6.22	7.66	5.72				
7/28/2016						5.6			
8/30/2016									5.64
8/31/2016									
9/14/2016			6.23	7.6	5.74				
9/20/2016						5.53			
11/2/2016			6.08	7.35					
11/4/2016					5.61				
11/8/2016						5.53			
11/16/2016									6.21
1/12/2017				7.49	5.71				
1/13/2017			6.19						
1/16/2017						5.59			
2/24/2017									
2/27/2017									6.09
3/6/2017			6.2						
3/7/2017				7.43	5.66				
3/9/2017						5.56			
5/1/2017			6.21	7.22					
5/2/2017					5.65	5.61			
5/10/2017									5.79
6/27/2017				7.32	5.7				
6/29/2017			6.21						
7/10/2017						5.68			
7/11/2017									5.45
10/3/2017				7.48	5.79				
10/5/2017			6.16						
10/11/2017	6.4					5.46			
10/12/2017		5.43					4.85	4.94	5.48
11/20/2017	6.33	5.1					4.87		
11/21/2017								4.69	
1/10/2018		4.97							
1/11/2018	6.29							4.73	
1/12/2018							4.78		
2/19/2018		5.6						4.96	
2/20/2018	7.22						5.1		
3/29/2018			6.09	7.02	5.63				
3/30/2018						5.73			
4/3/2018	6.87	5.84					4.76	5.31	
4/4/2018									5.93
6/6/2018				7.43					
6/7/2018			6.12		5.63				
6/12/2018						5.63			
6/27/2018								4.78	
6/28/2018	6.18	5.24					4.75		
8/7/2018	6.08	5.18					4.72	4.77	
9/20/2018									5.63
9/24/2018	5.81	5.14					4.67	4.78	
9/26/2018			5.84	7.13	5.63				
9/27/2018						5.47			

Time Series

Constituent: pH (S.U.) Analysis Run 4/26/2023 11:07 AM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-41 (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
3/4/2019			6.18	7.46	5.75				
3/6/2019						5.84			
3/26/2019		5.3							
3/27/2019	5.84						4.79		5.57
3/28/2019								5	
4/3/2019			6.43	7.11	5.63				
4/4/2019						5.64			
8/21/2019	5.96	5.26							
8/22/2019							4.81	4.89	5.61
9/24/2019				6.93	5.6				
9/25/2019			6.2						
9/27/2019						5.77			
10/9/2019	5.81	5.22					4.8	4.86	5.5
2/12/2020	5.97	5.3	6.15	7.52	5.83				
3/24/2020		5.29		7.34	5.81				
3/25/2020	5.78		6.26				4.89	4.87	5.53
3/26/2020						5.69			
9/22/2020			5.8 (D)	7.19 (D)	5.99 (D)				
9/24/2020	5.7 (D)	5.43 (D)				5.51			5.55
9/25/2020							4.9	4.95	
2/8/2021					5.67				
2/9/2021			6.06			5.61	5.04		
2/10/2021	5.8	5.19						4.98	5.65
3/2/2021				7.15	5.63				
3/3/2021			6.21						
3/4/2021	5.54	5.23				5.44	5.01	4.69	5.59
8/25/2021						5.46			6.73
8/26/2021	6.91		5.82	7.16	5.51		4.54	6.77	
9/3/2021		4.75							
9/27/2021									
2/8/2022	5.78	5.26						5.07 (D)	
2/10/2022				6.99	5.14	5.51	4.85		5.57
2/11/2022			5.95						
8/30/2022				7.4	5				
8/31/2022	5.3	4.53	5.5						
9/1/2022						5.27	4.91	4.43	5.49
2/7/2023	5.49			6.64					
2/8/2023		5.71				5.33	5.16	4.69	5.48
2/9/2023			6.23		5.9				

Time Series

Constituent: pH (S.U.) Analysis Run 4/26/2023 11:08 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

YGWC-43

6/2/2016	
6/7/2016	
7/26/2016	
7/28/2016	
8/30/2016	
8/31/2016	7.27
9/14/2016	
9/20/2016	
11/2/2016	
11/4/2016	
11/8/2016	
11/16/2016	6.79
1/12/2017	
1/13/2017	
1/16/2017	
2/24/2017	6.39
2/27/2017	
3/6/2017	
3/7/2017	
3/9/2017	
5/1/2017	
5/2/2017	
5/10/2017	6.5
6/27/2017	
6/29/2017	
7/10/2017	
7/11/2017	6.32
10/3/2017	
10/5/2017	
10/11/2017	
10/12/2017	5.97
11/20/2017	
11/21/2017	
1/10/2018	
1/11/2018	
1/12/2018	
2/19/2018	
2/20/2018	
3/29/2018	
3/30/2018	
4/3/2018	
4/4/2018	6.41
6/6/2018	
6/7/2018	
6/12/2018	
6/27/2018	
6/28/2018	
8/7/2018	
9/20/2018	5.69
9/24/2018	
9/26/2018	
9/27/2018	

Time Series

Constituent: pH (S.U.) Analysis Run 4/26/2023 11:08 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

YGWC-43

3/4/2019	
3/6/2019	
3/26/2019	
3/27/2019	
3/28/2019	5.96
4/3/2019	
4/4/2019	
8/21/2019	5.84
8/22/2019	
9/24/2019	
9/25/2019	
9/27/2019	
10/9/2019	5.78
2/12/2020	
3/24/2020	
3/25/2020	5.79
3/26/2020	
9/22/2020	
9/24/2020	
9/25/2020	5.75
2/8/2021	
2/9/2021	5.86
2/10/2021	
3/2/2021	
3/3/2021	
3/4/2021	5.88
8/25/2021	
8/26/2021	
9/3/2021	
9/27/2021	6.08
2/8/2022	5.82 (D)
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	
9/1/2022	5.62
2/7/2023	
2/8/2023	5.4
2/9/2023	

Time Series

Constituent: pH (S.U.) Analysis Run 4/26/2023 11:08 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

YGWA-3I (bg)

8/27/2008	
3/3/2009	
11/18/2009	
3/3/2010	
3/10/2011	
9/8/2011	
3/5/2012	
9/10/2012	
2/6/2013	
8/12/2013	
2/5/2014	
8/3/2015	
2/16/2016	
6/1/2016	7.72
6/2/2016	
7/25/2016	7.74
7/26/2016	
8/30/2016	
9/1/2016	
9/13/2016	
9/14/2016	7.65
9/15/2016	
9/19/2016	
11/1/2016	7.7
11/2/2016	
11/4/2016	
11/14/2016	
11/15/2016	
11/28/2016	
12/15/2016	
1/10/2017	
1/11/2017	7.53
1/16/2017	
2/21/2017	
2/22/2017	
2/24/2017	
2/27/2017	
3/1/2017	7.42
3/2/2017	
3/3/2017	
3/8/2017	
4/26/2017	7.4
4/27/2017	
4/28/2017	
5/8/2017	
5/9/2017	
5/26/2017	
6/27/2017	
6/28/2017	7.5
6/30/2017	
7/11/2017	
7/13/2017	

Time Series

Constituent: pH (S.U.) Analysis Run 4/26/2023 11:08 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

YGWA-3I (bg)	
7/17/2017	
10/3/2017	
10/4/2017	7.45
10/5/2017	
10/10/2017	
10/11/2017	
10/16/2017	
2/19/2018	
3/27/2018	
3/28/2018	7.74
3/29/2018	
4/2/2018	
4/4/2018	
6/5/2018	
6/6/2018	
6/7/2018	
6/8/2018	7.64
6/11/2018	
8/6/2018	
9/19/2018	
9/20/2018	
10/1/2018	7.47
10/2/2018	
2/25/2019	
2/26/2019	
2/27/2019	7.54
3/27/2019	
3/28/2019	
3/29/2019	
4/1/2019	7.74
6/12/2019	
8/19/2019	
8/20/2019	
9/24/2019	
9/25/2019	7.47
9/26/2019	
10/8/2019	
2/10/2020	
2/11/2020	7.09
2/12/2020	
3/17/2020	
3/18/2020	
3/19/2020	7.31
3/25/2020	
5/6/2020	
8/26/2020	
8/27/2020	
9/22/2020	
9/23/2020	7.37
9/24/2020	
9/25/2020	
2/9/2021	

Time Series

Constituent: pH (S.U.) Analysis Run 4/26/2023 11:08 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
2/10/2021	7.58
2/11/2021	
2/12/2021	
3/1/2021	
3/2/2021	
3/3/2021	8.23
3/4/2021	
8/19/2021	
8/20/2021	
8/27/2021	7.39
9/1/2021	
2/8/2022	
2/9/2022	7.66
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	7.49
2/7/2023	
2/8/2023	7.73
2/9/2023	

Time Series

Constituent: pH (S.U.) Analysis Run 4/26/2023 11:08 AM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB
6/8/2016							5.65
8/1/2016							5.47
9/2/2016			5.84				
9/20/2016							5.61
11/8/2016							5.55
11/14/2016			6.28				
1/17/2017							5.53
2/28/2017			5.99				
3/8/2017							5.62
5/2/2017							5.46
5/9/2017			6.3				
7/7/2017							5.81
7/13/2017			5.57				
9/22/2017			5.5				
9/29/2017			5.58				
10/5/2017							5.45
10/6/2017			5.51				
10/11/2017			5.47				
10/12/2017		5.57					
11/21/2017		5.49					
1/11/2018		5.87					
2/20/2018		5.9					
3/30/2018			5.51				5.64
4/3/2018		5.66					
6/12/2018							5.64
6/13/2018			5.5				
6/29/2018		5.49					
8/6/2018		5.52					
9/24/2018		5.37					
9/26/2018			5.53				5.61
3/5/2019							5.72
3/6/2019			5.21				
4/4/2019			5.74				5.66
9/26/2019			5.51				5.52
3/25/2020	5.65		5.49				
3/26/2020							5.51
9/23/2020							5.64
9/24/2020	5.52						
9/25/2020		5.46					
10/7/2020			5.86				
2/9/2021		5.42					5.69
2/10/2021	5.53		6.31				
3/3/2021							5.7
3/4/2021	5.64	5.51	5.67				
8/25/2021		5.48					
9/1/2021	6.82						5.22
9/3/2021			5.06	7.44			
2/10/2022	5.35	4.93 (D)				4.46	4.66
2/11/2022			5.58	7.84	6.4		
8/31/2022	5.28						
9/1/2022		4.98	5.18	8.06	6.2	4.74	
2/8/2023		5.15		7.95	6.12		

Time Series

Constituent: pH (S.U.) Analysis Run 4/26/2023 11:08 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB
2/9/2023	5.5		5.67			5.14	
2/10/2023							5.67

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/26/2023 11:08 AM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/6/2016							<0.005	<0.005	
6/7/2016						0.001 (J)			<0.005
7/27/2016						0.0012 (J)	<0.005	<0.005	<0.005
7/28/2016									
9/16/2016						0.0015 (J)		<0.005	
9/19/2016							<0.005		<0.005
11/2/2016									<0.005
11/3/2016						0.0015 (J)	<0.005	<0.005	
1/11/2017						0.0014 (J)	<0.005	<0.005	
1/13/2017									<0.005
3/1/2017							<0.005	<0.005	
3/2/2017						0.0017 (J)			
3/6/2017									<0.005
4/26/2017							<0.005	<0.005	<0.005
5/2/2017						<0.005			
6/28/2017							<0.005	<0.005	
6/29/2017						<0.005			<0.005
3/28/2018						<0.005	<0.005	<0.005	
3/29/2018									<0.005
6/5/2018									
6/6/2018									<0.005
6/7/2018							<0.005		
6/11/2018						<0.005		<0.005	
9/25/2018						<0.005	<0.005	<0.005	<0.005
10/16/2018	0.0019 (J)								
3/5/2019						<0.005		<0.005	<0.005
3/6/2019							<0.005		
4/2/2019						<0.005			
4/3/2019							<0.005	<0.005	<0.005
9/24/2019									
9/25/2019						<0.005			<0.005
9/26/2019	<0.005						<0.005	<0.005	
1/15/2020		<0.005			0.045				
1/16/2020			<0.005	0.0018 (J)					
2/11/2020						<0.005	<0.005	<0.005	
2/12/2020									<0.005
3/24/2020						<0.005	<0.005	<0.005	<0.005
3/25/2020	<0.005								
9/23/2020		<0.005		0.016		<0.005	<0.005	<0.005	
9/24/2020	<0.005				0.026				<0.005
2/9/2021	<0.005	<0.005		<0.005	0.06		<0.005	<0.005	<0.005
3/3/2021	<0.005	<0.005		<0.005		<0.005	<0.005	<0.005	<0.005
3/4/2021					0.061				
8/25/2021				0.019					
8/26/2021					0.055			<0.005	
8/27/2021						<0.005	<0.005		<0.005
9/1/2021	0.0027 (J)	<0.005							
2/9/2022						<0.005	<0.005	<0.005	<0.005
2/10/2022	0.0034 (J)	<0.005	<0.005	0.019	0.057				
8/30/2022						<0.005	<0.005	<0.005	
8/31/2022	0.0041 (J)								<0.005
9/1/2022		<0.005	<0.005	0.023	0.048				

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/26/2023 11:08 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
2/7/2023						<0.005	<0.005	<0.005	<0.005
2/8/2023		<0.005		0.017	0.052				
2/9/2023	0.0051		<0.005						

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/26/2023 11:08 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-211 (bg)
6/6/2016	
6/7/2016	0.00048 (J)
7/27/2016	
7/28/2016	<0.005
9/16/2016	
9/19/2016	0.0014 (J)
11/2/2016	
11/3/2016	<0.005
1/11/2017	
1/13/2017	<0.005
3/1/2017	
3/2/2017	
3/6/2017	<0.005
4/26/2017	<0.005
5/2/2017	
6/28/2017	
6/29/2017	<0.005
3/28/2018	
3/29/2018	<0.005
6/5/2018	<0.005
6/6/2018	
6/7/2018	
6/11/2018	
9/25/2018	<0.005
10/16/2018	
3/5/2019	<0.005
3/6/2019	
4/2/2019	<0.005
4/3/2019	
9/24/2019	<0.005
9/25/2019	
9/26/2019	
1/15/2020	
1/16/2020	
2/11/2020	
2/12/2020	<0.005
3/24/2020	<0.005
3/25/2020	
9/23/2020	
9/24/2020	<0.005
2/9/2021	<0.005
3/3/2021	
3/4/2021	<0.005
8/25/2021	
8/26/2021	
8/27/2021	
9/1/2021	<0.005
2/9/2022	<0.005
2/10/2022	
8/30/2022	<0.005
8/31/2022	
9/1/2022	

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/26/2023 11:08 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

YGWA-211 (bg)

2/7/2023	<0.005
2/8/2023	
2/9/2023	

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/26/2023 11:08 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/2/2016			<0.005	<0.005	<0.005				
6/7/2016						0.037			
7/26/2016			0.0009 (J)	<0.005	0.0009 (J)				
7/28/2016						0.0385			
8/30/2016									0.0711
8/31/2016									
9/14/2016			<0.005	<0.005	<0.005				
9/20/2016						0.0464			
11/2/2016			<0.005	<0.005					
11/4/2016					<0.005				
11/8/2016						0.0521			
11/16/2016									0.0313
1/12/2017				<0.005	<0.005				
1/13/2017			<0.005						
1/16/2017						0.0469			
2/24/2017									
2/27/2017									0.0316
3/6/2017			<0.005						
3/7/2017				<0.005	<0.005				
3/9/2017						0.0437			
5/1/2017			<0.005	<0.005					
5/2/2017					<0.005	0.0395			
5/10/2017									0.053
6/27/2017				<0.005	<0.005				
6/29/2017			<0.005						
7/10/2017						0.0386			
7/11/2017									0.0697
10/11/2017	<0.005								
10/12/2017		<0.005					0.265	0.0191	0.0594
11/20/2017	<0.005	0.0042 (J)					0.246		
11/21/2017								0.0687	
1/10/2018		0.0043 (J)							
1/11/2018	<0.005							0.069	
1/12/2018							0.249		
2/19/2018		<0.005						0.071	
2/20/2018	<0.005						0.253		
3/29/2018			<0.005	<0.005	<0.005				
3/30/2018						0.028			
4/3/2018	<0.005	<0.005					0.23	0.067	
4/4/2018									0.055
6/6/2018				<0.005					
6/7/2018			<0.005		<0.005				
6/12/2018						0.026			
6/27/2018								0.066	
6/28/2018	<0.005	0.0032 (J)					0.23		
8/7/2018	<0.005	0.0031 (J)					0.2	0.061	
9/20/2018									0.041
9/24/2018	0.0015 (J)	0.0026 (J)					0.2	0.061	
9/26/2018			<0.005	<0.005	<0.005				
9/27/2018						0.023			
3/4/2019			<0.005	<0.005	<0.005				
3/6/2019						0.019			

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/26/2023 11:08 AM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-41 (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
4/3/2019			<0.005	<0.005	<0.005				
4/4/2019						0.017			
8/21/2019	<0.005	0.0024 (J)							
8/22/2019							0.14	0.058	0.047
9/24/2019				<0.005	<0.005				
9/25/2019			<0.005						
9/27/2019						0.018			
10/9/2019	<0.005	0.0026 (J)					0.12	0.052	0.042
2/12/2020	<0.005	0.002 (J)	<0.005	<0.005	<0.005				
3/24/2020		0.002 (J)		<0.005	<0.005				
3/25/2020	<0.005		<0.005				0.099	0.057	0.046
3/26/2020						0.024			
9/22/2020			<0.005	<0.005	<0.005				
9/24/2020	<0.005	0.0016 (J)				0.031			0.046
9/25/2020							0.076	0.046	
2/8/2021				<0.005	<0.005				
2/9/2021			<0.005			0.032	0.073		
2/10/2021	<0.005	<0.005						0.033	0.043
3/2/2021				<0.005	<0.005				
3/3/2021			0.0019 (J)						
3/4/2021	<0.005	<0.005				0.037	0.076	0.037	0.048
8/25/2021						0.032			0.043
8/26/2021	<0.005		<0.005	<0.005	<0.005		0.06	0.027	
9/3/2021		<0.005							
9/27/2021									
2/8/2022	<0.005	0.0014 (J)						0.031	
2/10/2022				<0.005	<0.005	0.039	0.064		0.044
2/11/2022			<0.005						
8/30/2022				<0.005	<0.005				
8/31/2022	<0.005	<0.005	<0.005						
9/1/2022						0.036	0.055	0.027	0.035
2/7/2023	<0.005			<0.005					
2/8/2023		<0.005				0.035	0.056	0.027	0.041
2/9/2023			<0.005		<0.005				

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/26/2023 11:08 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

YGWC-43

6/2/2016	
6/7/2016	
7/26/2016	
7/28/2016	
8/30/2016	
8/31/2016	<0.005
9/14/2016	
9/20/2016	
11/2/2016	
11/4/2016	
11/8/2016	
11/16/2016	<0.005
1/12/2017	
1/13/2017	
1/16/2017	
2/24/2017	<0.005
2/27/2017	
3/6/2017	
3/7/2017	
3/9/2017	
5/1/2017	
5/2/2017	
5/10/2017	<0.005
6/27/2017	
6/29/2017	
7/10/2017	
7/11/2017	<0.005
10/11/2017	
10/12/2017	<0.005
11/20/2017	
11/21/2017	
1/10/2018	
1/11/2018	
1/12/2018	
2/19/2018	
2/20/2018	
3/29/2018	
3/30/2018	
4/3/2018	
4/4/2018	<0.005
6/6/2018	
6/7/2018	
6/12/2018	
6/27/2018	
6/28/2018	
8/7/2018	
9/20/2018	<0.005
9/24/2018	
9/26/2018	
9/27/2018	
3/4/2019	
3/6/2019	

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/26/2023 11:08 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
4/3/2019	
4/4/2019	
8/21/2019	<0.005
8/22/2019	
9/24/2019	
9/25/2019	
9/27/2019	
10/9/2019	<0.005
2/12/2020	
3/24/2020	
3/25/2020	<0.005
3/26/2020	
9/22/2020	
9/24/2020	
9/25/2020	<0.005
2/8/2021	
2/9/2021	<0.005
2/10/2021	
3/2/2021	
3/3/2021	
3/4/2021	<0.005
8/25/2021	
8/26/2021	
9/3/2021	
9/27/2021	<0.005
2/8/2022	<0.005
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	
9/1/2022	<0.005
2/7/2023	
2/8/2023	<0.005
2/9/2023	

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/26/2023 11:08 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
5/1/2007			<0.005						
9/11/2007			<0.005						
3/20/2008			<0.005						
8/27/2008			<0.005						
3/3/2009			<0.005						
11/18/2009			<0.005						
3/3/2010			<0.005						
9/8/2010			<0.005						
3/10/2011			<0.005						
9/8/2011			<0.005						
3/5/2012			<0.005						
9/10/2012			<0.005						
2/6/2013			<0.005						
8/12/2013			<0.005						
2/5/2014			<0.005						
8/5/2014			<0.005						
2/4/2015			<0.005						
8/3/2015			<0.005						
2/16/2016			<0.005						
6/1/2016					<0.005	<0.005			
6/2/2016				0.0011 (J)				<0.005	<0.005
7/25/2016						<0.005		<0.005	
7/26/2016				0.0016 (J)	<0.005				<0.005
8/30/2016		0.0017 (J)							
8/31/2016			<0.005						
9/1/2016	0.0086 (J)								
9/13/2016					<0.005	<0.005			
9/14/2016							<0.005		
9/15/2016				0.0014 (J)					<0.005
9/19/2016								<0.005	
11/1/2016					<0.005			<0.005	<0.005
11/2/2016				<0.005					
11/4/2016						<0.005	<0.005		
11/14/2016		<0.005							
11/15/2016	0.0056 (J)								
11/28/2016			<0.005						
12/15/2016							<0.005		
1/10/2017				0.0012 (J)					
1/11/2017					<0.005				<0.005
1/16/2017						<0.005	<0.005	<0.005	
2/21/2017								<0.005	
2/22/2017			<0.005						
2/24/2017		0.0011 (J)							
2/27/2017	0.0098 (J)								
3/1/2017									
3/2/2017					<0.005	<0.005			<0.005
3/3/2017							<0.005		
3/8/2017				<0.005					
4/26/2017				<0.005				<0.005	<0.005
4/27/2017					<0.005	<0.005			
4/28/2017							<0.005		
5/8/2017		<0.005	<0.005						

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/26/2023 11:08 AM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
5/9/2017	0.0076 (J)								
5/26/2017							<0.005		
6/27/2017					<0.005	<0.005			
6/28/2017							<0.005		<0.005
6/30/2017				<0.005				<0.005	
7/11/2017		<0.005							
7/13/2017	0.0093 (J)								
7/17/2017			<0.005						
10/10/2017		<0.005							
10/11/2017	0.0089 (J)								
10/16/2017			<0.005						
2/19/2018			<0.005						
3/27/2018				<0.005		<0.005		<0.005	
3/28/2018							<0.005		<0.005
3/29/2018					<0.005				
4/2/2018		<0.005							
4/4/2018	<0.01								
8/6/2018			<0.005						
9/19/2018		<0.005							
9/20/2018	0.0081 (J)								
2/25/2019			<0.005						
2/26/2019				<0.005				<0.005	
2/27/2019					<0.005	<0.005	<0.005		<0.005
3/28/2019					<0.005	<0.005			
3/29/2019				0.0019 (J)			<0.005		
4/1/2019								<0.005	<0.005
6/12/2019			<0.005						
8/19/2019			<0.005						
8/20/2019		<0.005							
9/24/2019				<0.005	<0.005	<0.005	<0.005		
9/25/2019				<0.005				<0.005	<0.005
9/26/2019	0.0077 (J)								
10/8/2019			<0.005						
2/10/2020					<0.005	<0.005			
2/11/2020							<0.005		
2/12/2020				<0.005				<0.005	<0.005
3/17/2020			<0.005						
3/18/2020				<0.005		<0.005			
3/19/2020					<0.005		<0.005	<0.005	<0.005
3/25/2020	0.0085 (J)								
8/26/2020			<0.005						
8/27/2020		<0.005							
9/22/2020			<0.005						
9/23/2020					<0.005	<0.005	<0.005		<0.005
9/24/2020	0.0091 (J)							<0.005	
9/25/2020				<0.005					
2/9/2021	0.0079 (J)								
2/10/2021				<0.005			<0.005		<0.005
2/11/2021								<0.005	
2/12/2021					<0.005	<0.005			
3/1/2021								<0.005	
3/2/2021			<0.005	<0.005					

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/26/2023 11:08 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
3/3/2021					<0.005	<0.005	<0.005		<0.005
3/4/2021	0.0058								
8/19/2021		<0.005		<0.005	<0.005	<0.005		<0.005	<0.005
8/20/2021			<0.005						
8/27/2021							<0.005		
9/1/2021	0.0066								
2/8/2022	0.0075	<0.005	<0.005						
2/9/2022					<0.005	<0.005	<0.005		<0.005
2/10/2022				0.0014 (J)					
2/11/2022								<0.005	
8/30/2022			<0.005		<0.005		<0.005		
8/31/2022	0.0062	<0.005		<0.005		<0.005		<0.005	<0.005
2/7/2023			<0.005		<0.005	<0.005	<0.005		
2/8/2023		<0.005		<0.005				<0.005	<0.005
2/9/2023	0.0054								

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/26/2023 11:08 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

YGWA-3I (bg)

5/1/2007	
9/11/2007	
3/20/2008	
8/27/2008	
3/3/2009	
11/18/2009	
3/3/2010	
9/8/2010	
3/10/2011	
9/8/2011	
3/5/2012	
9/10/2012	
2/6/2013	
8/12/2013	
2/5/2014	
8/5/2014	
2/4/2015	
8/3/2015	
2/16/2016	
6/1/2016	<0.005
6/2/2016	
7/25/2016	<0.005
7/26/2016	
8/30/2016	
8/31/2016	
9/1/2016	
9/13/2016	
9/14/2016	<0.005
9/15/2016	
9/19/2016	
11/1/2016	<0.005
11/2/2016	
11/4/2016	
11/14/2016	
11/15/2016	
11/28/2016	
12/15/2016	
1/10/2017	
1/11/2017	<0.005
1/16/2017	
2/21/2017	
2/22/2017	
2/24/2017	
2/27/2017	
3/1/2017	<0.005
3/2/2017	
3/3/2017	
3/8/2017	
4/26/2017	<0.005
4/27/2017	
4/28/2017	
5/8/2017	

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/26/2023 11:08 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

YGWA-3I (bg)

5/9/2017	
5/26/2017	
6/27/2017	
6/28/2017	<0.005
6/30/2017	
7/11/2017	
7/13/2017	
7/17/2017	
10/10/2017	
10/11/2017	
10/16/2017	
2/19/2018	
3/27/2018	
3/28/2018	<0.005
3/29/2018	
4/2/2018	
4/4/2018	
8/6/2018	
9/19/2018	
9/20/2018	
2/25/2019	
2/26/2019	
2/27/2019	<0.005
3/28/2019	
3/29/2019	
4/1/2019	<0.005
6/12/2019	
8/19/2019	
8/20/2019	
9/24/2019	
9/25/2019	<0.005
9/26/2019	
10/8/2019	
2/10/2020	
2/11/2020	<0.005
2/12/2020	
3/17/2020	
3/18/2020	
3/19/2020	<0.005
3/25/2020	
8/26/2020	
8/27/2020	
9/22/2020	
9/23/2020	<0.005
9/24/2020	
9/25/2020	
2/9/2021	
2/10/2021	<0.005
2/11/2021	
2/12/2021	
3/1/2021	
3/2/2021	

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/26/2023 11:08 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
3/3/2021	<0.005
3/4/2021	
8/19/2021	
8/20/2021	
8/27/2021	<0.005
9/1/2021	
2/8/2022	
2/9/2022	<0.005
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	<0.005
2/7/2023	
2/8/2023	<0.005
2/9/2023	

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/26/2023 11:08 AM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB
6/8/2016							<0.005
8/1/2016							<0.005
9/2/2016			0.0012 (J)				
9/20/2016							<0.005
11/8/2016							<0.005
11/14/2016			<0.005				
1/17/2017							<0.005
2/28/2017			0.0017 (J)				
3/8/2017							<0.005
5/2/2017							<0.005
5/9/2017			0.0018 (J)				
7/7/2017							<0.005
7/13/2017			0.0031 (J)				
9/22/2017			0.0024 (J)				
9/29/2017			0.002 (J)				
10/6/2017			<0.005				
10/12/2017		0.234					
11/21/2017		0.225					
1/11/2018		0.168					
2/20/2018		0.315					
3/30/2018			<0.005				<0.005
4/3/2018		0.28					
6/12/2018							<0.005
6/13/2018			0.0024 (J)				
6/29/2018		0.26					
8/6/2018		0.21					
9/24/2018		0.33					
9/26/2018			0.0037 (J)				<0.005
10/16/2018	<0.005						
3/5/2019							<0.005
3/6/2019			0.0033 (J)				
4/4/2019			0.0029 (J)				<0.005
9/26/2019	<0.005		0.0019 (J)				<0.005
3/25/2020	<0.005		0.0024 (J)				
3/26/2020							<0.005
9/23/2020							<0.005
9/24/2020	<0.005						
9/25/2020		0.32					
10/7/2020			<0.005				
2/9/2021		0.28					<0.005
2/10/2021	<0.005		<0.005				
3/3/2021							<0.005
3/4/2021	<0.005	0.27	<0.005				
8/25/2021		0.2					
9/1/2021	0.0016 (J)						<0.005
9/3/2021			<0.005	<0.005			
2/10/2022	0.003 (J)	0.2				0.029	<0.005
2/11/2022			<0.005	<0.005	0.0025 (J)		
8/31/2022	0.0033 (J)						
9/1/2022		0.17	<0.005	<0.005	0.0041 (J)	0.026	
2/8/2023		0.16		<0.005	0.0057		
2/9/2023	0.0041 (J)		0.0027 (J)			0.028	

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/26/2023 11:08 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB
2/10/2023							<0.005

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/26/2023 11:08 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/6/2016							1.2	1.8	
6/7/2016						4.4			<1
7/27/2016						4.7	1.7	1.9	0.08 (J)
7/28/2016									
9/16/2016						4.8		1.7	
9/19/2016							1.8		0.08 (J)
11/2/2016									0.1 (J)
11/3/2016						5.3	0.69 (J)	1.9	
1/11/2017						5.2	<1	1.7	
1/13/2017									<1
3/1/2017							1.8	<1.5	
3/2/2017						5			
3/6/2017									<1
4/26/2017							1.6	1.9	<1
5/2/2017						5			
6/28/2017							<1	<1.5	
6/29/2017						5.2			<1
10/3/2017									
10/4/2017						5.3		1.7	<1
10/5/2017							1.6		
6/5/2018									
6/6/2018									0.049 (J)
6/7/2018							0.68 (J)		
6/11/2018						5.2		0.95 (J)	
9/25/2018						6.1	1	1.5	0.13 (J)
10/16/2018	83.7								
4/2/2019						5.1			
4/3/2019							0.82 (J)	1.3	0.12 (J)
9/24/2019									
9/25/2019						5.5			<1
9/26/2019	46.6						0.64 (J)	1	
3/24/2020						5.4	<1	0.99 (J)	<1
3/25/2020	11.7								
9/23/2020		9.1		152		5.1	0.53 (J)	1.1	
9/24/2020	13.1				438				<1
3/3/2021	16.9	7.9		91.7		5.2	<1	1	<1
3/4/2021					340				
8/25/2021				164					
8/26/2021					338			1.2	
8/27/2021						5.3	0.59 (J)		<1
9/1/2021	94.7	8.3							
2/9/2022						4.8	0.51 (J)	1.1	<1
2/10/2022	120	7.1	305	160	276				
8/30/2022						4.7	0.78 (J)	1.3	
8/31/2022	173								<1
9/1/2022		6.6	324	179	354				
2/7/2023						4.9	0.78 (J)	1.2	<1
2/8/2023		6.7		192	368				
2/9/2023	209		419						

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/26/2023 11:08 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-211 (bg)
6/6/2016	
6/7/2016	5.2
7/27/2016	
7/28/2016	5.1
9/16/2016	
9/19/2016	4.8
11/2/2016	
11/3/2016	5
1/11/2017	
1/13/2017	4.3
3/1/2017	
3/2/2017	
3/6/2017	4.5
4/26/2017	4.9
5/2/2017	
6/28/2017	
6/29/2017	5.5
10/3/2017	5.8
10/4/2017	
10/5/2017	
6/5/2018	6.1
6/6/2018	
6/7/2018	
6/11/2018	
9/25/2018	7
10/16/2018	
4/2/2019	3.8
4/3/2019	
9/24/2019	1
9/25/2019	
9/26/2019	
3/24/2020	3
3/25/2020	
9/23/2020	
9/24/2020	3.6
3/3/2021	
3/4/2021	4.5
8/25/2021	
8/26/2021	
8/27/2021	
9/1/2021	5
2/9/2022	3.9
2/10/2022	
8/30/2022	3.2
8/31/2022	
9/1/2022	
2/7/2023	3.8
2/8/2023	
2/9/2023	

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/26/2023 11:08 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-41 (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/2/2016			8	20	1.9				
6/7/2016						56			
7/26/2016			7.7	20	1.8				
7/28/2016						57			
8/30/2016									980
8/31/2016									
9/14/2016			7.5	19	1.8				
9/20/2016						68			
11/2/2016			8.2	20					
11/4/2016					2				
11/8/2016						79			
11/16/2016									940
1/12/2017				19	1.9				
1/13/2017			8.1						
1/16/2017						72			
2/24/2017									
2/27/2017									940
3/6/2017			8						
3/7/2017				20	2.1				
3/9/2017						69			
5/1/2017			8.4	20					
5/2/2017					2	60			
5/10/2017									1200
6/27/2017				18	2.1				
6/29/2017			9.2						
7/10/2017						57			
7/11/2017									1300
10/3/2017				16	2.3				
10/5/2017			9.6						
10/11/2017	20					52			
10/12/2017		17					940	400	1100
11/20/2017	24	71					980		
11/21/2017								430	
1/10/2018		66							
1/11/2018	23							390	
1/12/2018							880		
2/19/2018		57.2						414	
2/20/2018	20.6						905		
4/3/2018	24.5	49.4					872	406	
4/4/2018									1020
6/6/2018				8.3					
6/7/2018			8.5		2				
6/12/2018						41.4			
6/27/2018								357	
6/28/2018	22	43.8					869		
8/7/2018	20.7	40.5					879	346	
9/20/2018									810
9/24/2018	21.2	39.7					872	358	
9/26/2018			10.2	7.9	2.3				
9/27/2018						39.6			
3/26/2019		34.3							
3/27/2019	17.7						851		831

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/26/2023 11:08 AM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
3/28/2019								258	
4/3/2019			8.5	7	2.1				
4/4/2019						27.9			
9/24/2019				5.5	2.4				
9/25/2019			8.5						
9/27/2019						30.3			
10/9/2019	15	27.9					708	263	725
3/24/2020		25.2		5.9	2.1				
3/25/2020	14.3		8.8				483	214	642
3/26/2020						36.5			
9/22/2020			8.2	5.5	2.1				
9/24/2020	11.7	22.9				52.5			579
9/25/2020							414	175	
3/2/2021				2.6	2.3				
3/3/2021			7.8						
3/4/2021	12	21.5				61.7 (M1)	356	117	537
8/25/2021						68			500
8/26/2021	19.2		8.5	6	2.4		328	117	
9/3/2021		21.3							
9/27/2021									
2/8/2022	14.6	17.9						109	
2/10/2022				4.9	2.4	78.7	290		485
2/11/2022			7.7						
8/30/2022				5.7	2.4				
8/31/2022	10.9	17.9	8						
9/1/2022						79	282	117	502
2/7/2023	9.7			5.2					
2/8/2023		17.5				78	251	119	494
2/9/2023			8.9		2.9				

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/26/2023 11:08 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

YGWC-43

6/2/2016	
6/7/2016	
7/26/2016	
7/28/2016	
8/30/2016	
8/31/2016	34
9/14/2016	
9/20/2016	
11/2/2016	
11/4/2016	
11/8/2016	
11/16/2016	240
1/12/2017	
1/13/2017	
1/16/2017	
2/24/2017	89
2/27/2017	
3/6/2017	
3/7/2017	
3/9/2017	
5/1/2017	
5/2/2017	
5/10/2017	100
6/27/2017	
6/29/2017	
7/10/2017	
7/11/2017	110
10/3/2017	
10/5/2017	
10/11/2017	
10/12/2017	120
11/20/2017	
11/21/2017	
1/10/2018	
1/11/2018	
1/12/2018	
2/19/2018	
2/20/2018	
4/3/2018	
4/4/2018	160
6/6/2018	
6/7/2018	
6/12/2018	
6/27/2018	
6/28/2018	
8/7/2018	
9/20/2018	247
9/24/2018	
9/26/2018	
9/27/2018	
3/26/2019	
3/27/2019	

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/26/2023 11:08 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
3/28/2019	181
4/3/2019	
4/4/2019	
9/24/2019	
9/25/2019	
9/27/2019	
10/9/2019	279
3/24/2020	
3/25/2020	164
3/26/2020	
9/22/2020	
9/24/2020	
9/25/2020	281
3/2/2021	
3/3/2021	
3/4/2021	328
8/25/2021	
8/26/2021	
9/3/2021	
9/27/2021	56.5
2/8/2022	133
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	
9/1/2022	169
2/7/2023	
2/8/2023	164
2/9/2023	

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/26/2023 11:08 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
6/1/2016					5	4.2			
6/2/2016				6.6				1.3	5.8
7/25/2016						3.7		1.2	
7/26/2016				6.1	5.4				6.7
8/30/2016		160							
8/31/2016			29						
9/1/2016	95								
9/13/2016					2.9	5.2			
9/14/2016							9.4		
9/15/2016				6.1					6
9/19/2016								1.2	
11/1/2016					3.9			1.3	4.9
11/2/2016				6.3					
11/4/2016						5	13		
11/14/2016		150							
11/15/2016	94								
11/28/2016			36						
12/15/2016							1.8		
1/10/2017				5.9					
1/11/2017					3.7				4.5
1/16/2017						7.9	11	<1.5	
2/21/2017								1.4	
2/22/2017			43						
2/24/2017		120							
2/27/2017	84								
3/1/2017									
3/2/2017					4.6	7.4			4.4
3/3/2017							8.8		
3/8/2017				7					
4/26/2017				7				1.4	5.1
4/27/2017					5.2	7.4			
4/28/2017							10		
5/8/2017		120	60						
5/9/2017	91								
5/26/2017							12		
6/27/2017					5.9	6.4			
6/28/2017							11		5.4
6/30/2017				6.5				<1.5	
7/11/2017		110							
7/13/2017	88								
7/17/2017			63						
10/3/2017					6.6	5.9	7.9		
10/4/2017								1.4	6.2
10/5/2017				7.9					
10/10/2017		93							
10/11/2017	86								
10/16/2017			62						
2/19/2018			64.6						
4/2/2018		88.8							
4/4/2018	76.5								
6/5/2018					6.4				
6/6/2018						4.4			

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/26/2023 11:08 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
6/1/2016	12
6/2/2016	
7/25/2016	8.4
7/26/2016	
8/30/2016	
8/31/2016	
9/1/2016	
9/13/2016	
9/14/2016	8.6
9/15/2016	
9/19/2016	
11/1/2016	8.9
11/2/2016	
11/4/2016	
11/14/2016	
11/15/2016	
11/28/2016	
12/15/2016	
1/10/2017	
1/11/2017	8.6
1/16/2017	
2/21/2017	
2/22/2017	
2/24/2017	
2/27/2017	
3/1/2017	9.3
3/2/2017	
3/3/2017	
3/8/2017	
4/26/2017	11
4/27/2017	
4/28/2017	
5/8/2017	
5/9/2017	
5/26/2017	
6/27/2017	
6/28/2017	12
6/30/2017	
7/11/2017	
7/13/2017	
7/17/2017	
10/3/2017	
10/4/2017	12
10/5/2017	
10/10/2017	
10/11/2017	
10/16/2017	
2/19/2018	
4/2/2018	
4/4/2018	
6/5/2018	
6/6/2018	

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/26/2023 11:08 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
6/7/2018	
6/8/2018	9.6
6/11/2018	
8/6/2018	
9/19/2018	
9/20/2018	
10/1/2018	9.1
10/2/2018	
2/25/2019	
3/27/2019	
3/28/2019	
3/29/2019	
4/1/2019	8.5
6/12/2019	
9/24/2019	
9/25/2019	13.8
9/26/2019	
10/8/2019	
3/17/2020	
3/18/2020	
3/19/2020	12.9
3/25/2020	
9/22/2020	
9/23/2020	16.8
9/24/2020	
9/25/2020	
3/1/2021	
3/2/2021	
3/3/2021	9.6
3/4/2021	
8/19/2021	
8/20/2021	
8/27/2021	18.2
9/1/2021	
2/8/2022	
2/9/2022	16
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	13.9
2/7/2023	
2/8/2023	14.7
2/9/2023	

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/26/2023 11:08 AM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB
6/8/2016							<1
8/1/2016							1.1
9/2/2016			72				
9/20/2016							0.38 (J)
11/8/2016							0.39 (J)
11/14/2016			110				
1/17/2017							<1
2/28/2017			110				
3/8/2017							0.29 (J)
5/2/2017							0.29 (J)
5/9/2017			130				
7/7/2017							0.37 (J)
7/13/2017			140				
9/22/2017			160				
9/29/2017			160				
10/5/2017							<1
10/6/2017			160				
10/11/2017			150				
10/12/2017		650					
11/21/2017		700					
1/11/2018		590					
2/20/2018		677					
4/3/2018		615					
6/12/2018							0.35 (J)
6/13/2018			144				
6/29/2018		634					
8/6/2018		623					
9/24/2018		674					
9/26/2018			160				0.28 (J)
10/16/2018	34.2						
4/4/2019			119				0.29 (J)
9/26/2019	14.3		84.8				0.23 (J)
3/25/2020	36.1		58.8				
3/26/2020							<1
9/23/2020							<1
9/24/2020	7.2						
9/25/2020		563					
10/7/2020			18.2				
3/3/2021							<1
3/4/2021	8.8	485	6.3				
8/25/2021		472					
9/1/2021	38.7						<1
9/3/2021			13.8	153			
2/10/2022	42.6	452				306	<1
2/11/2022			16.4	115	209		
8/31/2022	67.9						
9/1/2022		490	28.2	381	280	346	
2/8/2023		449		177	279		
2/9/2023	84.6		50.8			370	
2/10/2023							0.5 (J)

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/26/2023 11:08 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/6/2016							<0.001	<0.001	
6/7/2016						<0.001			<0.001
7/27/2016						<0.001	<0.001	<0.001	<0.001
7/28/2016									
9/16/2016						<0.001		<0.001	
9/19/2016							<0.001		<0.001
11/2/2016									<0.001
11/3/2016						<0.001	<0.001	<0.001	
1/11/2017						<0.001	<0.001	<0.001	
1/13/2017									<0.001
3/1/2017							<0.001	<0.001	
3/2/2017						<0.001			
3/6/2017									<0.001
4/26/2017							<0.001	<0.001	<0.001
5/2/2017						<0.001			
6/28/2017							<0.001	<0.001	
6/29/2017						<0.001			<0.001
3/28/2018						<0.001	<0.001	<0.001	
3/29/2018									<0.001
9/25/2018									
3/5/2019						<0.001		<0.001	<0.001
3/6/2019							<0.001		
4/2/2019						<0.001			
4/3/2019							<0.001	<0.001	<0.001
9/24/2019									
9/25/2019						<0.001			<0.001
9/26/2019	<0.001						<0.001	<0.001	
2/11/2020						<0.001	<0.001	<0.001	
2/12/2020									<0.001
3/24/2020						<0.001	<0.001	<0.001	<0.001
3/25/2020	<0.001								
9/23/2020		<0.001		<0.001		<0.001	<0.001	<0.001	
9/24/2020	<0.001				<0.001				<0.001
2/9/2021	<0.001	<0.001		<0.001	<0.001		<0.001	<0.001	<0.001
2/9/2022						<0.001	<0.001	<0.001	<0.001
2/10/2022	<0.001	<0.001	<0.001	<0.001	<0.001				
8/30/2022						<0.001	<0.001	<0.001	
8/31/2022	<0.001								<0.001
9/1/2022		<0.001	<0.001	<0.001	<0.001				
2/7/2023						<0.001	<0.001	<0.001	<0.001
2/8/2023		<0.001		<0.001	<0.001				
2/9/2023	<0.001		<0.001						

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/26/2023 11:08 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-211 (bg)
6/6/2016	
6/7/2016	<0.001
7/27/2016	
7/28/2016	<0.001
9/16/2016	
9/19/2016	<0.001
11/2/2016	
11/3/2016	<0.001
1/11/2017	
1/13/2017	<0.001
3/1/2017	
3/2/2017	
3/6/2017	<0.001
4/26/2017	<0.001
5/2/2017	
6/28/2017	
6/29/2017	<0.001
3/28/2018	
3/29/2018	<0.001
9/25/2018	<0.001
3/5/2019	<0.001
3/6/2019	
4/2/2019	<0.001
4/3/2019	
9/24/2019	<0.001
9/25/2019	
9/26/2019	
2/11/2020	
2/12/2020	<0.001
3/24/2020	<0.001
3/25/2020	
9/23/2020	
9/24/2020	<0.001
2/9/2021	<0.001
2/9/2022	<0.001
2/10/2022	
8/30/2022	<0.001
8/31/2022	
9/1/2022	
2/7/2023	<0.001
2/8/2023	
2/9/2023	

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/26/2023 11:08 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-41 (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/2/2016			<0.001	<0.001	<0.001				
6/7/2016						<0.001			
7/26/2016			<0.001	<0.001	<0.001				
7/28/2016						<0.001			
8/30/2016									<0.001
8/31/2016									
9/14/2016			<0.001	<0.001	<0.001				
9/20/2016						<0.001			
11/2/2016			<0.001	<0.001					
11/4/2016					<0.001				
11/8/2016						<0.001			
11/16/2016									<0.001
1/12/2017				<0.001	<0.001				
1/13/2017			<0.001						
1/16/2017						<0.001			
2/24/2017									
2/27/2017									<0.001
3/6/2017			<0.001						
3/7/2017				<0.001	<0.001				
3/9/2017						<0.001			
5/1/2017			<0.001	<0.001					
5/2/2017					<0.001	<0.001			
5/10/2017									<0.001
6/27/2017				<0.001	<0.001				
6/29/2017			<0.001						
7/10/2017						<0.001			
7/11/2017									<0.001
10/11/2017	<0.001								
10/12/2017		<0.001					<0.001	<0.001	<0.001
11/20/2017	<0.001	<0.001					<0.001		
11/21/2017								<0.001	
1/10/2018		<0.001							
1/11/2018	<0.001							<0.001	
1/12/2018							<0.001		
2/19/2018		<0.001						<0.001	
2/20/2018	<0.001						<0.001		
3/29/2018			<0.001	<0.001	<0.001				
3/30/2018						<0.001			
4/3/2018	<0.001	<0.001					<0.001	<0.001	
4/4/2018									<0.001
6/27/2018								<0.001	
6/28/2018	<0.001	<0.001					<0.001		
8/7/2018	<0.001	<0.001					<0.001	<0.001	
9/20/2018									<0.001
9/24/2018	<0.001	<0.001					<0.001	<0.001	
3/4/2019			<0.001	<0.001	<0.001				
3/6/2019						<0.001			
4/3/2019			<0.001	<0.001	<0.001				
4/4/2019						<0.001			
8/21/2019	<0.001	<0.001							
8/22/2019							<0.001	<0.001	<0.001
9/24/2019				<0.001	<0.001				

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/26/2023 11:08 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-41 (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
9/25/2019			<0.001						
9/27/2019						<0.001			
2/12/2020	<0.001	<0.001	<0.001	<0.001	<0.001				
3/24/2020		<0.001		<0.001	<0.001				
3/25/2020	<0.001		<0.001				<0.001	<0.001	<0.001
3/26/2020						<0.001			
9/22/2020			<0.001	<0.001	<0.001				
9/24/2020	<0.001	<0.001				<0.001			<0.001
9/25/2020							<0.001	<0.001	
2/8/2021				<0.001	<0.001				
2/9/2021			<0.001			<0.001	<0.001		
2/10/2021	<0.001	<0.001						<0.001	<0.001
2/8/2022	<0.001	<0.001						<0.001	
2/10/2022				<0.001	<0.001	<0.001	<0.001		<0.001
2/11/2022			<0.001						
8/30/2022				<0.001	<0.001				
8/31/2022	<0.001	<0.001	<0.001						
9/1/2022						<0.001	<0.001	<0.001	<0.001
2/7/2023	<0.001			<0.001					
2/8/2023		<0.001				<0.001	<0.001	<0.001	<0.001
2/9/2023			<0.001		<0.001				

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/26/2023 11:08 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

YGWC-43

6/2/2016	
6/7/2016	
7/26/2016	
7/28/2016	
8/30/2016	
8/31/2016	<0.001
9/14/2016	
9/20/2016	
11/2/2016	
11/4/2016	
11/8/2016	
11/16/2016	<0.001
1/12/2017	
1/13/2017	
1/16/2017	
2/24/2017	<0.001
2/27/2017	
3/6/2017	
3/7/2017	
3/9/2017	
5/1/2017	
5/2/2017	
5/10/2017	<0.001
6/27/2017	
6/29/2017	
7/10/2017	
7/11/2017	<0.001
10/11/2017	
10/12/2017	<0.001
11/20/2017	
11/21/2017	
1/10/2018	
1/11/2018	
1/12/2018	
2/19/2018	
2/20/2018	
3/29/2018	
3/30/2018	
4/3/2018	
4/4/2018	<0.001
6/27/2018	
6/28/2018	
8/7/2018	
9/20/2018	<0.001
9/24/2018	
3/4/2019	
3/6/2019	
4/3/2019	
4/4/2019	
8/21/2019	<0.001
8/22/2019	
9/24/2019	

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/26/2023 11:08 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

YGWC-43

9/25/2019	
9/27/2019	
2/12/2020	
3/24/2020	
3/25/2020	<0.001
3/26/2020	
9/22/2020	
9/24/2020	
9/25/2020	<0.001
2/8/2021	
2/9/2021	<0.001
2/10/2021	
2/8/2022	<0.001
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	
9/1/2022	<0.001
2/7/2023	
2/8/2023	<0.001
2/9/2023	

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/26/2023 11:08 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
5/1/2007			<0.001						
9/11/2007			<0.001						
3/20/2008			<0.001						
8/27/2008			<0.001						
3/3/2009			<0.001						
11/18/2009			<0.001						
3/3/2010			<0.001						
9/8/2010			<0.001						
3/10/2011			<0.001						
9/8/2011			<0.001						
3/5/2012			<0.001						
9/10/2012			<0.001						
2/6/2013			<0.001						
8/12/2013			<0.001						
2/5/2014			<0.001						
8/5/2014			<0.001						
2/4/2015			<0.001						
2/16/2016			<0.001						
6/1/2016					<0.001	<0.001			
6/2/2016				<0.001				<0.001	<0.001
7/25/2016						<0.001		<0.001	
7/26/2016				<0.001	<0.001				0.0001 (J)
8/30/2016		<0.001							
8/31/2016			<0.001						
9/1/2016	<0.001								
9/13/2016					<0.001	<0.001			
9/14/2016							<0.001		
9/15/2016				<0.001					<0.001
9/19/2016								<0.001	
11/1/2016					<0.001			<0.001	<0.001
11/2/2016				<0.001					
11/4/2016						<0.001	<0.001		
11/14/2016		<0.001							
11/15/2016	<0.001								
11/28/2016			<0.001						
12/15/2016							<0.001		
1/10/2017				<0.001					
1/11/2017					<0.001				<0.001
1/16/2017						<0.001	<0.001	<0.001	
2/21/2017								<0.001	
2/22/2017			<0.001						
2/24/2017		<0.001							
2/27/2017	9E-05 (J)								
3/1/2017									
3/2/2017					<0.001	<0.001			<0.001
3/3/2017							<0.001		
3/8/2017				<0.001					
4/26/2017				<0.001				<0.001	<0.001
4/27/2017					<0.001	<0.001			
4/28/2017							<0.001		
5/8/2017		<0.001	6E-05 (J)						
5/9/2017	<0.001								

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/26/2023 11:08 AM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
5/26/2017							<0.001		
6/27/2017					<0.001	<0.001			
6/28/2017							<0.001		<0.001
6/30/2017				<0.001				<0.001	
7/11/2017		<0.001							
7/13/2017	<0.001								
7/17/2017			6E-05 (J)						
10/10/2017		<0.001							
10/11/2017	<0.001								
10/16/2017			7E-05 (J)						
2/19/2018			<0.001						
3/27/2018				<0.001		<0.001		<0.001	
3/28/2018							<0.001		<0.001
3/29/2018					<0.001				
4/2/2018		<0.001							
4/4/2018	<0.001								
8/6/2018			<0.001						
9/19/2018		<0.001							
9/20/2018	<0.001								
2/25/2019			<0.001						
2/26/2019				<0.001				<0.001	
2/27/2019					<0.001	<0.001	<0.001		<0.001
6/12/2019			<0.001						
8/19/2019			5.5E-05 (J)						
8/20/2019		5.8E-05 (J)							
9/26/2019	<0.001								
10/8/2019		8.4E-05 (J)	<0.001						
2/10/2020					<0.001	5.5E-05 (J)			
2/11/2020							<0.001		
2/12/2020				8.9E-05 (J)				<0.001	<0.001
3/17/2020		<0.001	<0.001						
3/18/2020				<0.001		<0.001			
3/19/2020					<0.001		<0.001	<0.001	<0.001
3/25/2020	<0.001								
8/26/2020			<0.001						
8/27/2020		<0.001							
9/22/2020			<0.001						
9/23/2020					<0.001	<0.001	<0.001		<0.001
9/24/2020	<0.001							<0.001	
9/25/2020				<0.001					
2/9/2021	<0.001								
2/10/2021				<0.001			<0.001		<0.001
2/11/2021								<0.001	
2/12/2021					<0.001	<0.001			
3/2/2021			<0.001						
8/19/2021		<0.001							
8/20/2021			<0.001						
2/8/2022	<0.001	<0.001	<0.001						
2/9/2022					<0.001	<0.001	<0.001		<0.001
2/10/2022				<0.001					
2/11/2022								<0.001	
8/30/2022			<0.001		<0.001		<0.001		

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/26/2023 11:08 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
8/31/2022	<0.001	<0.001		<0.001		<0.001		<0.001	<0.001
2/7/2023			<0.001		<0.001	<0.001	<0.001		
2/8/2023		<0.001		<0.001				<0.001	<0.001
2/9/2023	<0.001								

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/26/2023 11:08 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

YGWA-3I (bg)

5/1/2007	
9/11/2007	
3/20/2008	
8/27/2008	
3/3/2009	
11/18/2009	
3/3/2010	
9/8/2010	
3/10/2011	
9/8/2011	
3/5/2012	
9/10/2012	
2/6/2013	
8/12/2013	
2/5/2014	
8/5/2014	
2/4/2015	
2/16/2016	
6/1/2016	<0.001
6/2/2016	
7/25/2016	<0.001
7/26/2016	
8/30/2016	
8/31/2016	
9/1/2016	
9/13/2016	
9/14/2016	<0.001
9/15/2016	
9/19/2016	
11/1/2016	<0.001
11/2/2016	
11/4/2016	
11/14/2016	
11/15/2016	
11/28/2016	
12/15/2016	
1/10/2017	
1/11/2017	<0.001
1/16/2017	
2/21/2017	
2/22/2017	
2/24/2017	
2/27/2017	
3/1/2017	<0.001
3/2/2017	
3/3/2017	
3/8/2017	
4/26/2017	<0.001
4/27/2017	
4/28/2017	
5/8/2017	
5/9/2017	

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/26/2023 11:08 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
5/26/2017	
6/27/2017	
6/28/2017	<0.001
6/30/2017	
7/11/2017	
7/13/2017	
7/17/2017	
10/10/2017	
10/11/2017	
10/16/2017	
2/19/2018	
3/27/2018	
3/28/2018	<0.001
3/29/2018	
4/2/2018	
4/4/2018	
8/6/2018	
9/19/2018	
9/20/2018	
2/25/2019	
2/26/2019	
2/27/2019	<0.001
6/12/2019	
8/19/2019	
8/20/2019	
9/26/2019	
10/8/2019	
2/10/2020	
2/11/2020	<0.001
2/12/2020	
3/17/2020	
3/18/2020	
3/19/2020	<0.001
3/25/2020	
8/26/2020	
8/27/2020	
9/22/2020	
9/23/2020	0.00016 (J)
9/24/2020	
9/25/2020	
2/9/2021	
2/10/2021	<0.001
2/11/2021	
2/12/2021	
3/2/2021	
8/19/2021	
8/20/2021	
2/8/2022	
2/9/2022	<0.001
2/10/2022	
2/11/2022	
8/30/2022	

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/26/2023 11:08 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
8/31/2022	<0.001
2/7/2023	
2/8/2023	<0.001
2/9/2023	

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/26/2023 11:08 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB
6/8/2016							<0.001
8/1/2016							<0.001
9/2/2016			<0.001				
9/20/2016							<0.001
11/8/2016							<0.001
11/14/2016			<0.001				
1/17/2017							<0.001
2/28/2017			<0.001				
3/8/2017							<0.001
5/2/2017							<0.001
5/9/2017			<0.001				
7/7/2017							<0.001
7/13/2017			<0.001				
9/22/2017			<0.001				
9/29/2017			<0.001				
10/6/2017			<0.001				
10/12/2017		<0.001					
11/21/2017		<0.001					
1/11/2018		<0.001					
2/20/2018		<0.001					
3/30/2018			<0.001				<0.001
4/3/2018		<0.001					
6/29/2018		<0.001					
8/6/2018		<0.001					
9/24/2018		<0.001					
3/5/2019							<0.001
3/6/2019			<0.001				
4/4/2019			<0.001				<0.001
9/26/2019	<0.001		<0.001				<0.001
3/25/2020	<0.001		<0.001				
3/26/2020							<0.001
9/23/2020							<0.001
9/24/2020	<0.001						
9/25/2020		<0.001					
10/7/2020			<0.001				
2/9/2021		<0.001					<0.001
2/10/2021	<0.001		<0.001				
2/10/2022	<0.001	<0.001				<0.001	<0.001
2/11/2022			<0.001	<0.001	<0.001		
8/31/2022	<0.001						
9/1/2022		<0.001	<0.001	<0.001	<0.001	<0.001	
2/8/2023		<0.001		<0.001	<0.001		
2/9/2023	<0.001		<0.001			<0.001	
2/10/2023							<0.001

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/26/2023 11:08 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/6/2016							120	58	
6/7/2016						28			38
7/27/2016						74	94	35	74
7/28/2016									
9/16/2016						67		35	
9/19/2016							92		45
11/2/2016									53
11/3/2016						41	104	48	
1/11/2017						104	133	95	
1/13/2017									46
3/1/2017							119	79	
3/2/2017						77			
3/6/2017									164
4/26/2017							162	36	34
5/2/2017						142			
6/28/2017							98	45	
6/29/2017						53			68
10/3/2017									
10/4/2017						61		45	54
10/5/2017							104		
6/5/2018									
6/6/2018									79
6/7/2018							68		
6/11/2018						70		74	
9/25/2018						86	109	63	73
10/16/2018	209								
4/2/2019						72			
4/3/2019							89	63	57
9/24/2019									
9/25/2019						81			75
9/26/2019							126	72	
3/24/2020						71	91	59	76
3/25/2020	139								
9/23/2020		62		329		99	103	81	
9/24/2020	106				788				69
3/3/2021	121	40		245		57	95	37	53
3/4/2021					604				
8/25/2021				332					
8/26/2021					570			31	
8/27/2021						93	112		67
9/1/2021	219	60							
2/9/2022						81	103	60	72
2/10/2022	281	48	606	346	499				
8/30/2022						81	100	52	
8/31/2022	336								62
9/1/2022		52	632	358	662				
2/7/2023						78	96	55	89
2/8/2023		190		402	660				
2/9/2023	347		727						

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/26/2023 11:08 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

YGWA-211 (bg)

6/6/2016	
6/7/2016	60
7/27/2016	
7/28/2016	81
9/16/2016	
9/19/2016	68
11/2/2016	
11/3/2016	61
1/11/2017	
1/13/2017	76
3/1/2017	
3/2/2017	
3/6/2017	167
4/26/2017	50
5/2/2017	
6/28/2017	
6/29/2017	94
10/3/2017	149
10/4/2017	
10/5/2017	
6/5/2018	109
6/6/2018	
6/7/2018	
6/11/2018	
9/25/2018	122
10/16/2018	
4/2/2019	134
4/3/2019	
9/24/2019	157
9/25/2019	
9/26/2019	
3/24/2020	117
3/25/2020	
9/23/2020	
9/24/2020	113
3/3/2021	
3/4/2021	110
8/25/2021	
8/26/2021	
8/27/2021	
9/1/2021	137
2/9/2022	131
2/10/2022	
8/30/2022	122
8/31/2022	
9/1/2022	
2/7/2023	163
2/8/2023	
2/9/2023	

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/26/2023 11:08 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-41 (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/2/2016			96	160	66				
6/7/2016						130			
7/26/2016			92	177	78				
7/28/2016						119			
8/30/2016									1650
8/31/2016									
9/14/2016			102	187	73				
9/20/2016						132			
11/2/2016			115	181					
11/4/2016					75				
11/8/2016						146			
11/16/2016									1420
1/12/2017				202	86				
1/13/2017			67						
1/16/2017						194			
2/24/2017									
2/27/2017									1640
3/6/2017			159						
3/7/2017				257	108				
3/9/2017						288			
5/1/2017			107	165					
5/2/2017					103	221			
5/10/2017									1630
6/27/2017				189	73				
6/29/2017			79						
7/10/2017						123			
7/11/2017									1800
10/3/2017				170	89				
10/5/2017			95						
10/11/2017	68					100			
10/12/2017		74					1360	636	1600
11/20/2017	139	179					1390		
11/21/2017								706	
1/10/2018		140							
1/11/2018	153							701	
1/12/2018							1400		
2/19/2018		119						630	
2/20/2018	87						1300		
4/3/2018	85	106					1390	660	
4/4/2018									1520
6/6/2018				151					
6/7/2018			90		142				
6/12/2018						115			
6/27/2018								575	
6/28/2018	88	112					1310		
8/7/2018	89	103					1340	574	
9/20/2018									1240
9/24/2018	82	107					1400	588	
9/26/2018			116	144	86				
9/27/2018						105			
3/26/2019		90							
3/27/2019	75						1190		1100

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/26/2023 11:08 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-41 (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
3/28/2019								372	
4/3/2019			111	142	83				
4/4/2019						85			
9/24/2019				129	79				
9/25/2019			117						
9/27/2019						96			
10/9/2019	119	98					1100	440	1170
3/24/2020		84		139	68				
3/25/2020	158		146				883	428	1200
3/26/2020						110			
9/22/2020			83	104	75				
9/24/2020	170	77				129			1060
9/25/2020							664	307	
3/2/2021				52	67				
3/3/2021			80						
3/4/2021	168	57				96	600	224	501
8/25/2021						141			886
8/26/2021	249		93	123	86		562	225	
9/3/2021		88							
9/27/2021									
2/8/2022	248	93						226	
2/10/2022				127	77	180	541		882
2/11/2022			102						
8/30/2022				148	86				
8/31/2022	242	92	92						
9/1/2022						191	499	205	934
2/7/2023	224			180					
2/8/2023		115				158	579	257	853
2/9/2023			124		59				

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/26/2023 11:08 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

YGWC-43

6/2/2016	
6/7/2016	
7/26/2016	
7/28/2016	
8/30/2016	
8/31/2016	80
9/14/2016	
9/20/2016	
11/2/2016	
11/4/2016	
11/8/2016	
11/16/2016	112
1/12/2017	
1/13/2017	
1/16/2017	
2/24/2017	147
2/27/2017	
3/6/2017	
3/7/2017	
3/9/2017	
5/1/2017	
5/2/2017	
5/10/2017	203
6/27/2017	
6/29/2017	
7/10/2017	
7/11/2017	238
10/3/2017	
10/5/2017	
10/11/2017	
10/12/2017	287
11/20/2017	
11/21/2017	
1/10/2018	
1/11/2018	
1/12/2018	
2/19/2018	
2/20/2018	
4/3/2018	
4/4/2018	292
6/6/2018	
6/7/2018	
6/12/2018	
6/27/2018	
6/28/2018	
8/7/2018	
9/20/2018	434
9/24/2018	
9/26/2018	
9/27/2018	
3/26/2019	
3/27/2019	

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/26/2023 11:08 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
3/28/2019	323
4/3/2019	
4/4/2019	
9/24/2019	
9/25/2019	
9/27/2019	
10/9/2019	501
3/24/2020	
3/25/2020	352
3/26/2020	
9/22/2020	
9/24/2020	
9/25/2020	494
3/2/2021	
3/3/2021	
3/4/2021	592
8/25/2021	
8/26/2021	
9/3/2021	
9/27/2021	158
2/8/2022	294
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	
9/1/2022	366
2/7/2023	
2/8/2023	333
2/9/2023	

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/26/2023 11:08 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
6/1/2016					120	54			
6/2/2016				46				36	130
7/25/2016						48		50	
7/26/2016				54	94				141
8/30/2016		319							
8/31/2016			209						
9/1/2016	228								
9/13/2016					105	67			
9/14/2016							152		
9/15/2016				54					153
9/19/2016								35	
11/1/2016					44			<25	92
11/2/2016				71					
11/4/2016						60	148		
11/14/2016		280							
11/15/2016	211								
11/28/2016			102						
12/15/2016							191		
1/10/2017				45					
1/11/2017					107				159
1/16/2017						65	180	47	
2/21/2017								<25	
2/22/2017			164						
2/24/2017		162							
2/27/2017	382								
3/1/2017									
3/2/2017					98	61			117
3/3/2017							156		
3/8/2017				178					
4/26/2017				52				55	181
4/27/2017					116	31			
4/28/2017							130		
5/8/2017		194	145						
5/9/2017	154								
5/26/2017							223		
6/27/2017					89	42			
6/28/2017							166		169
6/30/2017				45				42	
7/11/2017		193							
7/13/2017	192								
7/17/2017			185						
10/3/2017					119	58	153		
10/4/2017								31	141
10/5/2017				40					
10/10/2017		175							
10/11/2017	177								
10/16/2017			218						
2/19/2018			173						
4/2/2018		192							
4/4/2018	174								
6/5/2018					127				
6/6/2018						96			

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/26/2023 11:08 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
6/1/2016	150
6/2/2016	
7/25/2016	135
7/26/2016	
8/30/2016	
8/31/2016	
9/1/2016	
9/13/2016	
9/14/2016	127
9/15/2016	
9/19/2016	
11/1/2016	75
11/2/2016	
11/4/2016	
11/14/2016	
11/15/2016	
11/28/2016	
12/15/2016	
1/10/2017	
1/11/2017	148
1/16/2017	
2/21/2017	
2/22/2017	
2/24/2017	
2/27/2017	
3/1/2017	182
3/2/2017	
3/3/2017	
3/8/2017	
4/26/2017	92
4/27/2017	
4/28/2017	
5/8/2017	
5/9/2017	
5/26/2017	
6/27/2017	
6/28/2017	126
6/30/2017	
7/11/2017	
7/13/2017	
7/17/2017	
10/3/2017	
10/4/2017	147
10/5/2017	
10/10/2017	
10/11/2017	
10/16/2017	
2/19/2018	
4/2/2018	
4/4/2018	
6/5/2018	
6/6/2018	

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/26/2023 11:08 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
6/7/2018	
6/8/2018	158
6/11/2018	
8/6/2018	
9/19/2018	
9/20/2018	
10/1/2018	138
10/2/2018	
2/25/2019	
3/27/2019	
3/28/2019	
3/29/2019	
4/1/2019	19 (J)
6/12/2019	
9/24/2019	
9/25/2019	159
9/26/2019	
10/8/2019	
3/17/2020	
3/18/2020	
3/19/2020	148
3/25/2020	
9/22/2020	
9/23/2020	155
9/24/2020	
9/25/2020	
3/1/2021	
3/2/2021	
3/3/2021	111
3/4/2021	
8/19/2021	
8/20/2021	
8/27/2021	155
9/1/2021	
2/8/2022	
2/9/2022	145
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	137
2/7/2023	
2/8/2023	145
2/9/2023	

Time Series

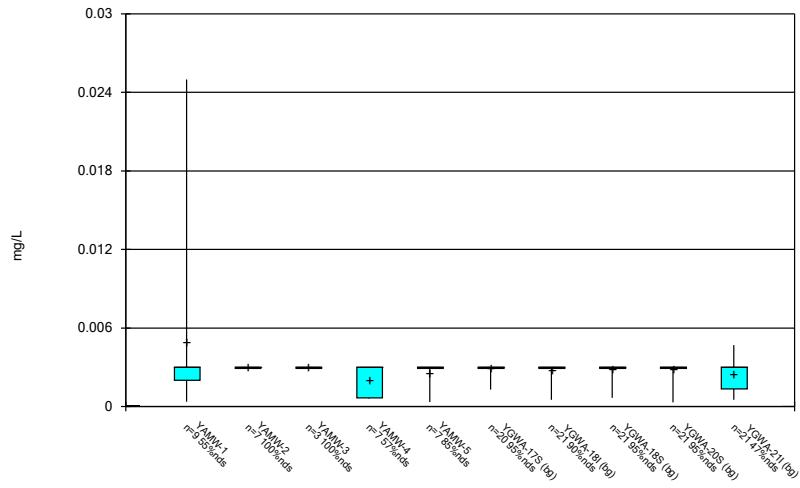
Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/26/2023 11:08 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB
6/8/2016							66
8/1/2016							56
9/2/2016			243				
9/20/2016							53
11/8/2016							58
11/14/2016			272				
1/17/2017							56
2/28/2017			306				
3/8/2017							192
5/2/2017							113
5/9/2017			303				
7/7/2017							46
7/13/2017			282				
9/22/2017			309				
9/29/2017			273				
10/5/2017							48
10/6/2017			287				
10/11/2017			264				
10/12/2017		1060					
11/21/2017		1100					
1/11/2018		1020					
2/20/2018		1050					
4/3/2018		1080					
6/12/2018							79
6/13/2018			292				
6/29/2018		979					
8/6/2018		1020					
9/24/2018		1090					
9/26/2018			277				59
10/16/2018	123						
4/4/2019			240				63
9/26/2019			198				81
3/25/2020	84		164				
3/26/2020							67
9/23/2020							87
9/24/2020	100						
9/25/2020		878					
10/7/2020			137				
3/3/2021							70
3/4/2021	59	856	69				
8/25/2021		876					
9/1/2021	128						96
9/3/2021			89	374			
2/10/2022	130	798				574	78
2/11/2022			81	382	456		
8/31/2022	173						
9/1/2022		908	108	916	544	622	
2/8/2023		822		477	542		
2/9/2023	196		116			582	
2/10/2023							66

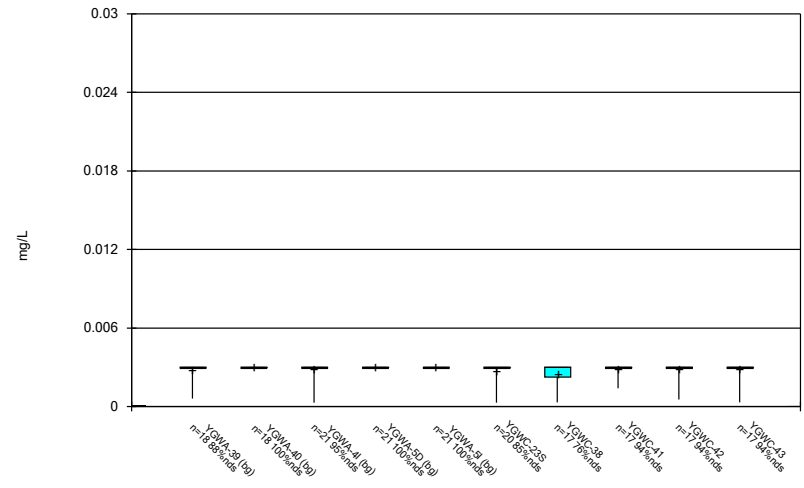
FIGURE B.

Box & Whiskers Plot



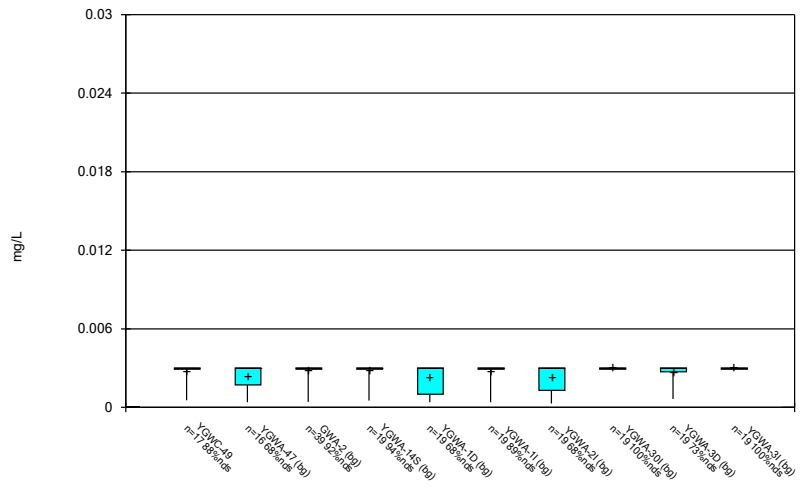
Constituent: Antimony Analysis Run 4/26/2023 11:08 AM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



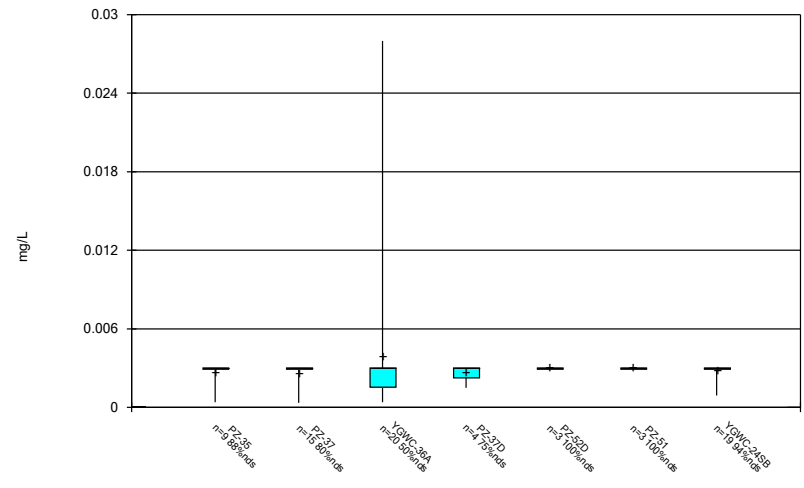
Constituent: Antimony Analysis Run 4/26/2023 11:08 AM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



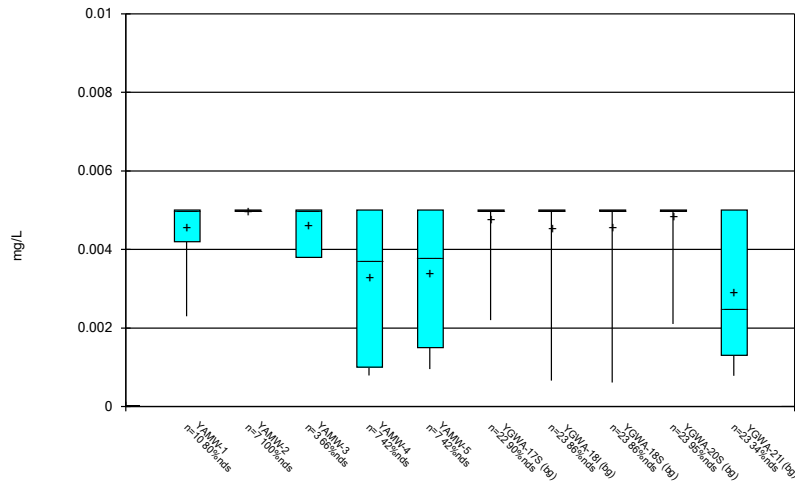
Constituent: Antimony Analysis Run 4/26/2023 11:08 AM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



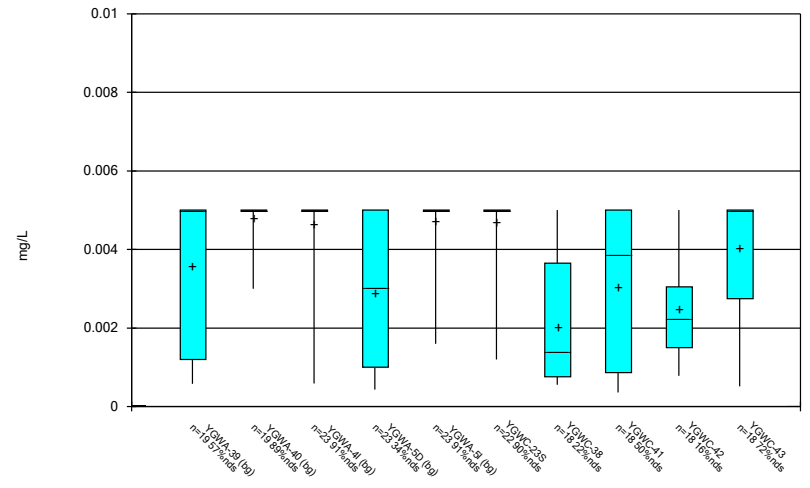
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 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



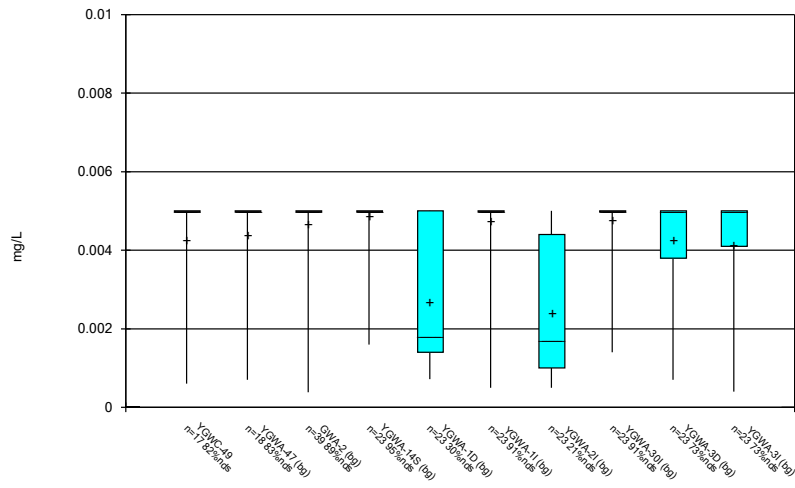
Constituent: Arsenic Analysis Run 4/26/2023 11:08 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



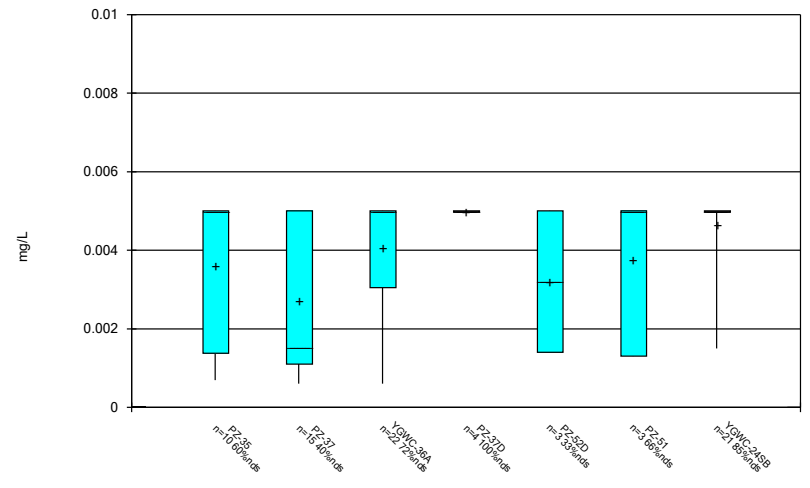
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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



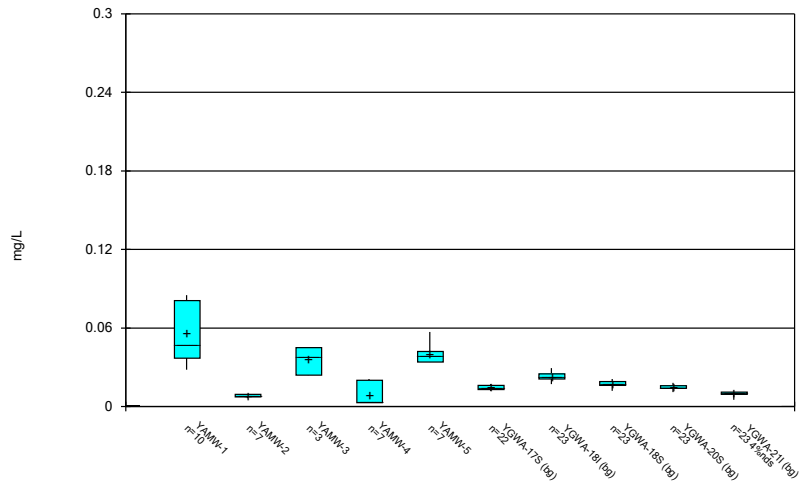
Constituent: Arsenic Analysis Run 4/26/2023 11:08 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



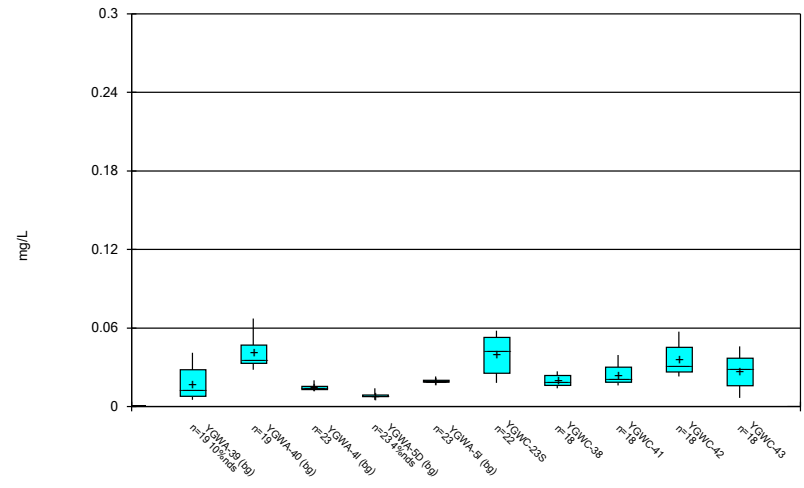
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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



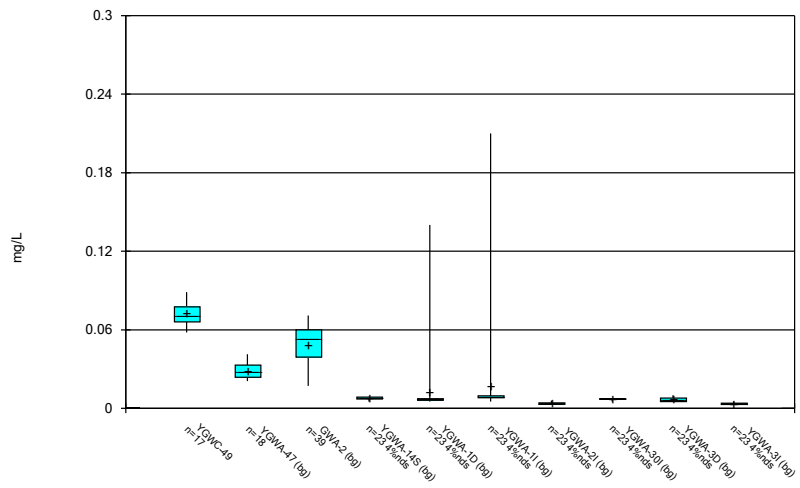
Constituent: Barium Analysis Run 4/26/2023 11:08 AM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



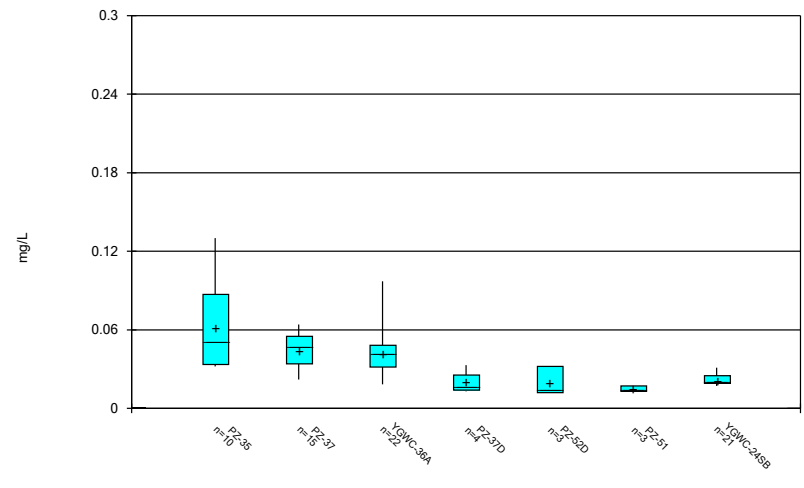
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 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



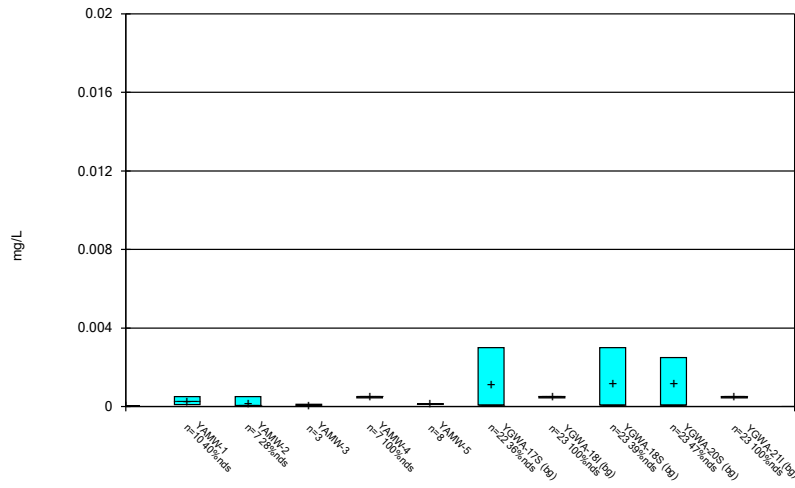
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 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



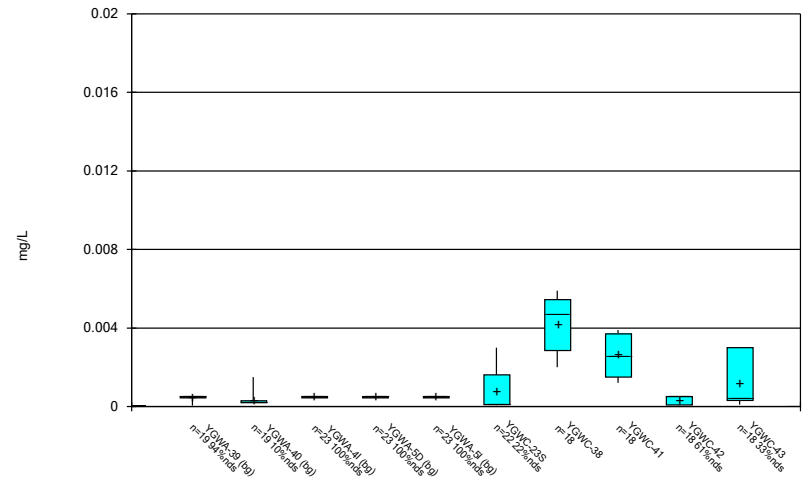
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 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



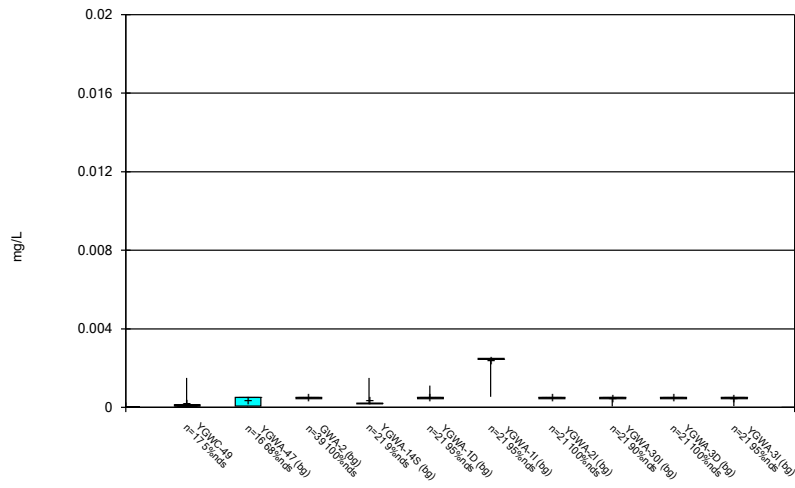
Constituent: Beryllium Analysis Run 4/26/2023 11:08 AM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



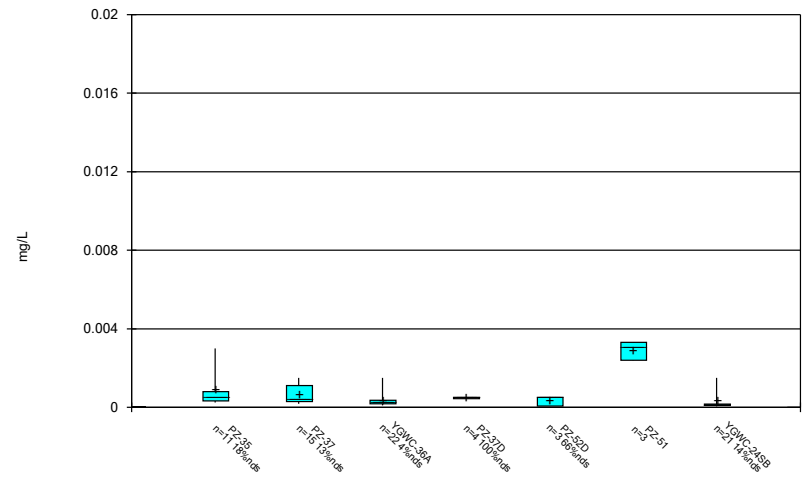
Constituent: Beryllium Analysis Run 4/26/2023 11:08 AM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



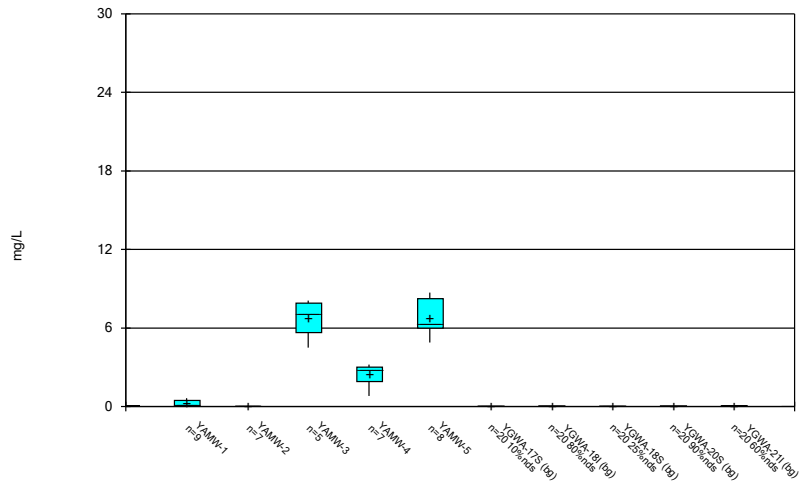
Constituent: Beryllium Analysis Run 4/26/2023 11:09 AM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



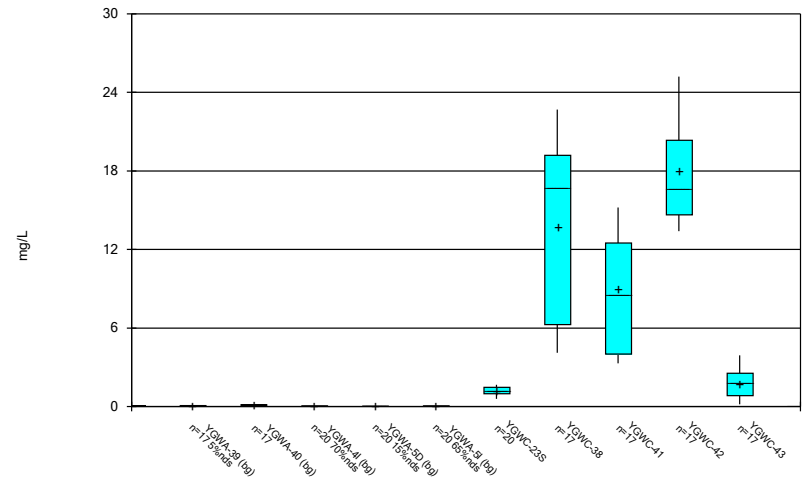
Constituent: Beryllium Analysis Run 4/26/2023 11:09 AM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



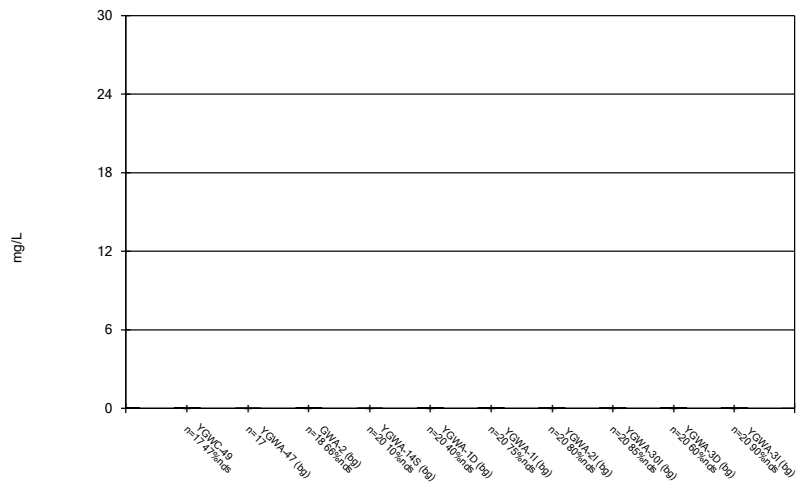
Constituent: Boron Analysis Run 4/26/2023 11:09 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



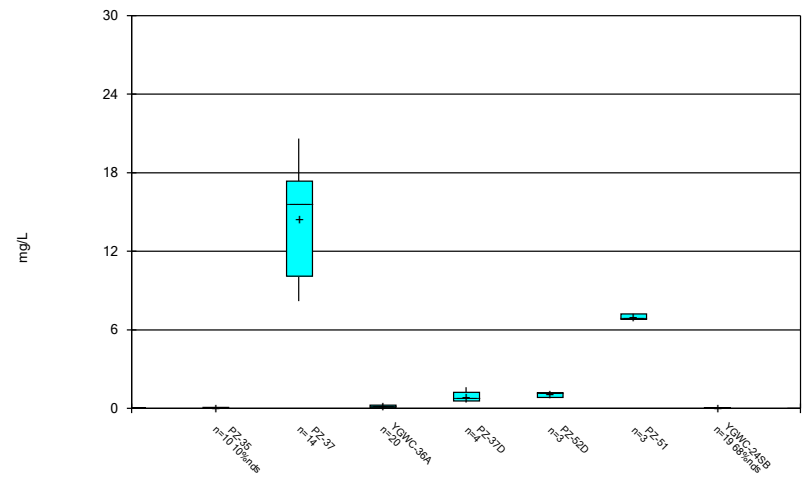
Constituent: Boron Analysis Run 4/26/2023 11:09 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



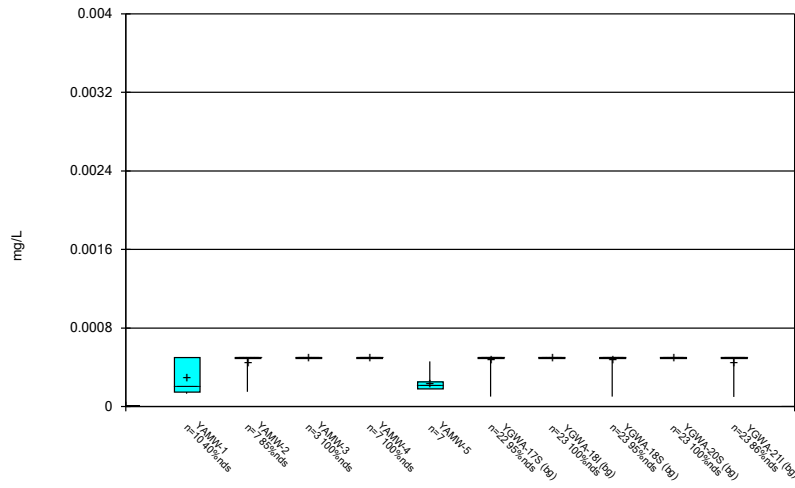
Constituent: Boron Analysis Run 4/26/2023 11:09 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



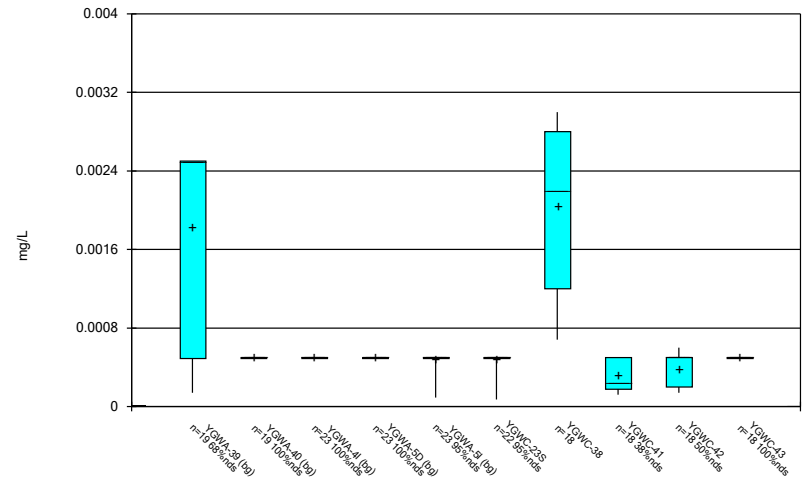
Constituent: Boron Analysis Run 4/26/2023 11:09 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



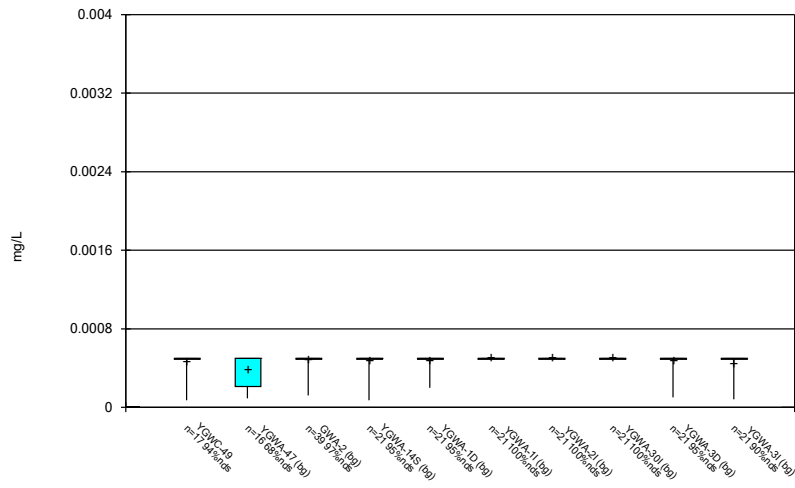
Constituent: Cadmium Analysis Run 4/26/2023 11:09 AM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



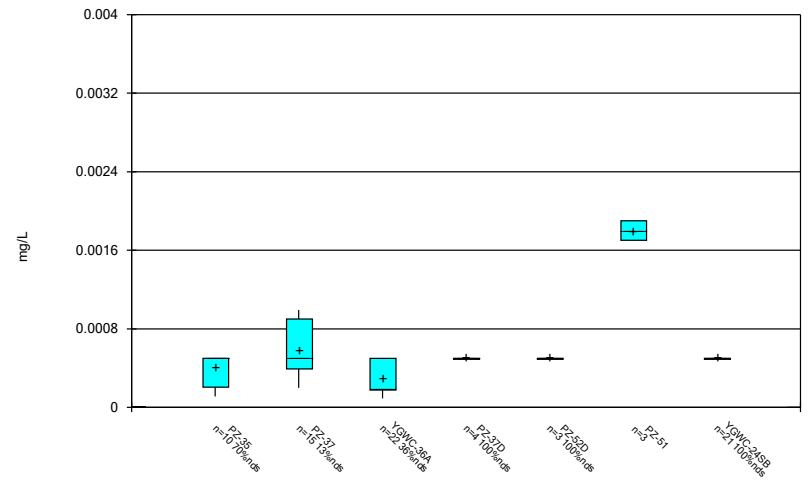
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 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



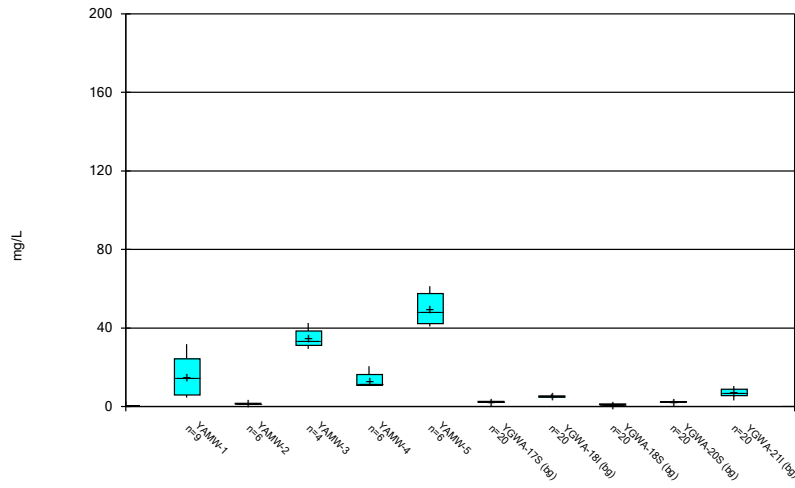
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 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



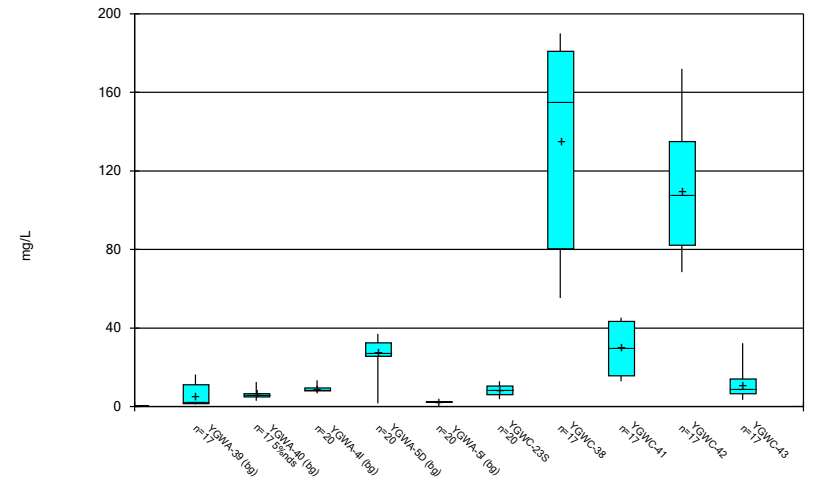
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 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



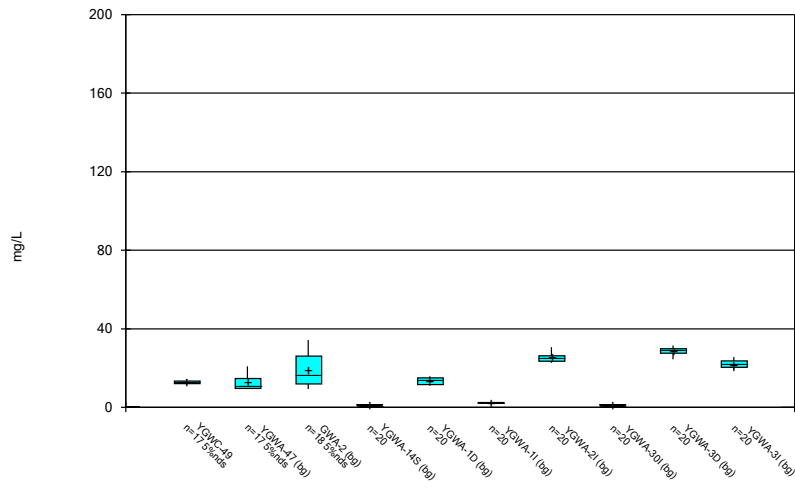
Constituent: Calcium Analysis Run 4/26/2023 11:09 AM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



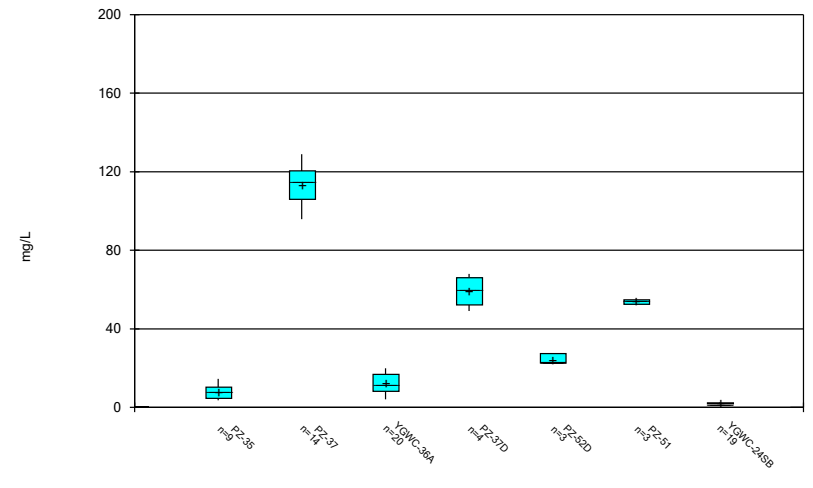
Constituent: Calcium Analysis Run 4/26/2023 11:09 AM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



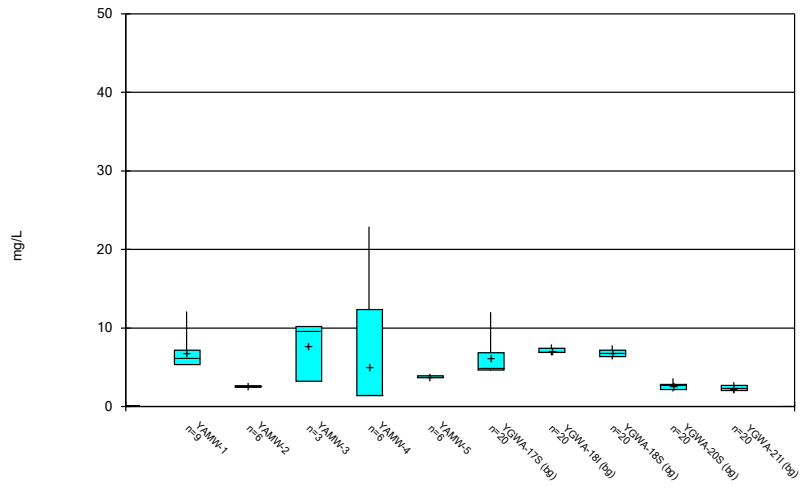
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 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



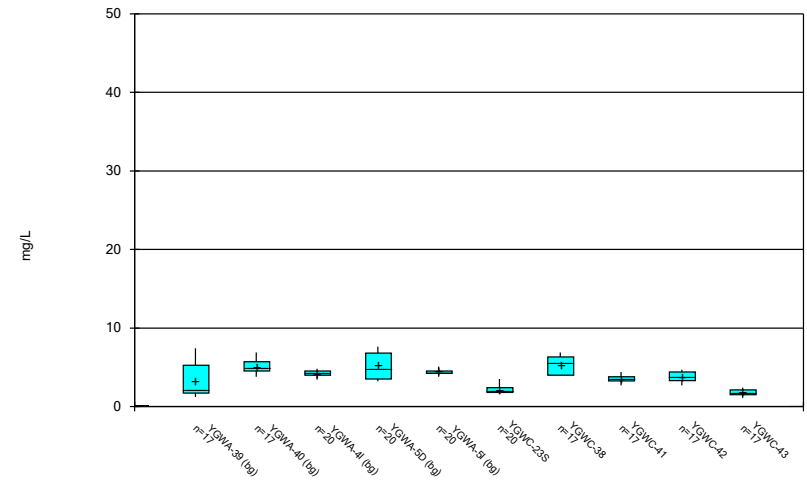
Constituent: Calcium Analysis Run 4/26/2023 11:09 AM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



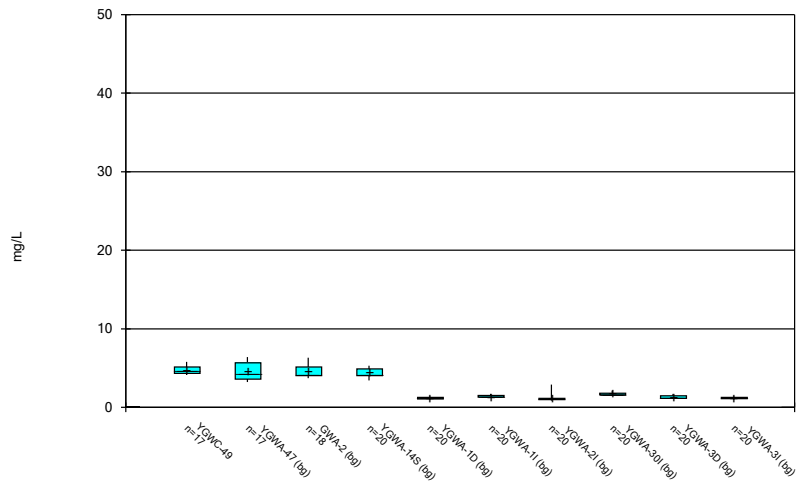
Constituent: Chloride Analysis Run 4/26/2023 11:09 AM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



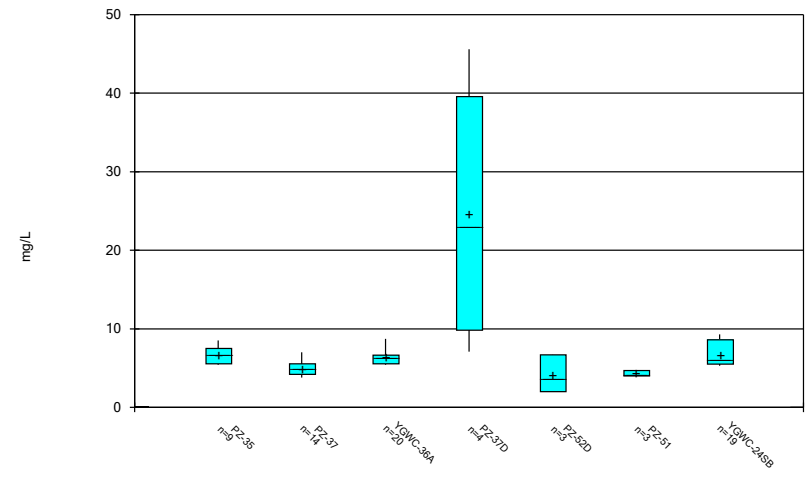
Constituent: Chloride Analysis Run 4/26/2023 11:09 AM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



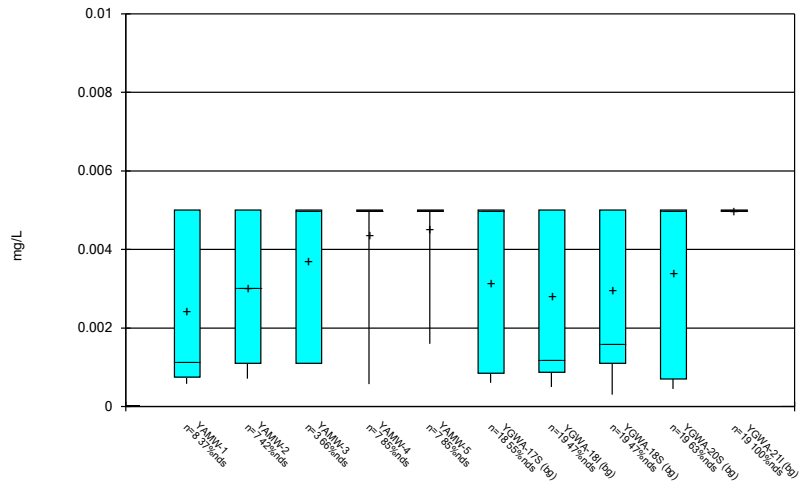
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 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



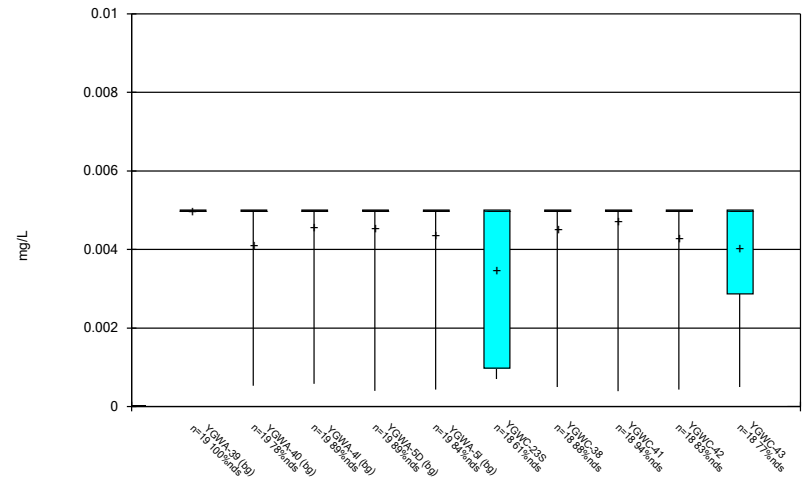
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 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



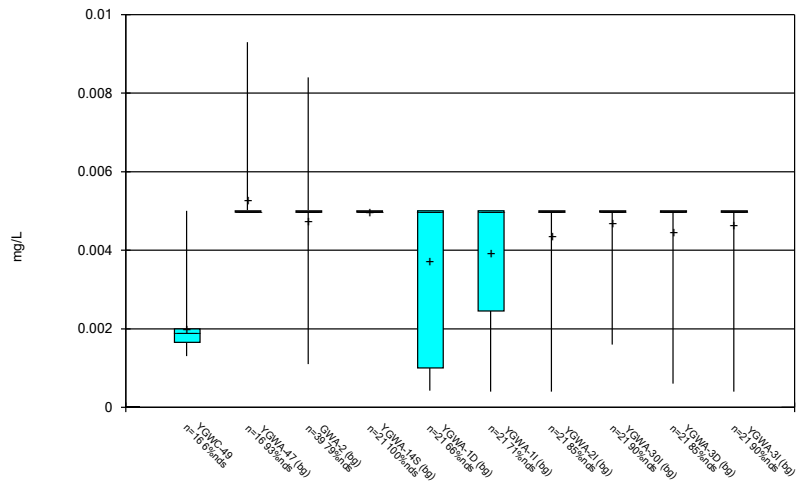
Constituent: Chromium Analysis Run 4/26/2023 11:09 AM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



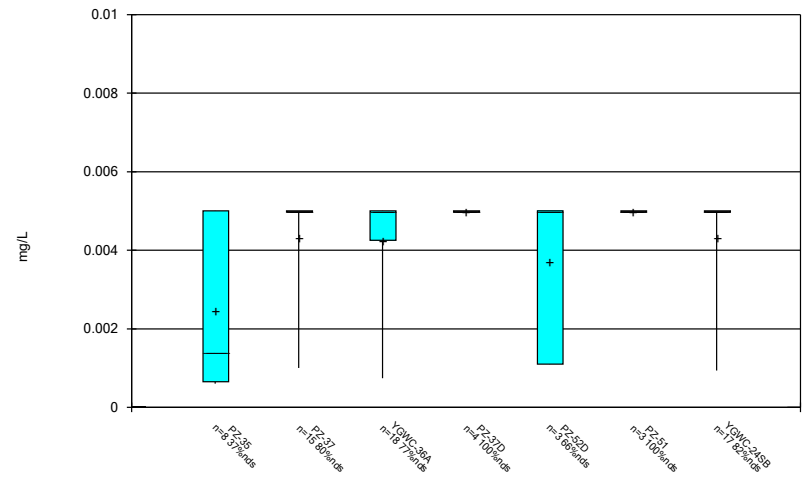
Constituent: Chromium Analysis Run 4/26/2023 11:09 AM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



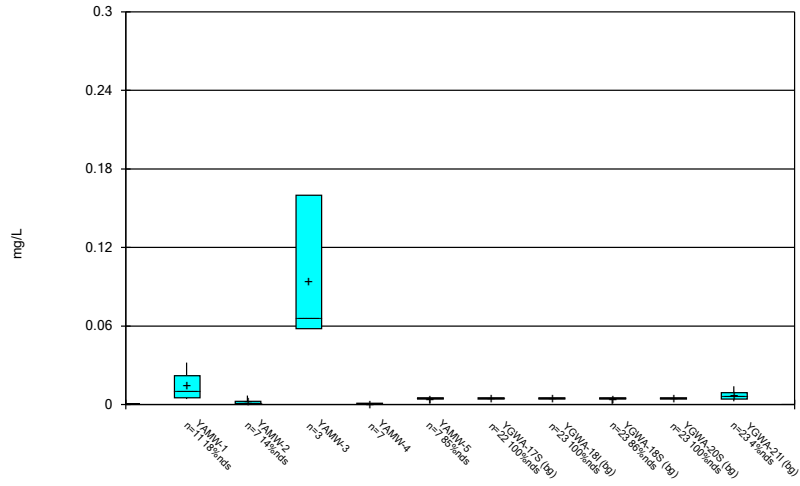
Constituent: Chromium Analysis Run 4/26/2023 11:09 AM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



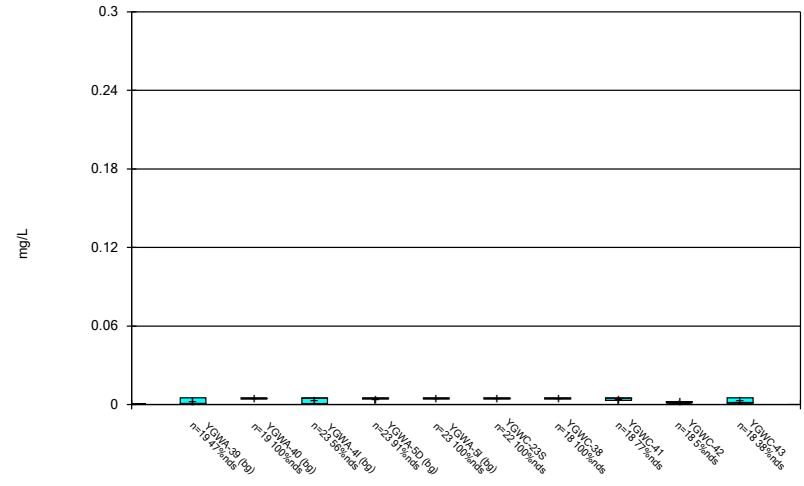
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 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



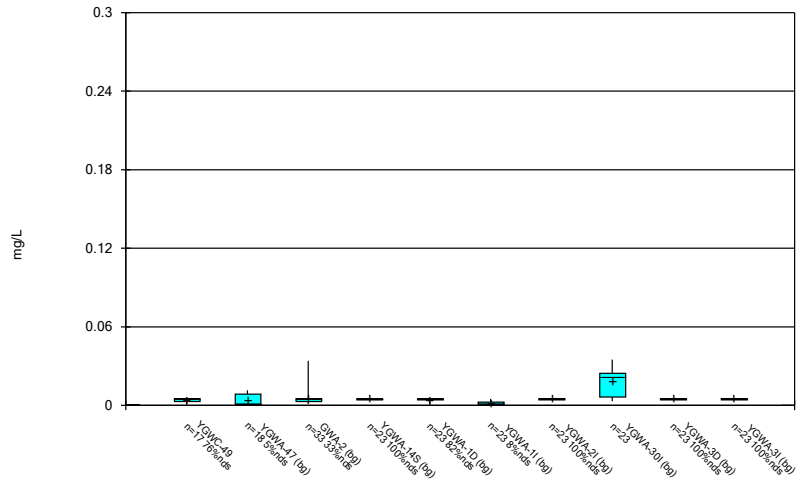
Constituent: Cobalt Analysis Run 4/26/2023 11:09 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



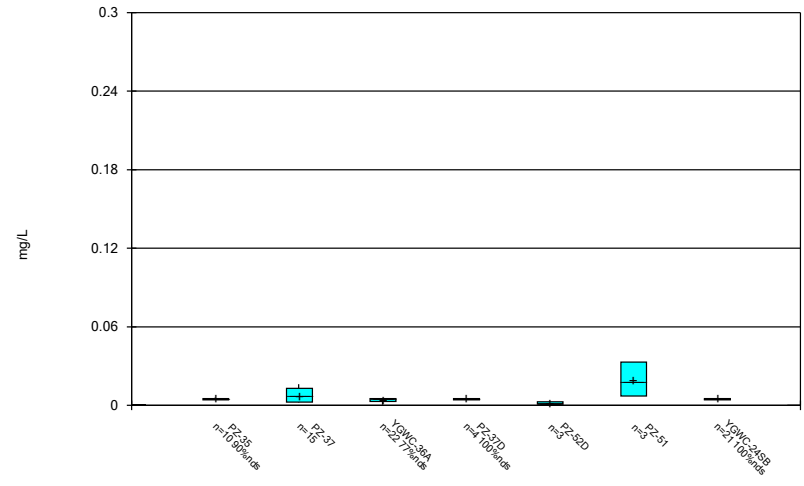
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Box & Whiskers Plot



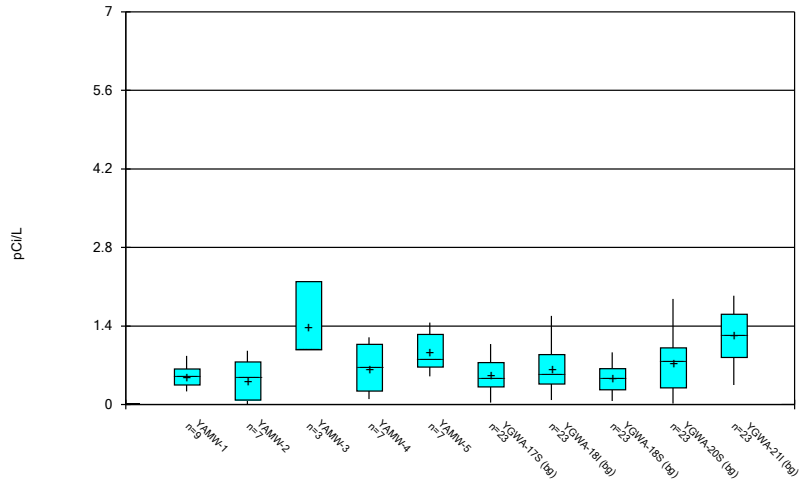
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Box & Whiskers Plot



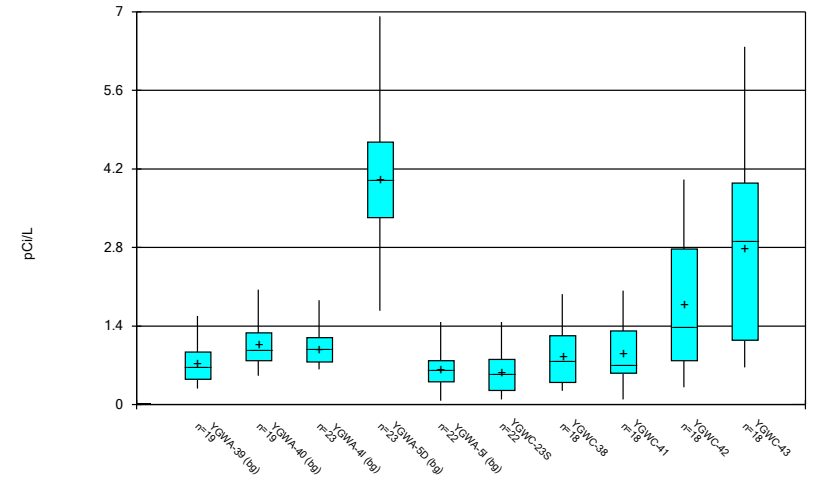
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Box & Whiskers Plot



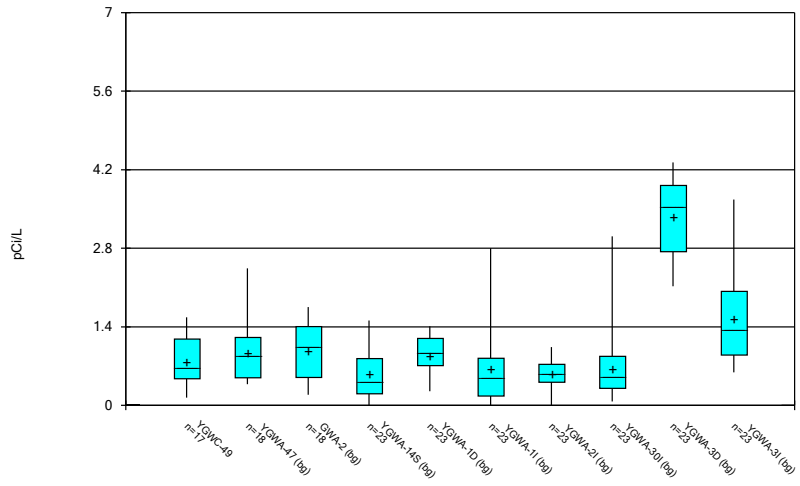
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Box & Whiskers Plot



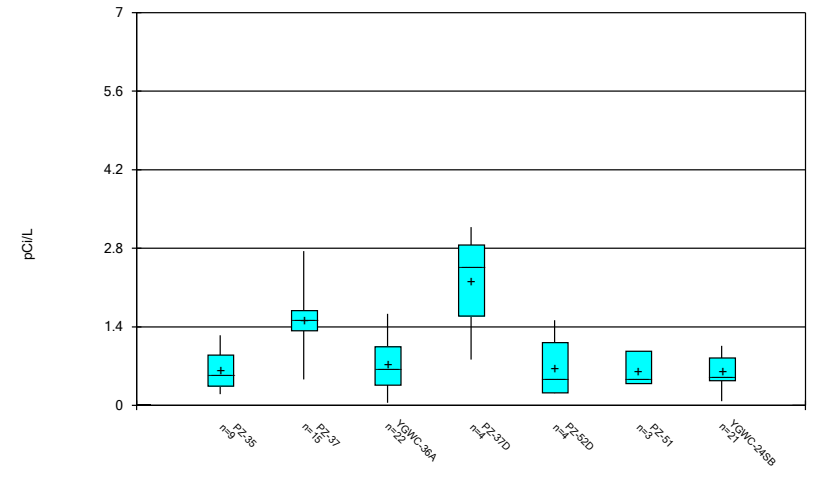
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Box & Whiskers Plot



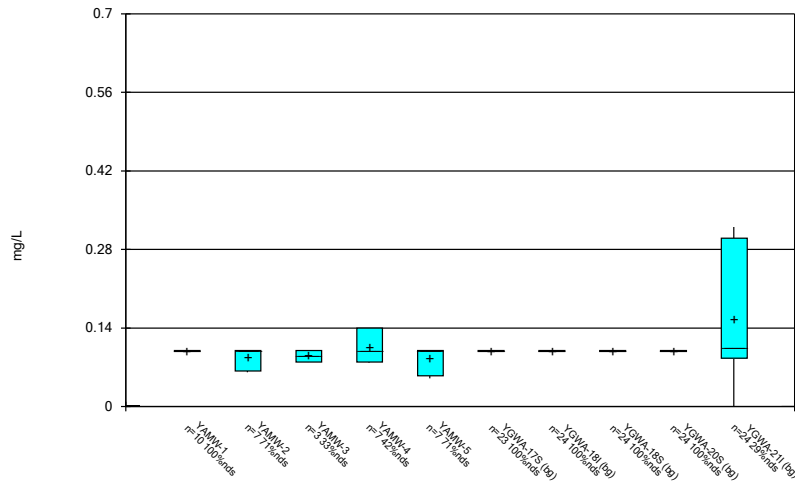
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Box & Whiskers Plot



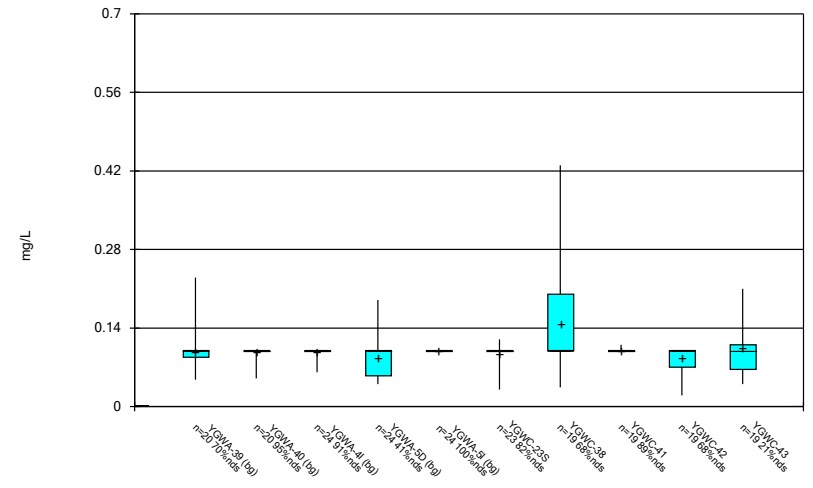
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Box & Whiskers Plot



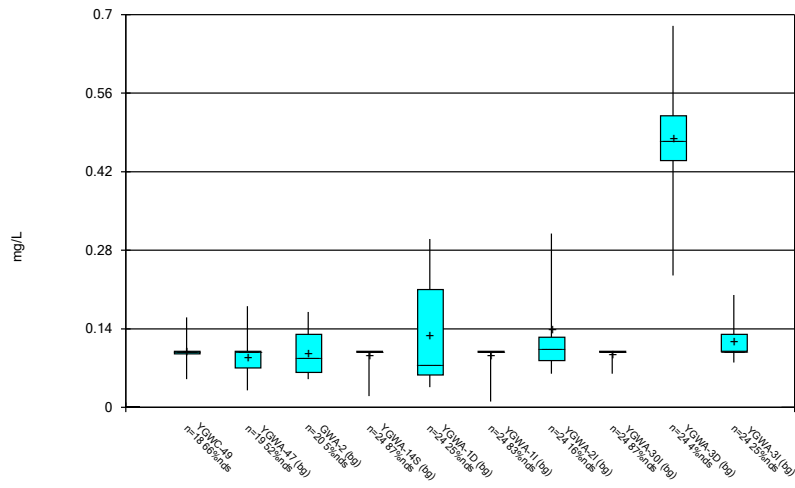
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Box & Whiskers Plot



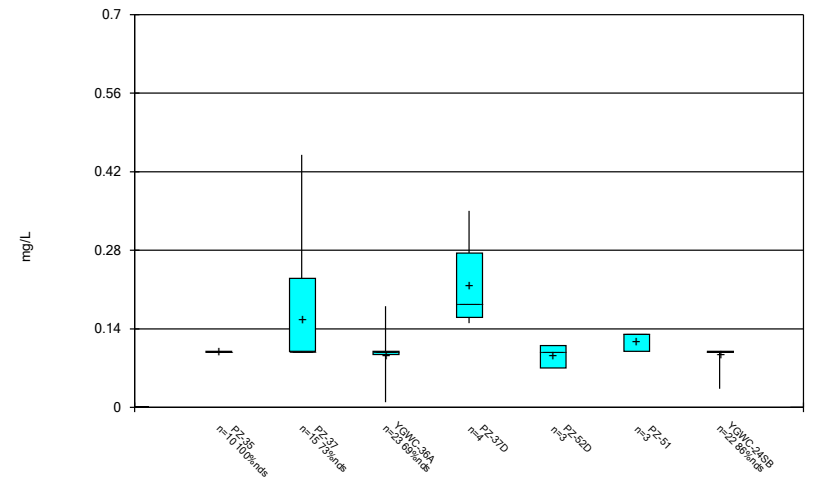
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Box & Whiskers Plot



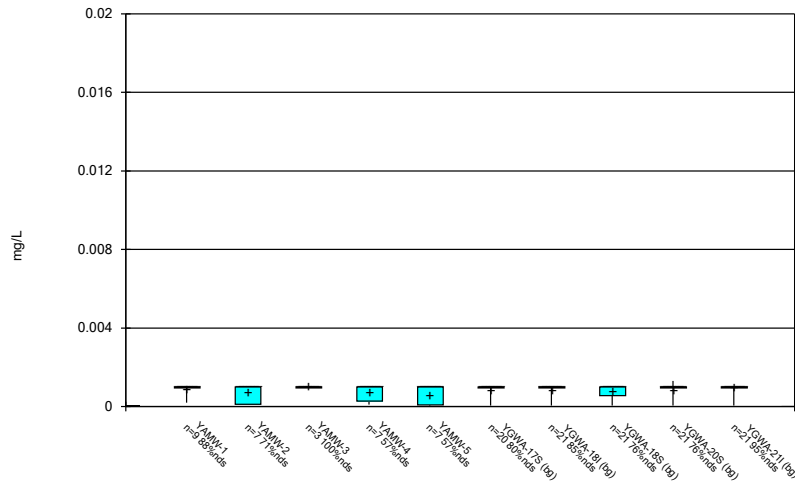
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Box & Whiskers Plot



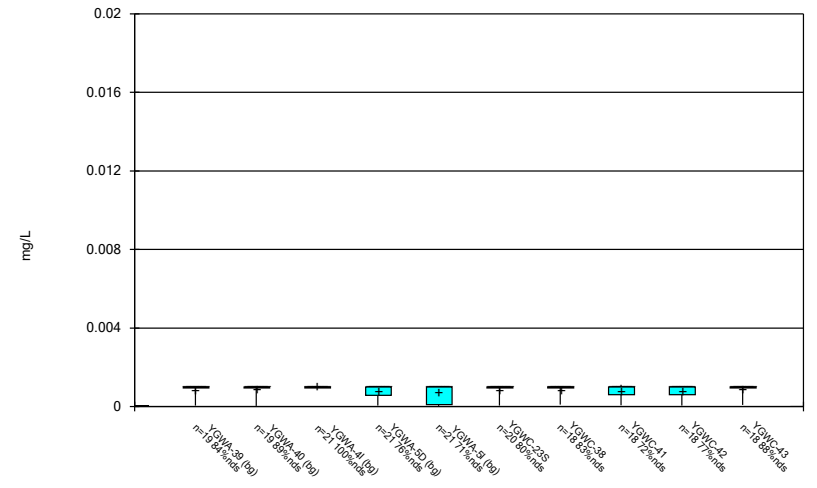
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Box & Whiskers Plot



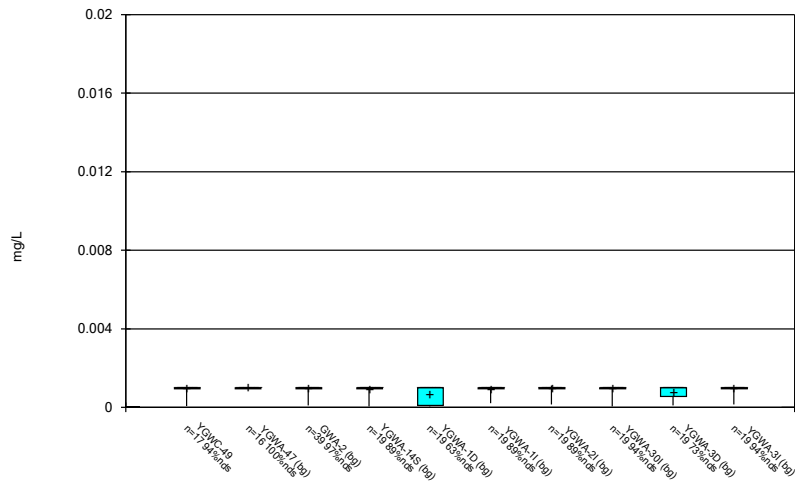
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Box & Whiskers Plot



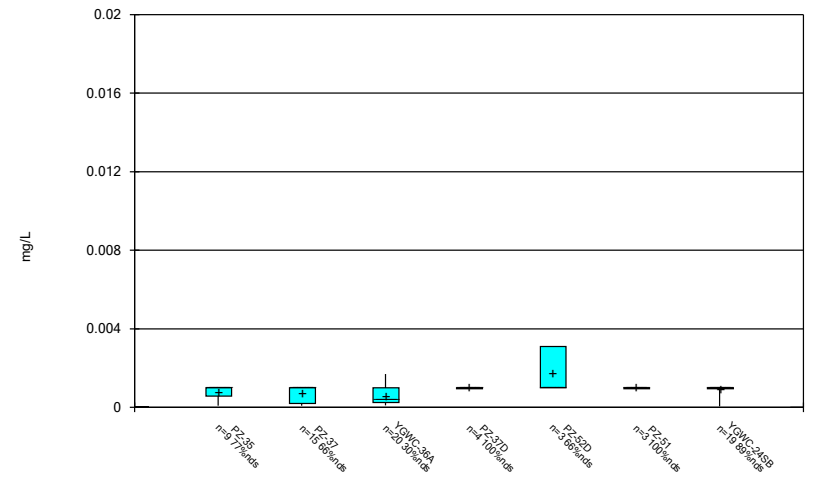
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Box & Whiskers Plot



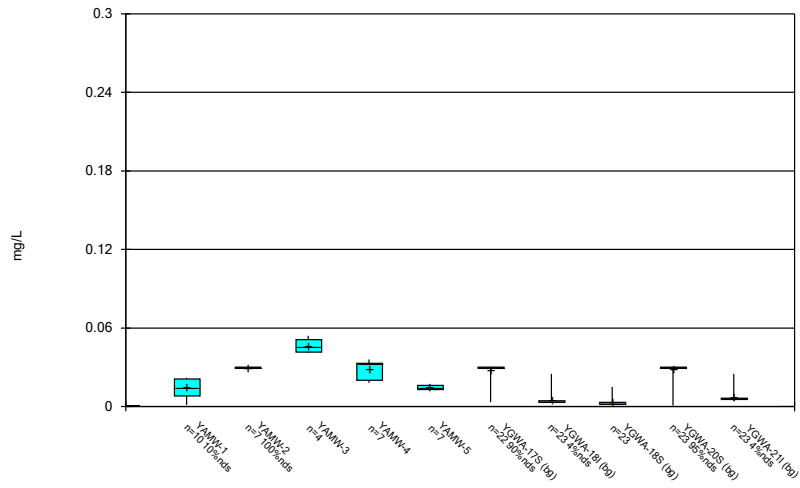
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Box & Whiskers Plot



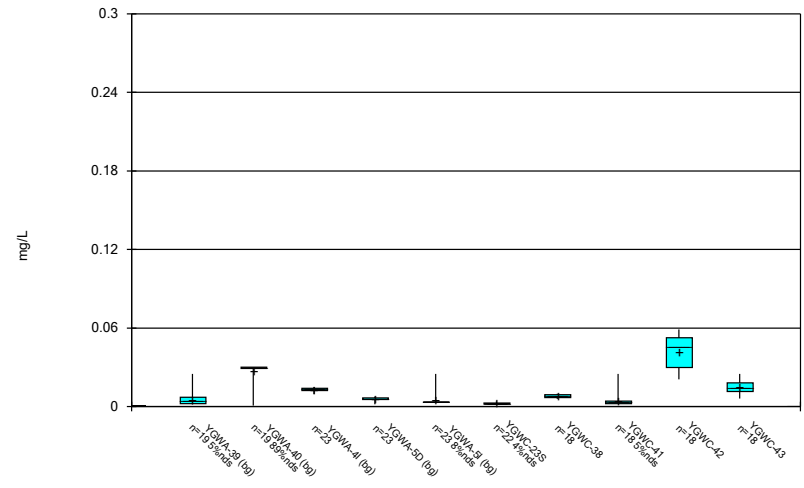
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Box & Whiskers Plot



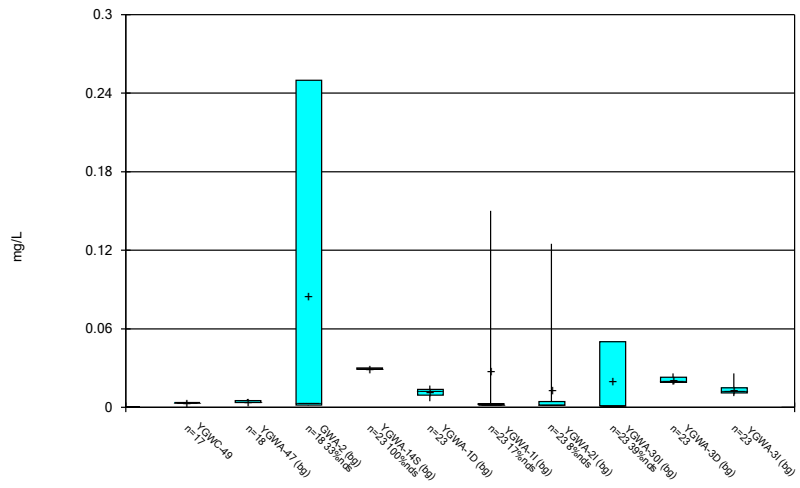
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Box & Whiskers Plot



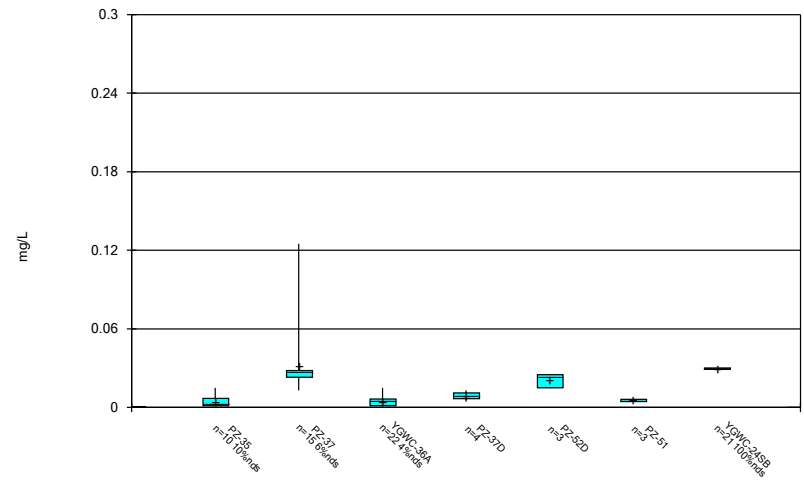
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Box & Whiskers Plot



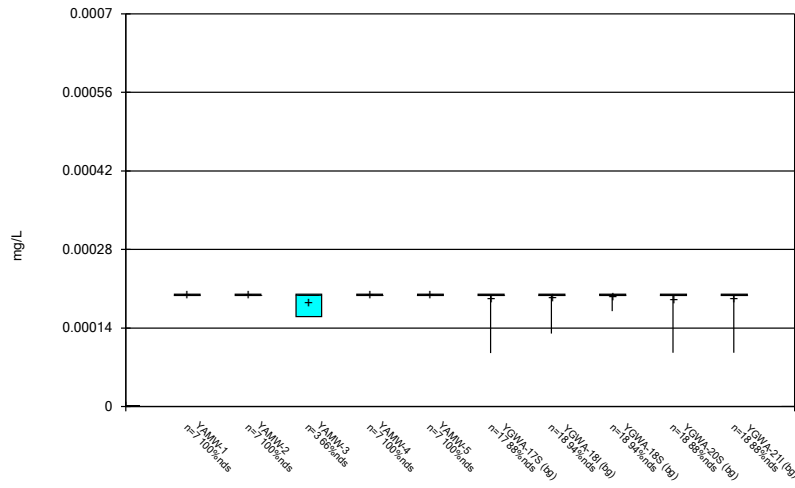
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Box & Whiskers Plot



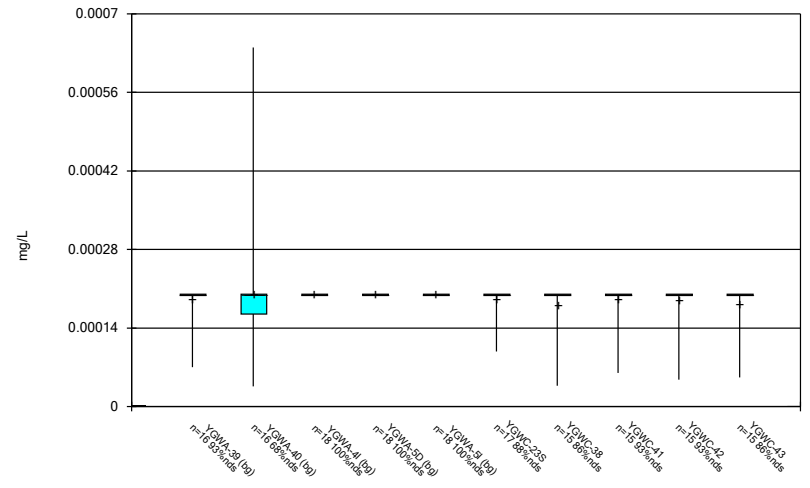
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Box & Whiskers Plot



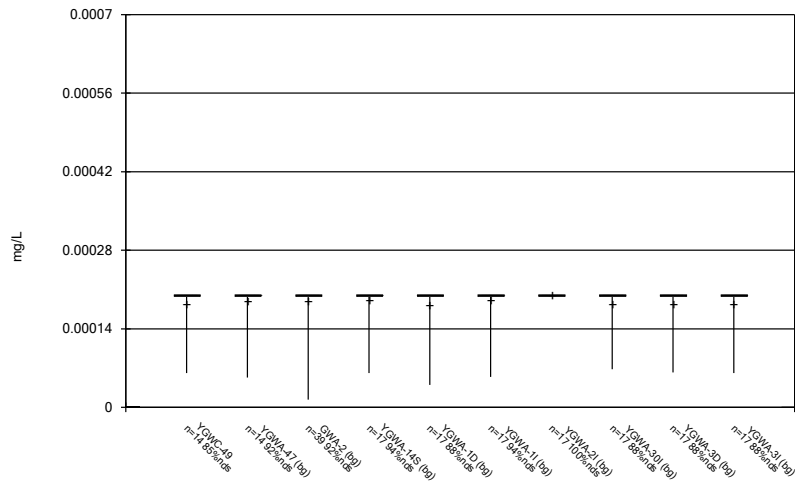
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Box & Whiskers Plot



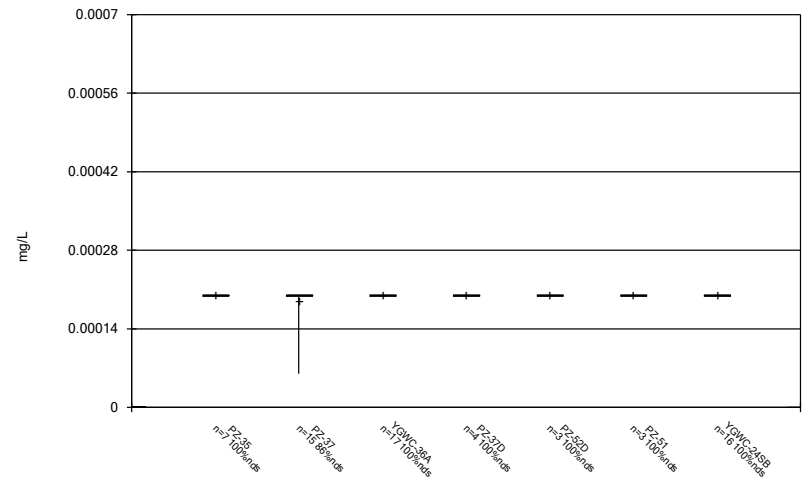
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Box & Whiskers Plot



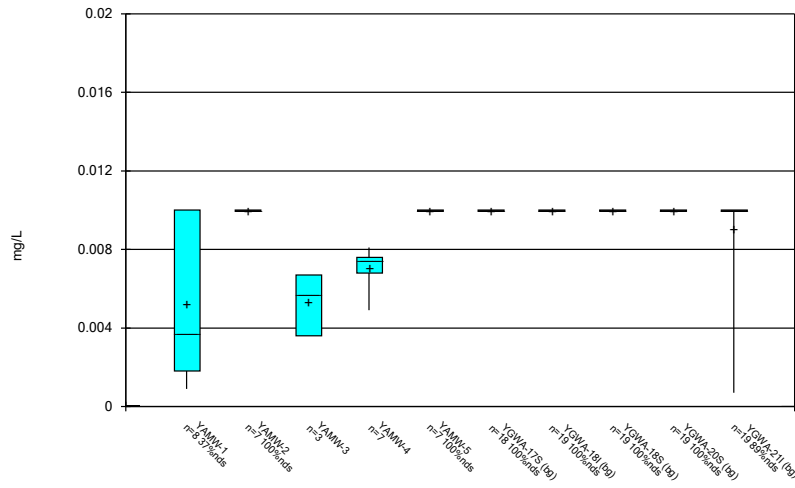
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Box & Whiskers Plot



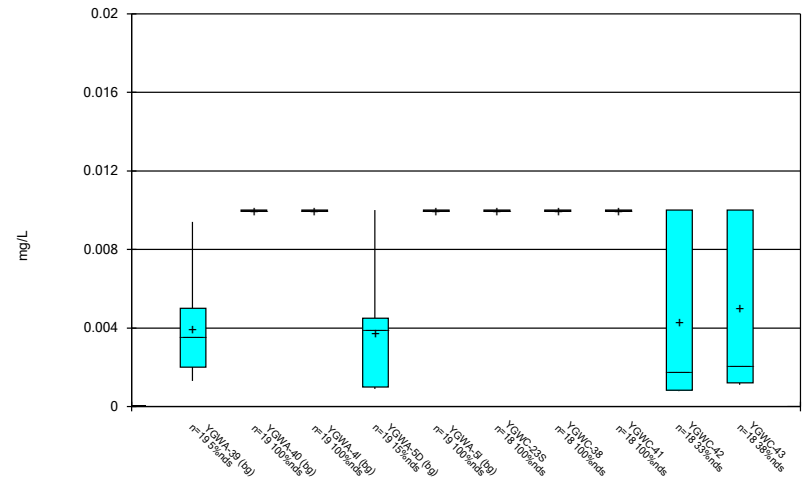
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Box & Whiskers Plot



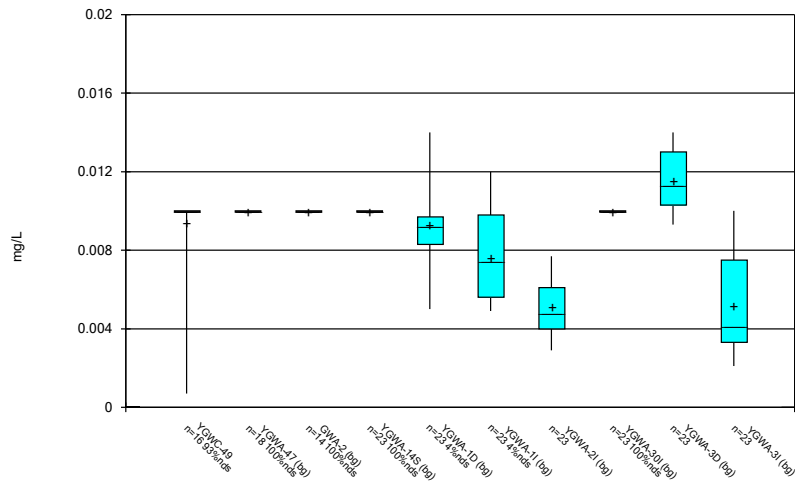
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 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



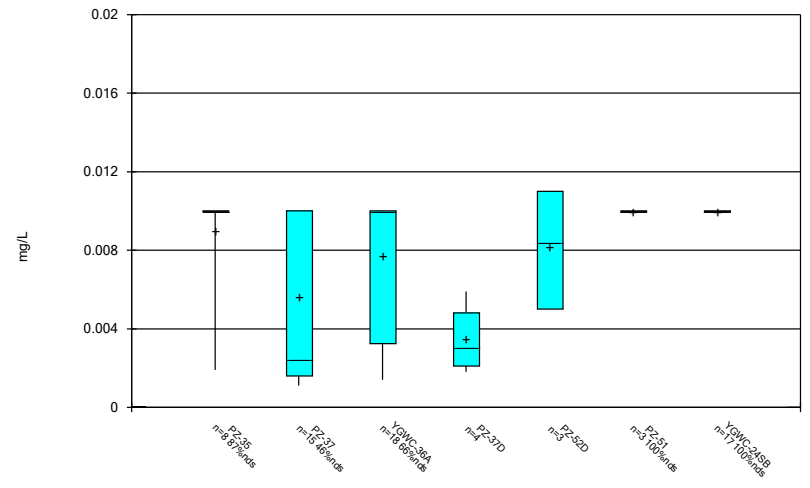
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 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



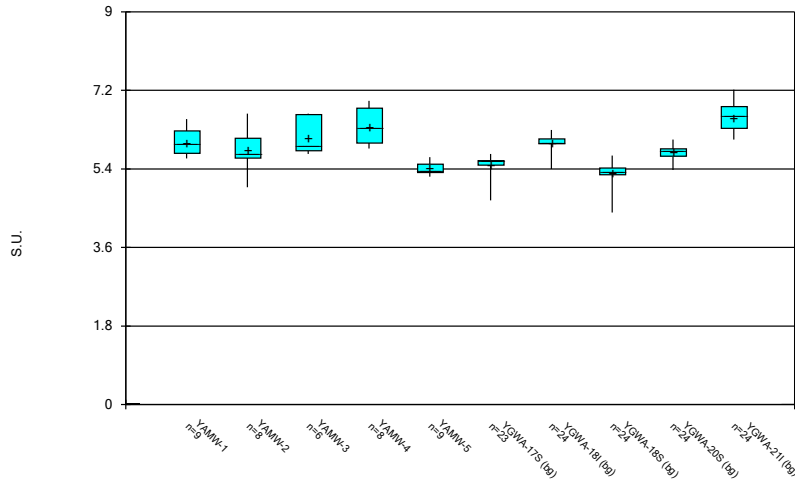
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 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



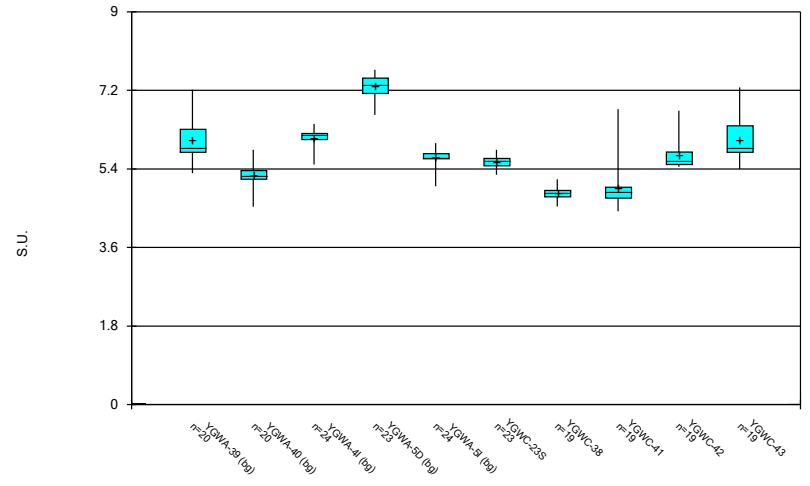
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Box & Whiskers Plot



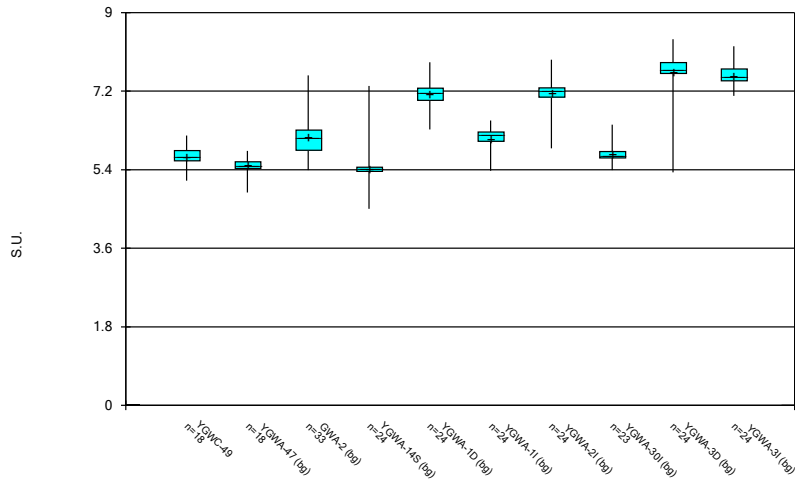
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Box & Whiskers Plot



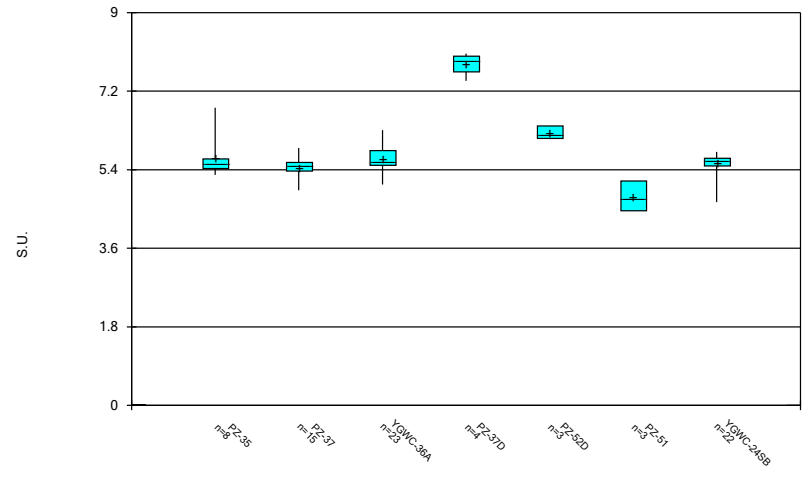
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Box & Whiskers Plot



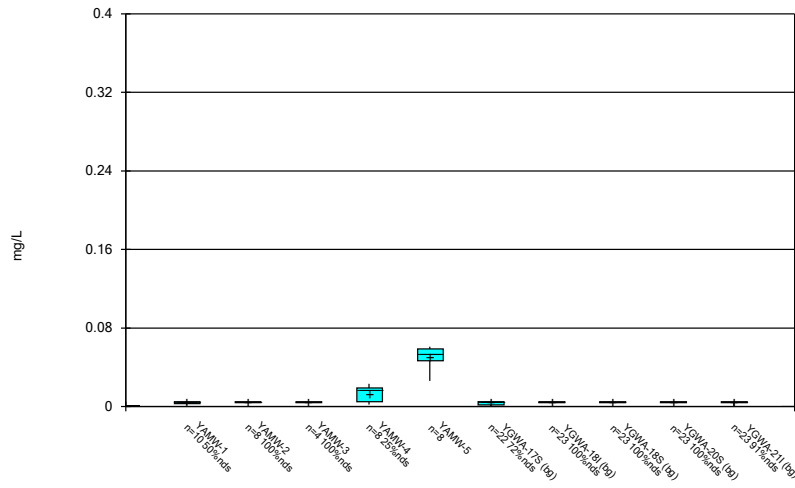
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Box & Whiskers Plot



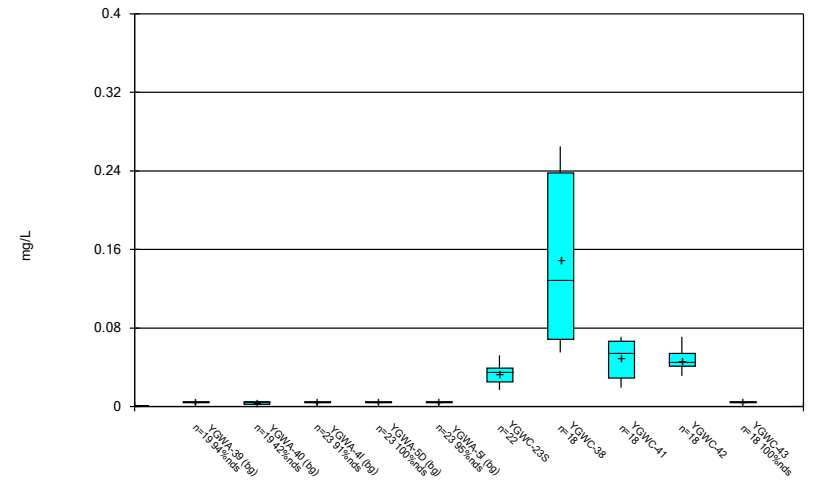
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Box & Whiskers Plot



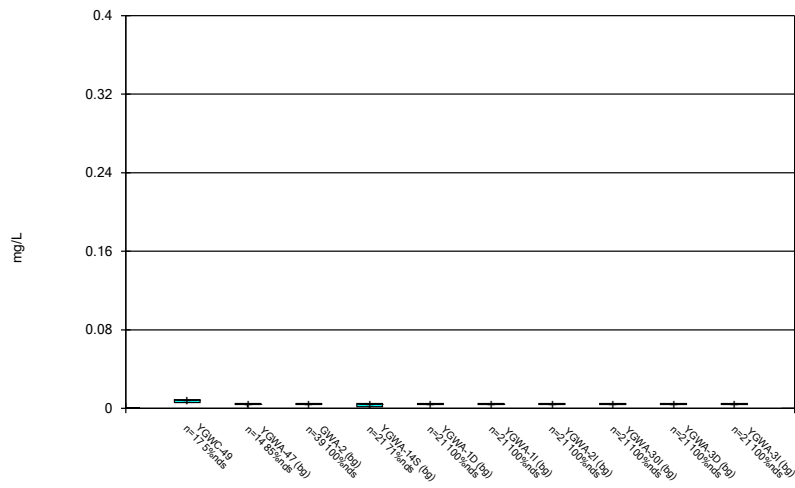
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Box & Whiskers Plot



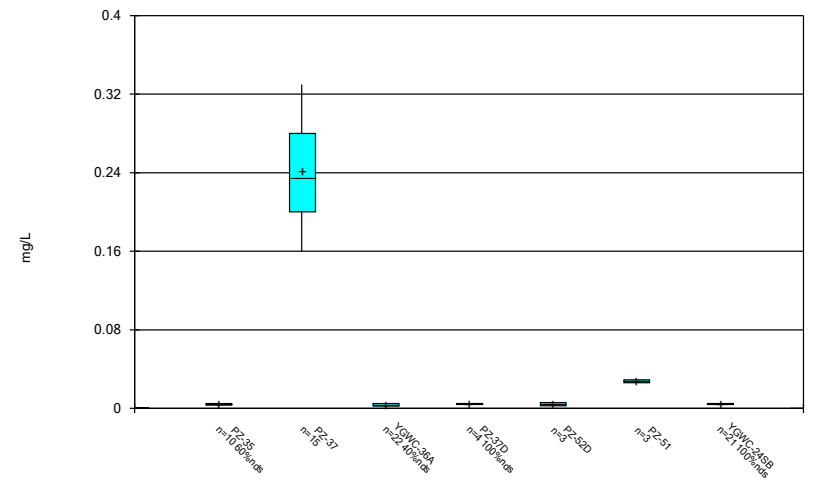
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Box & Whiskers Plot



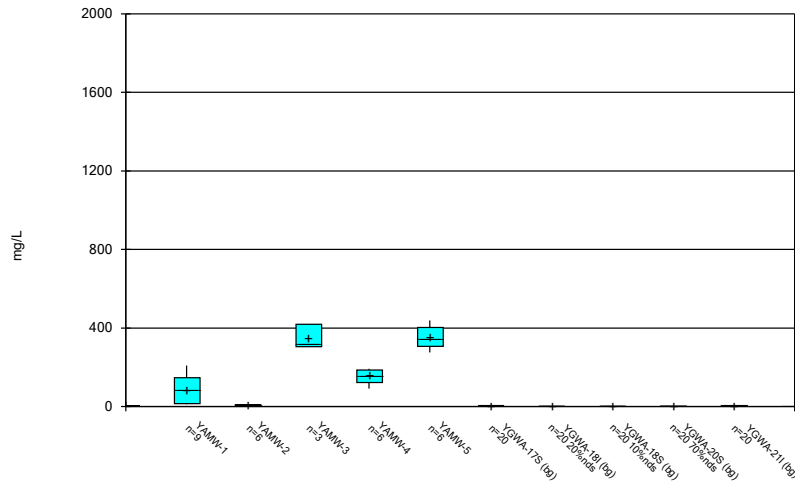
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Box & Whiskers Plot



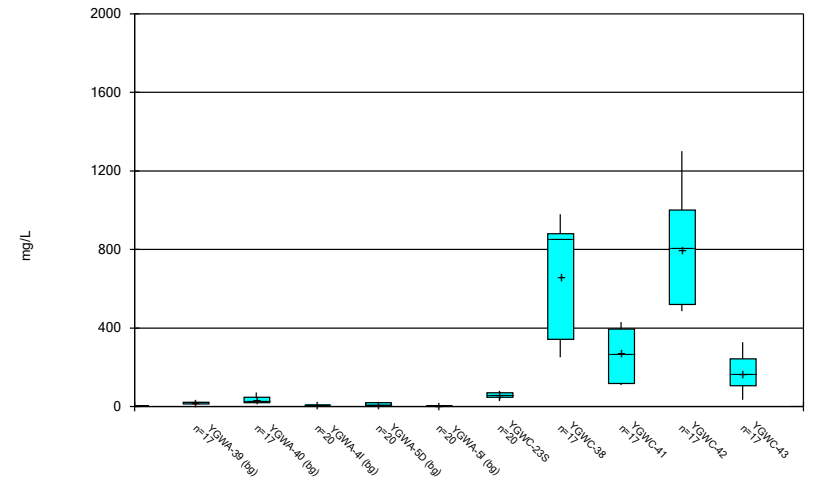
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Box & Whiskers Plot



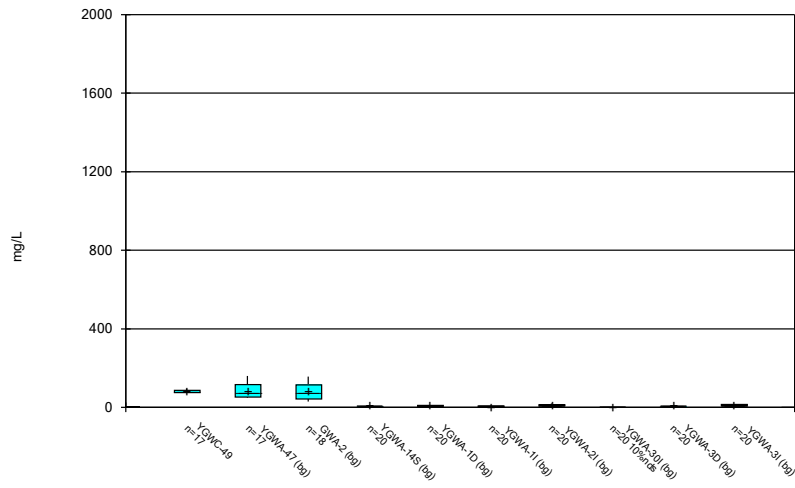
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Box & Whiskers Plot



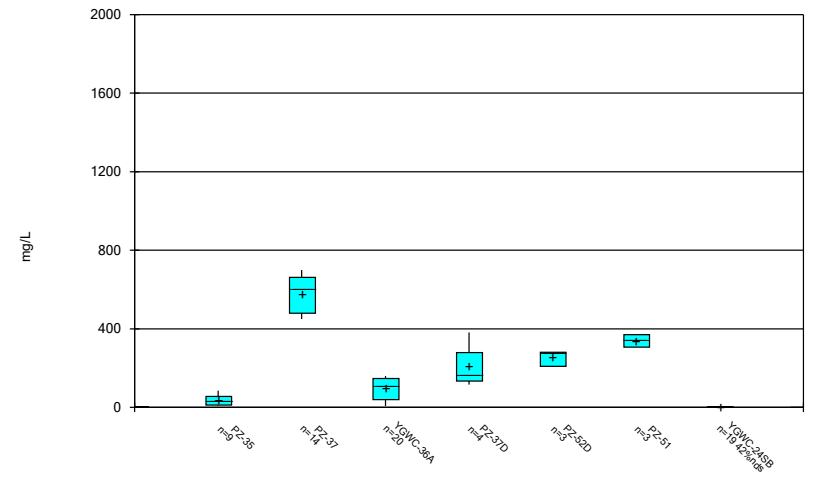
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Box & Whiskers Plot



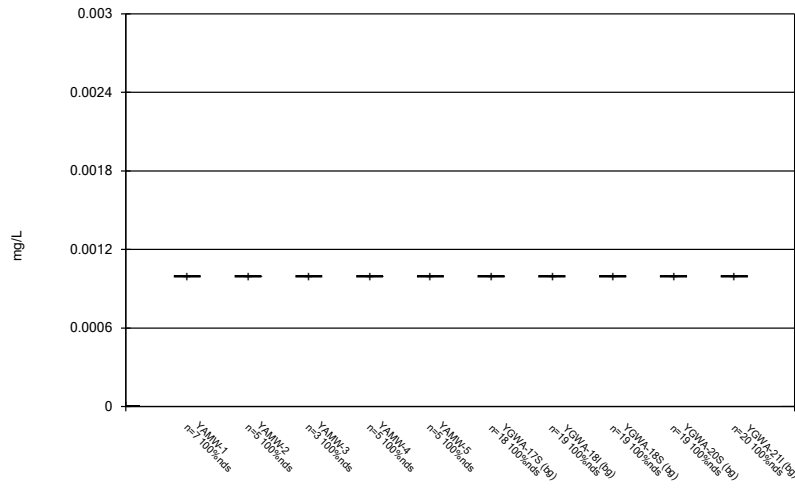
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Box & Whiskers Plot



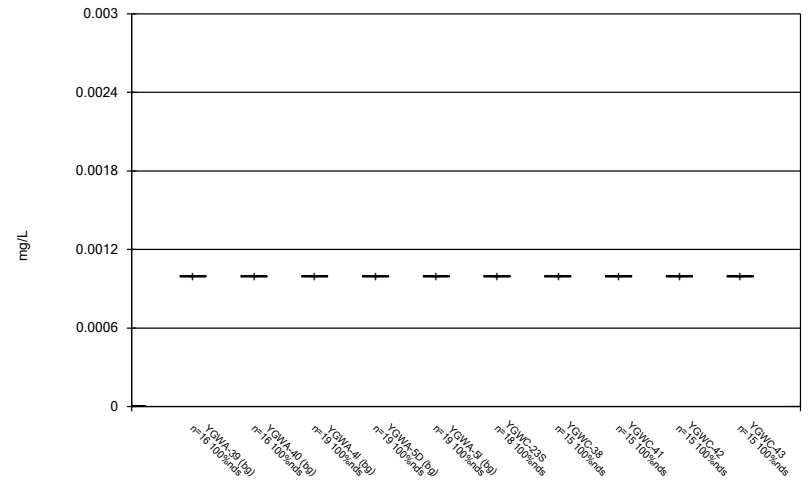
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Box & Whiskers Plot



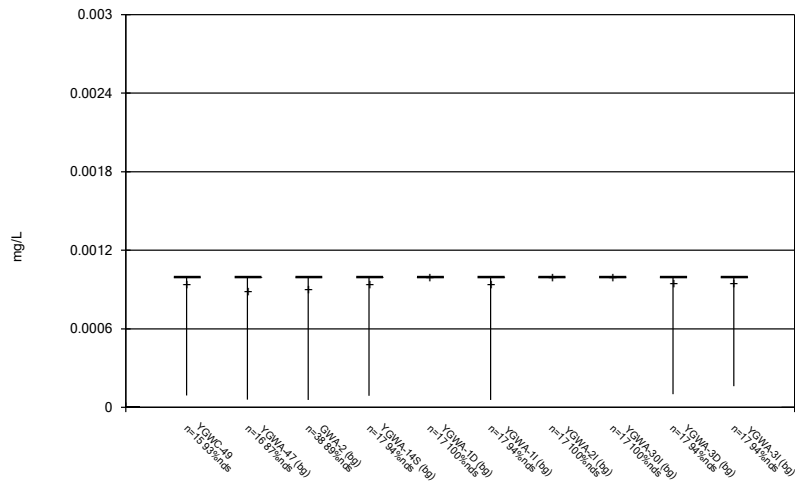
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Box & Whiskers Plot



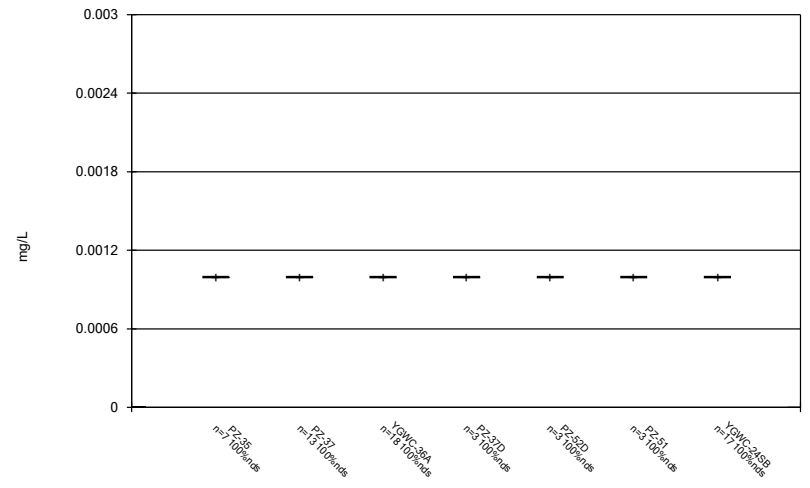
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Box & Whiskers Plot



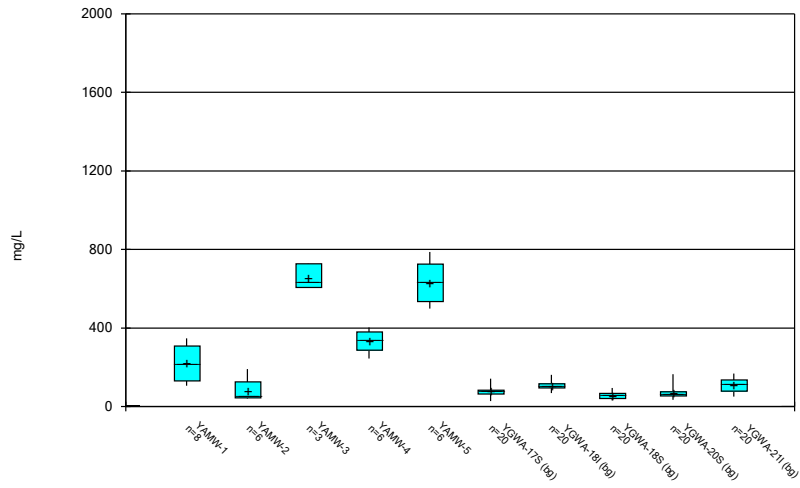
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Box & Whiskers Plot



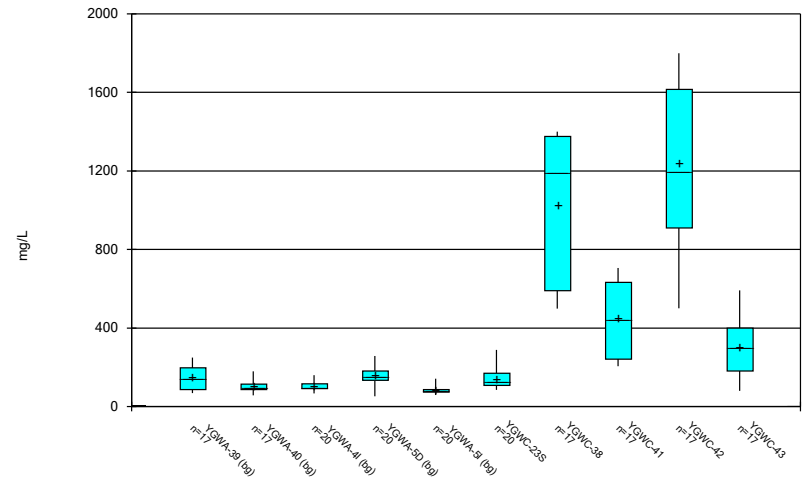
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Box & Whiskers Plot



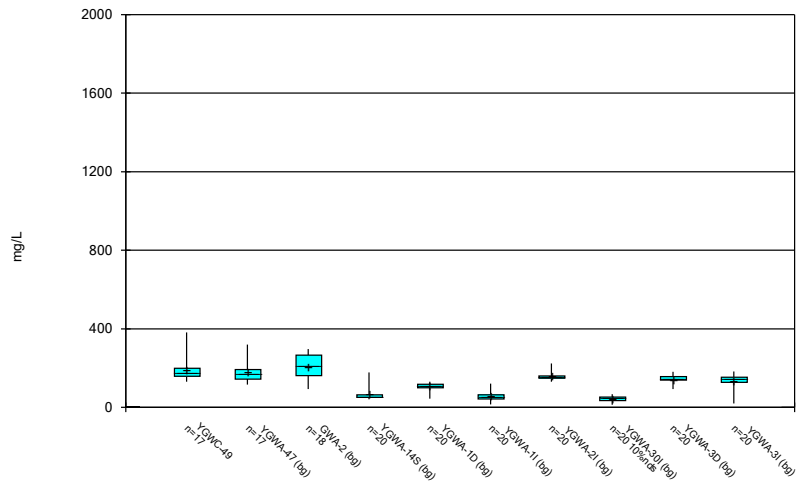
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 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



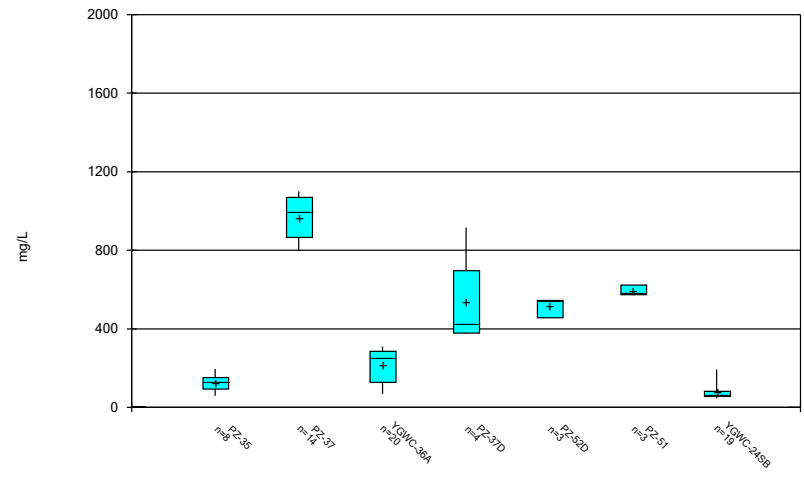
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 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 4/26/2023 11:10 AM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 4/26/2023 11:10 AM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

FIGURE C.

Outlier Summary

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 4/26/2023, 11:11 AM

	GWA-2 Cobalt (mg/L)	YGWA-47 pH (S.U.)
4/2/2018		6.3 (O)
8/26/2020	0.2 (O)	
9/22/2020	0.16 (O)	
3/2/2021	0.21 (O)	
8/20/2021	0.074 (O)	
2/8/2022	0.072 (o)	
8/30/2022	0.075 (o)	

FIGURE D.

Appendix III Interwell Prediction Limits - Significant Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 4/26/2023, 11:21 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	YGWC-23S	0.16	n/a	2/8/2023	1.6	Yes	369	n/a	n/a	49.86	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-38	0.16	n/a	2/8/2023	4.1	Yes	369	n/a	n/a	49.86	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-41	0.16	n/a	2/8/2023	3.3	Yes	369	n/a	n/a	49.86	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-42	0.16	n/a	2/8/2023	14.5	Yes	369	n/a	n/a	49.86	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-43	0.16	n/a	2/8/2023	2.5	Yes	369	n/a	n/a	49.86	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-38	37	n/a	2/8/2023	55.3	Yes	369	n/a	n/a	0.813	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-42	37	n/a	2/8/2023	74.6	Yes	369	n/a	n/a	0.813	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-38	160	n/a	2/8/2023	251	Yes	369	n/a	n/a	5.962	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-42	160	n/a	2/8/2023	494	Yes	369	n/a	n/a	5.962	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-43	160	n/a	2/8/2023	164	Yes	369	n/a	n/a	5.962	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	YGWC-38	225	n/a	2/8/2023	579	Yes	369	10.11	2.582	0.542	None	sqrt(x)	0.0009403	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-41	225	n/a	2/8/2023	257	Yes	369	10.11	2.582	0.542	None	sqrt(x)	0.0009403	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-42	225	n/a	2/8/2023	853	Yes	369	10.11	2.582	0.542	None	sqrt(x)	0.0009403	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-43	225	n/a	2/8/2023	333	Yes	369	10.11	2.582	0.542	None	sqrt(x)	0.0009403	Param Inter 1 of 2

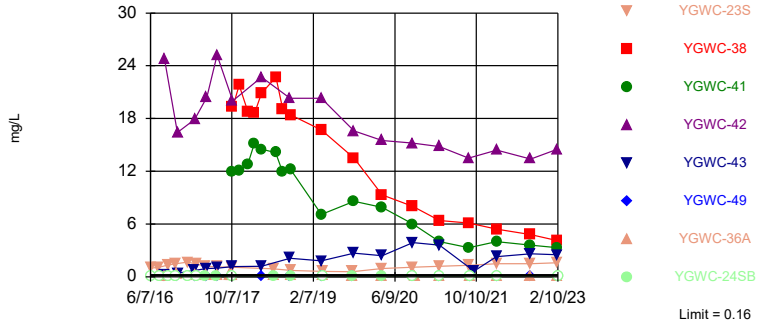
Appendix III Interwell Prediction Limits - All Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 4/26/2023, 11:21 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Obsrv.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	YGWC-23S	0.16	n/a	2/8/2023	1.6	Yes	369	n/a	n/a	49.86	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-38	0.16	n/a	2/8/2023	4.1	Yes	369	n/a	n/a	49.86	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-41	0.16	n/a	2/8/2023	3.3	Yes	369	n/a	n/a	49.86	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-42	0.16	n/a	2/8/2023	14.5	Yes	369	n/a	n/a	49.86	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-43	0.16	n/a	2/8/2023	2.5	Yes	369	n/a	n/a	49.86	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-49	0.16	n/a	2/9/2023	0.014J	No	369	n/a	n/a	49.86	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-36A	0.16	n/a	2/9/2023	0.028J	No	369	n/a	n/a	49.86	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-24SB	0.16	n/a	2/10/2023	0.04ND	No	369	n/a	n/a	49.86	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-23S	37	n/a	2/8/2023	10.9	No	369	n/a	n/a	0.813	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-38	37	n/a	2/8/2023	55.3	Yes	369	n/a	n/a	0.813	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-41	37	n/a	2/8/2023	14.4	No	369	n/a	n/a	0.813	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-42	37	n/a	2/8/2023	74.6	Yes	369	n/a	n/a	0.813	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-43	37	n/a	2/8/2023	11	No	369	n/a	n/a	0.813	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-49	37	n/a	2/9/2023	11.8	No	369	n/a	n/a	0.813	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-36A	37	n/a	2/9/2023	9.2	No	369	n/a	n/a	0.813	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-24SB	37	n/a	2/10/2023	2.4	No	369	n/a	n/a	0.813	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-23S	12	n/a	2/8/2023	2	No	369	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-38	12	n/a	2/8/2023	3.9	No	369	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-41	12	n/a	2/8/2023	4	No	369	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-42	12	n/a	2/8/2023	3.4	No	369	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-43	12	n/a	2/8/2023	2.4	No	369	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-49	12	n/a	2/9/2023	4.4	No	369	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-36A	12	n/a	2/9/2023	5.9	No	369	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-24SB	12	n/a	2/10/2023	9.1	No	369	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Fluoride (mg/L)	YGWC-23S	0.68	n/a	2/8/2023	0.1ND	No	438	n/a	n/a	64.16	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-38	0.68	n/a	2/8/2023	0.1ND	No	438	n/a	n/a	64.16	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-41	0.68	n/a	2/8/2023	0.1ND	No	438	n/a	n/a	64.16	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-42	0.68	n/a	2/8/2023	0.08J	No	438	n/a	n/a	64.16	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-43	0.68	n/a	2/8/2023	0.11	No	438	n/a	n/a	64.16	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-49	0.68	n/a	2/9/2023	0.1ND	No	438	n/a	n/a	64.16	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-36A	0.68	n/a	2/9/2023	0.1ND	No	438	n/a	n/a	64.16	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-24SB	0.68	n/a	2/10/2023	0.051J	No	438	n/a	n/a	64.16	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
pH (S.U.)	YGWC-23S	8.39	4.4	2/8/2023	5.33	No	448	n/a	n/a	0	n/a	n/a	0.00009834	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-38	8.39	4.4	2/8/2023	5.16	No	448	n/a	n/a	0	n/a	n/a	0.00009834	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-41	8.39	4.4	2/8/2023	4.69	No	448	n/a	n/a	0	n/a	n/a	0.00009834	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-42	8.39	4.4	2/8/2023	5.48	No	448	n/a	n/a	0	n/a	n/a	0.00009834	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-43	8.39	4.4	2/8/2023	5.4	No	448	n/a	n/a	0	n/a	n/a	0.00009834	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-49	8.39	4.4	2/9/2023	5.61	No	448	n/a	n/a	0	n/a	n/a	0.00009834	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-36A	8.39	4.4	2/9/2023	5.67	No	448	n/a	n/a	0	n/a	n/a	0.00009834	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-24SB	8.39	4.4	2/10/2023	5.67	No	448	n/a	n/a	0	n/a	n/a	0.00009834	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-23S	160	n/a	2/8/2023	78	No	369	n/a	n/a	5.962	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-38	160	n/a	2/8/2023	251	Yes	369	n/a	n/a	5.962	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-41	160	n/a	2/8/2023	119	No	369	n/a	n/a	5.962	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-42	160	n/a	2/8/2023	494	Yes	369	n/a	n/a	5.962	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-43	160	n/a	2/8/2023	164	Yes	369	n/a	n/a	5.962	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-49	160	n/a	2/9/2023	71.1	No	369	n/a	n/a	5.962	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-36A	160	n/a	2/9/2023	50.8	No	369	n/a	n/a	5.962	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-24SB	160	n/a	2/10/2023	0.5J	No	369	n/a	n/a	5.962	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	YGWC-23S	225	n/a	2/8/2023	158	No	369	10.11	2.582	0.542	None	sqrt(x)	0.0009403	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-38	225	n/a	2/8/2023	579	Yes	369	10.11	2.582	0.542	None	sqrt(x)	0.0009403	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-41	225	n/a	2/8/2023	257	Yes	369	10.11	2.582	0.542	None	sqrt(x)	0.0009403	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-42	225	n/a	2/8/2023	853	Yes	369	10.11	2.582	0.542	None	sqrt(x)	0.0009403	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-43	225	n/a	2/8/2023	333	Yes	369	10.11	2.582	0.542	None	sqrt(x)	0.0009403	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-49	225	n/a	2/9/2023	145	No	369	10.11	2.582	0.542	None	sqrt(x)	0.0009403	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-36A	225	n/a	2/9/2023	116	No	369	10.11	2.582	0.542	None	sqrt(x)	0.0009403	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-24SB	225	n/a	2/10/2023	66	No	369	10.11	2.582	0.542	None	sqrt(x)	0.0009403	Param Inter 1 of 2

Exceeds Limit: YGWC-23S, YGWC-38,
YGWC-41, YGWC-42, YGWC-43

Prediction Limit Interwell Non-parametric

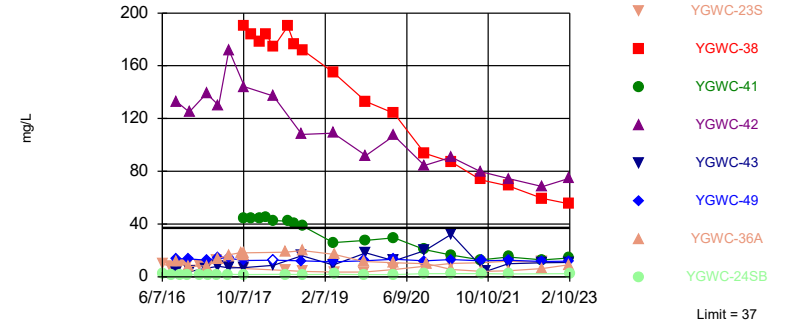


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 369 background values. 49.86% NDs. Annual per-constituent alpha = 0.0007864. Individual comparison alpha = 0.00004917 (1 of 2). Comparing 8 points to limit.

Constituent: Boron Analysis Run 4/26/2023 11:20 AM View: Appendix III
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Exceeds Limit: YGWC-38, YGWC-42

Prediction Limit Interwell Non-parametric

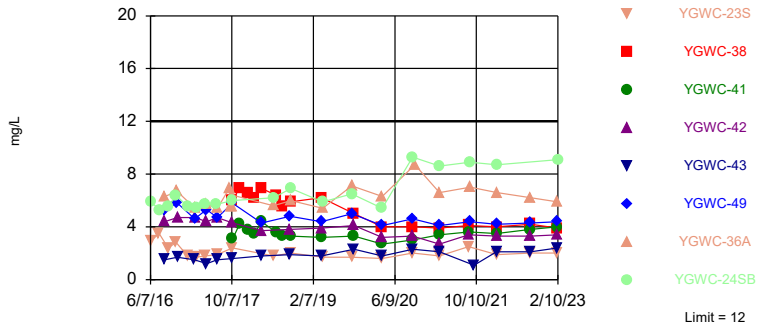


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 369 background values. 0.813% NDs. Annual per-constituent alpha = 0.0007864. Individual comparison alpha = 0.00004917 (1 of 2). Comparing 8 points to limit.

Constituent: Calcium Analysis Run 4/26/2023 11:20 AM View: Appendix III
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Within Limit

Prediction Limit Interwell Non-parametric

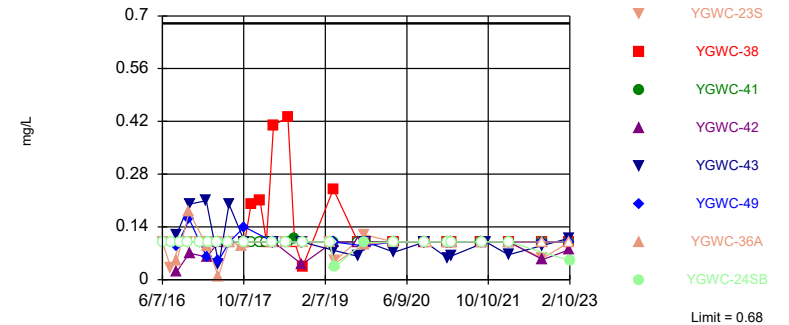


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 369 background values. Annual per-constituent alpha = 0.0007864. Individual comparison alpha = 0.00004917 (1 of 2). Comparing 8 points to limit.

Constituent: Chloride Analysis Run 4/26/2023 11:20 AM View: Appendix III
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Within Limit

Prediction Limit Interwell Non-parametric

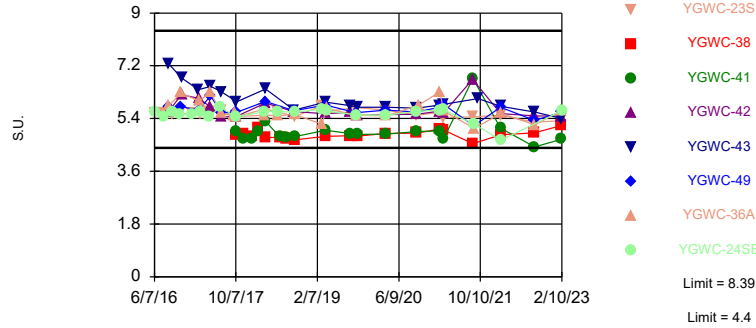


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 438 background values. 64.16% NDs. Annual per-constituent alpha = 0.0007864. Individual comparison alpha = 0.00004917 (1 of 2). Comparing 8 points to limit.

Constituent: Fluoride Analysis Run 4/26/2023 11:20 AM View: Appendix III
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Within Limits

Prediction Limit
Interwell Non-parametric



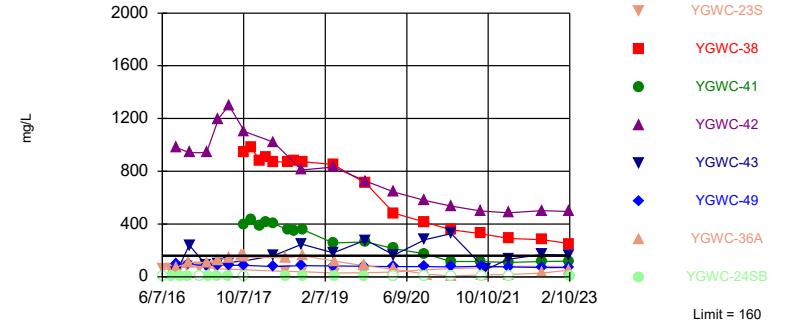
Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 448 background values. Annual per-constituent alpha = 0.001573. Individual comparison alpha = 0.00009834 (1 of 2). Comparing 8 points to limit.

Constituent: pH Analysis Run 4/26/2023 11:20 AM View: Appendix III
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Hollow symbols indicate censored values.

Exceeds Limit: YGWC-38, YGWC-42, YGWC-43

Prediction Limit
Interwell Non-parametric

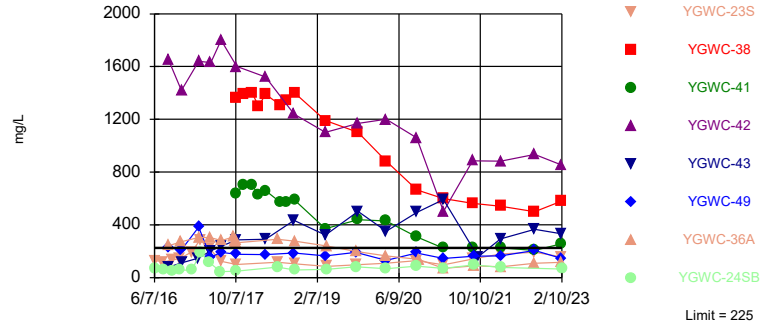


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 369 background values. 5.962% NDs. Annual per-constituent alpha = 0.0007864. Individual comparison alpha = 0.00004917 (1 of 2). Comparing 8 points to limit.

Constituent: Sulfate Analysis Run 4/26/2023 11:20 AM View: Appendix III
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Exceeds Limit: YGWC-38, YGWC-41, YGWC-42, YGWC-43

Prediction Limit
Interwell Parametric



Background Data Summary (based on square root transformation): Mean=10.11, Std. Dev.=2.582, n=369, 0.542% NDs. Normality test: Chi Squared @alpha = 0.01, calculated = 12.71, critical = 14.07. Kappa = 1.894 (c=7, w=8, 1 of 2, event alpha = 0.05132). N exceeds UG tables; Kappa based on n=150. Report alpha = 0.007498. Individual comparison alpha = 0.0009403. Comparing 8 points to limit.

Constituent: Total Dissolved Solids Analysis Run 4/26/2023 11:20 AM View: Appendix III
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 4/26/2023 11:21 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-5D (bg)	YGWA-30I (bg)	YGWA-14S (bg)	YGWA-5I (bg)	YGWA-4I (bg)	YGWA-3D (bg)
6/1/2016	<0.04	<0.04	<0.04						
6/2/2016				<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
6/6/2016									
6/7/2016									
6/8/2016									
7/25/2016	<0.04	<0.04			<0.04				
7/26/2016			0.0055 (J)	0.0052 (J)		0.0177 (J)	<0.04	0.0047 (J)	0.0097 (J)
7/27/2016									
7/28/2016									
8/1/2016									
8/30/2016									
8/31/2016									
9/1/2016									
9/2/2016									
9/13/2016		<0.04	<0.04						
9/14/2016	<0.04			0.0071 (J)			0.01 (J)	<0.04	
9/15/2016						0.0214 (J)			0.0102 (J)
9/16/2016									
9/19/2016					<0.04				
9/20/2016									
11/1/2016	<0.04		0.0086 (J)		<0.04				<0.04
11/2/2016				<0.04		<0.04		<0.04	
11/3/2016									
11/4/2016		<0.04					<0.04		
11/8/2016									
11/14/2016									
11/15/2016									
11/16/2016									
11/28/2016									
12/15/2016									
1/10/2017						0.0198 (J)			
1/11/2017	<0.04		0.0074 (J)						<0.04
1/12/2017				0.0076 (J)			<0.04		
1/13/2017								<0.04	
1/16/2017		<0.04			<0.04				
1/17/2017									
2/21/2017					<0.04				
2/22/2017									
2/24/2017									
2/27/2017									
2/28/2017									
3/1/2017	<0.04								
3/2/2017		<0.04	0.008 (J)						0.0084 (J)
3/3/2017									
3/6/2017								<0.04	
3/7/2017				0.0089 (J)			<0.04		
3/8/2017						0.0189 (J)			
3/9/2017									
4/26/2017	<0.04				<0.04	0.0161 (J)			<0.04
4/27/2017		<0.04	0.0066 (J)						
4/28/2017									
5/1/2017				0.0061 (J)			<0.04		

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 4/26/2023 11:21 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-5D (bg)	YGWA-30I (bg)	YGWA-14S (bg)	YGWA-5I (bg)	YGWA-4I (bg)	YGWA-3D (bg)
5/2/2017							<0.04		
5/8/2017									
5/9/2017									
5/10/2017									
5/26/2017									
6/27/2017		0.006 (J)	0.0087 (J)	0.0079 (J)			<0.04		
6/28/2017	<0.04								<0.04
6/29/2017								<0.04	
6/30/2017					<0.04	0.0173 (J)			
7/7/2017									
7/10/2017									
7/11/2017									
7/13/2017									
7/17/2017									
9/22/2017									
9/29/2017									
10/3/2017		0.0071 (J)	0.0072 (J)	0.0094 (J)			<0.04		
10/4/2017	<0.04				<0.04				<0.04
10/5/2017						0.0173 (J)		<0.04	
10/6/2017									
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
11/21/2017									
1/10/2018									
1/11/2018									
1/12/2018									
2/19/2018									
2/20/2018									
4/2/2018									
4/3/2018									
4/4/2018									
6/5/2018			0.0052 (J)						
6/6/2018		<0.04		0.0098 (J)					
6/7/2018							<0.04	0.0045 (J)	0.004 (J)
6/8/2018	<0.04					0.013 (J)			
6/11/2018					0.014 (J)				
6/12/2018									
6/13/2018									
6/27/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/20/2018									
9/24/2018									
9/25/2018									
9/26/2018				0.01 (J)			0.0057 (J)	0.005 (J)	
9/27/2018									
10/1/2018	<0.04	0.0049 (J)	0.021 (J)			0.015 (J)			<0.04

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 4/26/2023 11:21 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-5D (bg)	YGWA-30I (bg)	YGWA-14S (bg)	YGWA-5I (bg)	YGWA-4I (bg)	YGWA-3D (bg)
10/2/2018					<0.04				
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019		<0.04	0.005 (J)						
3/29/2019						0.014 (J)			
4/1/2019	<0.04				<0.04				<0.04
4/2/2019									
4/3/2019				0.0076 (J)			0.0044 (J)	0.0055 (J)	
4/4/2019									
6/12/2019									
9/24/2019		0.0055 (J)	0.0064 (J)	0.01 (J)			0.0049 (J)		
9/25/2019	<0.04				<0.04	0.018 (J)		<0.04	0.0054 (J)
9/26/2019									
9/27/2019									
10/8/2019									
10/9/2019									
3/17/2020									
3/18/2020		0.0087 (J)				0.02 (J)			
3/19/2020	0.0053 (J)		0.0085 (J)		0.0052 (J)				0.0073 (J)
3/24/2020				0.011 (J)			0.0068 (J)		
3/25/2020								0.011 (J)	
3/26/2020									
9/22/2020				0.0079 (J)			0.0053 (J)	<0.04	
9/23/2020	0.0073 (J)	<0.04	<0.04						0.012 (J)
9/24/2020					0.0075 (J)				
9/25/2020						0.02 (J)			
10/7/2020									
3/1/2021					<0.04				
3/2/2021				0.0068 (J)		0.017 (J)	0.011 (J)		
3/3/2021	<0.04	<0.04	<0.04					0.0056 (J)	<0.04
3/4/2021									
8/19/2021		<0.04	<0.04		<0.04	0.018 (J)			<0.04
8/20/2021									
8/25/2021									
8/26/2021				0.009 (J)			<0.04	<0.04	
8/27/2021	<0.04								
9/1/2021									
9/3/2021									
9/27/2021									
2/8/2022									
2/9/2022	<0.04	<0.04	<0.04						0.01 (J)
2/10/2022				0.011 (J)		0.02 (J)	<0.04		
2/11/2022					<0.04			<0.04	
8/30/2022			<0.04	0.0098 (J)			<0.04		
8/31/2022	<0.04	<0.04			<0.04	0.015 (J)		<0.04	<0.04
9/1/2022									
2/7/2023		<0.04	<0.04	<0.04					
2/8/2023	<0.04				<0.04	0.015 (J)			<0.04
2/9/2023							<0.04	<0.04	
2/10/2023									

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 4/26/2023 11:21 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWC-23S	YGWC-24SB	YGWC-42	YGWA-47 (bg)
6/1/2016									
6/2/2016									
6/6/2016	<0.04	<0.04							
6/7/2016			<0.04	<0.04	<0.04	0.99			
6/8/2016							<0.04		
7/25/2016									
7/26/2016									
7/27/2016	0.0059 (J)	<0.04	0.008 (J)	<0.04					
7/28/2016					<0.04	1.09			
8/1/2016							<0.04		
8/30/2016								24.7	0.0166 (J)
8/31/2016									
9/1/2016									
9/2/2016									
9/13/2016									
9/14/2016									
9/15/2016									
9/16/2016	0.0079 (J)		0.0086 (J)						
9/19/2016		<0.04		<0.04	<0.04				
9/20/2016						1.35	<0.04		
11/1/2016									
11/2/2016				<0.04					
11/3/2016	0.0082 (J)	<0.04	0.0077 (J)		<0.04				
11/4/2016									
11/8/2016						1.5	<0.04		
11/14/2016									0.0166 (J)
11/15/2016									
11/16/2016								16.4	
11/28/2016									
12/15/2016									
1/10/2017									
1/11/2017	0.0096 (J)	<0.04	0.0092 (J)						
1/12/2017									
1/13/2017				<0.04	<0.04				
1/16/2017						1.67			
1/17/2017							<0.04		
2/21/2017									
2/22/2017									
2/24/2017									0.0145 (J)
2/27/2017								17.9	
2/28/2017									
3/1/2017	<0.04	<0.04							
3/2/2017			0.0095 (J)						
3/3/2017									
3/6/2017				<0.04	<0.04				
3/7/2017									
3/8/2017							<0.04		
3/9/2017						1.44			
4/26/2017	0.0091 (J)	<0.04		<0.04	<0.04				
4/27/2017									
4/28/2017									
5/1/2017									

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 4/26/2023 11:21 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWC-23S	YGWC-24SB	YGWC-42	YGWA-47 (bg)
5/2/2017			<0.04			1.2	0.0099 (J)		
5/8/2017									0.0141 (J)
5/9/2017									
5/10/2017								20.4	
5/26/2017									
6/27/2017									
6/28/2017	0.0079 (J)	<0.04							
6/29/2017			0.0074 (J)	<0.04	<0.04				
6/30/2017									
7/7/2017							0.0076 (J)		
7/10/2017						1.12			
7/11/2017								25.2	0.0131 (J)
7/13/2017									
7/17/2017									
9/22/2017									
9/29/2017									
10/3/2017					<0.04				
10/4/2017	0.009 (J)		0.0077 (J)	<0.04					
10/5/2017		<0.04					<0.04		
10/6/2017									
10/10/2017									0.0124 (J)
10/11/2017						1.09			
10/12/2017								20	
10/16/2017									
11/20/2017									
11/21/2017									
1/10/2018									
1/11/2018									
1/12/2018									
2/19/2018									
2/20/2018									
4/2/2018									0.013 (J)
4/3/2018									
4/4/2018								22.7	
6/5/2018					0.0092 (J)				
6/6/2018				0.0049 (J)					
6/7/2018		<0.04							
6/8/2018									
6/11/2018	0.0093 (J)		0.01 (J)						
6/12/2018						0.9	0.018 (J)		
6/13/2018									
6/27/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									0.012 (J)
9/20/2018								20.3	
9/24/2018									
9/25/2018	0.007 (J)	0.0046 (J)	0.0096 (J)	<0.04	0.0054 (J)				
9/26/2018							0.0055 (J)		
9/27/2018						0.71			
10/1/2018									

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 4/26/2023 11:21 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWC-23S	YGWC-24SB	YGWC-42	YGWA-47 (bg)
10/2/2018									
2/25/2019									
3/26/2019									
3/27/2019								20.3	0.013 (J)
3/28/2019									
3/29/2019									
4/1/2019									
4/2/2019			0.0066 (J)		0.011 (J)				
4/3/2019	0.0053 (J)	<0.04		<0.04					
4/4/2019						0.6	<0.04		
6/12/2019									
9/24/2019					0.018 (J)				
9/25/2019			0.0081 (J)	<0.04					
9/26/2019	0.0072 (J)	0.0062 (J)					0.0068 (J)		
9/27/2019						0.58			
10/8/2019									0.012 (J)
10/9/2019								16.6	
3/17/2020									0.023 (J)
3/18/2020									
3/19/2020									
3/24/2020	0.01 (J)	0.0054 (J)	0.0092 (J)	<0.04	0.016 (J)				
3/25/2020								15.5	
3/26/2020						0.94	0.033 (J)		
9/22/2020									0.0076 (J)
9/23/2020	0.006 (J)	0.021 (J)	0.0066 (J)				<0.04		
9/24/2020				0.0094 (J)	0.013 (J)	1.1		15.2	
9/25/2020									
10/7/2020									
3/1/2021									0.013 (J)
3/2/2021									
3/3/2021	0.0094 (J)	<0.04	0.01 (J)	<0.04			<0.04		
3/4/2021					0.0079 (J)	1.2		14.8	
8/19/2021									0.011 (J)
8/20/2021									
8/25/2021						1.3		13.5	
8/26/2021	<0.04								
8/27/2021		<0.04	0.011 (J)	<0.04					
9/1/2021					<0.04		<0.04		
9/3/2021									
9/27/2021									
2/8/2022									0.015 (J)
2/9/2022	<0.04	<0.04	0.0098 (J)	<0.04	<0.04				
2/10/2022						1.5	<0.04	14.4	
2/11/2022									
8/30/2022	0.014 (J)	<0.04	0.013 (J)		0.012 (J)				
8/31/2022				<0.04					0.0091 (J)
9/1/2022						1.5		13.4	
2/7/2023	<0.04	<0.04	0.014 (J)	<0.04	<0.04				
2/8/2023						1.6		14.5	0.011 (J)
2/9/2023									
2/10/2023							<0.04		

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 4/26/2023 11:21 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	GWA-2 (bg)	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-41	YGWC-38	YGWA-40 (bg)
6/1/2016									
6/2/2016									
6/6/2016									
6/7/2016									
6/8/2016									
7/25/2016									
7/26/2016									
7/27/2016									
7/28/2016									
8/1/2016									
8/30/2016									
8/31/2016	0.0315 (J)	0.169							
9/1/2016			0.0113 (J)						
9/2/2016				0.133					
9/13/2016									
9/14/2016					<0.04				
9/15/2016									
9/16/2016									
9/19/2016									
9/20/2016									
11/1/2016									
11/2/2016									
11/3/2016									
11/4/2016					<0.04				
11/8/2016									
11/14/2016				0.287					
11/15/2016			0.0074 (J)						
11/16/2016		0.406							
11/28/2016	0.0095 (J)								
12/15/2016					0.0107 (J)				
1/10/2017									
1/11/2017									
1/12/2017									
1/13/2017									
1/16/2017					<0.04				
1/17/2017									
2/21/2017									
2/22/2017	<0.04								
2/24/2017		0.725							
2/27/2017			<0.04						
2/28/2017				0.215					
3/1/2017									
3/2/2017									
3/3/2017					<0.04				
3/6/2017									
3/7/2017									
3/8/2017									
3/9/2017									
4/26/2017									
4/27/2017									
4/28/2017					<0.04				
5/1/2017									

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 4/26/2023 11:21 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	GWA-2 (bg)	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-41	YGWC-38	YGWA-40 (bg)
5/2/2017									
5/8/2017	0.0084 (J)								
5/9/2017			<0.04	0.233					
5/10/2017		0.955							
5/26/2017					<0.04				
6/27/2017									
6/28/2017					<0.04				
6/29/2017									
6/30/2017									
7/7/2017									
7/10/2017									
7/11/2017		0.994							
7/13/2017			0.0093 (J)	0.262					
7/17/2017	0.0092 (J)								
9/22/2017				0.238					
9/29/2017				0.235					
10/3/2017					<0.04				
10/4/2017									
10/5/2017									
10/6/2017				0.256					
10/10/2017									
10/11/2017			<0.04	0.245		0.0135 (J)			
10/12/2017		1.15					12	19.3	0.0401
10/16/2017	<0.04								
11/20/2017						0.0251 (J)		21.8	0.156
11/21/2017							12.1		
1/10/2018									0.15
1/11/2018						0.0255 (J)	12.8		
1/12/2018								18.7	
2/19/2018	<0.04						15.2		0.146
2/20/2018						<0.04		18.6	
4/2/2018									
4/3/2018									
4/4/2018		1.2	0.0041 (J)			0.033 (J)	14.5	20.9	0.12
6/5/2018									
6/6/2018									
6/7/2018					<0.04				
6/8/2018									
6/11/2018									
6/12/2018									
6/13/2018				0.25					
6/27/2018							14.1		
6/28/2018						0.053		22.7	0.16
8/6/2018	<0.04								
8/7/2018						0.024 (J)	11.9	19.1	0.12
9/19/2018									
9/20/2018		2.1	0.0042 (J)						
9/24/2018						0.028 (J)	12.2	18.4	0.099
9/25/2018									
9/26/2018				0.24					
9/27/2018									
10/1/2018					<0.04				

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 4/26/2023 11:21 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	GWA-2 (bg)	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-41	YGWC-38	YGWA-40 (bg)
10/2/2018									
2/25/2019	<0.04								
3/26/2019									0.096
3/27/2019						0.017 (J)		16.7	
3/28/2019		1.8	<0.04				7.1		
3/29/2019					0.0065 (J)				
4/1/2019									
4/2/2019									
4/3/2019									
4/4/2019				0.22					
6/12/2019	<0.04								
9/24/2019					0.0076 (J)				
9/25/2019									
9/26/2019			<0.04	0.13					
9/27/2019									
10/8/2019	<0.04								
10/9/2019		2.7				0.017 (J)	8.6	13.5	0.079
3/17/2020	0.0051 (J)								
3/18/2020									
3/19/2020					0.0073 (J)				
3/24/2020									0.088 (J)
3/25/2020		2.4	0.012 (J)	0.11		0.043 (J)	7.9	9.3	
3/26/2020									
9/22/2020	0.0079 (J)								
9/23/2020					<0.04				
9/24/2020			0.062 (J)			0.037 (J)			0.087 (J)
9/25/2020		3.9					6	8	
10/7/2020				0.018 (J)					
3/1/2021									
3/2/2021	<0.04								
3/3/2021					<0.04				
3/4/2021		3.6	<0.04	0.0088 (J)		0.033 (J)	4	6.4	0.078
8/19/2021									
8/20/2021	<0.04								
8/25/2021									
8/26/2021						0.095	3.3	6.1	
8/27/2021					<0.04				
9/1/2021			<0.04						
9/3/2021				0.012 (J)					0.077
9/27/2021		0.64							
2/8/2022	<0.04	2.3	<0.04			0.13	4		0.074
2/9/2022					<0.04				
2/10/2022								5.4	
2/11/2022				0.019 (J)					
8/30/2022	<0.04				<0.04				
8/31/2022			0.011 (J)			0.14			0.062
9/1/2022		2.6		0.067			3.6	4.8	
2/7/2023	<0.04				<0.04	0.13			
2/8/2023		2.5					3.3	4.1	0.057
2/9/2023			0.014 (J)	0.028 (J)					
2/10/2023									

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/26/2023 11:21 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-5D (bg)	YGWA-30I (bg)	YGWA-14S (bg)	YGWA-5I (bg)	YGWA-4I (bg)	YGWA-3D (bg)
6/1/2016	21	2.5	12						
6/2/2016				33	1.3	1.3	2.4	8.8	28
6/6/2016									
6/7/2016									
6/8/2016									
7/25/2016	20.3	2.16			1.17				
7/26/2016			11	32.3		1.24	2.12	7.69	24.5
7/27/2016									
7/28/2016									
8/1/2016									
8/30/2016									
8/31/2016									
9/1/2016									
9/2/2016									
9/13/2016		2.21	11.8						
9/14/2016	19.7			31			2.18	8.49	
9/15/2016						1.17			27
9/16/2016									
9/19/2016					1.05				
9/20/2016									
11/1/2016	18.4		11		1.14				25.6
11/2/2016				30.9		1.23		7.83	
11/3/2016									
11/4/2016		2.67					2.17 (J)		
11/8/2016									
11/14/2016									
11/15/2016									
11/16/2016									
11/28/2016									
12/15/2016									
1/10/2017						1.24			
1/11/2017	20.3		11.2						27.5
1/12/2017				35.7			2.37		
1/13/2017								8.08	
1/16/2017		2.45			1.23				
1/17/2017									
2/21/2017					1.25				
2/22/2017									
2/24/2017									
2/27/2017									
2/28/2017									
3/1/2017	18.6								
3/2/2017		2.57	11						27.5
3/3/2017									
3/6/2017								8.64	
3/7/2017				32.7			2.34		
3/8/2017						1.21			
3/9/2017									
4/26/2017	25.6				1.03	1.14			30.4
4/27/2017		2.38	11.1						
4/28/2017									
5/1/2017				37				13.4	

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/26/2023 11:21 AM View: Appendix III
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-5D (bg)	YGWA-30I (bg)	YGWA-14S (bg)	YGWA-5I (bg)	YGWA-4I (bg)	YGWA-3D (bg)
5/2/2017							2.17		
5/8/2017									
5/9/2017									
5/10/2017									
5/26/2017									
6/27/2017		2.36	13.8	36.5			2.13		
6/28/2017	23.9								29.8
6/29/2017								8.81	
6/30/2017					1.13	1.24			
7/7/2017									
7/10/2017									
7/11/2017									
7/13/2017									
7/17/2017									
9/22/2017									
9/29/2017									
10/3/2017		2.21	14	30.9			2.15		
10/4/2017	22.1				1.09				29.7
10/5/2017						1.11		9.29	
10/6/2017									
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
11/21/2017									
1/10/2018									
1/11/2018									
1/12/2018									
2/19/2018									
2/20/2018									
4/2/2018									
4/3/2018									
4/4/2018									
6/5/2018			15.2 (J)						
6/6/2018		2.3		26.2					
6/7/2018							2.3	8.2	29.1
6/8/2018	21.9 (J)					1.1			
6/11/2018					1.1				
6/12/2018									
6/13/2018									
6/27/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/20/2018									
9/24/2018									
9/25/2018									
9/26/2018				25.8			2.3	9.5 (J)	
9/27/2018									
10/1/2018	19.7	1.8	15.1			0.99			26.9

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/26/2023 11:21 AM View: Appendix III
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWC-23S	YGWC-24SB	YGWC-42	YGWA-47 (bg)
5/2/2017			1.95			12.9	1.57		
5/8/2017									14.6
5/9/2017									
5/10/2017								130	
5/26/2017									
6/27/2017									
6/28/2017	1.06	4.95							
6/29/2017			2.02	2.54	6.04				
6/30/2017									
7/7/2017							1.8		
7/10/2017						8.09			
7/11/2017								172	14.3
7/13/2017									
7/17/2017									
9/22/2017									
9/29/2017									
10/3/2017					8.28				
10/4/2017	1.1		2.03	2.25					
10/5/2017		5.28					1.7		
10/6/2017									
10/10/2017									12.1
10/11/2017						6.36			
10/12/2017								144	
10/16/2017									
11/20/2017									
11/21/2017									
1/10/2018									
1/11/2018									
1/12/2018									
2/19/2018									
2/20/2018									
4/2/2018									<25
4/3/2018									
4/4/2018								137	
6/5/2018					9.1				
6/6/2018				2.3					
6/7/2018		4.8							
6/8/2018									
6/11/2018	1.4		2.1						
6/12/2018						4.7	1.8		
6/13/2018									
6/27/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									11.1 (J)
9/20/2018								108	
9/24/2018									
9/25/2018	1	4.6	2.1	2.3	10.4 (J)				
9/26/2018							1.7		
9/27/2018						4.1			
10/1/2018									

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/26/2023 11:21 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWC-23S	YGWC-24SB	YGWC-42	YGWA-47 (bg)
10/2/2018									
2/25/2019									
3/26/2019									
3/27/2019								109	10.8 (J)
3/28/2019									
3/29/2019									
4/1/2019									
4/2/2019			2.5		8.8				
4/3/2019	1.2	5.3		2.9					
4/4/2019						3.7	1.9		
6/12/2019									
9/24/2019					7.7				
9/25/2019			2.6	2.4					
9/26/2019	1.1	4.9					1.7		
9/27/2019						3.7			
10/8/2019									9.7
10/9/2019								92	
3/17/2020									14.8
3/18/2020									
3/19/2020									
3/24/2020	1	5.3	2.7	2.6	6				
3/25/2020								107	
3/26/2020						5.6	1.7		
9/22/2020									10.1
9/23/2020	0.91 (J)	5.2	2.6				2.4		
9/24/2020				2.6	7.8	7.9		84.3	
9/25/2020									
10/7/2020									
3/1/2021									10.3
3/2/2021									
3/3/2021	0.96 (J)	5.2	2.5	2.4			2.4		
3/4/2021					8.7	10.2		90.7	
8/19/2021									9.6
8/20/2021									
8/25/2021						10.6		79.9	
8/26/2021	0.98 (J)								
8/27/2021		5.1	2.7	2.4					
9/1/2021					9.5		2.3		
9/3/2021									
9/27/2021									
2/8/2022									9.4
2/9/2022	0.87 (J)	5.1	2.8	2.3	9.8				
2/10/2022						11.8	2.2	74.4	
2/11/2022									
8/30/2022	0.77 (J)	5.7	3		7.3				
8/31/2022				2.4					9.6
9/1/2022						11.2		68.5	
2/7/2023	0.79 (J)	5.5	2.9	2.4	7.5				
2/8/2023						10.9		74.6	9.2
2/9/2023									
2/10/2023							2.4		

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/26/2023 11:21 AM View: Appendix III
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	GWA-2 (bg)	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-41	YGWC-38	YGWA-40 (bg)
5/2/2017									
5/8/2017	14.2								
5/9/2017			14.4	13.9					
5/10/2017		7.9							
5/26/2017					26.2				
6/27/2017									
6/28/2017					26.1				
6/29/2017									
6/30/2017									
7/7/2017									
7/10/2017									
7/11/2017		6.71							
7/13/2017			14.1	16.6					
7/17/2017	14.1								
9/22/2017				18.4					
9/29/2017				16.1					
10/3/2017					26.7				
10/4/2017									
10/5/2017									
10/6/2017				16.6					
10/10/2017									
10/11/2017			12.4	18.1		2.74			
10/12/2017		7.05					44.5	190	2.9
10/16/2017	13.6								
11/20/2017						1.81		184	10.4
11/21/2017							44.4		
1/10/2018									10.2
1/11/2018						1.54	43.9		
1/12/2018								178	
2/19/2018	<25						45.3		<25
2/20/2018						1.71		184	
4/2/2018									
4/3/2018						1.4	42.7	174	6.3
4/4/2018		8.6	<25						
6/5/2018									
6/6/2018									
6/7/2018					25				
6/8/2018									
6/11/2018									
6/12/2018									
6/13/2018				18.7 (J)					
6/27/2018							42.2		
6/28/2018						1.4		190	6.7
8/6/2018	11.4 (J)								
8/7/2018						1.2	40.7	176	6.3
9/19/2018									
9/20/2018		15.9 (J)	12 (J)						
9/24/2018						1.1	38.5	172	5.7
9/25/2018									
9/26/2018				19.8 (J)					
9/27/2018									
10/1/2018					25				

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/26/2023 11:21 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-5D (bg)	YGWA-30I (bg)	YGWA-14S (bg)	YGWA-5I (bg)	YGWA-4I (bg)	YGWA-3D (bg)
6/1/2016	1.3	1.6	1.3						
6/2/2016				7.2	1.9	4.1	4.3	3.7	1.4
6/6/2016									
6/7/2016									
6/8/2016									
7/25/2016	1.3	1.4			1.7				
7/26/2016			1.2	6.6		4	4.4	3.6	1.6
7/27/2016									
7/28/2016									
8/1/2016									
8/30/2016									
8/31/2016									
9/1/2016									
9/2/2016									
9/13/2016		1.3	1.1						
9/14/2016	1.3			6.6			3.8	3.4	
9/15/2016						4.2			1.5
9/16/2016									
9/19/2016					1.6				
9/20/2016									
11/1/2016	1.4		1.3		1.8				1.7
11/2/2016				7.6		4.9		4.5	
11/3/2016									
11/4/2016		1.6					4.8		
11/8/2016									
11/14/2016									
11/15/2016									
11/16/2016									
11/28/2016									
12/15/2016									
1/10/2017						4.1			
1/11/2017	1.1		1.1						1.2
1/12/2017				6.8			3.8		
1/13/2017								4.2	
1/16/2017		1.4			1.7				
1/17/2017									
2/21/2017					1.7				
2/22/2017									
2/24/2017									
2/27/2017									
2/28/2017									
3/1/2017	1.1								
3/2/2017		1.3	1						1.2
3/3/2017									
3/6/2017								3.6	
3/7/2017				6.8			4.5		
3/8/2017						4.2			
3/9/2017									
4/26/2017	1.1				1.7	4.1			1.2
4/27/2017		1.3	1						
4/28/2017									
5/1/2017				7.2				4.3	

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/26/2023 11:21 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-5D (bg)	YGWA-30I (bg)	YGWA-14S (bg)	YGWA-5I (bg)	YGWA-4I (bg)	YGWA-3D (bg)
5/2/2017							4.6		
5/8/2017									
5/9/2017									
5/10/2017									
5/26/2017									
6/27/2017		1.4	1.1	7			4.3		
6/28/2017	1.2								1.3
6/29/2017								4.2	
6/30/2017					1.8	3.7			
7/7/2017									
7/10/2017									
7/11/2017									
7/13/2017									
7/17/2017									
9/22/2017									
9/29/2017									
10/3/2017		1.7	1.1	6.5			4.2		
10/4/2017	1.2				1.8				1.5
10/5/2017						3.8		4.7	
10/6/2017									
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
11/21/2017									
1/10/2018									
1/11/2018									
1/12/2018									
2/19/2018									
2/20/2018									
4/2/2018									
4/3/2018									
4/4/2018									
6/5/2018			1.1						
6/6/2018		1.4		4.7					
6/7/2018							4.5	4.4	1.2
6/8/2018	1.2					3.4			
6/11/2018					2				
6/12/2018									
6/13/2018									
6/27/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/20/2018									
9/24/2018									
9/25/2018									
9/26/2018				4.8			5.1	4.8	
9/27/2018									
10/1/2018	1.2	1.4	1.1			3.8			1.5

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/26/2023 11:21 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWC-23S	YGWC-24SB	YGWC-42	YGWA-47 (bg)
10/2/2018									
2/25/2019									
3/26/2019									
3/27/2019								3.9	4.3
3/28/2019									
3/29/2019									
4/1/2019									
4/2/2019			4.8		2.5				
4/3/2019	6.3	6.9		3.1					
4/4/2019						1.7	5.9		
6/12/2019									
9/24/2019					3.1				
9/25/2019			5.7	2.8					
9/26/2019	7.1	7					6.5		
9/27/2019						1.7			
10/8/2019									4.4
10/9/2019								4.1	
3/17/2020									4.1
3/18/2020									
3/19/2020									
3/24/2020	6.8	7	5	2.7	2.8				
3/25/2020								3.2	
3/26/2020						1.6	5.4		
9/22/2020									4.2
9/23/2020	7.2	7.2	6.6				9.3		
9/24/2020				2.7	2	2		3.3	
9/25/2020									
10/7/2020									
3/1/2021									3.7
3/2/2021									
3/3/2021	7.2	7	7.1	2.7			8.6		
3/4/2021					1.8	1.8		2.7	
8/19/2021									3.5
8/20/2021									
8/25/2021						2.5		3.4	
8/26/2021	7.3								
8/27/2021		7.4	8.5	2.8					
9/1/2021					1.8		8.9		
9/3/2021									
9/27/2021									
2/8/2022									3.2
2/9/2022	7	7.5	10.9	2.8	1.7				
2/10/2022						1.9	8.7	3.3	
2/11/2022									
8/30/2022	7	7.9	12		2.4				
8/31/2022				2.9					3.5
9/1/2022						2		3.3	
2/7/2023	6.4	7.4	11.4	2.9	2.4				
2/8/2023						2		3.4	3.5
2/9/2023									
2/10/2023							9.1		

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/26/2023 11:21 AM View: Appendix III
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	GWA-2 (bg)	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-41	YGWC-38	YGWA-40 (bg)
5/2/2017									
5/8/2017	4.2								
5/9/2017			5.3	5.7					
5/10/2017		1.2							
5/26/2017					0.93				
6/27/2017									
6/28/2017					1				
6/29/2017									
6/30/2017									
7/7/2017									
7/10/2017									
7/11/2017		1.5							
7/13/2017			4.7	5.4					
7/17/2017	3.8								
9/22/2017				6.9					
9/29/2017				5.5					
10/3/2017					1.2				
10/4/2017									
10/5/2017									
10/6/2017				5.5					
10/10/2017									
10/11/2017			5.8	6.4		2.4			
10/12/2017		1.6					3.1	6	3.8
10/16/2017	4.2								
11/20/2017						1.8		6.9	4.4
11/21/2017							4.2		
1/10/2018									4.6
1/11/2018						1.6	3.8		
1/12/2018								6.6	
2/19/2018	4.3						3.5		4.6
2/20/2018						2		6.2	
4/2/2018									
4/3/2018						3.3	4.4	6.9	5.9
4/4/2018		1.8	4.3						
6/5/2018									
6/6/2018									
6/7/2018					1				
6/8/2018									
6/11/2018									
6/12/2018									
6/13/2018				5.6					
6/27/2018							3.6		
6/28/2018						2.1		6.4	5
8/6/2018	3.8								
8/7/2018						1.2	3.3	5.5	4.3
9/19/2018									
9/20/2018		1.9	4.8						
9/24/2018						1.3	3.3	5.9	4.9
9/25/2018									
9/26/2018				6					
9/27/2018									
10/1/2018					1.1				

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 4/26/2023 11:21 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-14S (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-4I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
6/1/2016	0.15 (J)	<0.1	0.12 (J)						
6/2/2016				<0.1	<0.1	0.11 (J)	<0.1	<0.1	0.62
6/6/2016									
6/7/2016									
6/8/2016									
7/25/2016	0.14 (J)	0.06 (J)						0.06 (J)	
7/26/2016			0.08 (J)	0.02 (J)	<0.1	0.05 (J)	<0.1		0.49
7/27/2016									
7/28/2016									
8/1/2016									
8/30/2016									
8/31/2016									
9/1/2016									
9/2/2016									
9/13/2016		<0.1	0.11 (J)						
9/14/2016	0.18 (J)				<0.1	0.04 (J)	<0.1		
9/15/2016				<0.1					0.54
9/16/2016									
9/19/2016								<0.1	
9/20/2016									
11/1/2016	<0.1		<0.1					<0.1	0.68
11/2/2016				<0.1		<0.1	<0.1		
11/3/2016									
11/4/2016		<0.1			<0.1				
11/8/2016									
11/14/2016									
11/15/2016									
11/16/2016									
11/28/2016									
12/15/2016									
1/10/2017				<0.1					
1/11/2017	0.09 (J)		0.05 (J)						0.49
1/12/2017					<0.1	0.04 (J)			
1/13/2017							<0.1		
1/16/2017		<0.1						<0.1	
1/17/2017									
2/21/2017								<0.1	
2/22/2017									
2/24/2017									
2/27/2017									
2/28/2017									
3/1/2017	<0.1								
3/2/2017		<0.1	<0.1						0.48
3/3/2017									
3/6/2017							<0.1		
3/7/2017					<0.1	<0.1			
3/8/2017				<0.1					
3/9/2017									
4/26/2017	0.08 (J)			<0.1				<0.1	0.48
4/27/2017		0.01 (J)	0.04 (J)						
4/28/2017									
5/1/2017						<0.1	<0.1		

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 4/26/2023 11:21 AM View: Appendix III
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-14S (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-4I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
5/2/2017					<0.1				
5/8/2017									
5/9/2017									
5/10/2017									
5/26/2017									
6/27/2017		<0.1	<0.1		<0.1	<0.1			
6/28/2017	0.12 (J)								0.47
6/29/2017							<0.1		
6/30/2017				<0.1				<0.1	
7/7/2017									
7/10/2017									
7/11/2017									
7/13/2017									
7/17/2017									
9/22/2017									
9/29/2017									
10/3/2017		<0.1	<0.1		<0.1	<0.1			
10/4/2017	<0.1							<0.1	<0.1
10/5/2017				<0.1			<0.1		
10/6/2017									
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
11/21/2017									
1/10/2018									
1/11/2018									
1/12/2018									
2/19/2018									
2/20/2018									
3/27/2018		<0.1		<0.1				<0.1	
3/28/2018	<0.1								0.56
3/29/2018			<0.1		<0.1	<0.1	<0.1		
3/30/2018									
4/2/2018									
4/3/2018									
4/4/2018									
6/5/2018			0.055 (J)						
6/6/2018		<0.1				0.15 (J)			
6/7/2018					<0.1		<0.1		0.48
6/8/2018	0.2 (J)			<0.1					
6/11/2018								<0.1	
6/12/2018									
6/13/2018									
6/27/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/20/2018									
9/24/2018									

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 4/26/2023 11:21 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-14S (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-4I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
9/25/2018									
9/26/2018					<0.1	<0.1	<0.1		
9/27/2018									
10/1/2018	<0.1	<0.1	<0.1	<0.1					0.44
10/2/2018								<0.1	
2/25/2019									
2/26/2019				<0.1				<0.1	
2/27/2019	0.13 (J)	<0.1	0.052 (J)						0.53
3/4/2019					<0.1	0.19 (J)	<0.1		
3/5/2019									
3/6/2019									
3/26/2019									
3/27/2019									
3/28/2019		<0.1	0.036 (J)						
3/29/2019				<0.1					
4/1/2019	0.1 (J)							<0.1	0.45
4/2/2019									
4/3/2019					<0.1	0.047 (J)	<0.1		
4/4/2019									
6/12/2019									
8/19/2019									
8/20/2019									
8/21/2019									
8/22/2019									
9/24/2019		<0.1	0.063 (J)		<0.1	0.05 (J)			
9/25/2019	0.1 (J)			<0.1			<0.1	<0.1	0.46
9/26/2019									
9/27/2019									
10/8/2019									
10/9/2019									
2/10/2020		<0.1	0.061 (J)						
2/11/2020	0.094 (J)								
2/12/2020				<0.1	<0.1	<0.1	<0.1	<0.1	0.4
3/17/2020									
3/18/2020		<0.1		<0.1					
3/19/2020	0.11 (J)		0.064 (J)					<0.1	0.51
3/24/2020					<0.1	<0.1			
3/25/2020							<0.1		
3/26/2020									
8/26/2020									
8/27/2020									
9/22/2020					<0.1	0.056 (J)	<0.1		
9/23/2020	0.098 (J)	<0.1	0.058 (J)						0.47
9/24/2020								<0.1	
9/25/2020				<0.1					
10/7/2020									
2/8/2021					<0.1	0.055 (J)			
2/9/2021							<0.1		
2/10/2021	<0.1			<0.1					0.43
2/11/2021								<0.1	
2/12/2021		<0.1	0.068 (J)						
3/1/2021								<0.1	

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 4/26/2023 11:21 AM View: Appendix III
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-14S (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-4I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
3/2/2021				<0.1	<0.1	<0.1			
3/3/2021	0.1	<0.1	0.078 (J)				<0.1		0.44
3/4/2021									
8/19/2021		<0.1	0.074 (J)	<0.1				<0.1	0.47
8/20/2021									
8/25/2021									
8/26/2021					<0.1	0.061 (J)	<0.1		
8/27/2021	0.12								
9/1/2021									
9/3/2021									
9/27/2021									
2/8/2022									
2/9/2022	0.097 (J)	<0.1	0.057 (J)						0.43
2/10/2022				<0.1	<0.1	0.055 (J)			
2/11/2022							<0.1	<0.1	
8/30/2022			0.093 (J)		<0.1	0.085 (J)			
8/31/2022	0.13	0.065 (J)		0.053 (J)			0.061 (J)	0.06 (J)	0.42
9/1/2022									
2/7/2023		0.071 (J)	0.093 (J)			0.082 (J)			
2/8/2023	0.16			0.059 (J)				0.064 (J)	0.56
2/9/2023					<0.1		0.067 (J)		
2/10/2023									

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 4/26/2023 11:21 AM View: Appendix III
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWC-23S	YGWA-21I (bg)	YGWA-17S (bg)	YGWC-24SB	YGWA-47 (bg)	YGWC-42
6/1/2016									
6/2/2016									
6/6/2016	<0.1	<0.1							
6/7/2016			<0.1	<0.1	<0.1	<0.1			
6/8/2016							<0.1		
7/25/2016									
7/26/2016									
7/27/2016	<0.1	<0.1	<0.1			<0.1			
7/28/2016				0.03 (J)	0.02 (J)				
8/1/2016							<0.1		
8/30/2016								0.09 (J)	0.02 (J)
8/31/2016									
9/1/2016									
9/2/2016									
9/13/2016									
9/14/2016									
9/15/2016									
9/16/2016		<0.1				<0.1			
9/19/2016	<0.1		<0.1		0.02 (J)				
9/20/2016				<0.1			<0.1		
11/1/2016									
11/2/2016			<0.1						
11/3/2016	<0.1	<0.1			<0.1	<0.1			
11/4/2016									
11/8/2016				<0.1			<0.1		
11/14/2016								0.18 (J)	
11/15/2016									
11/16/2016									0.07 (J)
11/28/2016									
12/15/2016									
1/10/2017									
1/11/2017	<0.1	<0.1				<0.1			
1/12/2017									
1/13/2017			<0.1		<0.1				
1/16/2017				<0.1					
1/17/2017							<0.1		
2/21/2017									
2/22/2017									
2/24/2017								0.05 (J)	
2/27/2017									0.06 (J)
2/28/2017									
3/1/2017	<0.1	<0.1							
3/2/2017						<0.1			
3/3/2017									
3/6/2017			<0.1		<0.1				
3/7/2017									
3/8/2017							<0.1		
3/9/2017				<0.1					
4/26/2017	<0.1	<0.1	<0.1		0.04 (J)				
4/27/2017									
4/28/2017									
5/1/2017									

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 4/26/2023 11:21 AM View: Appendix III
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWC-23S	YGWA-21I (bg)	YGWA-17S (bg)	YGWC-24SB	YGWA-47 (bg)	YGWC-42
5/2/2017				<0.1		<0.1	<0.1		
5/8/2017								0.03 (J)	
5/9/2017									
5/10/2017									<0.1
5/26/2017									
6/27/2017									
6/28/2017	<0.1	<0.1							
6/29/2017			<0.1		<0.1	<0.1			
6/30/2017									
7/7/2017							<0.1		
7/10/2017				<0.1					
7/11/2017								0.07 (J)	<0.1
7/13/2017									
7/17/2017									
9/22/2017									
9/29/2017									
10/3/2017					<0.1				
10/4/2017		<0.1	<0.1			<0.1			
10/5/2017	<0.1						<0.1		
10/6/2017									
10/10/2017								<0.1	
10/11/2017				<0.1					
10/12/2017									<0.1
10/16/2017									
11/20/2017									
11/21/2017									
1/10/2018									
1/11/2018									
1/12/2018									
2/19/2018									
2/20/2018									
3/27/2018									
3/28/2018	<0.1	<0.1				<0.1			
3/29/2018			<0.1		<0.1				
3/30/2018				<0.1			<0.1		
4/2/2018								<0.1	
4/3/2018									
4/4/2018									<0.1
6/5/2018					0.13 (J)				
6/6/2018			<0.1						
6/7/2018	<0.1								
6/8/2018									
6/11/2018		<0.1				<0.1			
6/12/2018				<0.1			<0.1		
6/13/2018									
6/27/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018								<0.1	
9/20/2018									0.041 (J)
9/24/2018									

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 4/26/2023 11:21 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWC-23S	YGWA-21I (bg)	YGWA-17S (bg)	YGWC-24SB	YGWA-47 (bg)	YGWC-42
9/25/2018	<0.1	<0.1	<0.1		0 (J)	<0.1			
9/26/2018							<0.1		
9/27/2018				<0.1					
10/1/2018									
10/2/2018									
2/25/2019									
2/26/2019									
2/27/2019									
3/4/2019									
3/5/2019		<0.1	<0.1		0.32	<0.1	<0.1		
3/6/2019	<0.1			<0.1					
3/26/2019									
3/27/2019								0.081 (J)	<0.1
3/28/2019									
3/29/2019									
4/1/2019									
4/2/2019					0.12 (J)	<0.1			
4/3/2019	<0.1	<0.1	<0.1						
4/4/2019				0.049 (J)			0.033 (J)		
6/12/2019									
8/19/2019									
8/20/2019								<0.1	
8/21/2019									
8/22/2019									<0.1
9/24/2019					0.15 (J)				
9/25/2019			<0.1			<0.1			
9/26/2019	<0.1	<0.1					0.098 (J)		
9/27/2019				0.12 (J)					
10/8/2019								0.034 (J)	
10/9/2019									<0.1
2/10/2020									
2/11/2020	<0.1	<0.1				<0.1			
2/12/2020			<0.1		0.1 (J)				
3/17/2020								<0.1	
3/18/2020									
3/19/2020									
3/24/2020	<0.1	<0.1	<0.1		0.081 (J)	<0.1			
3/25/2020									<0.1
3/26/2020				<0.1			<0.1		
8/26/2020									
8/27/2020								<0.1	
9/22/2020								<0.1	
9/23/2020	<0.1	<0.1				<0.1	<0.1		
9/24/2020			<0.1	<0.1	0.079 (J)				<0.1
9/25/2020									
10/7/2020									
2/8/2021									
2/9/2021	<0.1	<0.1	<0.1	<0.1	0.092 (J)		<0.1		
2/10/2021									<0.1
2/11/2021									
2/12/2021									
3/1/2021								<0.1	

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 4/26/2023 11:21 AM View: Appendix III
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWC-23S	YGWA-21I (bg)	YGWA-17S (bg)	YGWC-24SB	YGWA-47 (bg)	YGWC-42
3/2/2021									
3/3/2021	<0.1	<0.1	<0.1			<0.1	<0.1		
3/4/2021				<0.1	0.091 (J)				<0.1
8/19/2021								<0.1	
8/20/2021									
8/25/2021				<0.1					<0.1
8/26/2021		<0.1							
8/27/2021	<0.1		<0.1			<0.1			
9/1/2021					0.11		<0.1		
9/3/2021									
9/27/2021									
2/8/2022								<0.1	
2/9/2022	<0.1	<0.1	<0.1		0.1	<0.1			
2/10/2022				<0.1			<0.1		<0.1
2/11/2022									
8/30/2022	<0.1	<0.1			0.1	<0.1			
8/31/2022			<0.1					0.065 (J)	
9/1/2022				0.057 (J)					0.053 (J)
2/7/2023	<0.1	<0.1	<0.1		0.1	<0.1			
2/8/2023				<0.1				0.077 (J)	0.08 (J)
2/9/2023									
2/10/2023							0.051 (J)		

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 4/26/2023 11:21 AM View: Appendix III
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43	GWA-2 (bg)	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-38	YGWC-41	YGWA-40 (bg)
6/1/2016									
6/2/2016									
6/6/2016									
6/7/2016									
6/8/2016									
7/25/2016									
7/26/2016									
7/27/2016									
7/28/2016									
8/1/2016									
8/30/2016									
8/31/2016	0.12 (J)	0.14 (J)							
9/1/2016			0.09 (J)						
9/2/2016				0.05 (J)					
9/13/2016									
9/14/2016					0.08 (J)				
9/15/2016									
9/16/2016									
9/19/2016									
9/20/2016									
11/1/2016									
11/2/2016									
11/3/2016									
11/4/2016					<0.1				
11/8/2016									
11/14/2016				0.18 (J)					
11/15/2016			0.16 (J)						
11/16/2016	0.2 (J)								
11/28/2016		0.12 (J)							
12/15/2016					0.06 (J)				
1/10/2017									
1/11/2017									
1/12/2017									
1/13/2017									
1/16/2017					0.1 (J)				
1/17/2017									
2/21/2017									
2/22/2017		0.09 (J)							
2/24/2017	0.21 (J)								
2/27/2017			0.06 (J)						
2/28/2017				0.09 (J)					
3/1/2017									
3/2/2017									
3/3/2017					<0.1				
3/6/2017									
3/7/2017									
3/8/2017									
3/9/2017									
4/26/2017									
4/27/2017									
4/28/2017					0.06 (J)				
5/1/2017									

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 4/26/2023 11:21 AM View: Appendix III
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43	GWA-2 (bg)	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-38	YGWC-41	YGWA-40 (bg)
5/2/2017									
5/8/2017		0.05 (J)							
5/9/2017			0.05 (J)	0.009 (J)					
5/10/2017	0.04 (J)								
5/26/2017					0.09 (J)				
6/27/2017									
6/28/2017					0.11 (J)				
6/29/2017									
6/30/2017									
7/7/2017									
7/10/2017									
7/11/2017	0.2 (J)								
7/13/2017			<0.1	<0.1					
7/17/2017		0.14 (J)							
9/22/2017				0.09 (J)					
9/29/2017				<0.1					
10/3/2017					<0.1				
10/4/2017									
10/5/2017									
10/6/2017				<0.1					
10/10/2017									
10/11/2017			0.14 (J)	<0.1		<0.1			
10/12/2017	0.1 (J)						<0.1	<0.1	<0.1
10/16/2017		0.12 (J)							
11/20/2017						<0.1	0.2 (J)		<0.1
11/21/2017								<0.1	
1/10/2018									<0.1
1/11/2018						<0.1		<0.1	
1/12/2018							0.21 (J)		
2/19/2018		0.17						<0.1	<0.1
2/20/2018						0.23	<0.1		
3/27/2018									
3/28/2018					0.31				
3/29/2018									
3/30/2018				<0.1					
4/2/2018									
4/3/2018						<0.1	0.41	<0.1	<0.1
4/4/2018	<0.1		<0.1						
6/5/2018									
6/6/2018									
6/7/2018					0.11 (J)				
6/8/2018									
6/11/2018									
6/12/2018									
6/13/2018				<0.1					
6/27/2018								<0.1	
6/28/2018						<0.1	0.43		<0.1
8/6/2018		0.087 (J)							
8/7/2018						0.048 (J)	<0.1	0.11 (J)	<0.1
9/19/2018									
9/20/2018	<0.1		<0.1						
9/24/2018						<0.1	0.034 (J)	<0.1	<0.1

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 4/26/2023 11:21 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43	GWA-2 (bg)	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-38	YGWC-41	YGWA-40 (bg)
9/25/2018									
9/26/2018				<0.1					
9/27/2018									
10/1/2018					<0.1				
10/2/2018									
2/25/2019		0.14 (J)							
2/26/2019									
2/27/2019					0.12 (J)				
3/4/2019									
3/5/2019									
3/6/2019				<0.1					
3/26/2019									<0.1
3/27/2019						<0.1	0.24 (J)		
3/28/2019	0.078 (J)		<0.1					0.1 (J)	
3/29/2019					0.13 (J)				
4/1/2019									
4/2/2019									
4/3/2019									
4/4/2019				0.043 (J)					
6/12/2019		0.12 (J)							
8/19/2019		<0.1							
8/20/2019									
8/21/2019	0.062 (J)					<0.1			<0.1
8/22/2019							<0.1	<0.1	
9/24/2019					0.081 (J)				
9/25/2019									
9/26/2019			0.09 (J)	0.094 (J)					
9/27/2019									
10/8/2019		0.052 (J)							
10/9/2019	<0.1					<0.1	<0.1	<0.1	<0.1
2/10/2020									
2/11/2020					0.075 (J)				
2/12/2020						<0.1			<0.1
3/17/2020		0.053 (J)							
3/18/2020									
3/19/2020					0.093 (J)				
3/24/2020									<0.1
3/25/2020	0.073 (J)		<0.1	<0.1		<0.1	<0.1	<0.1	
3/26/2020									
8/26/2020		0.068 (J)							
8/27/2020									
9/22/2020		0.058 (J)							
9/23/2020					0.08 (J)				
9/24/2020			<0.1			<0.1			<0.1
9/25/2020	<0.1						<0.1	<0.1	
10/7/2020				<0.1					
2/8/2021									
2/9/2021	0.058 (J)		<0.1				<0.1		
2/10/2021				<0.1	0.094 (J)	<0.1		<0.1	<0.1
2/11/2021									
2/12/2021									
3/1/2021									

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 4/26/2023 11:21 AM View: Appendix III
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43	GWA-2 (bg)	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-38	YGWC-41	YGWA-40 (bg)
3/2/2021		0.073 (J)							
3/3/2021					0.085 (J)				
3/4/2021	0.063 (J)		<0.1	<0.1		<0.1	<0.1	<0.1	<0.1
8/19/2021									
8/20/2021		0.06 (J)							
8/25/2021									
8/26/2021						0.063 (J)	<0.1	<0.1	
8/27/2021					0.12				
9/1/2021			<0.1						
9/3/2021				<0.1					<0.1
9/27/2021	0.1								
2/8/2022	0.066 (J)	0.064 (J)	<0.1			0.052 (J)		<0.1	<0.1
2/9/2022					0.094 (J)				
2/10/2022							<0.1		
2/11/2022				<0.1					
8/30/2022		0.086 (J)			0.12				
8/31/2022			<0.1			0.065 (J)			0.05 (J)
9/1/2022	0.091 (J)			<0.1			<0.1	<0.1	
2/7/2023		0.095 (J)			0.12	0.076 (J)			
2/8/2023	0.11						<0.1	<0.1	<0.1
2/9/2023			<0.1	<0.1					
2/10/2023									

Prediction Limit

Constituent: pH (S.U.) Analysis Run 4/26/2023 11:21 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	GWA-2 (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-30I (bg)	YGWA-14S (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-4I (bg)
2/27/2017									
2/28/2017									
3/1/2017		7.42							
3/2/2017			7.23	6.28					
3/3/2017									
3/6/2017									6.2
3/7/2017							5.66	7.43	
3/8/2017					5.41				
3/9/2017									
4/26/2017		7.4			5.56	5.02			
4/27/2017			6.99	6.09					
4/28/2017									
5/1/2017								7.22	6.21
5/2/2017							5.65		
5/8/2017	6.12								
5/9/2017									
5/10/2017									
5/26/2017									
6/27/2017			6.87	6.21			5.7	7.32	
6/28/2017		7.5							
6/29/2017									6.21
6/30/2017					5.72	5.39			
7/7/2017									
7/10/2017									
7/11/2017									
7/13/2017									
7/17/2017	6.03								
9/22/2017									
9/29/2017									
10/3/2017			6.81	5.98			5.79	7.48	
10/4/2017		7.45			5.87				
10/5/2017						5.49			6.16
10/6/2017									
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017	6.12								
11/20/2017									
11/21/2017									
1/10/2018									
1/11/2018									
1/12/2018									
2/19/2018	6.13								
2/20/2018									
3/27/2018				6.25	5.83	5.47			
3/28/2018		7.74							
3/29/2018			7.38				5.63	7.02	6.09
3/30/2018									
4/2/2018									
4/3/2018									
4/4/2018									
6/5/2018			7.16						

Prediction Limit

Constituent: pH (S.U.) Analysis Run 4/26/2023 11:21 AM View: Appendix III
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3D (bg)	YGWA-18S (bg)	YGWA-18I (bg)	YGWC-23S	YGWA-21I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWC-24SB	YGWC-42
2/27/2017									6.09
2/28/2017									
3/1/2017		5.41	5.94						
3/2/2017	7.68					5.54			
3/3/2017									
3/6/2017					6.34		5.63		
3/7/2017									
3/8/2017								5.62	
3/9/2017				5.56					
4/26/2017	7.45	5.4	5.99		6.32		5.66		
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017				5.61		5.47		5.46	
5/8/2017									
5/9/2017									
5/10/2017									5.79
5/26/2017									
6/27/2017									
6/28/2017	7.65	5.36	6						
6/29/2017					6.47	5.56	5.85		
6/30/2017									
7/7/2017								5.81	
7/10/2017				5.68					
7/11/2017									5.45
7/13/2017									
7/17/2017									
9/22/2017									
9/29/2017									
10/3/2017					6.56				
10/4/2017	7.49	5.32				5.57	5.83		
10/5/2017			6.11					5.45	
10/6/2017									
10/10/2017									
10/11/2017				5.46					
10/12/2017									5.48
10/16/2017									
11/20/2017									
11/21/2017									
1/10/2018									
1/11/2018									
1/12/2018									
2/19/2018									
2/20/2018									
3/27/2018									
3/28/2018	7.91	5.34	6.1			5.59			
3/29/2018					6.75		5.93		
3/30/2018				5.73				5.64	
4/2/2018									
4/3/2018									
4/4/2018									5.93
6/5/2018					6.09				

Prediction Limit

Constituent: pH (S.U.) Analysis Run 4/26/2023 11:21 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3D (bg)	YGWA-18S (bg)	YGWA-18I (bg)	YGWC-23S	YGWA-21I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWC-24SB	YGWC-42
6/6/2018							5.86		
6/7/2018	7.69		5.98						
6/8/2018									
6/11/2018		5.28				5.58			
6/12/2018				5.63				5.64	
6/13/2018									
6/27/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/20/2018									5.63
9/24/2018									
9/25/2018		4.86	5.81		6.67	5.59	5.84		
9/26/2018								5.61	
9/27/2018				5.47					
10/1/2018	7.39								
10/2/2018									
2/25/2019									
2/26/2019									
2/27/2019	7.55								
3/4/2019									
3/5/2019		5.26			7.22	5.48	6.07	5.72	
3/6/2019			5.99	5.84					
3/26/2019									
3/27/2019									5.57
3/28/2019									
3/29/2019									
4/1/2019	7.87								
4/2/2019					6.94	5.74			
4/3/2019		5.47	6.29				5.71		
4/4/2019				5.64				5.66	
6/12/2019									
8/19/2019									
8/20/2019									
8/21/2019									
8/22/2019									5.61
9/24/2019					6.87				
9/25/2019	7.64					5.49	5.86		
9/26/2019		5.2	6.04					5.52	
9/27/2019				5.77					
10/8/2019									
10/9/2019									5.5
2/10/2020									
2/11/2020		5.3	6.07			5.58			
2/12/2020	7.83				7.13		6		
3/17/2020									
3/18/2020									
3/19/2020	7.65								
3/24/2020		5.33	5.98		6.35	5.57	5.86		
3/25/2020									5.53
3/26/2020				5.69				5.51	

Prediction Limit

Constituent: pH (S.U.) Analysis Run 4/26/2023 11:21 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3D (bg)	YGWA-18S (bg)	YGWA-18I (bg)	YGWC-23S	YGWA-21I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWC-24SB	YGWC-42
5/6/2020									
8/26/2020									
8/27/2020									
9/22/2020									
9/23/2020	7.57	5.29 (D)	6.01 (D)			5.58 (D)		5.64	
9/24/2020				5.51	6.7 (D)		5.8 (D)		5.55
9/25/2020									
10/7/2020									
2/8/2021									
2/9/2021		5.43	6.12	5.61	6.95		5.86	5.69	
2/10/2021	7.81								5.65
2/11/2021									
2/12/2021									
3/1/2021									
3/2/2021									
3/3/2021	8.39	5.31	5.89			5.52	5.89	5.7	
3/4/2021				5.44	6.8				5.59
8/19/2021	5.34								
8/20/2021									
8/25/2021				5.46					6.73
8/26/2021		4.4							
8/27/2021			5.4			5.27	5.57		
9/1/2021					6.65			5.22	
9/3/2021									
9/27/2021									
2/8/2022									
2/9/2022	7.97	5.28	5.98		6.84	5.53	5.91		
2/10/2022				5.51				4.66	5.57
2/11/2022									
8/30/2022		5.18	5.82		6.58	4.68			
8/31/2022	7.65						5.38		
9/1/2022				5.27					5.49
2/7/2023		5.03	6		6.82	5.47	5.63		
2/8/2023	7.88			5.33					5.48
2/9/2023									
2/10/2023							5.67		

Prediction Limit

Constituent: pH (S.U.) Analysis Run 4/26/2023 11:21 AM View: Appendix III
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-47 (bg)	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-38	YGWA-40 (bg)	YGWC-41
8/27/2008									
3/3/2009									
11/18/2009									
3/3/2010									
3/10/2011									
9/8/2011									
3/5/2012									
9/10/2012									
2/6/2013									
8/12/2013									
2/5/2014									
8/3/2015									
2/16/2016									
6/1/2016									
6/2/2016									
6/6/2016									
6/7/2016									
6/8/2016									
7/25/2016									
7/26/2016									
7/27/2016									
7/28/2016									
8/1/2016									
8/30/2016	5.75								
8/31/2016		7.27							
9/1/2016			5.78						
9/2/2016				5.84					
9/13/2016					7.41				
9/14/2016									
9/15/2016									
9/16/2016									
9/19/2016									
9/20/2016									
11/1/2016									
11/2/2016									
11/3/2016									
11/4/2016					7.12				
11/8/2016									
11/14/2016	5.59			6.28					
11/15/2016			5.81						
11/16/2016		6.79							
11/28/2016									
12/15/2016					7.24				
1/10/2017									
1/11/2017									
1/12/2017									
1/13/2017									
1/16/2017					7.24				
1/17/2017									
2/21/2017									
2/22/2017									
2/24/2017	5.49	6.39							

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/26/2023 11:21 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-5D (bg)	YGWA-30I (bg)	YGWA-14S (bg)	YGWA-5I (bg)	YGWA-4I (bg)	YGWA-3D (bg)
6/1/2016	12	4.2	5						
6/2/2016				20	1.3	6.6	1.9	8	5.8
6/6/2016									
6/7/2016									
6/8/2016									
7/25/2016	8.4	3.7			1.2				
7/26/2016			5.4	20		6.1	1.8	7.7	6.7
7/27/2016									
7/28/2016									
8/1/2016									
8/30/2016									
8/31/2016									
9/1/2016									
9/2/2016									
9/13/2016		5.2	2.9						
9/14/2016	8.6			19			1.8	7.5	
9/15/2016						6.1			6
9/16/2016									
9/19/2016					1.2				
9/20/2016									
11/1/2016	8.9		3.9		1.3				4.9
11/2/2016				20		6.3		8.2	
11/3/2016									
11/4/2016		5					2		
11/8/2016									
11/14/2016									
11/15/2016									
11/16/2016									
11/28/2016									
12/15/2016									
1/10/2017						5.9			
1/11/2017	8.6		3.7						4.5
1/12/2017				19			1.9		
1/13/2017								8.1	
1/16/2017		7.9			<1				
1/17/2017									
2/21/2017					1.4				
2/22/2017									
2/24/2017									
2/27/2017									
2/28/2017									
3/1/2017	9.3								
3/2/2017		7.4	4.6						4.4
3/3/2017									
3/6/2017								8	
3/7/2017				20			2.1		
3/8/2017						7			
3/9/2017									
4/26/2017	11				1.4	7			5.1
4/27/2017		7.4	5.2						
4/28/2017									
5/1/2017				20				8.4	

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/26/2023 11:21 AM View: Appendix III
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-5D (bg)	YGWA-30I (bg)	YGWA-14S (bg)	YGWA-5I (bg)	YGWA-4I (bg)	YGWA-3D (bg)
5/2/2017							2		
5/8/2017									
5/9/2017									
5/10/2017									
5/26/2017									
6/27/2017		6.4	5.9	18			2.1		
6/28/2017	12								5.4
6/29/2017								9.2	
6/30/2017					<1	6.5			
7/7/2017									
7/10/2017									
7/11/2017									
7/13/2017									
7/17/2017									
9/22/2017									
9/29/2017									
10/3/2017		5.9	6.6	16			2.3		
10/4/2017	12				1.4				6.2
10/5/2017						7.9		9.6	
10/6/2017									
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
11/21/2017									
1/10/2018									
1/11/2018									
1/12/2018									
2/19/2018									
2/20/2018									
4/2/2018									
4/3/2018									
4/4/2018									
6/5/2018			6.4						
6/6/2018		4.4		8.3					
6/7/2018							2	8.5	6.7
6/8/2018	9.6					6.4			
6/11/2018					1.1				
6/12/2018									
6/13/2018									
6/27/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/20/2018									
9/24/2018									
9/25/2018									
9/26/2018				7.9			2.3	10.2	
9/27/2018									
10/1/2018	9.1	4	5.6			6.8			7.1

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/26/2023 11:21 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWC-23S	YGWC-24SB	YGWC-42	YGWA-47 (bg)
6/1/2016									
6/2/2016									
6/6/2016	1.8	1.2							
6/7/2016			4.4	<1	5.2	56			
6/8/2016							<1		
7/25/2016									
7/26/2016									
7/27/2016	1.9	1.7	4.7	0.08 (J)					
7/28/2016					5.1	57			
8/1/2016							1.1		
8/30/2016								980	160
8/31/2016									
9/1/2016									
9/2/2016									
9/13/2016									
9/14/2016									
9/15/2016									
9/16/2016	1.7		4.8						
9/19/2016		1.8		0.08 (J)	4.8				
9/20/2016						68	0.38 (J)		
11/1/2016									
11/2/2016				0.1 (J)					
11/3/2016	1.9	0.69 (J)	5.3		5				
11/4/2016									
11/8/2016						79	0.39 (J)		
11/14/2016									150
11/15/2016									
11/16/2016								940	
11/28/2016									
12/15/2016									
1/10/2017									
1/11/2017	1.7	<1	5.2						
1/12/2017									
1/13/2017				<1	4.3				
1/16/2017						72			
1/17/2017							<1		
2/21/2017									
2/22/2017									
2/24/2017									120
2/27/2017								940	
2/28/2017									
3/1/2017	<1	1.8							
3/2/2017			5						
3/3/2017									
3/6/2017				<1	4.5				
3/7/2017									
3/8/2017							0.29 (J)		
3/9/2017						69			
4/26/2017	1.9	1.6		<1	4.9				
4/27/2017									
4/28/2017									
5/1/2017									

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/26/2023 11:21 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWC-23S	YGWC-24SB	YGWC-42	YGWA-47 (bg)
5/2/2017			5			60	0.29 (J)		
5/8/2017									120
5/9/2017									
5/10/2017								1200	
5/26/2017									
6/27/2017									
6/28/2017	<1	<1							
6/29/2017			5.2	<1	5.5				
6/30/2017									
7/7/2017							0.37 (J)		
7/10/2017						57			
7/11/2017								1300	110
7/13/2017									
7/17/2017									
9/22/2017									
9/29/2017									
10/3/2017					5.8				
10/4/2017	1.7		5.3	<1					
10/5/2017		1.6					<1		
10/6/2017									
10/10/2017									93
10/11/2017						52			
10/12/2017								1100	
10/16/2017									
11/20/2017									
11/21/2017									
1/10/2018									
1/11/2018									
1/12/2018									
2/19/2018									
2/20/2018									
4/2/2018									88.8
4/3/2018									
4/4/2018								1020	
6/5/2018					6.1				
6/6/2018				0.049 (J)					
6/7/2018		0.68 (J)							
6/8/2018									
6/11/2018	0.95 (J)		5.2						
6/12/2018						41.4	0.35 (J)		
6/13/2018									
6/27/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									75
9/20/2018								810	
9/24/2018									
9/25/2018	1.5	1	6.1	0.13 (J)	7				
9/26/2018							0.28 (J)		
9/27/2018						39.6			
10/1/2018									

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/26/2023 11:21 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWC-23S	YGWC-24SB	YGWC-42	YGWA-47 (bg)
10/2/2018									
2/25/2019									
3/26/2019									
3/27/2019								831	65.9
3/28/2019									
3/29/2019									
4/1/2019									
4/2/2019			5.1		3.8				
4/3/2019	1.3	0.82 (J)		0.12 (J)					
4/4/2019						27.9	0.29 (J)		
6/12/2019									
9/24/2019					1				
9/25/2019			5.5	<1					
9/26/2019	1	0.64 (J)					0.23 (J)		
9/27/2019						30.3			
10/8/2019									52.3
10/9/2019								725	
3/17/2020									71.6
3/18/2020									
3/19/2020									
3/24/2020	0.99 (J)	<1	5.4	<1	3				
3/25/2020								642	
3/26/2020						36.5	<1		
9/22/2020									51.5
9/23/2020	1.1	0.53 (J)	5.1				<1		
9/24/2020				<1	3.6	52.5		579	
9/25/2020									
10/7/2020									
3/1/2021									51.6
3/2/2021									
3/3/2021	1	<1	5.2	<1			<1		
3/4/2021					4.5	61.7 (M1)		537	
8/19/2021									52.6
8/20/2021									
8/25/2021						68		500	
8/26/2021	1.2								
8/27/2021		0.59 (J)	5.3	<1					
9/1/2021					5		<1		
9/3/2021									
9/27/2021									
2/8/2022									50.9
2/9/2022	1.1	0.51 (J)	4.8	<1	3.9				
2/10/2022						78.7	<1	485	
2/11/2022									
8/30/2022	1.3	0.78 (J)	4.7		3.2				
8/31/2022				<1					48
9/1/2022						79		502	
2/7/2023	1.2	0.78 (J)	4.9	<1	3.8				
2/8/2023						78		494	50.5
2/9/2023									
2/10/2023							0.5 (J)		

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/26/2023 11:21 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	GWA-2 (bg)	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-41	YGWC-38	YGWA-40 (bg)
5/2/2017									
5/8/2017	60								
5/9/2017			91	130					
5/10/2017		100							
5/26/2017					12				
6/27/2017									
6/28/2017					11				
6/29/2017									
6/30/2017									
7/7/2017									
7/10/2017									
7/11/2017		110							
7/13/2017			88	140					
7/17/2017	63								
9/22/2017				160					
9/29/2017				160					
10/3/2017					7.9				
10/4/2017									
10/5/2017									
10/6/2017				160					
10/10/2017									
10/11/2017			86	150		20			
10/12/2017		120					400	940	17
10/16/2017	62								
11/20/2017					24		980		71
11/21/2017							430		
1/10/2018									66
1/11/2018					23		390		
1/12/2018								880	
2/19/2018	64.6						414		57.2
2/20/2018						20.6		905	
4/2/2018									
4/3/2018						24.5	406	872	49.4
4/4/2018		160	76.5						
6/5/2018									
6/6/2018									
6/7/2018					8.8				
6/8/2018									
6/11/2018									
6/12/2018									
6/13/2018				144					
6/27/2018							357		
6/28/2018						22		869	43.8
8/6/2018	42.1								
8/7/2018						20.7	346	879	40.5
9/19/2018									
9/20/2018		247	84.1						
9/24/2018						21.2	358	872	39.7
9/25/2018									
9/26/2018				160					
9/27/2018									
10/1/2018					9.1				

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/26/2023 11:21 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-5D (bg)	YGWA-30I (bg)	YGWA-14S (bg)	YGWA-5I (bg)	YGWA-4I (bg)	YGWA-3D (bg)
6/1/2016	150	54	120						
6/2/2016				160	36	46	66	96	130
6/6/2016									
6/7/2016									
6/8/2016									
7/25/2016	135	48			50				
7/26/2016			94	177		54	78	92	141
7/27/2016									
7/28/2016									
8/1/2016									
8/30/2016									
8/31/2016									
9/1/2016									
9/2/2016									
9/13/2016		67	105						
9/14/2016	127			187			73	102	
9/15/2016						54			153
9/16/2016									
9/19/2016					35				
9/20/2016									
11/1/2016	75		44		<25				92
11/2/2016				181		71		115	
11/3/2016									
11/4/2016		60					75		
11/8/2016									
11/14/2016									
11/15/2016									
11/16/2016									
11/28/2016									
12/15/2016									
1/10/2017						45			
1/11/2017	148		107						159
1/12/2017				202			86		
1/13/2017								67	
1/16/2017		65			47				
1/17/2017									
2/21/2017					<25				
2/22/2017									
2/24/2017									
2/27/2017									
2/28/2017									
3/1/2017	182								
3/2/2017		61	98						117
3/3/2017									
3/6/2017								159	
3/7/2017				257			108		
3/8/2017						178			
3/9/2017									
4/26/2017	92				55	52			181
4/27/2017		31	116						
4/28/2017									
5/1/2017				165				107	

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/26/2023 11:21 AM View: Appendix III
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-5D (bg)	YGWA-30I (bg)	YGWA-14S (bg)	YGWA-5I (bg)	YGWA-4I (bg)	YGWA-3D (bg)
5/2/2017							103		
5/8/2017									
5/9/2017									
5/10/2017									
5/26/2017									
6/27/2017		42	89	189			73		
6/28/2017	126								169
6/29/2017								79	
6/30/2017					42	45			
7/7/2017									
7/10/2017									
7/11/2017									
7/13/2017									
7/17/2017									
9/22/2017									
9/29/2017									
10/3/2017		58	119	170			89		
10/4/2017	147				31				141
10/5/2017						40		95	
10/6/2017									
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
11/21/2017									
1/10/2018									
1/11/2018									
1/12/2018									
2/19/2018									
2/20/2018									
4/2/2018									
4/3/2018									
4/4/2018									
6/5/2018			127						
6/6/2018		96		151					
6/7/2018							142	90	95
6/8/2018	158					114			
6/11/2018					59				
6/12/2018									
6/13/2018									
6/27/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/20/2018									
9/24/2018									
9/25/2018									
9/26/2018				144			86	116	
9/27/2018									
10/1/2018	138	60	117			50			165

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/26/2023 11:21 AM View: Appendix III
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWC-23S	YGWC-24SB	YGWC-42	YGWA-47 (bg)
10/2/2018									
2/25/2019									
3/26/2019									
3/27/2019								1100	170
3/28/2019									
3/29/2019									
4/1/2019									
4/2/2019			72		134				
4/3/2019	63	89		57					
4/4/2019						85	63		
6/12/2019									
9/24/2019					157				
9/25/2019			81	75					
9/26/2019	72	126					81		
9/27/2019						96			
10/8/2019									172
10/9/2019								1170	
3/17/2020									165
3/18/2020									
3/19/2020									
3/24/2020	59	91	71	76	117				
3/25/2020								1200	
3/26/2020						110	67		
9/22/2020									141
9/23/2020	81	103	99				87		
9/24/2020				69	113	129		1060	
9/25/2020									
10/7/2020									
3/1/2021									145
3/2/2021									
3/3/2021	37	95	57	53			70		
3/4/2021					110	96		501	
8/19/2021									134
8/20/2021									
8/25/2021						141		886	
8/26/2021	31								
8/27/2021		112	93	67					
9/1/2021					137		96		
9/3/2021									
9/27/2021									
2/8/2022									151
2/9/2022	60	103	81	72	131				
2/10/2022						180	78	882	
2/11/2022									
8/30/2022	52	100	81		122				
8/31/2022				62					116
9/1/2022						191		934	
2/7/2023	55	96	78	89	163				
2/8/2023						158		853	141
2/9/2023									
2/10/2023							66		

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/26/2023 11:21 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	GWA-2 (bg)	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-41	YGWC-38	YGWA-40 (bg)
5/2/2017									
5/8/2017	145								
5/9/2017			154	303					
5/10/2017		203							
5/26/2017					223				
6/27/2017									
6/28/2017					166				
6/29/2017									
6/30/2017									
7/7/2017									
7/10/2017									
7/11/2017		238							
7/13/2017			192	282					
7/17/2017	185								
9/22/2017				309					
9/29/2017				273					
10/3/2017					153				
10/4/2017									
10/5/2017									
10/6/2017				287					
10/10/2017									
10/11/2017			177	264		68			
10/12/2017		287					636	1360	74
10/16/2017	218								
11/20/2017						139		1390	179
11/21/2017							706		
1/10/2018									140
1/11/2018						153	701		
1/12/2018								1400	
2/19/2018	173						630		119
2/20/2018						87		1300	
4/2/2018									
4/3/2018						85	660	1390	106
4/4/2018		292	174						
6/5/2018									
6/6/2018									
6/7/2018					146				
6/8/2018									
6/11/2018									
6/12/2018									
6/13/2018				292					
6/27/2018							575		
6/28/2018						88		1310	112
8/6/2018	158								
8/7/2018						89	574	1340	103
9/19/2018									
9/20/2018		434	186						
9/24/2018						82	588	1400	107
9/25/2018									
9/26/2018				277					
9/27/2018									
10/1/2018					155				

FIGURE E.

Appendix III Trend Tests - Significant Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 4/26/2023, 11:26 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	YGWA-39 (bg)	0.0181	75	63	Yes	17	5.882	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-40 (bg)	-0.01412	-91	-63	Yes	17	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-38	-3.533	-114	-63	Yes	17	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-41	-2.235	-96	-63	Yes	17	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-42	-1.379	-87	-63	Yes	17	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-43	0.506	86	63	Yes	17	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-47 (bg)	-0.0007791	-66	-63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-17S (bg)	0.137	126	81	Yes	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-18S (bg)	-0.07974	-131	-81	Yes	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-211 (bg)	0.7925	98	81	Yes	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-39 (bg)	1.642	69	63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-5D (bg)	-1.44	-101	-81	Yes	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-5I (bg)	0.06857	92	81	Yes	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWC-38	-27.66	-122	-63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWC-42	-11.48	-98	-63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-47 (bg)	-1.172	-111	-63	Yes	17	5.882	n/a	n/a	0.01	NP
Calcium (mg/L)	GWA-2 (bg)	2.992	85	68	Yes	18	5.556	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-1D (bg)	0.5761	98	81	Yes	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-1I (bg)	-0.08713	-95	-81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-18I (bg)	-0.1242	-93	-81	Yes	20	20	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-39 (bg)	-2.618	-90	-63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-40 (bg)	-8.078	-103	-63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-5D (bg)	-2.638	-144	-81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-5I (bg)	0.1006	134	81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWC-38	-141.8	-125	-63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWC-42	-98.05	-101	-63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-47 (bg)	-15.39	-121	-63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-2 (bg)	14.48	88	68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-1D (bg)	0.9678	140	81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-3D (bg)	0.3151	105	81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-3I (bg)	0.9326	99	81	Yes	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-211 (bg)	11.42	85	81	Yes	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-39 (bg)	29.24	74	63	Yes	17	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-5D (bg)	-11.59	-90	-81	Yes	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWC-38	-191	-100	-63	Yes	17	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWC-41	-106.7	-106	-63	Yes	17	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWC-42	-136.8	-102	-63	Yes	17	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWC-43	57.74	76	63	Yes	17	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-47 (bg)	-13.38	-101	-63	Yes	17	0	n/a	n/a	0.01	NP

Appendix III Trend Tests - All Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 4/26/2023, 11:26 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	YGWA-17S (bg)	0.0003162	37	81	No	20	10	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-18I (bg)	0	-18	-81	No	20	80	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-18S (bg)	0.0004242	39	81	No	20	25	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-20S (bg)	0	-7	-81	No	20	90	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-21I (bg)	0	-48	-81	No	20	60	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-39 (bg)	0.0181	75	63	Yes	17	5.882	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-40 (bg)	-0.01412	-91	-63	Yes	17	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-4I (bg)	0	7	81	No	20	70	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-5D (bg)	0.0004226	48	81	No	20	15	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-5I (bg)	0	-18	-81	No	20	65	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-23S	0.01895	15	81	No	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-38	-3.533	-114	-63	Yes	17	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-41	-2.235	-96	-63	Yes	17	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-42	-1.379	-87	-63	Yes	17	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-43	0.506	86	63	Yes	17	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-47 (bg)	-0.0007791	-66	-63	Yes	17	0	n/a	n/a	0.01	NP
Boron (mg/L)	GWA-2 (bg)	0	29	68	No	18	66.67	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-14S (bg)	-0.0006705	-53	-81	No	20	10	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-1D (bg)	0.001404	46	81	No	20	40	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-1I (bg)	0	-3	-81	No	20	75	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-2I (bg)	0	-2	-81	No	20	80	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-30I (bg)	0	-16	-81	No	20	85	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-3D (bg)	0	8	81	No	20	60	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-3I (bg)	0	-15	-81	No	20	90	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-17S (bg)	0.137	126	81	Yes	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-18I (bg)	0.06151	41	81	No	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-18S (bg)	-0.07974	-131	-81	Yes	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-20S (bg)	0.03077	57	81	No	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-21I (bg)	0.7925	98	81	Yes	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-39 (bg)	1.642	69	63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-40 (bg)	-0.5174	-42	-63	No	17	5.882	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-4I (bg)	0.09322	24	81	No	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-5D (bg)	-1.44	-101	-81	Yes	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-5I (bg)	0.06857	92	81	Yes	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWC-38	-27.66	-122	-63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWC-42	-11.48	-98	-63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-47 (bg)	-1.172	-111	-63	Yes	17	5.882	n/a	n/a	0.01	NP
Calcium (mg/L)	GWA-2 (bg)	2.992	85	68	Yes	18	5.556	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-14S (bg)	0	4	81	No	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-1D (bg)	0.5761	98	81	Yes	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-1I (bg)	-0.08713	-95	-81	Yes	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-2I (bg)	0.0884	17	81	No	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-30I (bg)	0.01674	45	81	No	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-3D (bg)	0.3791	60	81	No	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-3I (bg)	0.5034	67	81	No	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-17S (bg)	0.02875	23	81	No	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-18I (bg)	-0.1242	-93	-81	Yes	20	20	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-18S (bg)	-0.1096	-55	-81	No	20	10	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-20S (bg)	0	48	81	No	20	70	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-21I (bg)	-0.2092	-55	-81	No	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-39 (bg)	-2.618	-90	-63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-40 (bg)	-8.078	-103	-63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-4I (bg)	0.07548	35	81	No	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-5D (bg)	-2.638	-144	-81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-5I (bg)	0.1006	134	81	Yes	20	0	n/a	n/a	0.01	NP

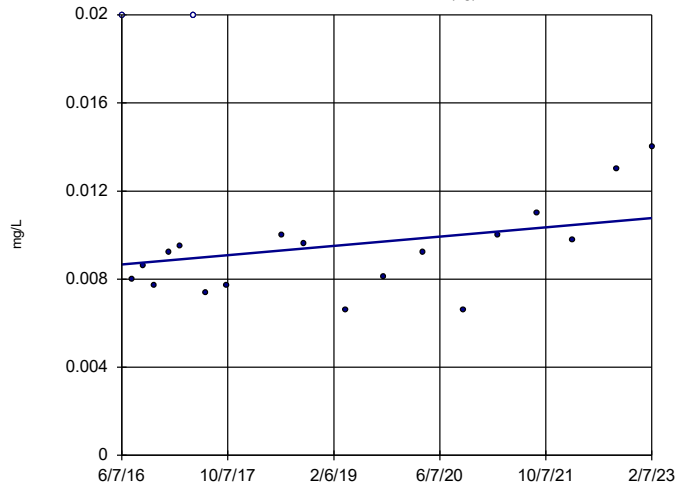
Appendix III Trend Tests - All Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 4/26/2023, 11:26 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Sulfate (mg/L)	YGWC-38	-141.8	-125	-63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWC-42	-98.05	-101	-63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWC-43	18.06	47	63	No	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-47 (bg)	-15.39	-121	-63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-2 (bg)	14.48	88	68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-14S (bg)	-0.02207	-14	-81	No	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-1D (bg)	0.9678	140	81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-1I (bg)	-0.04757	-9	-81	No	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-2I (bg)	1.209	77	81	No	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-30I (bg)	-0.03067	-23	-81	No	20	10	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-3D (bg)	0.3151	105	81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-3I (bg)	0.9326	99	81	Yes	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-17S (bg)	2.621	47	81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-18I (bg)	-1.319	-26	-81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-18S (bg)	0.3933	9	81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-20S (bg)	3.156	51	81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-21I (bg)	11.42	85	81	Yes	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-39 (bg)	29.24	74	63	Yes	17	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-40 (bg)	-7.039	-48	-63	No	17	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-4I (bg)	0.9669	14	81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-5D (bg)	-11.59	-90	-81	Yes	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-5I (bg)	-0.8043	-16	-81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWC-38	-191	-100	-63	Yes	17	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWC-41	-106.7	-106	-63	Yes	17	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWC-42	-136.8	-102	-63	Yes	17	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWC-43	57.74	76	63	Yes	17	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-47 (bg)	-13.38	-101	-63	Yes	17	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	GWA-2 (bg)	17.72	66	68	No	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-14S (bg)	0.3652	16	81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-1D (bg)	2.029	32	81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-1I (bg)	-1.086	-18	-81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-2I (bg)	-0.8152	-19	-81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-30I (bg)	1.488	24	81	No	20	10	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-3D (bg)	0.3218	7	81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-3I (bg)	0.862	9	81	No	20	0	n/a	n/a	0.01	NP

Sen's Slope Estimator

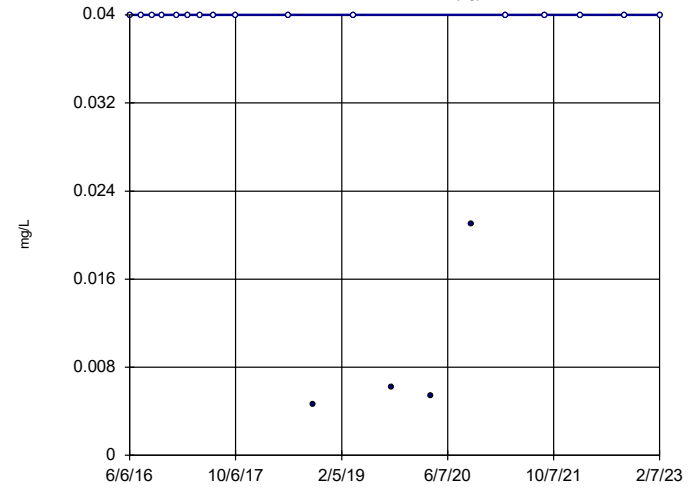
YGWA-17S (bg)



Constituent: Boron Analysis Run 4/26/2023 11:24 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

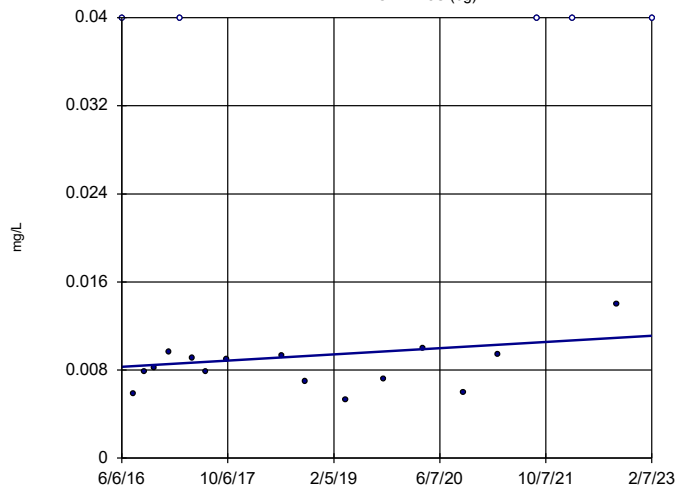
YGWA-18I (bg)



Constituent: Boron Analysis Run 4/26/2023 11:24 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

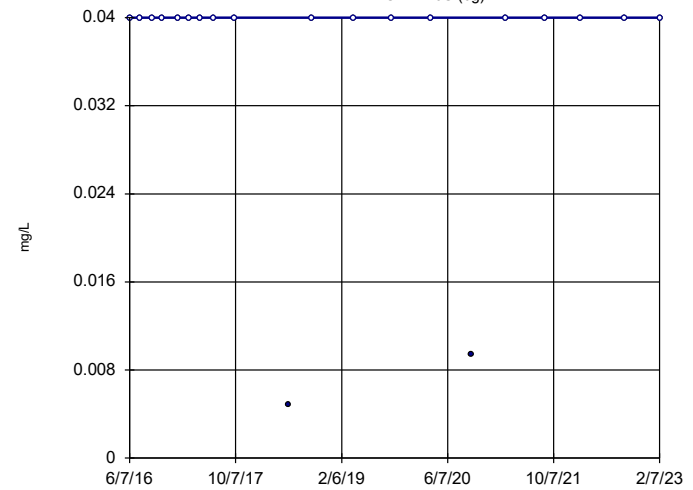
YGWA-18S (bg)



Constituent: Boron Analysis Run 4/26/2023 11:24 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

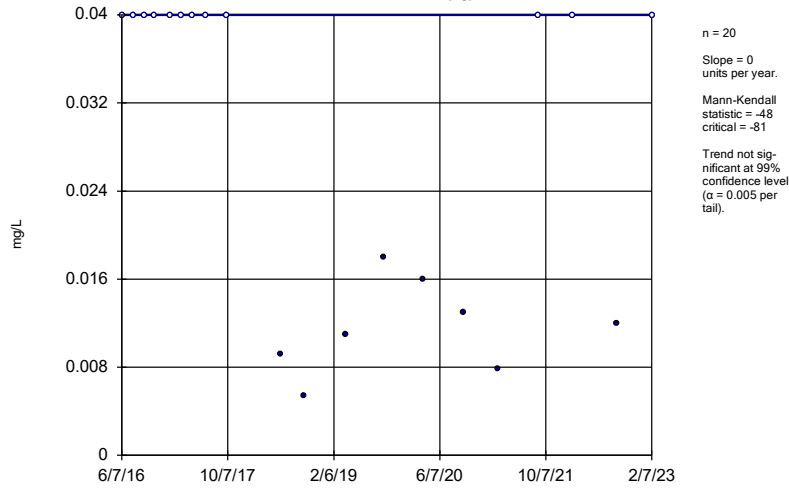
YGWA-20S (bg)



Constituent: Boron Analysis Run 4/26/2023 11:24 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

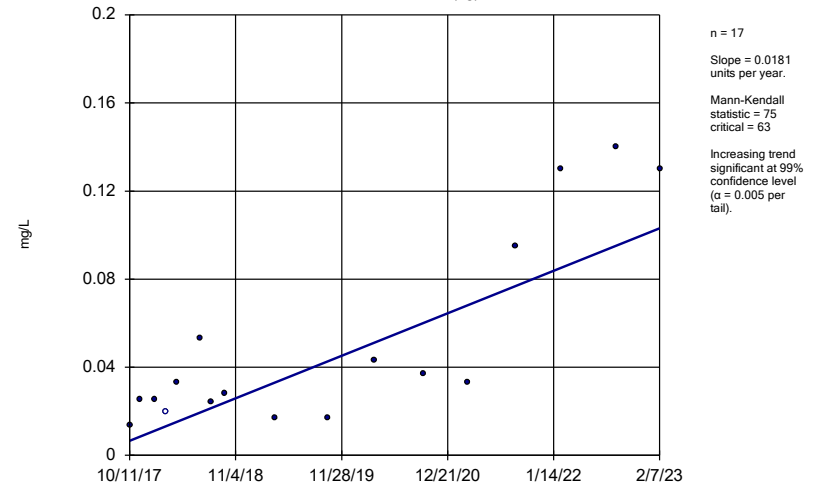
YGWA-21I (bg)



Constituent: Boron Analysis Run 4/26/2023 11:24 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

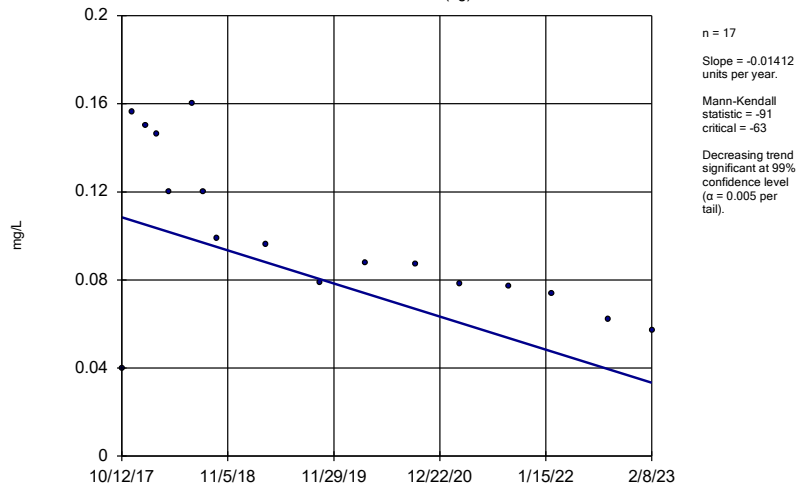
YGWA-39 (bg)



Constituent: Boron Analysis Run 4/26/2023 11:24 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

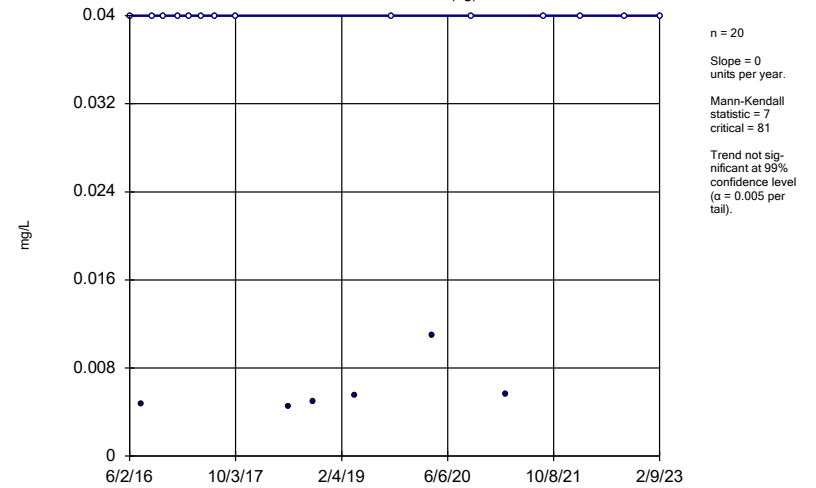
YGWA-40 (bg)



Constituent: Boron Analysis Run 4/26/2023 11:24 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

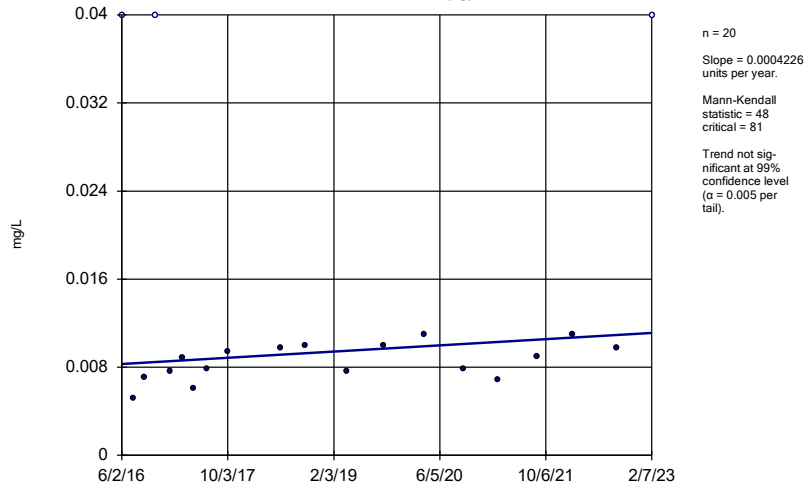
YGWA-4I (bg)



Constituent: Boron Analysis Run 4/26/2023 11:24 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

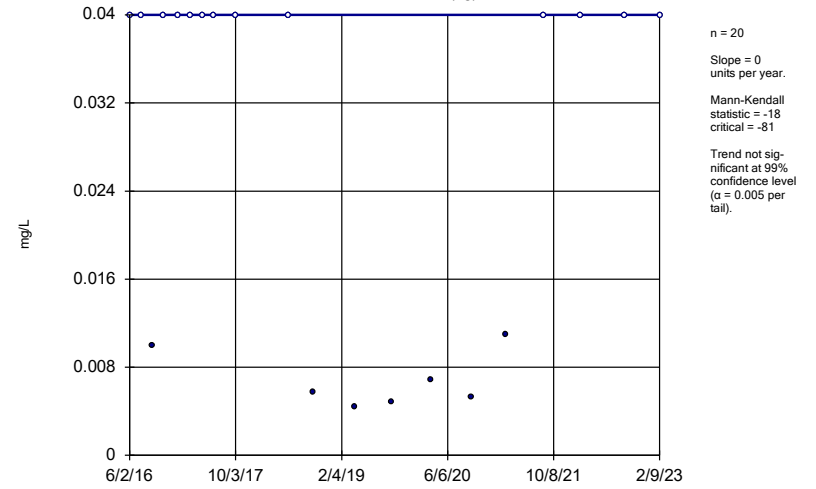
YGWA-5D (bg)



Constituent: Boron Analysis Run 4/26/2023 11:24 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

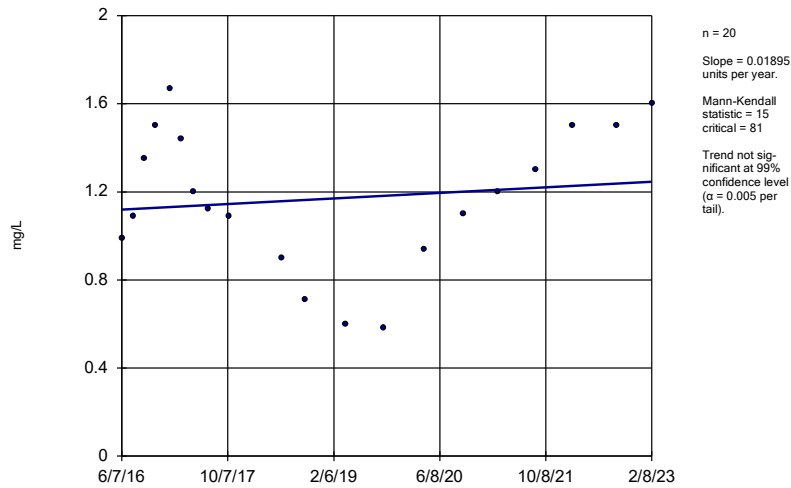
YGWA-5I (bg)



Constituent: Boron Analysis Run 4/26/2023 11:24 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

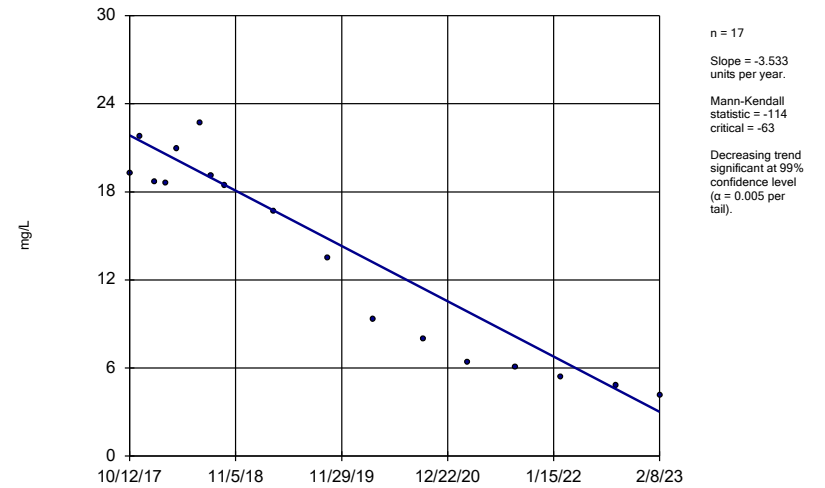
YGWC-23S



Constituent: Boron Analysis Run 4/26/2023 11:24 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

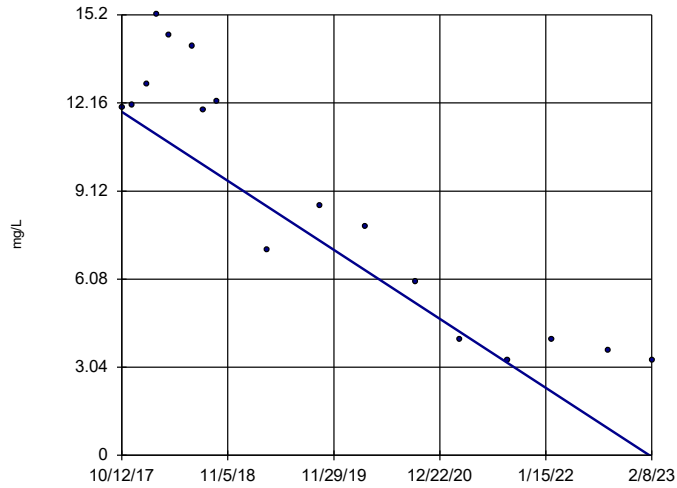
YGWC-38



Constituent: Boron Analysis Run 4/26/2023 11:24 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWC-41

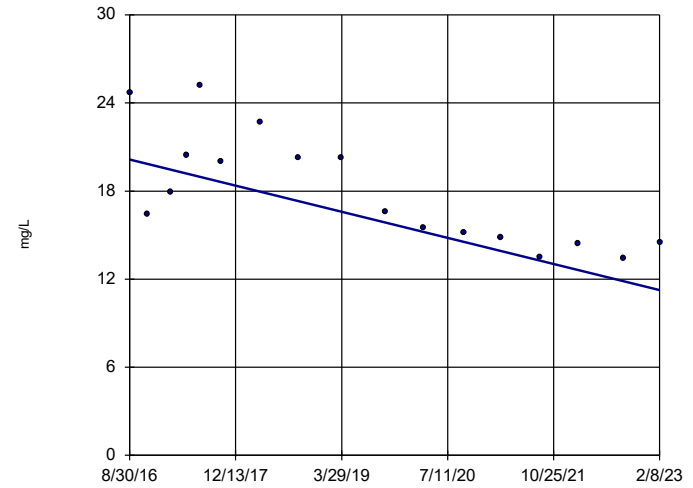


n = 17
 Slope = -2.235
 units per year.
 Mann-Kendall
 statistic = -96
 critical = -63
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron Analysis Run 4/26/2023 11:24 AM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWC-42

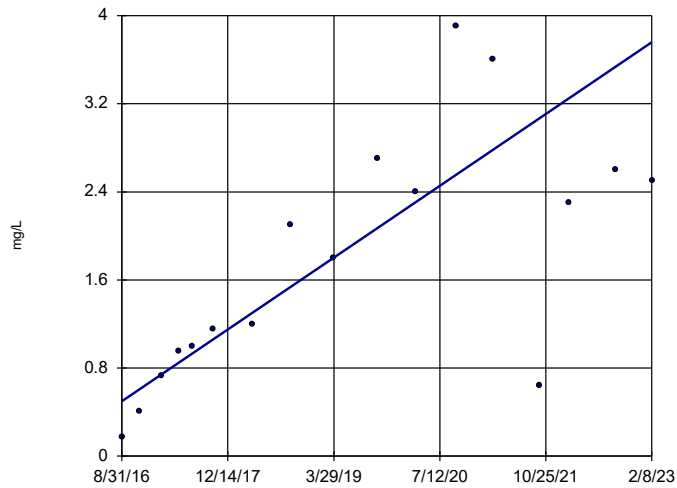


n = 17
 Slope = -1.379
 units per year.
 Mann-Kendall
 statistic = -87
 critical = -63
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron Analysis Run 4/26/2023 11:24 AM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWC-43

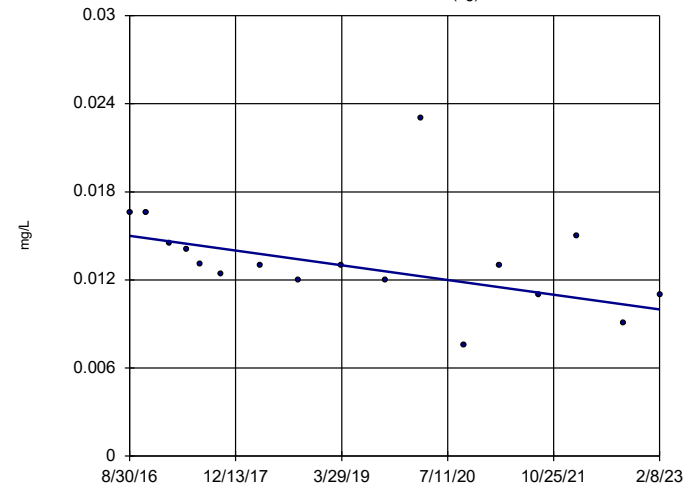


n = 17
 Slope = 0.506
 units per year.
 Mann-Kendall
 statistic = 86
 critical = 63
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron Analysis Run 4/26/2023 11:24 AM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-47 (bg)

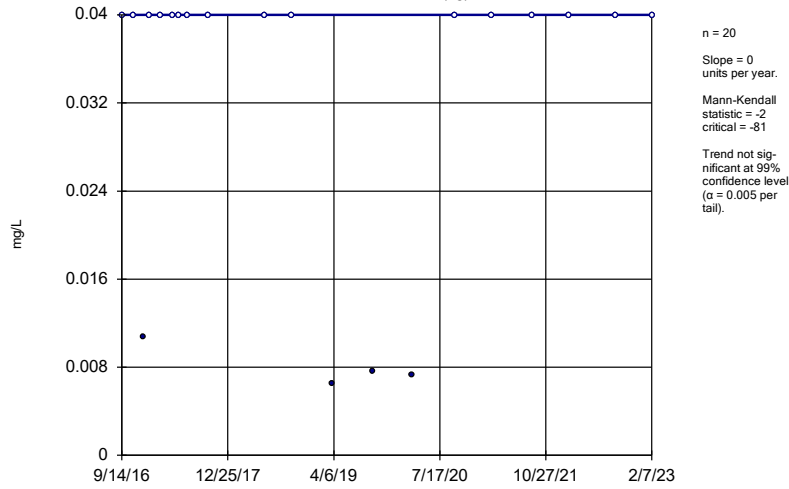


n = 17
 Slope = -0.0007791
 units per year.
 Mann-Kendall
 statistic = -66
 critical = -63
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron Analysis Run 4/26/2023 11:24 AM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

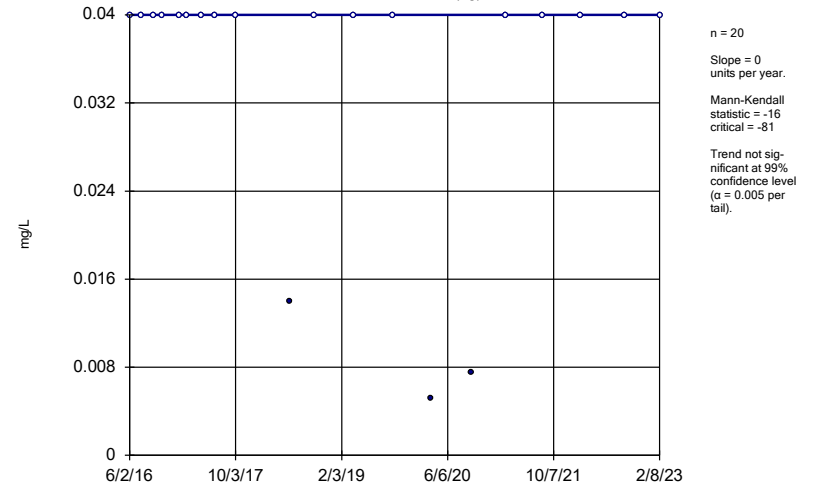
YGWA-2I (bg)



Constituent: Boron Analysis Run 4/26/2023 11:24 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

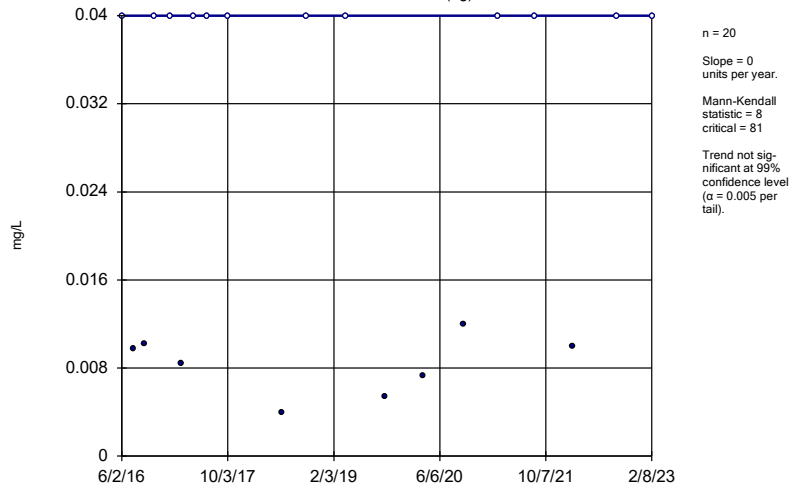
YGWA-30I (bg)



Constituent: Boron Analysis Run 4/26/2023 11:24 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

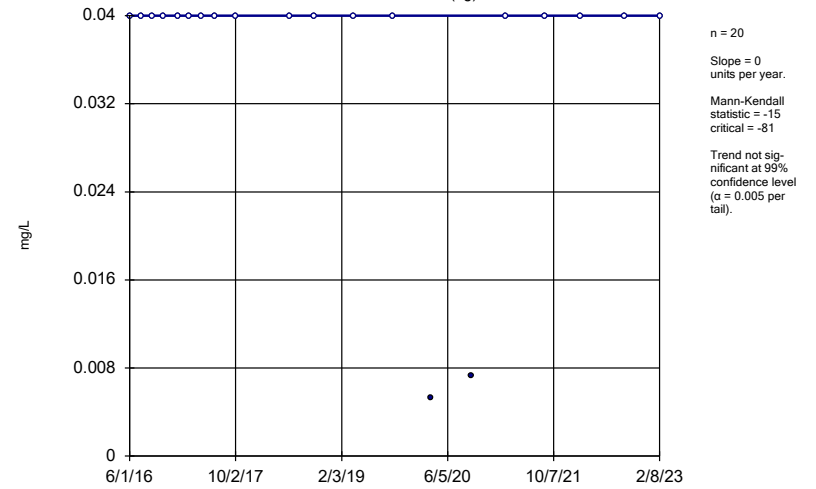
YGWA-3D (bg)



Constituent: Boron Analysis Run 4/26/2023 11:24 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

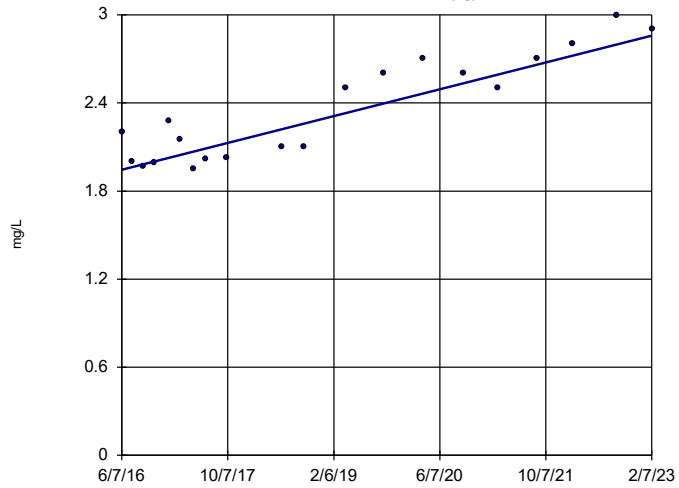
YGWA-3I (bg)



Constituent: Boron Analysis Run 4/26/2023 11:24 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

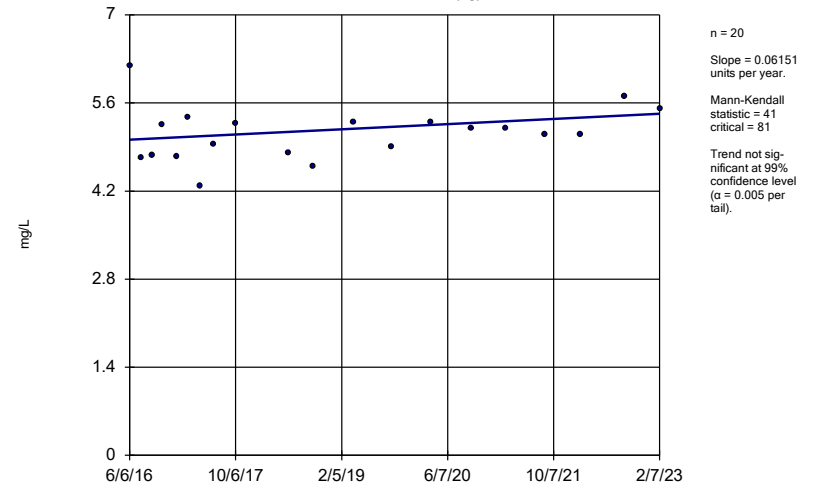
YGWA-17S (bg)



Constituent: Calcium Analysis Run 4/26/2023 11:24 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

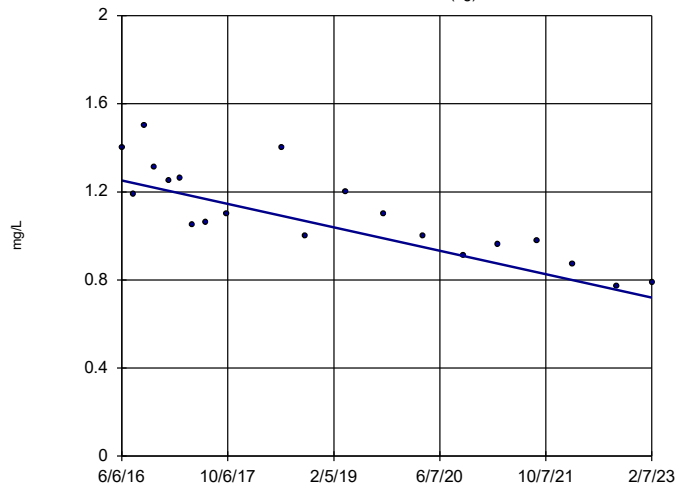
YGWA-18I (bg)



Constituent: Calcium Analysis Run 4/26/2023 11:24 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

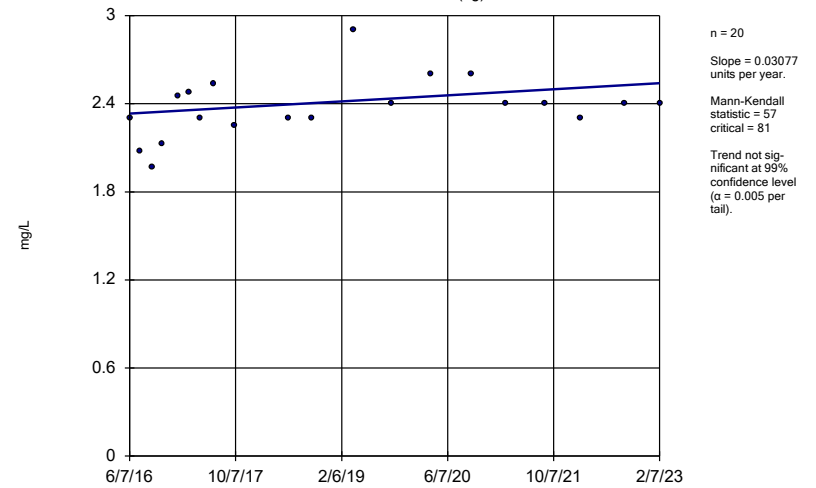
YGWA-18S (bg)



Constituent: Calcium Analysis Run 4/26/2023 11:24 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

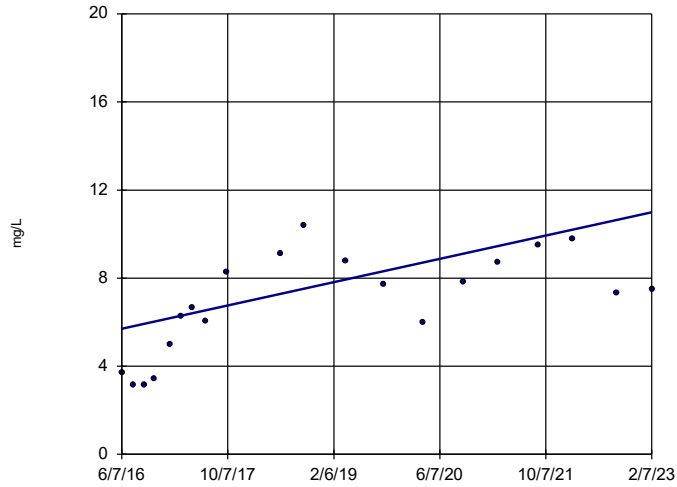
YGWA-20S (bg)



Constituent: Calcium Analysis Run 4/26/2023 11:24 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-21I (bg)

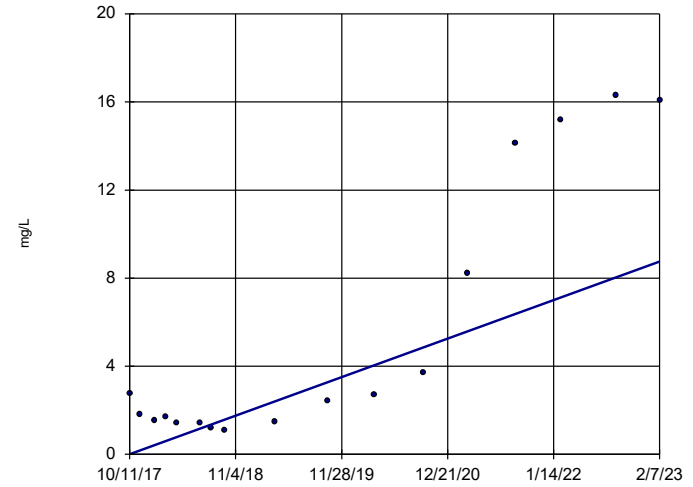


n = 20
 Slope = 0.7925 units per year.
 Mann-Kendall statistic = 98
 critical = 81
 Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 4/26/2023 11:24 AM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-39 (bg)

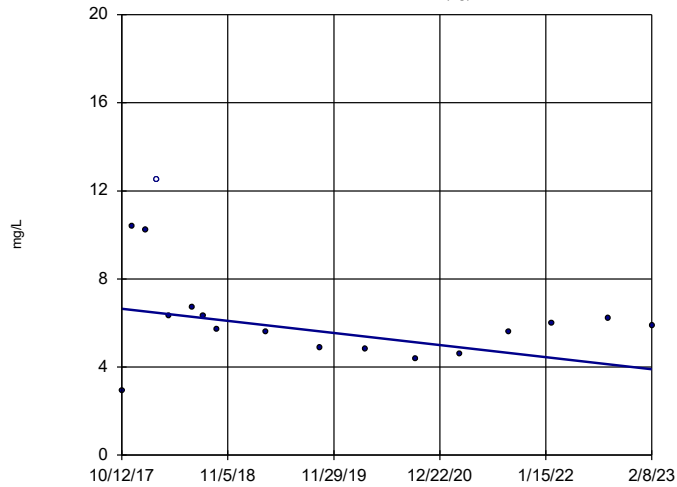


n = 17
 Slope = 1.642 units per year.
 Mann-Kendall statistic = 69
 critical = 63
 Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 4/26/2023 11:24 AM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-40 (bg)

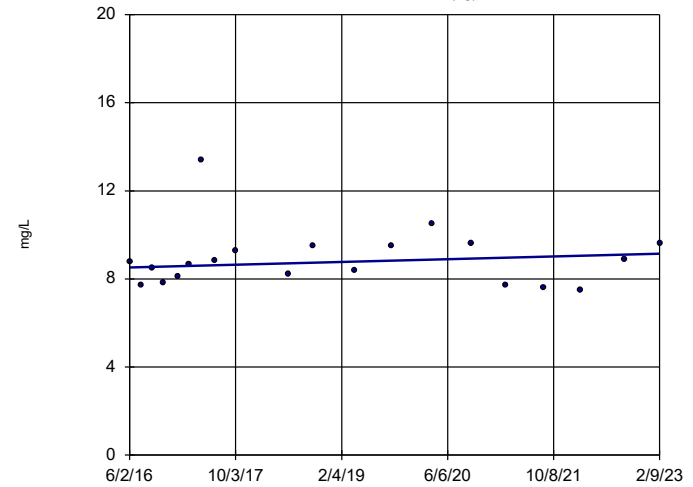


n = 17
 Slope = -0.5174 units per year.
 Mann-Kendall statistic = -42
 critical = -63
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 4/26/2023 11:24 AM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-4I (bg)

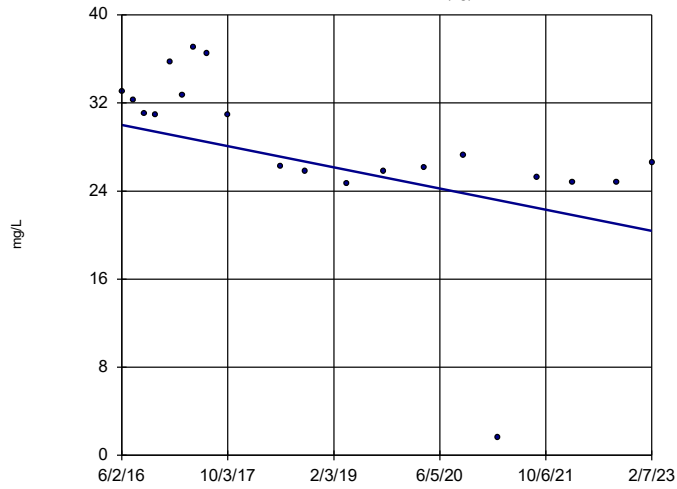


n = 20
 Slope = 0.09322 units per year.
 Mann-Kendall statistic = 24
 critical = 81
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 4/26/2023 11:24 AM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-5D (bg)

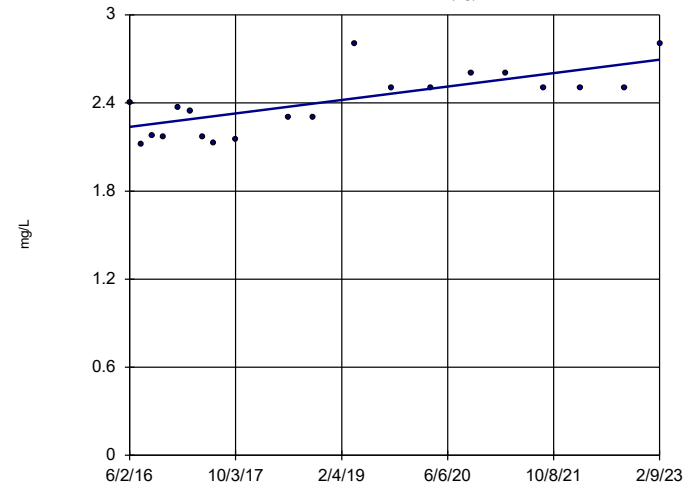


n = 20
 Slope = -1.44
 units per year.
 Mann-Kendall
 statistic = -101
 critical = -81
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 4/26/2023 11:24 AM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-5I (bg)

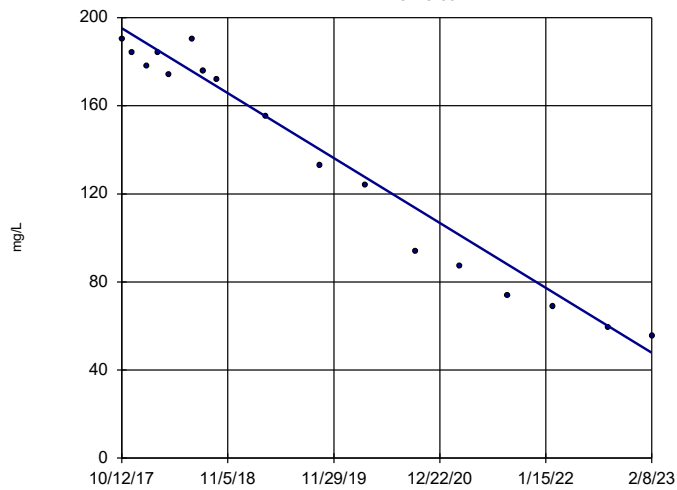


n = 20
 Slope = 0.06857
 units per year.
 Mann-Kendall
 statistic = 92
 critical = 81
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 4/26/2023 11:24 AM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWC-38

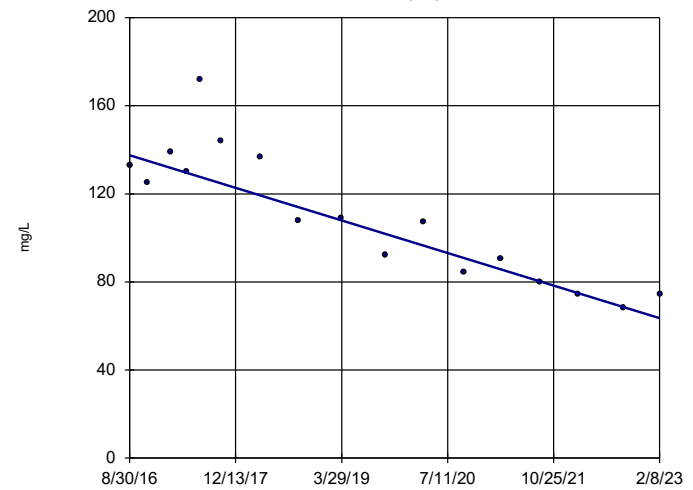


n = 17
 Slope = -27.66
 units per year.
 Mann-Kendall
 statistic = -122
 critical = -63
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 4/26/2023 11:24 AM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWC-42

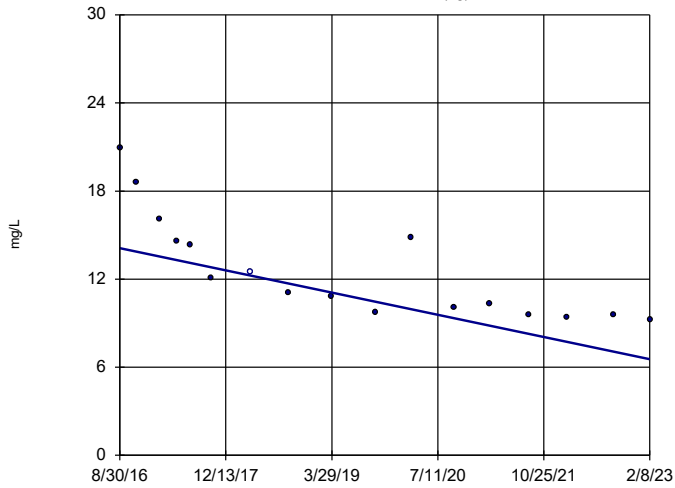


n = 17
 Slope = -11.48
 units per year.
 Mann-Kendall
 statistic = -98
 critical = -63
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 4/26/2023 11:24 AM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-47 (bg)

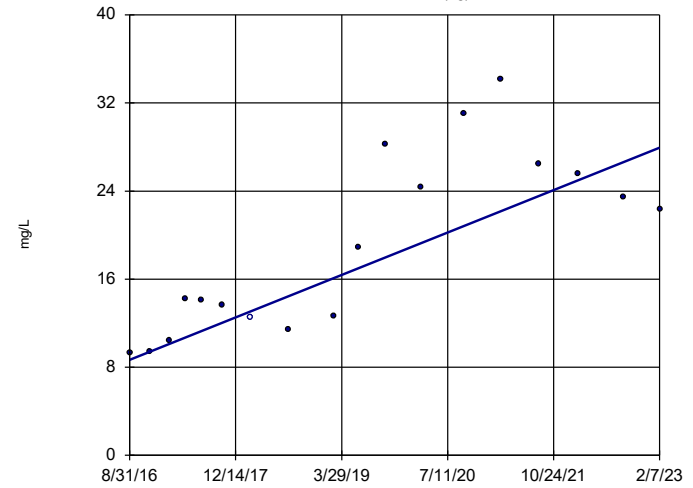


n = 17
 Slope = -1.172
 units per year.
 Mann-Kendall
 statistic = -111
 critical = -63
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 4/26/2023 11:24 AM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

GWA-2 (bg)

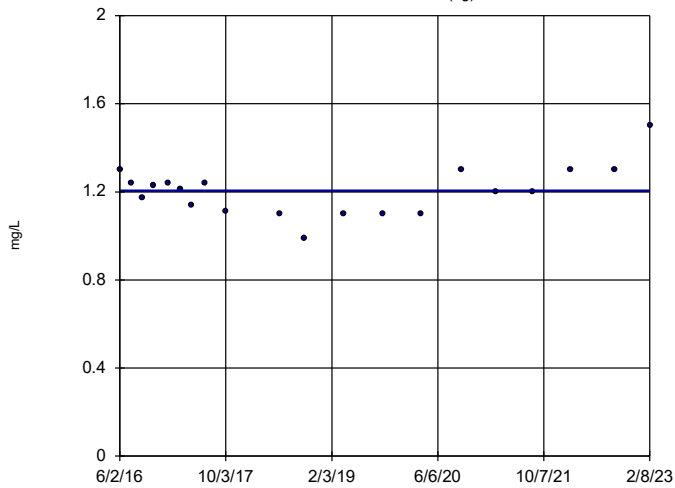


n = 18
 Slope = 2.992
 units per year.
 Mann-Kendall
 statistic = 85
 critical = 68
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 4/26/2023 11:24 AM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-14S (bg)

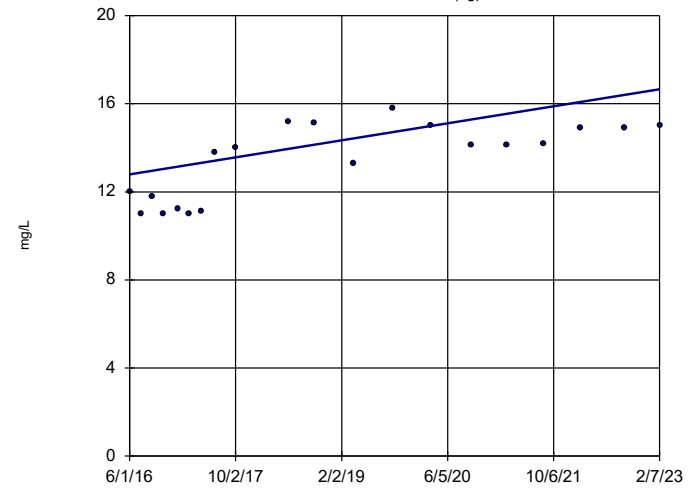


n = 20
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = 4
 critical = 81
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 4/26/2023 11:24 AM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-1D (bg)

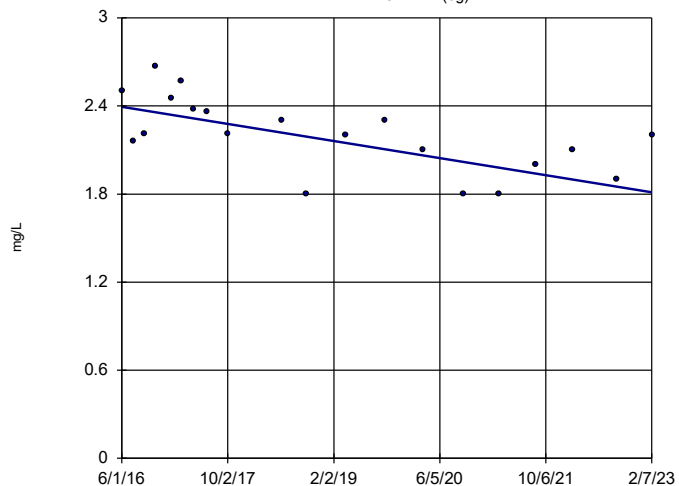


n = 20
 Slope = 0.5761
 units per year.
 Mann-Kendall
 statistic = 98
 critical = 81
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 4/26/2023 11:24 AM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-11 (bg)

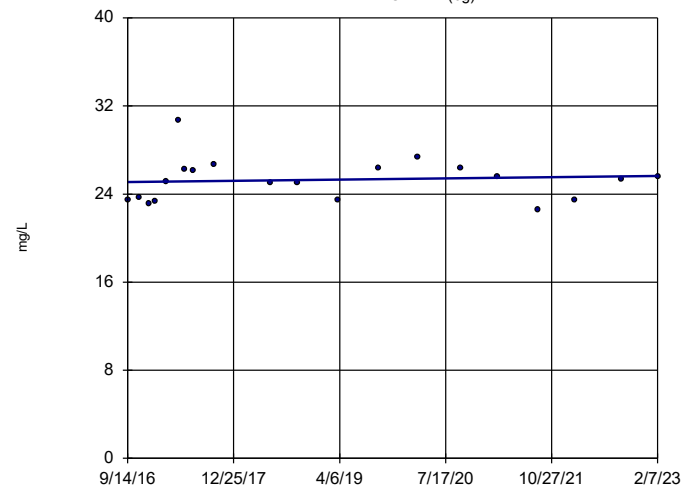


n = 20
Slope = -0.08713
units per year.
Mann-Kendall
statistic = -95
critical = -81
Decreasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Calcium Analysis Run 4/26/2023 11:24 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-21 (bg)

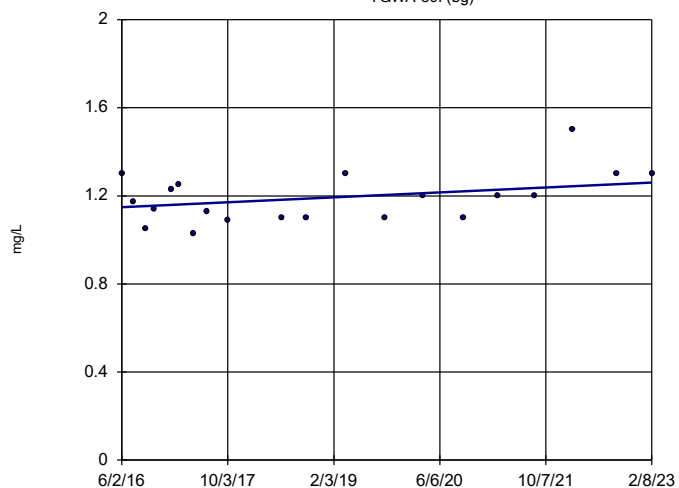


n = 20
Slope = 0.0884
units per year.
Mann-Kendall
statistic = 17
critical = 81
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Calcium Analysis Run 4/26/2023 11:24 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

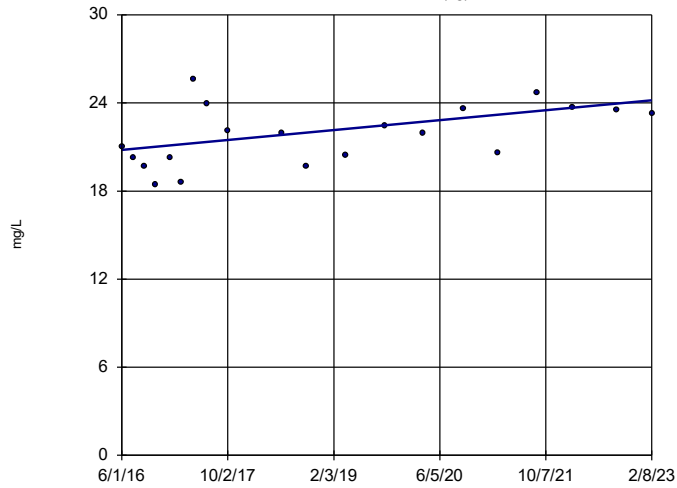
Sen's Slope Estimator

YGWA-30I (bg)



Sen's Slope Estimator

YGWA-3I (bg)

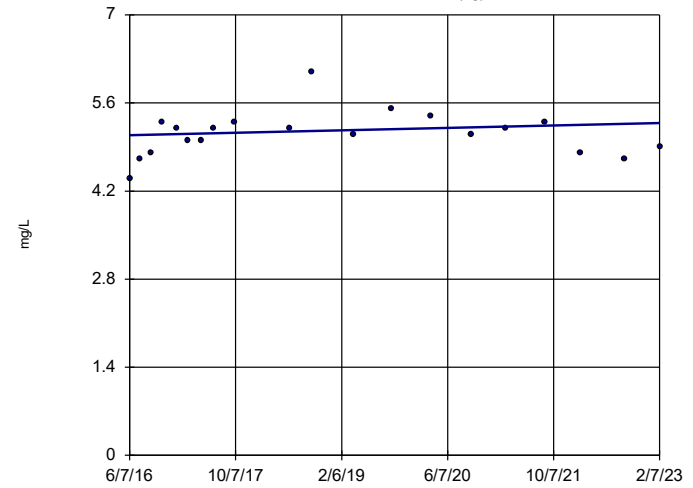


n = 20
 Slope = 0.5034
 units per year.
 Mann-Kendall
 statistic = 67
 critical = 81
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 4/26/2023 11:24 AM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-17S (bg)

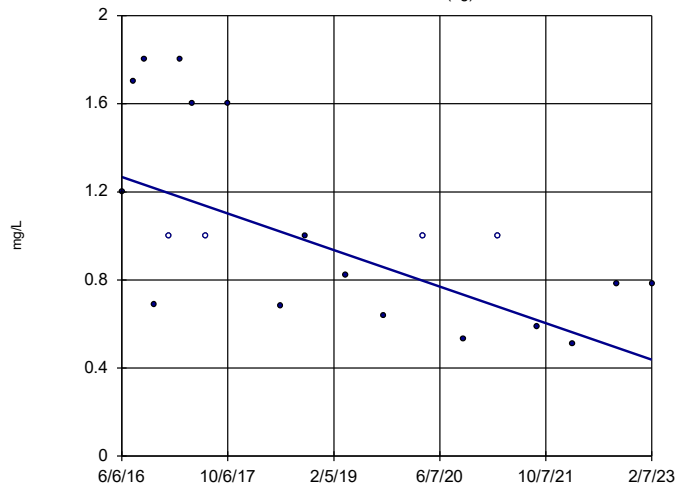


n = 20
 Slope = 0.02875
 units per year.
 Mann-Kendall
 statistic = 23
 critical = 81
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate Analysis Run 4/26/2023 11:24 AM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-18I (bg)

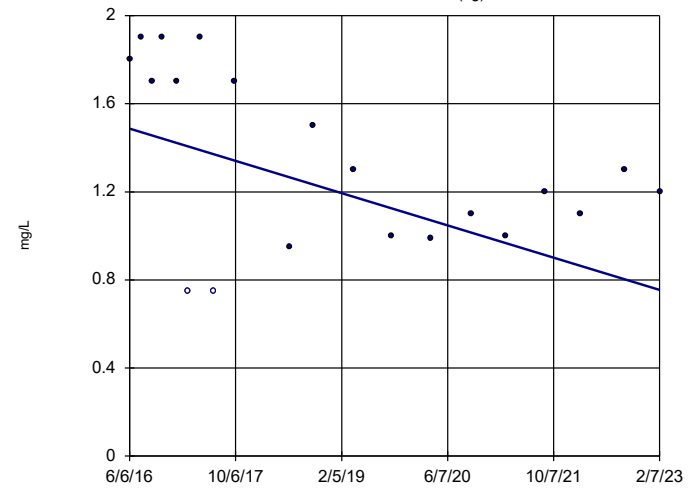


n = 20
 Slope = -0.1242
 units per year.
 Mann-Kendall
 statistic = -93
 critical = -81
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate Analysis Run 4/26/2023 11:24 AM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-18S (bg)

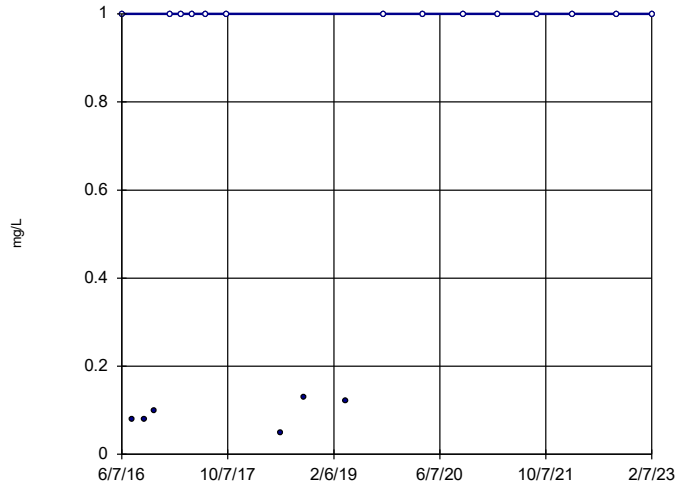


n = 20
 Slope = -0.1096
 units per year.
 Mann-Kendall
 statistic = -55
 critical = -81
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate Analysis Run 4/26/2023 11:24 AM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

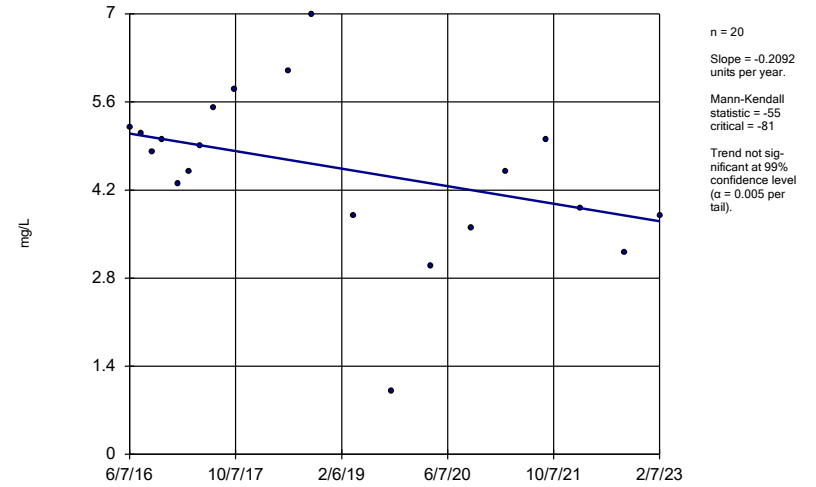
YGWA-20S (bg)



Constituent: Sulfate Analysis Run 4/26/2023 11:24 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

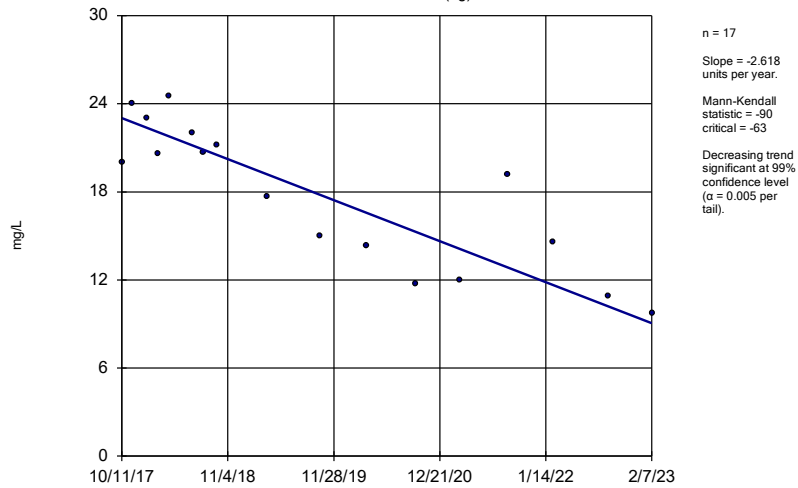
YGWA-211 (bg)



Constituent: Sulfate Analysis Run 4/26/2023 11:24 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

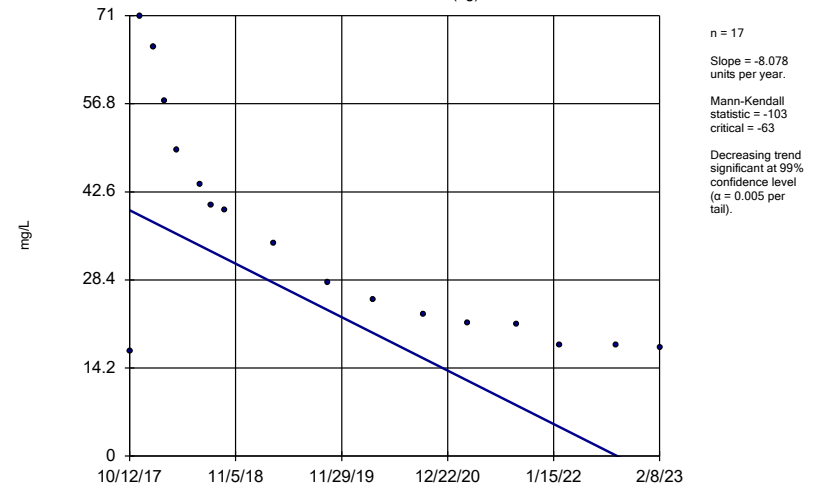
YGWA-39 (bg)



Constituent: Sulfate Analysis Run 4/26/2023 11:24 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

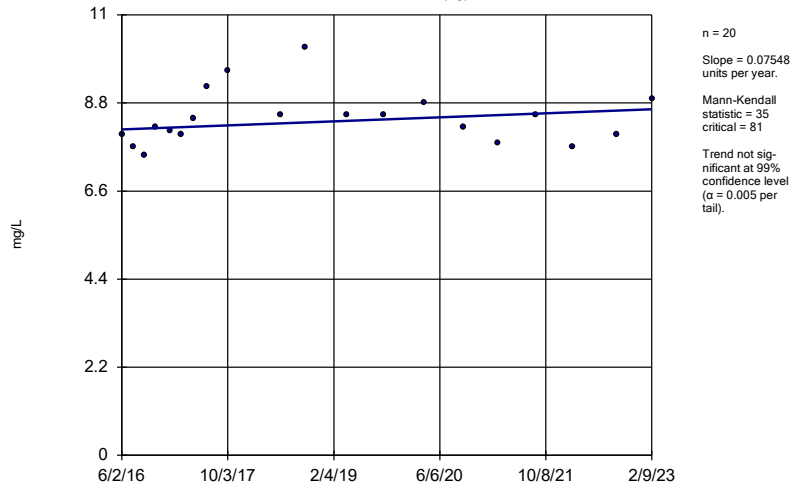
YGWA-40 (bg)



Constituent: Sulfate Analysis Run 4/26/2023 11:24 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

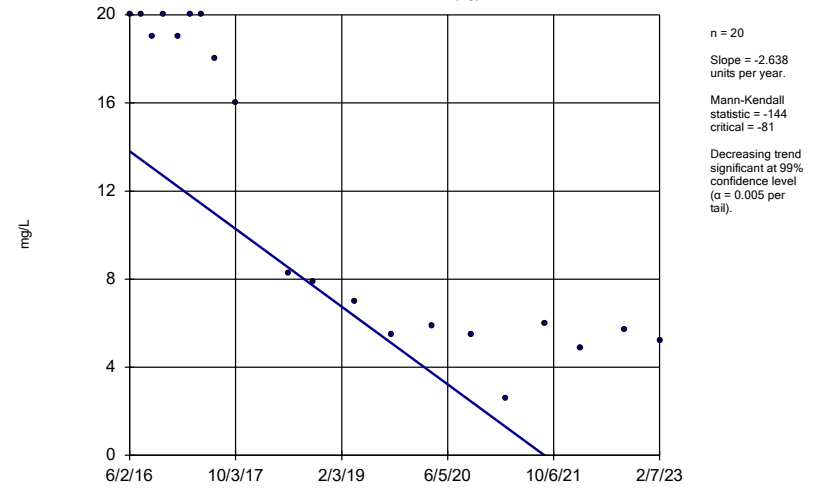
YGWA-41 (bg)



Constituent: Sulfate Analysis Run 4/26/2023 11:25 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

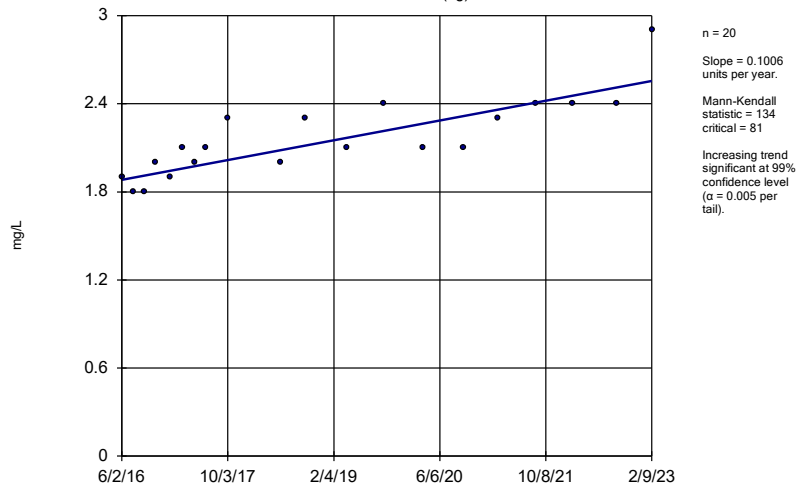
YGWA-5D (bg)



Constituent: Sulfate Analysis Run 4/26/2023 11:25 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

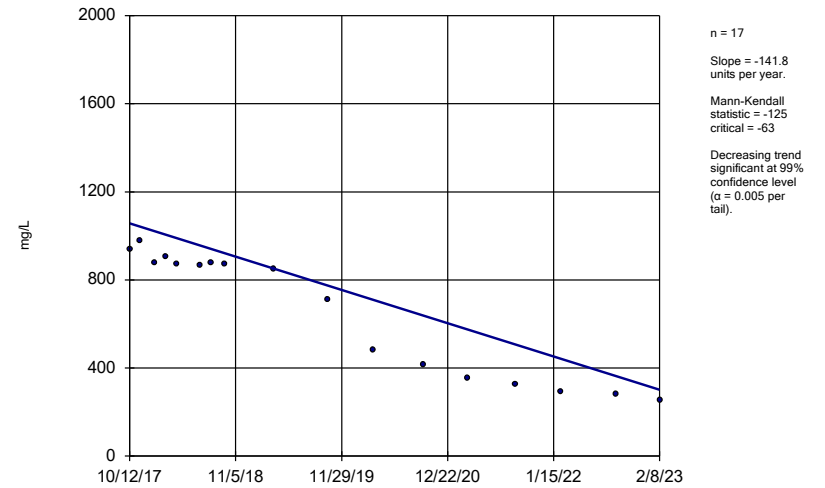
YGWA-5I (bg)



Constituent: Sulfate Analysis Run 4/26/2023 11:25 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

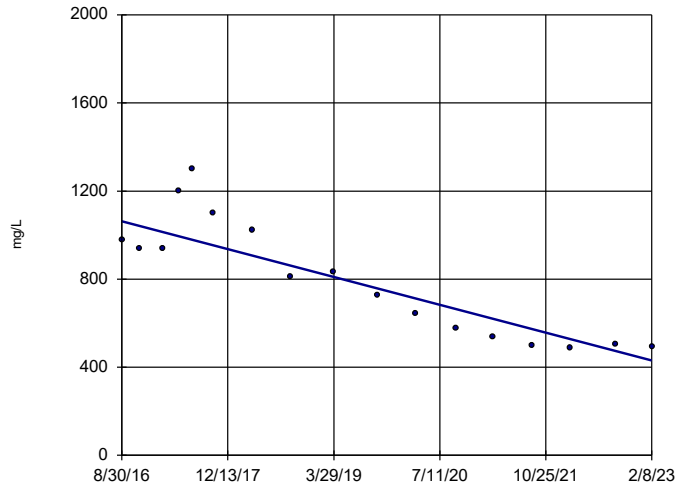
YGWC-38



Constituent: Sulfate Analysis Run 4/26/2023 11:25 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

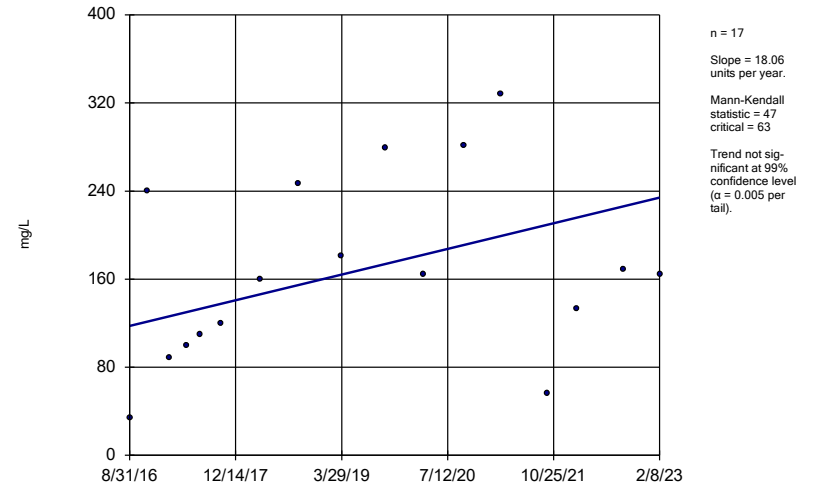
YGWC-42



Constituent: Sulfate Analysis Run 4/26/2023 11:25 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

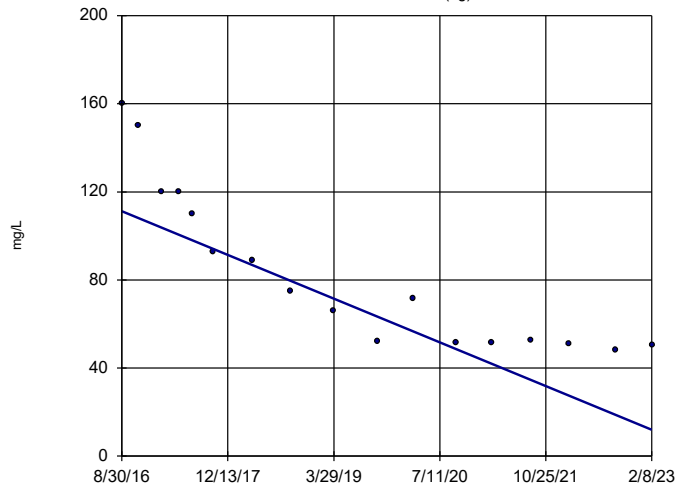
YGWC-43



Constituent: Sulfate Analysis Run 4/26/2023 11:25 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

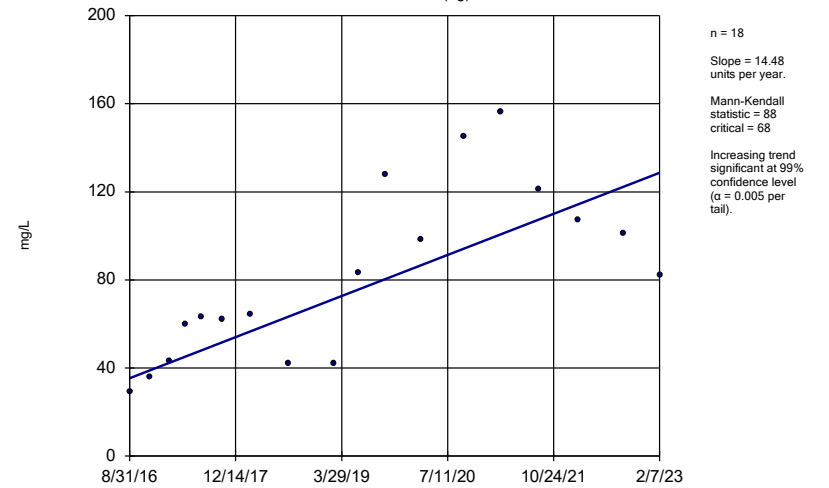
YGWA-47 (bg)



Constituent: Sulfate Analysis Run 4/26/2023 11:25 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

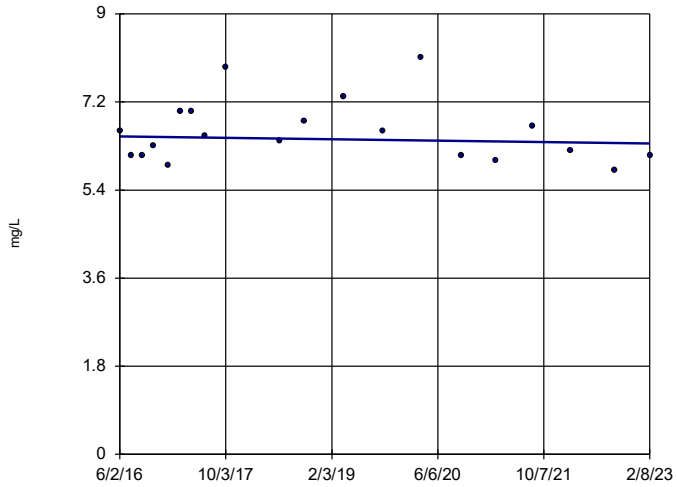
GWA-2 (bg)



Constituent: Sulfate Analysis Run 4/26/2023 11:25 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-14S (bg)

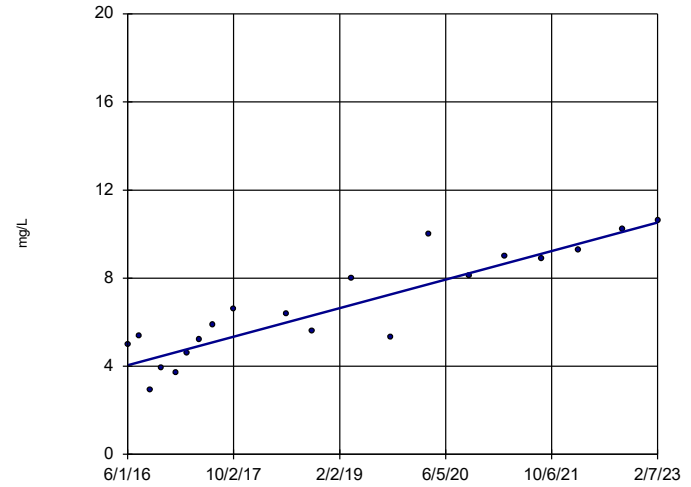


n = 20
 Slope = -0.02207
 units per year.
 Mann-Kendall
 statistic = -14
 critical = -81
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate Analysis Run 4/26/2023 11:25 AM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-1D (bg)

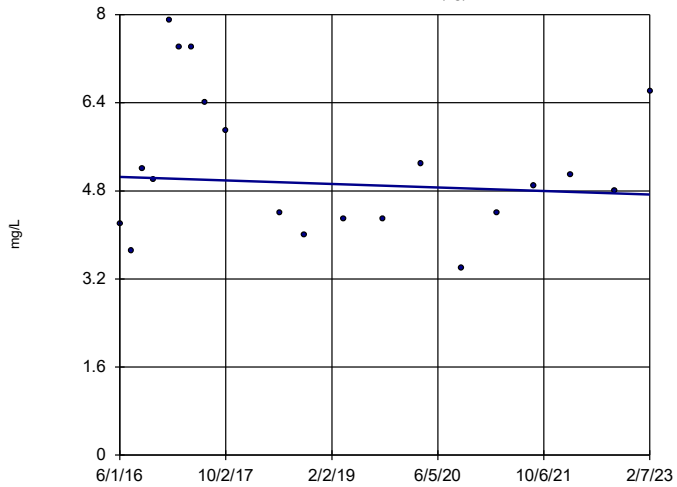


n = 20
 Slope = 0.9678
 units per year.
 Mann-Kendall
 statistic = 140
 critical = 81
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate Analysis Run 4/26/2023 11:25 AM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-11 (bg)

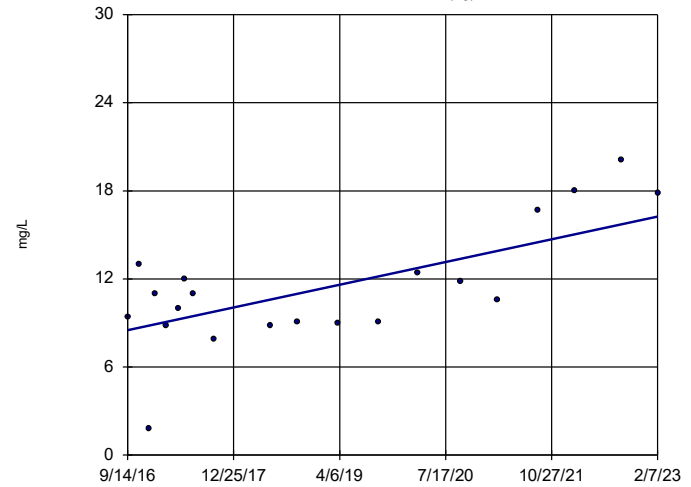


n = 20
 Slope = -0.04757
 units per year.
 Mann-Kendall
 statistic = -9
 critical = -81
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate Analysis Run 4/26/2023 11:25 AM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-2I (bg)

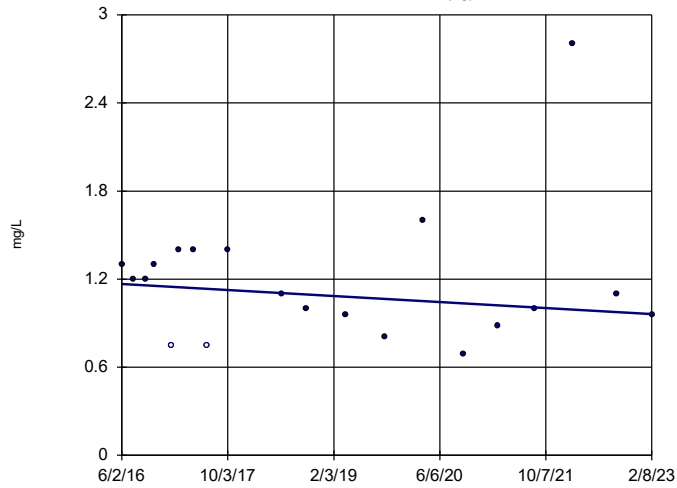


n = 20
 Slope = 1.209
 units per year.
 Mann-Kendall
 statistic = 77
 critical = 81
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate Analysis Run 4/26/2023 11:25 AM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-30I (bg)

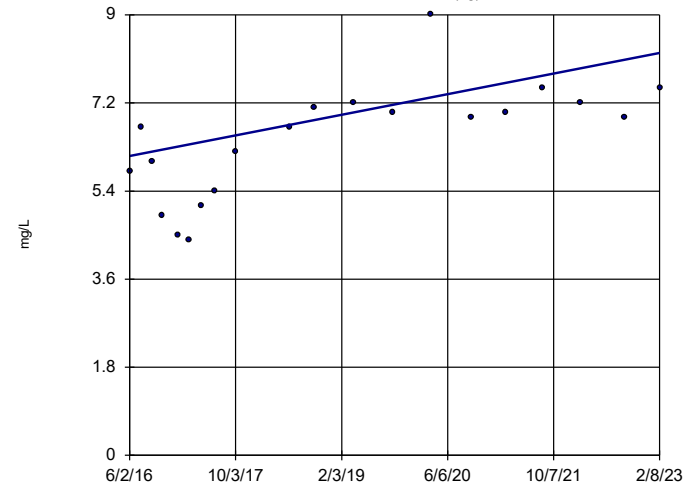


n = 20
 Slope = -0.03067
 units per year.
 Mann-Kendall
 statistic = -23
 critical = -81
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate Analysis Run 4/26/2023 11:25 AM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-3D (bg)

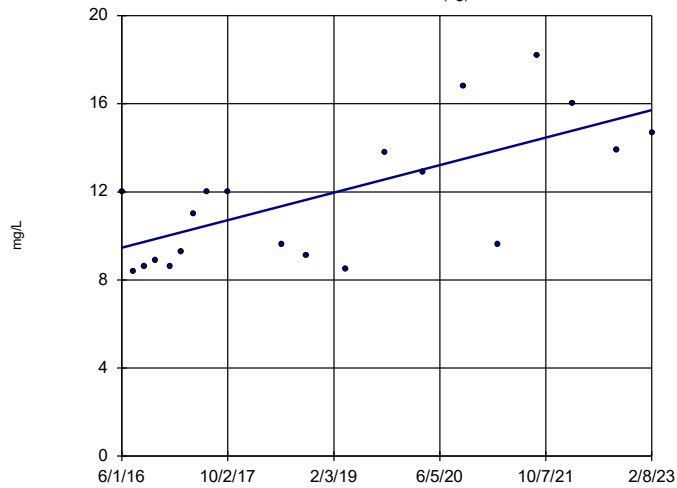


n = 20
 Slope = 0.3151
 units per year.
 Mann-Kendall
 statistic = 105
 critical = 81
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate Analysis Run 4/26/2023 11:25 AM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-3I (bg)

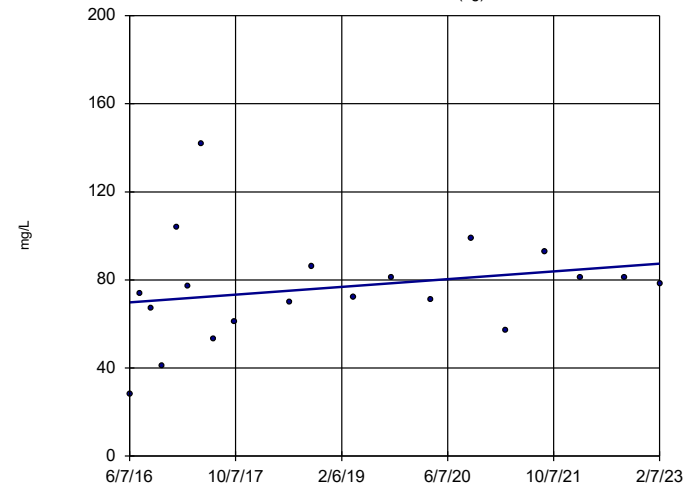


n = 20
 Slope = 0.9326
 units per year.
 Mann-Kendall
 statistic = 99
 critical = 81
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate Analysis Run 4/26/2023 11:25 AM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-17S (bg)

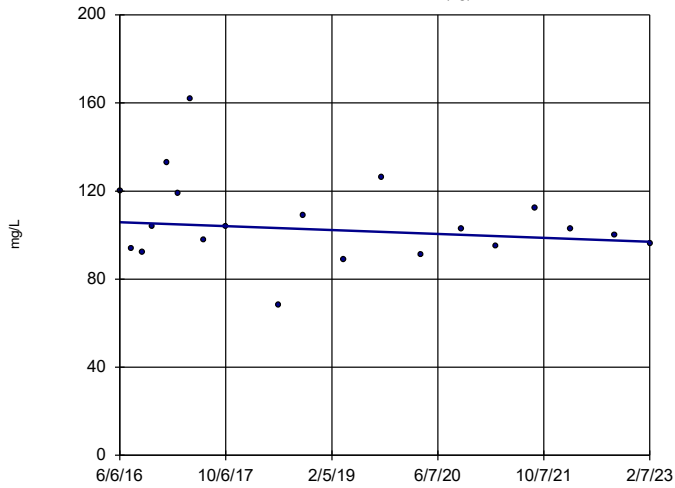


n = 20
 Slope = 2.621
 units per year.
 Mann-Kendall
 statistic = 47
 critical = 81
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Total Dissolved Solids Analysis Run 4/26/2023 11:25 AM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-18I (bg)

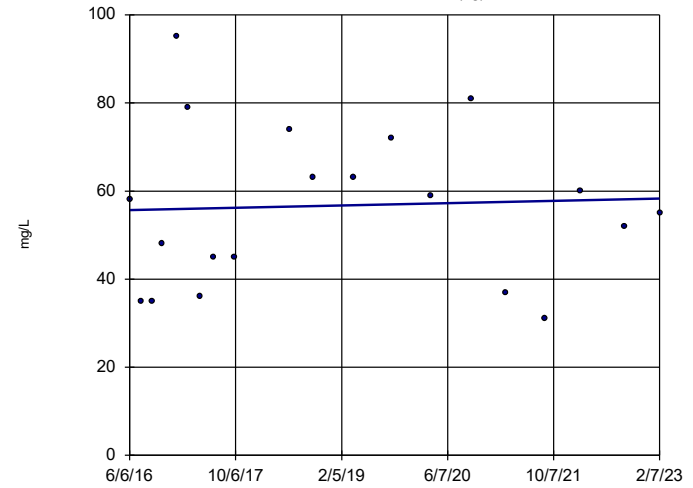


n = 20
 Slope = -1.319
 units per year.
 Mann-Kendall
 statistic = -26
 critical = -81
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Total Dissolved Solids Analysis Run 4/26/2023 11:25 AM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-18S (bg)

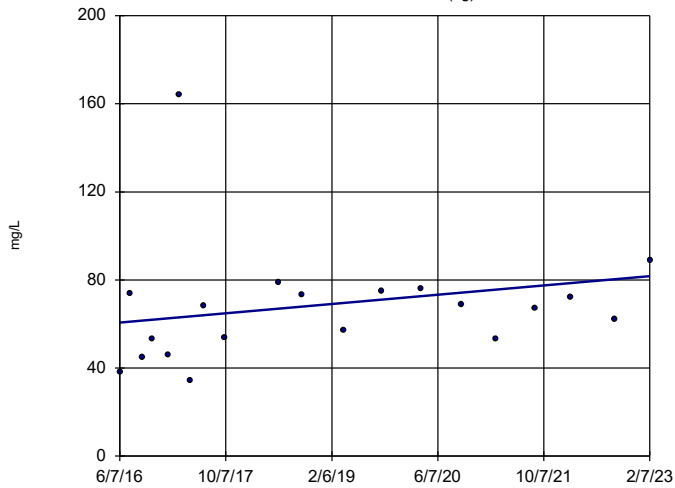


n = 20
 Slope = 0.3933
 units per year.
 Mann-Kendall
 statistic = 9
 critical = 81
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Total Dissolved Solids Analysis Run 4/26/2023 11:25 AM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-20S (bg)

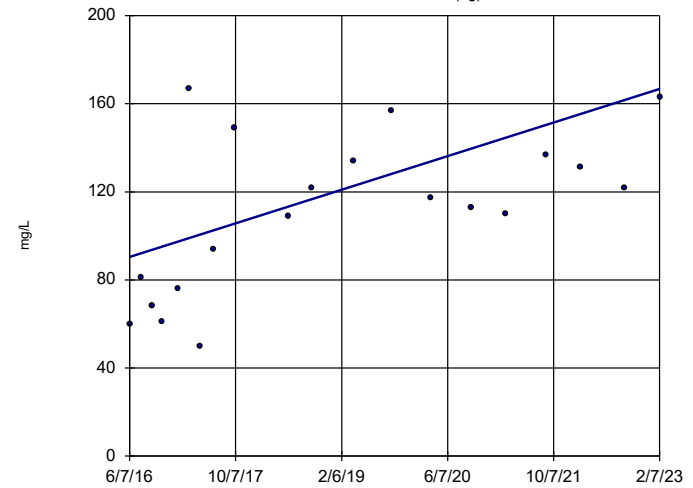


n = 20
 Slope = 3.156
 units per year.
 Mann-Kendall
 statistic = 51
 critical = 81
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Total Dissolved Solids Analysis Run 4/26/2023 11:25 AM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-21I (bg)

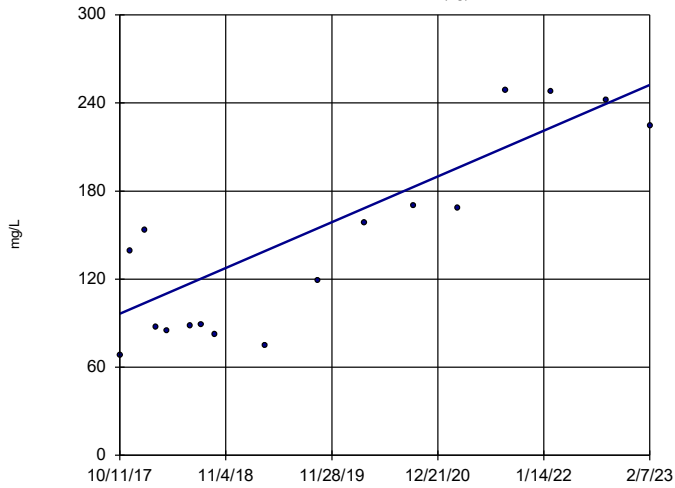


n = 20
 Slope = 11.42
 units per year.
 Mann-Kendall
 statistic = 85
 critical = 81
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Total Dissolved Solids Analysis Run 4/26/2023 11:25 AM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

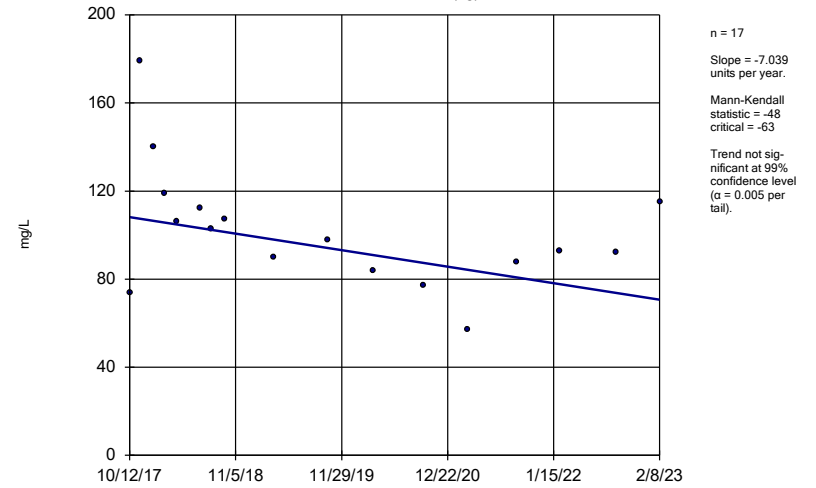
YGWA-39 (bg)



Constituent: Total Dissolved Solids Analysis Run 4/26/2023 11:25 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

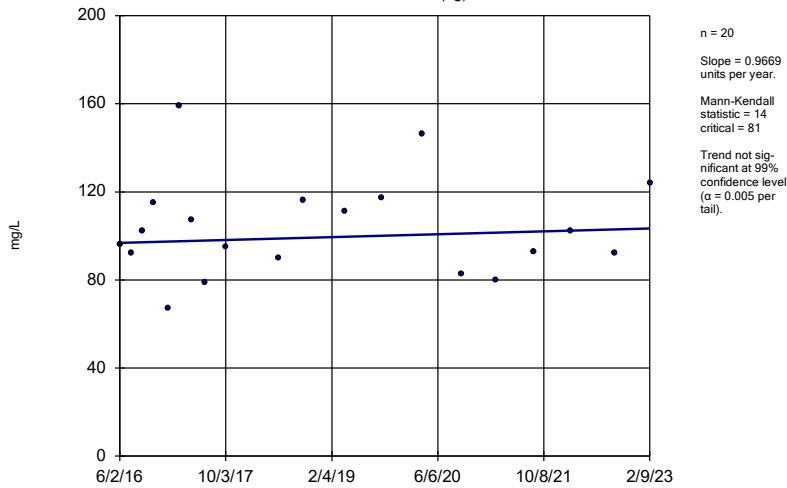
YGWA-40 (bg)



Constituent: Total Dissolved Solids Analysis Run 4/26/2023 11:25 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

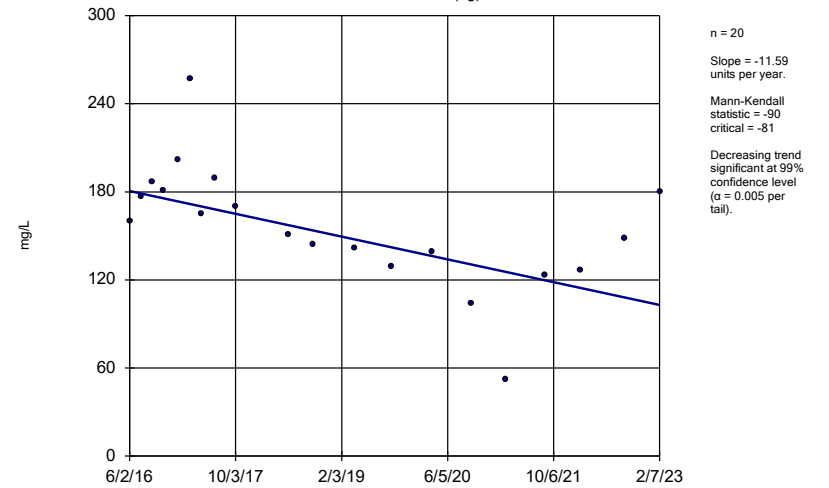
YGWA-41 (bg)



Constituent: Total Dissolved Solids Analysis Run 4/26/2023 11:25 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

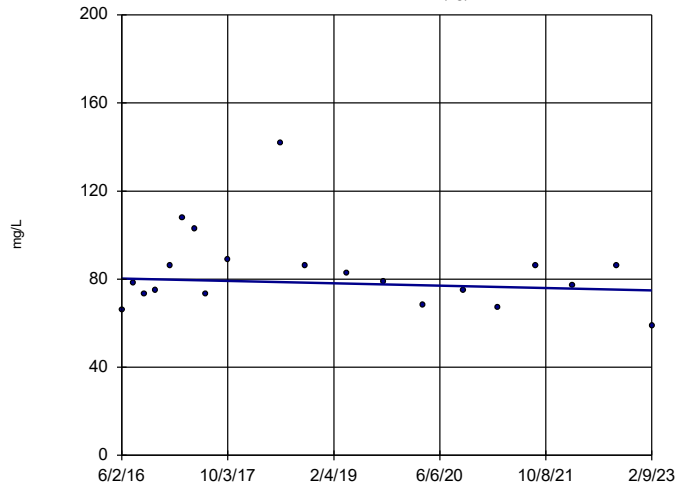
YGWA-5D (bg)



Constituent: Total Dissolved Solids Analysis Run 4/26/2023 11:25 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-5l (bg)

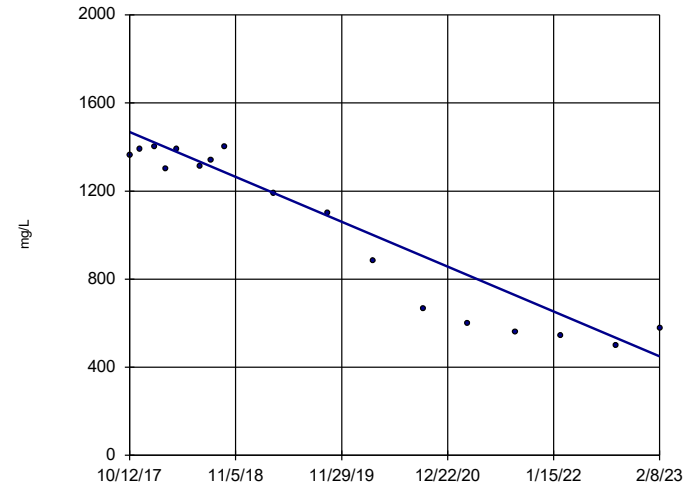


n = 20
 Slope = -0.8043
 units per year.
 Mann-Kendall
 statistic = -16
 critical = -81
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Total Dissolved Solids Analysis Run 4/26/2023 11:25 AM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWC-38

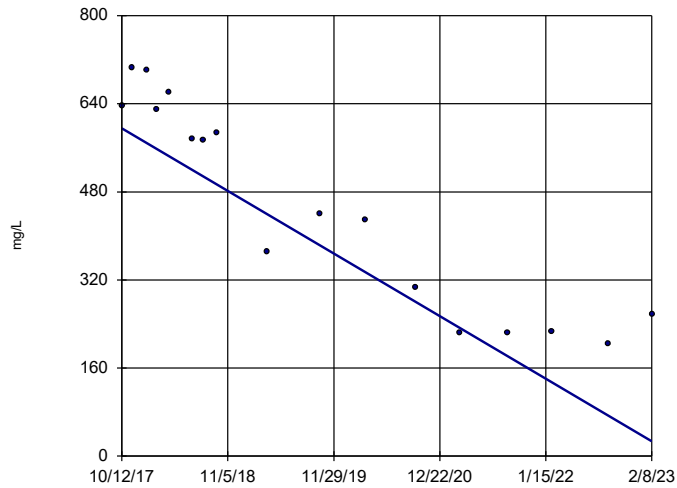


n = 17
 Slope = -191
 units per year.
 Mann-Kendall
 statistic = -100
 critical = -63
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Total Dissolved Solids Analysis Run 4/26/2023 11:25 AM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWC-41

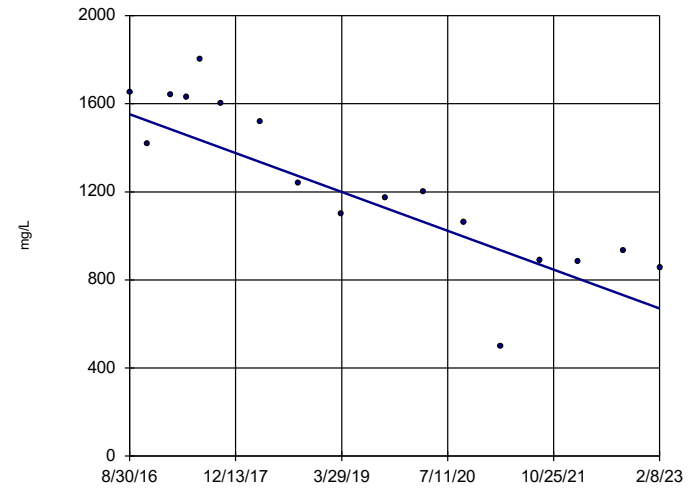


n = 17
 Slope = -106.7
 units per year.
 Mann-Kendall
 statistic = -106
 critical = -63
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Total Dissolved Solids Analysis Run 4/26/2023 11:25 AM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWC-42

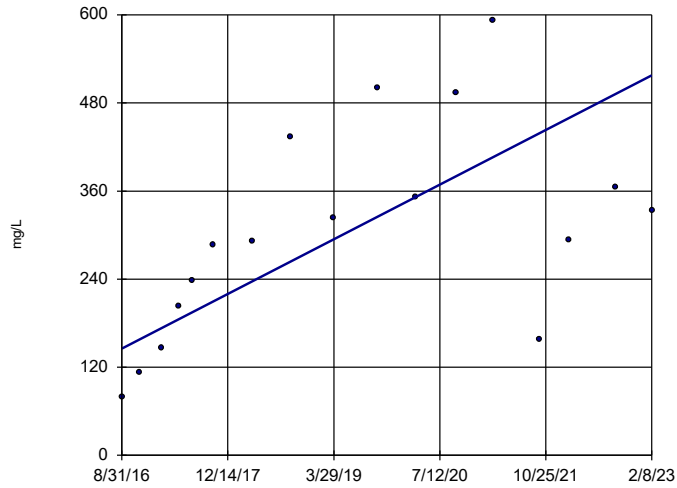


n = 17
 Slope = -136.8
 units per year.
 Mann-Kendall
 statistic = -102
 critical = -63
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Total Dissolved Solids Analysis Run 4/26/2023 11:25 AM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

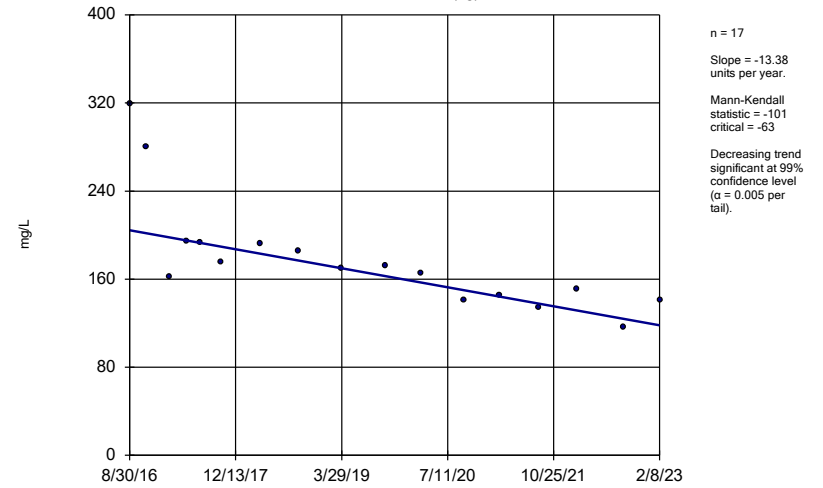
YGWC-43



Constituent: Total Dissolved Solids Analysis Run 4/26/2023 11:25 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

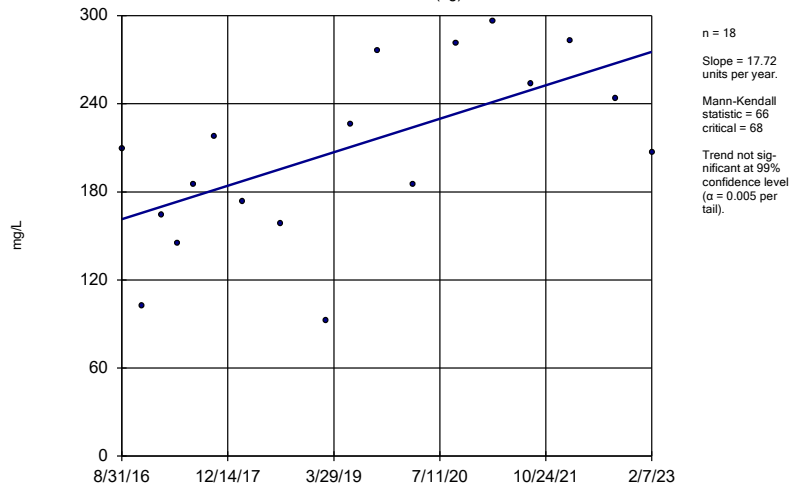
YGWA-47 (bg)



Constituent: Total Dissolved Solids Analysis Run 4/26/2023 11:25 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

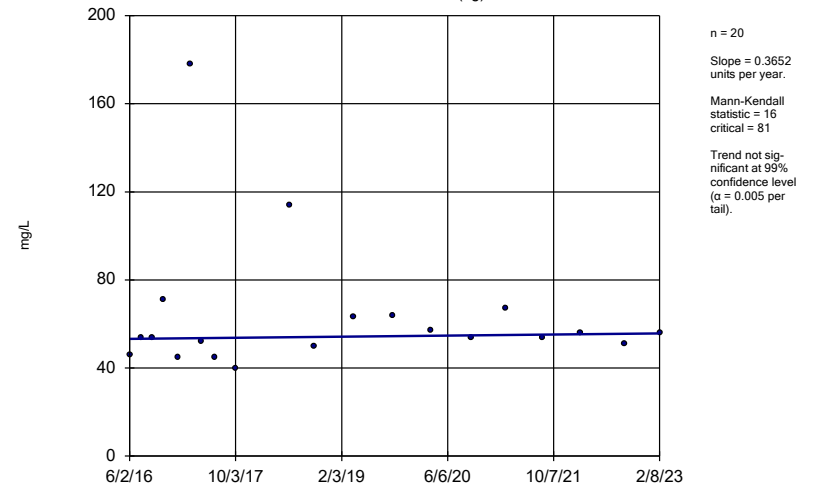
GWA-2 (bg)



Constituent: Total Dissolved Solids Analysis Run 4/26/2023 11:25 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

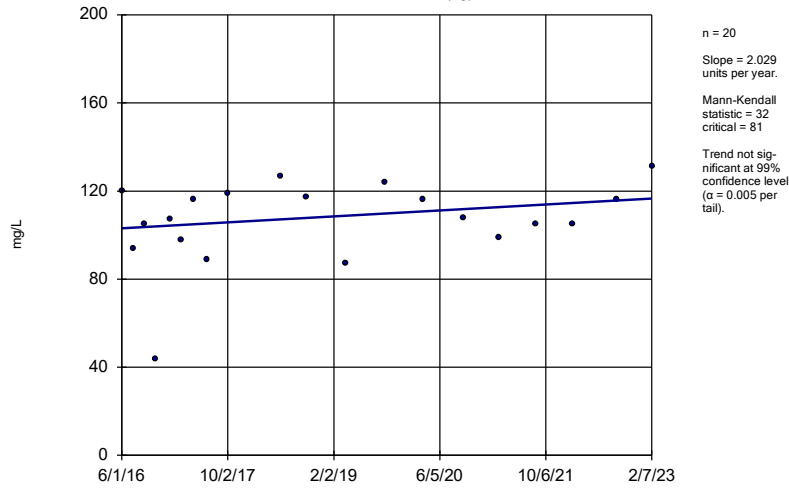
YGWA-14S (bg)



Constituent: Total Dissolved Solids Analysis Run 4/26/2023 11:25 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

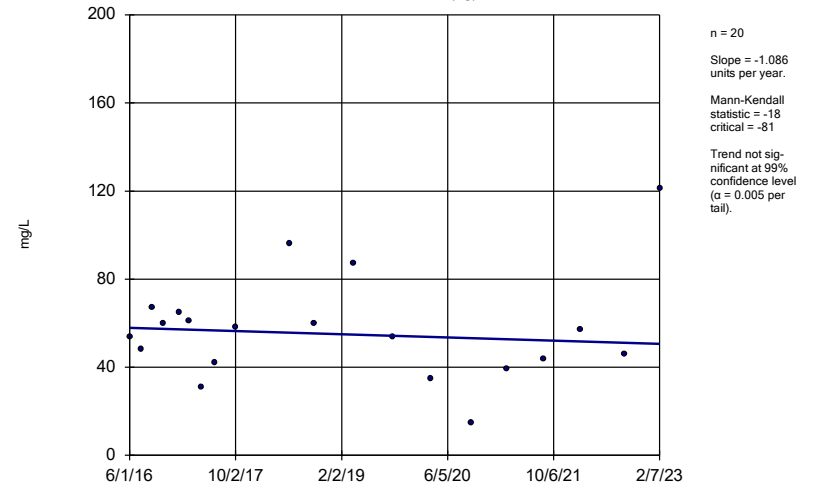
YGWA-1D (bg)



Constituent: Total Dissolved Solids Analysis Run 4/26/2023 11:25 AM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

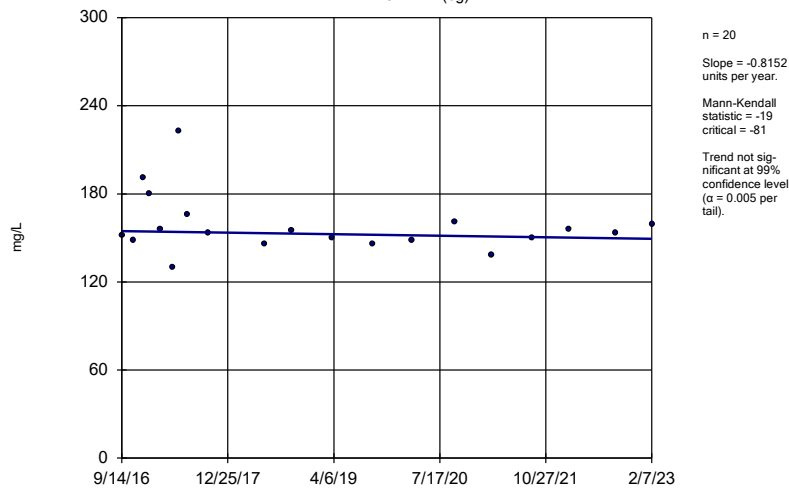
YGWA-1I (bg)



Constituent: Total Dissolved Solids Analysis Run 4/26/2023 11:25 AM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

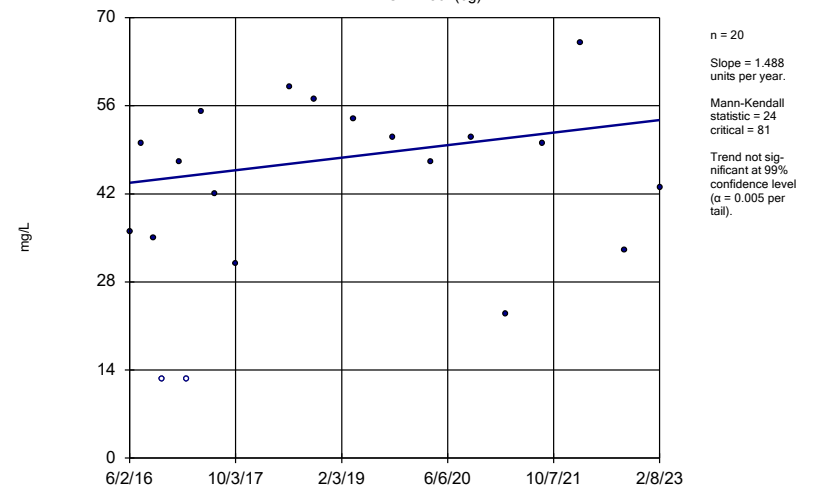
YGWA-2I (bg)



Constituent: Total Dissolved Solids Analysis Run 4/26/2023 11:25 AM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

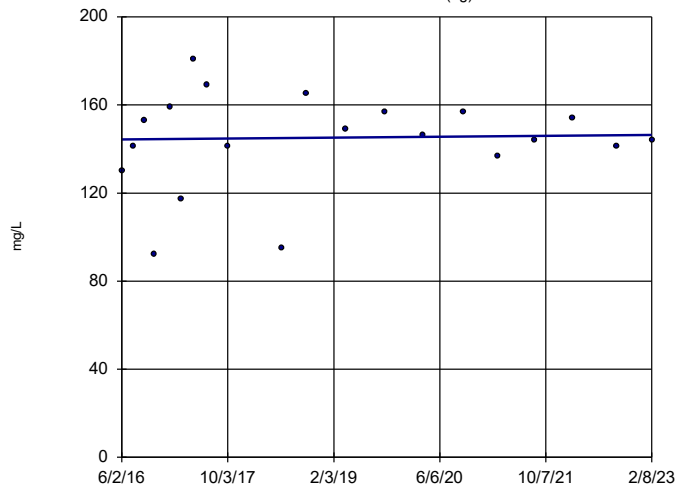
YGWA-30I (bg)



Constituent: Total Dissolved Solids Analysis Run 4/26/2023 11:25 AM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-3D (bg)

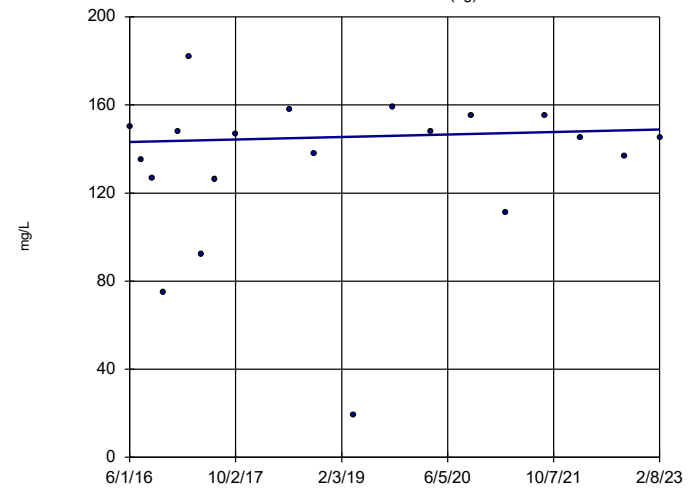


n = 20
 Slope = 0.3218
 units per year.
 Mann-Kendall
 statistic = 7
 critical = 81
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Total Dissolved Solids Analysis Run 4/26/2023 11:25 AM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-3I (bg)



n = 20
 Slope = 0.862
 units per year.
 Mann-Kendall
 statistic = 9
 critical = 81
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Total Dissolved Solids Analysis Run 4/26/2023 11:25 AM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

FIGURE F.

Upper Tolerance Limits Summary Table

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 4/26/2023, 11:28 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	n/a	0.0047	n/a	n/a	n/a	n/a 391	n/a	n/a	87.98	n/a	n/a	NaN	NP Inter(NDs)
Arsenic (mg/L)	n/a	0.005	n/a	n/a	n/a	n/a 439	n/a	n/a	74.72	n/a	n/a	NaN	NP Inter(NDs)
Barium (mg/L)	n/a	0.21	n/a	n/a	n/a	n/a 439	n/a	n/a	2.506	n/a	n/a	NaN	NP Inter(normality)
Beryllium (mg/L)	n/a	0.0011	n/a	n/a	n/a	n/a 423	n/a	n/a	79.43	n/a	n/a	NaN	NP Inter(NDs)
Cadmium (mg/L)	n/a	0.00063	n/a	n/a	n/a	n/a 423	n/a	n/a	94.56	n/a	n/a	NaN	NP Inter(NDs)
Chromium (mg/L)	n/a	0.0093	n/a	n/a	n/a	n/a 391	n/a	n/a	80.05	n/a	n/a	NaN	NP Inter(NDs)
Cobalt (mg/L)	n/a	0.035	n/a	n/a	n/a	n/a 433	n/a	n/a	69.05	n/a	n/a	NaN	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	n/a	6.92	n/a	n/a	n/a	n/a 418	n/a	n/a	0	n/a	n/a	NaN	NP Inter(normality)
Fluoride (mg/L)	n/a	0.68	n/a	n/a	n/a	n/a 438	n/a	n/a	64.16	n/a	n/a	NaN	NP Inter(NDs)
Lead (mg/L)	n/a	0.0013	n/a	n/a	n/a	n/a 393	n/a	n/a	86.01	n/a	n/a	NaN	NP Inter(NDs)
Lithium (mg/L)	n/a	0.03	n/a	n/a	n/a	n/a 418	n/a	n/a	25.84	n/a	n/a	NaN	NP Inter(normality)
Mercury (mg/L)	n/a	0.00064	n/a	n/a	n/a	n/a 347	n/a	n/a	91.93	n/a	n/a	NaN	NP Inter(NDs)
Molybdenum (mg/L)	n/a	0.014	n/a	n/a	n/a	n/a 382	n/a	n/a	60.99	n/a	n/a	NaN	NP Inter(NDs)
Selenium (mg/L)	n/a	0.005	n/a	n/a	n/a	n/a 421	n/a	n/a	92.64	n/a	n/a	NaN	NP Inter(NDs)
Thallium (mg/L)	n/a	0.001	n/a	n/a	n/a	n/a 357	n/a	n/a	97.2	n/a	n/a	NaN	NP Inter(NDs)

FIGURE G.

YATES AMA-R6 GWPS				
Constituent Name	MCL	CCR-Rule Specified	Background Limit	GWPS
Antimony, Total (mg/L)	0.006		0.0047	0.006
Arsenic, Total (mg/L)	0.01		0.005	0.01
Barium, Total (mg/L)	2		0.21	2
Beryllium, Total (mg/L)	0.004		0.0011	0.004
Cadmium, Total (mg/L)	0.005		0.00063	0.005
Chromium, Total (mg/L)	0.1		0.0093	0.1
Cobalt, Total (mg/L)		0.006	0.035	0.035
Combined Radium, Total (pCi/L)	5		6.92	6.92
Fluoride, Total (mg/L)	4		0.68	4
Lead, Total (mg/L)		0.015	0.0013	0.015
Lithium, Total (mg/L)		0.04	0.03	0.04
Mercury, Total (mg/L)	0.002		0.00064	0.002
Molybdenum, Total (mg/L)		0.1	0.014	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 Limit is higher than MCL or CCR Rule Specified Level*

**MCL = Maximum Contaminant Level*

**CCR = Coal Combustion Residual*

**GWPS = Groundwater Protection Standard*

FIGURE H.

Confidence Intervals - Significant Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 5/16/2023, 8:25 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Selenium (mg/L)	YGWC-38	0.246	0.064	0.05	Yes	18	0.1496	0.08206	0	None	No	0.01	NP (normality)
Selenium (mg/L)	PZ-37	0.2801	0.2029	0.05	Yes	15	0.2415	0.05697	0	None	No	0.01	Param.

Confidence Intervals - All Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 5/16/2023, 8:25 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	PZ-35	0.003	0.00039	0.006	No	9	0.00271	0.00087	88.89	None	No	0.002	NP (NDs)
Antimony (mg/L)	PZ-37	0.003	0.0014	0.006	No	15	0.002577	0.0008973	80	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-37D	0.003	0.0015	0.006	No	4	0.002625	0.00075	75	None	No	0.0625	NP (NDs)
Antimony (mg/L)	YAMW-1	0.025	0.00037	0.006	No	9	0.00493	0.007581	55.56	None	No	0.002	NP (NDs)
Antimony (mg/L)	YAMW-4	0.003	0.00062	0.006	No	7	0.002053	0.001191	57.14	None	No	0.008	NP (NDs)
Antimony (mg/L)	YAMW-5	0.003	0.00033	0.006	No	7	0.002619	0.001009	85.71	None	No	0.008	NP (NDs)
Antimony (mg/L)	YGWC-23S	0.003	0.00085	0.006	No	20	0.002633	0.000901	85	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-24SB	0.003	0.0009	0.006	No	19	0.002889	0.0004818	94.74	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-36A	0.0041	0.0015	0.006	No	20	0.0039	0.00582	50	None	No	0.01	NP (normality)
Antimony (mg/L)	YGWC-38	0.003	0.0015	0.006	No	17	0.002474	0.001003	76.47	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-41	0.003	0.0014	0.006	No	17	0.002906	0.0003881	94.12	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-42	0.003	0.00053	0.006	No	17	0.002855	0.0005991	94.12	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-43	0.003	0.00031	0.006	No	17	0.002842	0.0006524	94.12	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-49	0.003	0.0011	0.006	No	17	0.002743	0.0007326	88.24	None	No	0.01	NP (NDs)
Arsenic (mg/L)	PZ-35	0.005	0.00096	0.01	No	10	0.003625	0.001858	60	Kaplan-Meier	No	0.011	NP (NDs)
Arsenic (mg/L)	PZ-37	0.005	0.00094	0.01	No	15	0.002709	0.001955	40	None	No	0.01	NP (normality)
Arsenic (mg/L)	YAMW-1	0.005	0.0034	0.01	No	10	0.00457	0.0009429	80	None	No	0.011	NP (NDs)
Arsenic (mg/L)	YAMW-4	0.005	0.00079	0.01	No	7	0.003299	0.001867	42.86	None	No	0.008	NP (normality)
Arsenic (mg/L)	YAMW-5	0.003443	0.0008822	0.01	No	7	0.003379	0.001754	42.86	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	YGWC-23S	0.005	0.0025	0.01	No	22	0.004714	0.0009483	90.91	Kaplan-Meier	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-24SB	0.005	0.0035	0.01	No	21	0.004638	0.000962	85.71	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-36A	0.005	0.0047	0.01	No	22	0.004038	0.001789	72.73	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-38	0.0023	0.00072	0.01	No	18	0.002026	0.001701	22.22	None	No	0.01	NP (normality)
Arsenic (mg/L)	YGWC-41	0.005	0.00072	0.01	No	18	0.003062	0.002064	50	None	No	0.01	NP (normality)
Arsenic (mg/L)	YGWC-42	0.002295	0.001445	0.01	No	18	0.002471	0.001327	16.67	Kaplan-Meier	sqrt(x)	0.01	Param.
Arsenic (mg/L)	YGWC-43	0.005	0.0022	0.01	No	18	0.004039	0.001695	72.22	Kaplan-Meier	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-49	0.005	0.001	0.01	No	17	0.004262	0.001644	82.35	Kaplan-Meier	No	0.01	NP (NDs)
Barium (mg/L)	PZ-35	0.09056	0.03164	2	No	10	0.0611	0.03302	0	None	No	0.01	Param.
Barium (mg/L)	PZ-37	0.05259	0.03422	2	No	15	0.04341	0.01356	0	None	No	0.01	Param.
Barium (mg/L)	PZ-37D	0.033	0.013	2	No	4	0.01975	0.009069	0	None	No	0.0625	NP (selected)
Barium (mg/L)	YAMW-1	0.07559	0.03621	2	No	10	0.0559	0.02207	0	None	No	0.01	Param.
Barium (mg/L)	YAMW-2	0.009272	0.006756	2	No	7	0.008014	0.001059	0	None	No	0.01	Param.
Barium (mg/L)	YAMW-4	0.021	0.003	2	No	7	0.008614	0.008204	0	None	No	0.008	NP (normality)
Barium (mg/L)	YAMW-5	0.057	0.034	2	No	7	0.04014	0.007988	0	None	No	0.008	NP (normality)
Barium (mg/L)	YGWC-23S	0.04724	0.03277	2	No	22	0.04	0.01348	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-24SB	0.025	0.019	2	No	21	0.0215	0.004108	0	None	No	0.01	NP (normality)
Barium (mg/L)	YGWC-36A	0.04891	0.03307	2	No	22	0.04189	0.016	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	YGWC-38	0.02241	0.01731	2	No	18	0.01986	0.00422	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-41	0.02814	0.02032	2	No	18	0.02423	0.006464	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-42	0.04281	0.02937	2	No	18	0.03609	0.01111	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-43	0.03348	0.01907	2	No	18	0.02627	0.01191	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-49	0.07733	0.06751	2	No	17	0.07242	0.007833	0	None	No	0.01	Param.
Beryllium (mg/L)	PZ-35	0.003	0.00025	0.004	No	11	0.00092	0.001041	18.18	None	No	0.006	NP (normality)
Beryllium (mg/L)	PZ-37	0.0008051	0.0002982	0.004	No	15	0.000632	0.0004727	13.33	None	ln(x)	0.01	Param.
Beryllium (mg/L)	YAMW-1	0.0005	0.000095	0.004	No	10	0.0002913	0.000198	40	None	No	0.011	NP (normality)
Beryllium (mg/L)	YAMW-2	0.0005	0.000051	0.004	No	7	0.000186	0.0002146	28.57	None	No	0.008	NP (normality)
Beryllium (mg/L)	YAMW-5	0.0001549	0.0001016	0.004	No	8	0.0001283	0.0000251	0	None	No	0.01	Param.
Beryllium (mg/L)	YGWC-23S	0.00023	0.00009	0.004	No	22	0.0007785	0.001234	22.73	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-24SB	0.00016	0.0001	0.004	No	21	0.000315	0.0004966	14.29	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-36A	0.0003907	0.0001957	0.004	No	22	0.0003436	0.000292	4.545	None	ln(x)	0.01	Param.
Beryllium (mg/L)	YGWC-38	0.0056	0.0028	0.004	No	18	0.004228	0.001375	0	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-41	0.0037	0.0015	0.004	No	18	0.002633	0.001035	0	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-42	0.0005	0.000067	0.004	No	18	0.0003348	0.0002133	61.11	None	No	0.01	NP (NDs)
Beryllium (mg/L)	YGWC-43	0.003	0.0003	0.004	No	18	0.001234	0.00129	33.33	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-49	0.00015	0.0001	0.004	No	17	0.0001994	0.0003358	5.882	None	No	0.01	NP (normality)

Confidence Intervals - All Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 5/16/2023, 8:25 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Cadmium (mg/L)	PZ-35	0.0005	0.00016	0.005	No	10	0.000402	0.0001613	70	None	No	0.011	NP (NDs)
Cadmium (mg/L)	PZ-37	0.000768	0.000396	0.005	No	15	0.000582	0.0002745	13.33	None	No	0.01	Param.
Cadmium (mg/L)	YAMW-1	0.0005	0.00014	0.005	No	10	0.0003	0.0001742	40	None	No	0.011	NP (normality)
Cadmium (mg/L)	YAMW-2	0.0005	0.00015	0.005	No	7	0.00045	0.0001323	85.71	None	No	0.008	NP (NDs)
Cadmium (mg/L)	YAMW-5	0.00046	0.00018	0.005	No	7	0.0002471	0.00009725	0	None	No	0.008	NP (normality)
Cadmium (mg/L)	YGWC-23S	0.0005	0.00007	0.005	No	22	0.0004805	0.00009168	95.45	None	No	0.01	NP (NDs)
Cadmium (mg/L)	YGWC-36A	0.0005	0.00018	0.005	No	22	0.00029	0.0001654	36.36	None	No	0.01	NP (normality)
Cadmium (mg/L)	YGWC-38	0.0029	0.0011	0.005	No	18	0.00204	0.0008076	0	None	No	0.01	NP (normality)
Cadmium (mg/L)	YGWC-41	0.0005	0.00017	0.005	No	18	0.0003144	0.0001576	38.89	None	No	0.01	NP (normality)
Cadmium (mg/L)	YGWC-42	0.0005	0.0002	0.005	No	18	0.0003839	0.0001649	50	None	No	0.01	NP (normality)
Cadmium (mg/L)	YGWC-49	0.0005	0.00007	0.005	No	17	0.0004747	0.0001043	94.12	None	No	0.01	NP (NDs)
Chromium (mg/L)	PZ-35	0.005	0.0006	0.1	No	8	0.002464	0.002127	37.5	None	No	0.004	NP (normality)
Chromium (mg/L)	PZ-37	0.005	0.0019	0.1	No	15	0.004307	0.001446	80	None	No	0.01	NP (NDs)
Chromium (mg/L)	YAMW-1	0.005	0.00058	0.1	No	8	0.002422	0.002145	37.5	None	No	0.004	NP (normality)
Chromium (mg/L)	YAMW-2	0.005	0.00071	0.1	No	7	0.003001	0.002004	42.86	None	No	0.008	NP (normality)
Chromium (mg/L)	YAMW-4	0.005	0.00057	0.1	No	7	0.004367	0.001674	85.71	None	No	0.008	NP (NDs)
Chromium (mg/L)	YAMW-5	0.005	0.0016	0.1	No	7	0.004514	0.001285	85.71	None	No	0.008	NP (NDs)
Chromium (mg/L)	YGWC-23S	0.005	0.00086	0.1	No	18	0.003474	0.001985	61.11	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-24SB	0.005	0.0011	0.1	No	17	0.004302	0.001554	82.35	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-36A	0.005	0.0035	0.1	No	18	0.004249	0.001542	77.78	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-38	0.005	0.00065	0.1	No	18	0.004508	0.001431	88.89	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-41	0.005	0.00039	0.1	No	18	0.004744	0.001087	94.44	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-42	0.005	0.0013	0.1	No	18	0.004296	0.001627	83.33	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-43	0.005	0.00074	0.1	No	18	0.004032	0.001865	77.78	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-49	0.002	0.0016	0.1	No	16	0.001975	0.0008434	6.25	None	No	0.01	NP (normality)
Cobalt (mg/L)	PZ-35	0.005	0.005	0.035	No	10	0.00509	0.0002846	90	None	No	0.011	NP (NDs)
Cobalt (mg/L)	PZ-37	0.01012	0.003723	0.035	No	15	0.007327	0.004972	0	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	YAMW-1	0.0223	0.00592	0.035	No	11	0.01424	0.01018	18.18	Kaplan-Meier	No	0.01	Param.
Cobalt (mg/L)	YAMW-2	0.00446	0.0003166	0.035	No	7	0.002153	0.002202	14.29	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	YAMW-4	0.0008857	0.0003514	0.035	No	7	0.0006186	0.0002249	0	None	No	0.01	Param.
Cobalt (mg/L)	YAMW-5	0.005	0.00077	0.035	No	7	0.004396	0.001599	85.71	None	No	0.008	NP (NDs)
Cobalt (mg/L)	YGWC-36A	0.005	0.00086	0.035	No	22	0.003986	0.001915	77.27	None	No	0.01	NP (NDs)
Cobalt (mg/L)	YGWC-41	0.005	0.0011	0.035	No	18	0.004022	0.00189	77.78	None	No	0.01	NP (NDs)
Cobalt (mg/L)	YGWC-42	0.002174	0.001682	0.035	No	18	0.001928	0.000407	5.556	None	No	0.01	Param.
Cobalt (mg/L)	YGWC-43	0.005	0.0006	0.035	No	18	0.002886	0.00189	38.89	None	No	0.01	NP (normality)
Cobalt (mg/L)	YGWC-49	0.005	0.0008	0.035	No	17	0.003971	0.001914	76.47	None	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	PZ-35	0.9597	0.2765	6.92	No	9	0.6181	0.3538	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-37	1.896	1.126	6.92	No	15	1.511	0.568	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-37D	3.18	0.815	6.92	No	4	2.226	1.003	0	None	No	0.0625	NP (selected)
Combined Radium 226 + 228 (pCi/L)	PZ-52D	1.52	0.218	6.92	No	4	0.671	0.613	0	None	No	0.0625	NP (selected)
Combined Radium 226 + 228 (pCi/L)	YAMW-1	0.6923	0.3112	6.92	No	9	0.5018	0.1974	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YAMW-2	0.959	0	6.92	No	7	0.4222	0.3711	0	None	No	0.008	NP (selected)
Combined Radium 226 + 228 (pCi/L)	YAMW-4	1.111	0.1315	6.92	No	7	0.6214	0.4125	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YAMW-5	1.335	0.5175	6.92	No	7	0.9264	0.3443	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-23S	0.7919	0.3878	6.92	No	22	0.5899	0.3764	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-24SB	0.7571	0.4643	6.92	No	21	0.6107	0.2653	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-36A	0.982	0.4999	6.92	No	22	0.741	0.449	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-38	1.163	0.5665	6.92	No	18	0.8648	0.4931	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-41	1.183	0.5318	6.92	No	18	0.9081	0.5677	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-42	2.361	0.9873	6.92	No	18	1.791	1.204	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-43	3.858	1.728	6.92	No	18	2.793	1.76	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-49	1.044	0.4995	6.92	No	17	0.7719	0.4349	0	None	No	0.01	Param.
Fluoride (mg/L)	PZ-37	0.26	0.1	4	No	15	0.1567	0.1072	73.33	Kaplan-Meier	No	0.01	NP (NDs)
Fluoride (mg/L)	PZ-37D	0.4234	0.0116	4	No	4	0.2175	0.09069	0	None	No	0.01	Param.
Fluoride (mg/L)	YAMW-2	0.1	0.061	4	No	7	0.08914	0.01855	71.43	None	No	0.008	NP (NDs)

Confidence Intervals - All Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 5/16/2023, 8:25 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride (mg/L)	YAMW-4	0.1107	0.06478	4	No	7	0.1053	0.02559	42.86	Kaplan-Meier	sqrt(x)	0.01	Param.
Fluoride (mg/L)	YAMW-5	0.1	0.05	4	No	7	0.08643	0.02322	71.43	Kaplan-Meier	No	0.008	NP (NDs)
Fluoride (mg/L)	YGWC-23S	0.12	0.057	4	No	23	0.09374	0.02005	82.61	Kaplan-Meier	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-24SB	0.1	0.098	4	No	22	0.09464	0.01727	86.36	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-36A	0.1	0.094	4	No	23	0.09374	0.02997	69.57	Kaplan-Meier	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-38	0.21	0.034	4	No	19	0.1486	0.107	68.42	Kaplan-Meier	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-41	0.11	0.1	4	No	19	0.1005	0.002294	89.47	Kaplan-Meier	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-42	0.1	0.06	4	No	19	0.08547	0.0247	68.42	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-43	0.1061	0.06255	4	No	19	0.1037	0.04885	21.05	Kaplan-Meier	x^(1/3)	0.01	Param.
Fluoride (mg/L)	YGWC-49	0.14	0.09	4	No	18	0.09944	0.02363	66.67	Kaplan-Meier	No	0.01	NP (NDs)
Lead (mg/L)	PZ-35	0.001	0.000087	0.015	No	9	0.0008041	0.000389	77.78	None	No	0.002	NP (NDs)
Lead (mg/L)	PZ-37	0.001	0.0001	0.015	No	15	0.0007115	0.0004235	66.67	None	No	0.01	NP (NDs)
Lead (mg/L)	YAMW-1	0.001	0.00019	0.015	No	9	0.00091	0.00027	88.89	None	No	0.002	NP (NDs)
Lead (mg/L)	YAMW-2	0.001	0.00008	0.015	No	7	0.0007414	0.0004417	71.43	None	No	0.008	NP (NDs)
Lead (mg/L)	YAMW-4	0.001	0.000096	0.015	No	7	0.0007023	0.000393	57.14	None	No	0.008	NP (NDs)
Lead (mg/L)	YAMW-5	0.001	0.000041	0.015	No	7	0.0006034	0.000495	57.14	None	No	0.008	NP (NDs)
Lead (mg/L)	YGWC-23S	0.001	0.00044	0.015	No	20	0.0008413	0.0003325	80	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-24SB	0.001	0.00036	0.015	No	19	0.0009165	0.0002554	89.47	Kaplan-Meier	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-36A	0.0004641	0.0001697	0.015	No	20	0.0005965	0.0004298	30	Kaplan-Meier	sqrt(x)	0.01	Param.
Lead (mg/L)	YGWC-38	0.001	0.0001	0.015	No	18	0.00085	0.0003451	83.33	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-41	0.0011	0.0002	0.015	No	18	0.0008087	0.0003836	72.22	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-42	0.001	0.0002	0.015	No	18	0.0007995	0.0003871	77.78	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-43	0.001	0.00008	0.015	No	18	0.0008975	0.0002983	88.89	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-49	0.001	0.000059	0.015	No	17	0.0009446	0.0002282	94.12	None	No	0.01	NP (NDs)
Lithium (mg/L)	PZ-35	0.011	0.0011	0.04	No	10	0.00399	0.004873	10	None	No	0.011	NP (normality)
Lithium (mg/L)	PZ-37	0.032	0.017	0.04	No	15	0.03158	0.02645	6.667	None	No	0.01	NP (normality)
Lithium (mg/L)	PZ-37D	0.0167	0.0007531	0.04	No	4	0.008725	0.003511	0	None	No	0.01	Param.
Lithium (mg/L)	YAMW-1	0.02048	0.007982	0.04	No	10	0.01423	0.007003	10	None	No	0.01	Param.
Lithium (mg/L)	YAMW-3	0.05992	0.03258	0.04	No	4	0.04625	0.006021	0	None	No	0.01	Param.
Lithium (mg/L)	YAMW-4	0.03625	0.02086	0.04	No	7	0.02886	0.006986	0	None	x^2	0.01	Param.
Lithium (mg/L)	YAMW-5	0.01608	0.01306	0.04	No	7	0.01457	0.001272	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-23S	0.002681	0.002065	0.04	No	22	0.002373	0.0005742	4.545	None	No	0.01	Param.
Lithium (mg/L)	YGWC-36A	0.005916	0.002611	0.04	No	22	0.004649	0.003238	4.545	None	sqrt(x)	0.01	Param.
Lithium (mg/L)	YGWC-38	0.008605	0.007139	0.04	No	18	0.007872	0.001211	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-41	0.0043	0.0021	0.04	No	18	0.004378	0.005232	5.556	None	No	0.01	NP (normality)
Lithium (mg/L)	YGWC-42	0.04908	0.03408	0.04	No	18	0.04158	0.01239	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-43	0.01791	0.01204	0.04	No	18	0.01497	0.00485	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-49	0.003802	0.003463	0.04	No	17	0.003635	0.0002737	0	None	sqrt(x)	0.01	Param.
Mercury (mg/L)	PZ-37	0.0002	0.00019	0.002	No	15	0.00019	0.00003606	86.67	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-23S	0.0002	0.00015	0.002	No	17	0.0001911	0.00002686	88.24	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-38	0.0002	0.00008	0.002	No	15	0.0001811	0.00005045	86.67	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-41	0.0002	0.00006	0.002	No	15	0.0001907	0.00003615	93.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-42	0.0002	0.000048	0.002	No	15	0.0001899	0.00003925	93.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-43	0.0002	0.00009	0.002	No	15	0.0001828	0.00004596	86.67	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-49	0.0002	0.00014	0.002	No	14	0.0001858	0.00003931	85.71	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	PZ-35	0.01	0.0019	0.1	No	8	0.008987	0.002864	87.5	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	PZ-37	0.01	0.0015	0.1	No	15	0.005607	0.004265	46.67	None	No	0.01	NP (normality)
Molybdenum (mg/L)	PZ-37D	0.0059	0.0018	0.1	No	4	0.00345	0.001816	0	None	No	0.0625	NP (selected)
Molybdenum (mg/L)	YAMW-1	0.00368	0.001155	0.1	No	8	0.005249	0.004059	37.5	Kaplan-Meier	sqrt(x)	0.01	Param.
Molybdenum (mg/L)	YAMW-4	0.008272	0.005785	0.1	No	7	0.007029	0.001047	0	None	No	0.01	Param.
Molybdenum (mg/L)	YGWC-36A	0.01	0.0027	0.1	No	18	0.007722	0.003508	66.67	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	YGWC-42	0.01	0.00081	0.1	No	18	0.00426	0.004226	33.33	None	No	0.01	NP (normality)
Molybdenum (mg/L)	YGWC-43	0.01	0.0012	0.1	No	18	0.005039	0.004227	38.89	None	No	0.01	NP (normality)
Molybdenum (mg/L)	YGWC-49	0.01	0.0007	0.1	No	16	0.009419	0.002325	93.75	None	No	0.01	NP (NDs)
Selenium (mg/L)	PZ-35	0.005	0.003	0.05	No	10	0.0042	0.001195	60	None	No	0.011	NP (NDs)

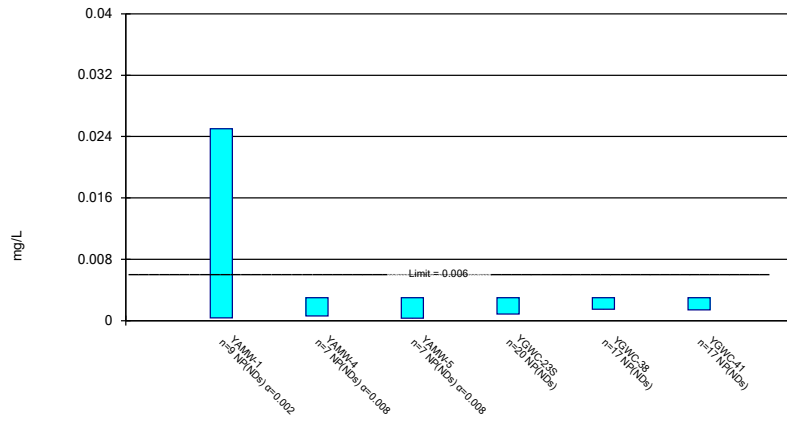
Confidence Intervals - All Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 5/16/2023, 8:25 AM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Compliance</u>	<u>Sig.</u>	<u>N</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Selenium (mg/L)	PZ-37	0.2801	0.2029	0.05	Yes	15	0.2415	0.05697	0	None	No	0.01	Param.
Selenium (mg/L)	YAMW-1	0.005	0.0027	0.05	No	10	0.00422	0.001164	50	None	No	0.011	NP (normality)
Selenium (mg/L)	YAMW-4	0.02008	0.001939	0.05	No	8	0.01322	0.008018	25	Kaplan-Meier	No	0.01	Param.
Selenium (mg/L)	YAMW-5	0.06099	0.04008	0.05	No	8	0.0505	0.01135	0	None	x^2	0.01	Param.
Selenium (mg/L)	YGWC-23S	0.03882	0.02843	0.05	No	22	0.03362	0.009677	0	None	No	0.01	Param.
Selenium (mg/L)	YGWC-36A	0.005	0.002	0.05	No	22	0.003477	0.001403	40.91	None	No	0.01	NP (normality)
Selenium (mg/L)	YGWC-38	0.246	0.064	0.05	Yes	18	0.1496	0.08206	0	None	No	0.01	NP (normality)
Selenium (mg/L)	YGWC-41	0.067	0.031	0.05	No	18	0.04877	0.01783	0	None	No	0.01	NP (normality)
Selenium (mg/L)	YGWC-42	0.05382	0.04031	0.05	No	18	0.04706	0.01116	0	None	No	0.01	Param.
Selenium (mg/L)	YGWC-49	0.008439	0.006573	0.05	No	17	0.007506	0.001489	5.882	None	No	0.01	Param.
Thallium (mg/L)	YGWC-49	0.001	0.00009	0.002	No	15	0.0009393	0.000235	93.33	None	No	0.01	NP (NDs)

Non-Parametric Confidence Interval

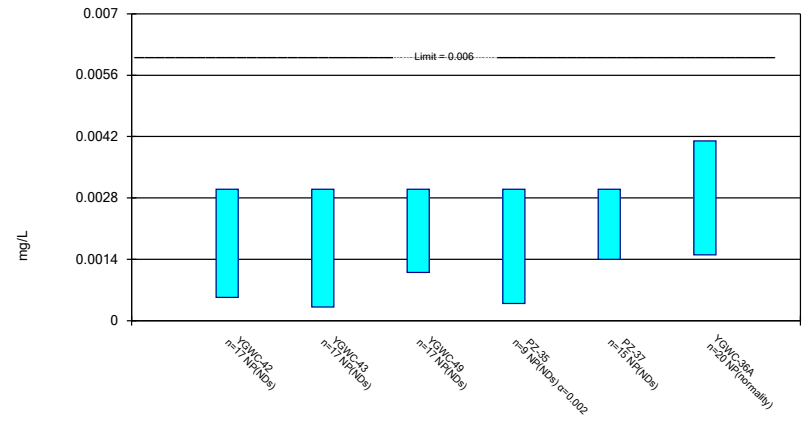
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Antimony Analysis Run 5/16/2023 8:20 AM View: Appendix IV
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Non-Parametric Confidence Interval

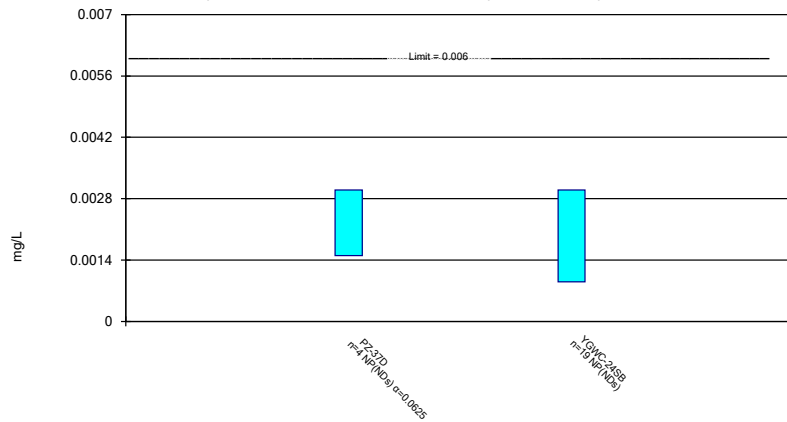
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Constituent: Antimony Analysis Run 5/16/2023 8:20 AM View: Appendix IV
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Non-Parametric Confidence Interval

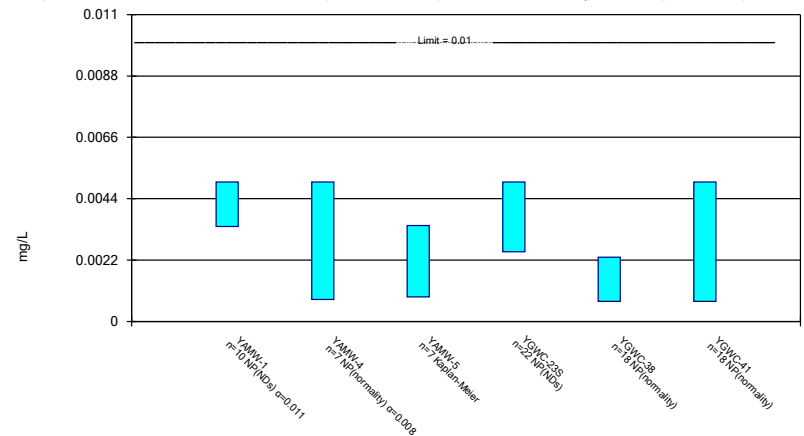
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Constituent: Antimony Analysis Run 5/16/2023 8:20 AM View: Appendix IV
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Parametric and Non-Parametric (NP) Confidence Interval

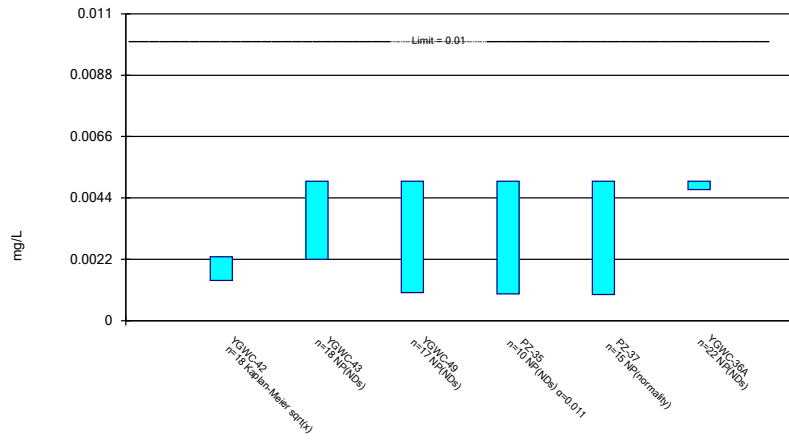
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 5/16/2023 8:20 AM View: Appendix IV
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Parametric and Non-Parametric (NP) Confidence Interval

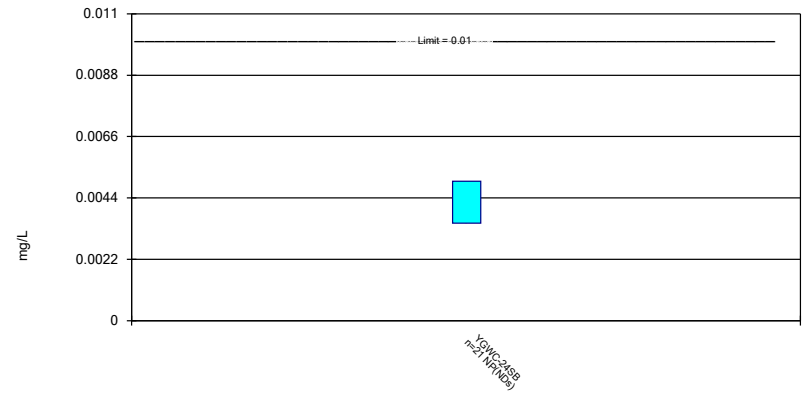
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Constituent: Arsenic Analysis Run 5/16/2023 8:20 AM View: Appendix IV
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Non-Parametric Confidence Interval

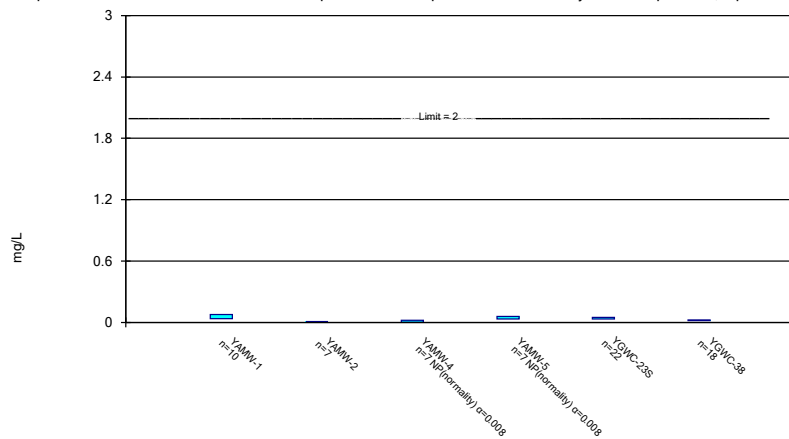
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Constituent: Arsenic Analysis Run 5/16/2023 8:20 AM View: Appendix IV
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Parametric and Non-Parametric (NP) Confidence Interval

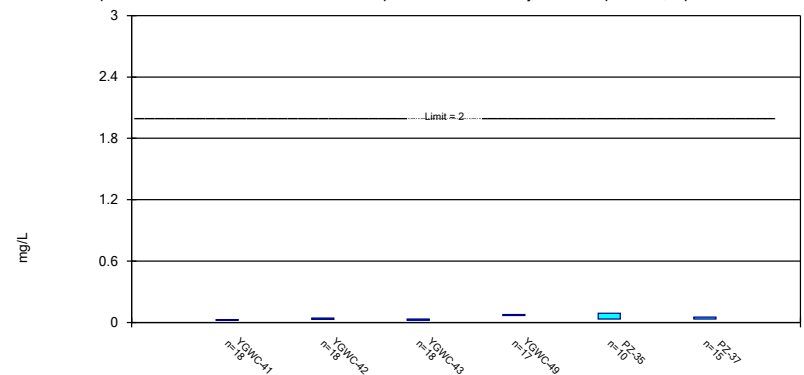
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Constituent: Barium Analysis Run 5/16/2023 8:20 AM View: Appendix IV
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Parametric Confidence Interval

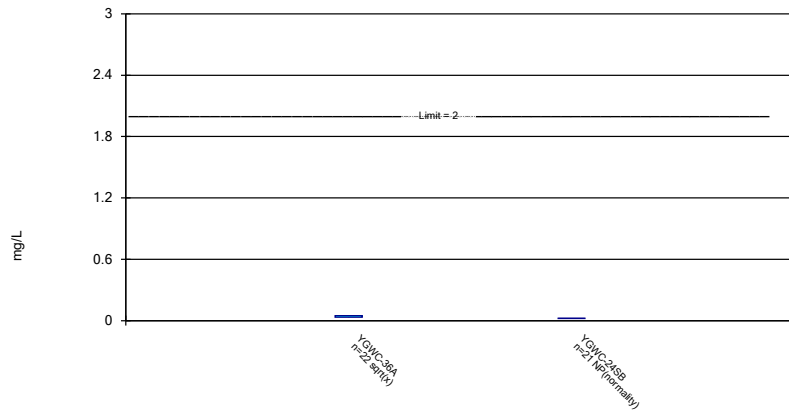
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Constituent: Barium Analysis Run 5/16/2023 8:20 AM View: Appendix IV
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Parametric and Non-Parametric (NP) Confidence Interval

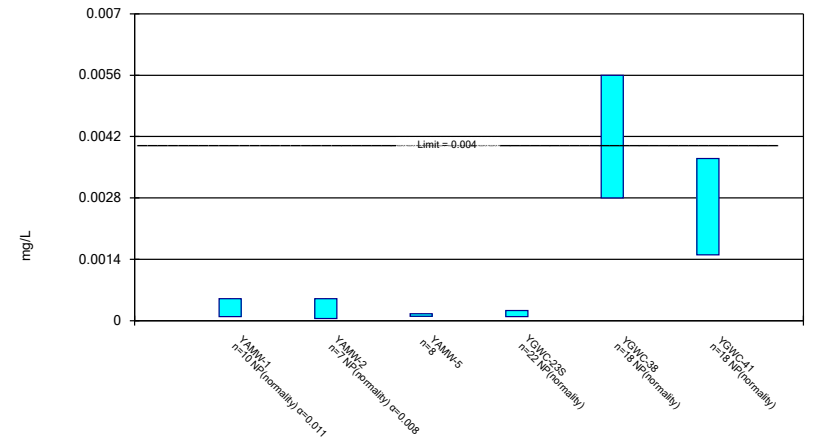
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Constituent: Barium Analysis Run 5/16/2023 8:20 AM View: Appendix IV
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Parametric and Non-Parametric (NP) Confidence Interval

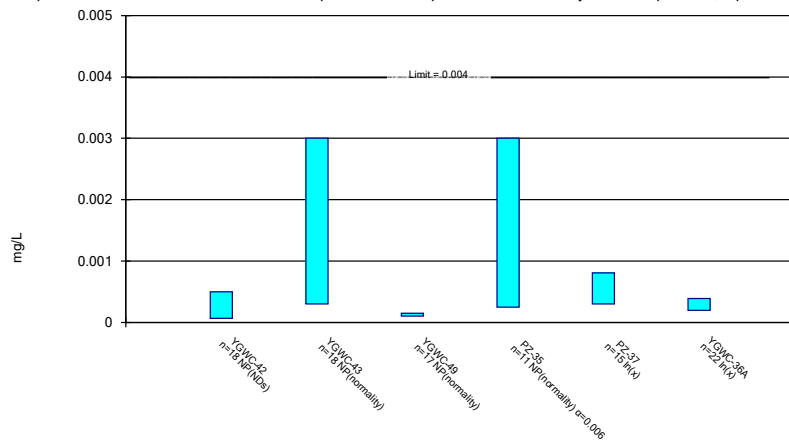
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Constituent: Beryllium Analysis Run 5/16/2023 8:21 AM View: Appendix IV
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Parametric and Non-Parametric (NP) Confidence Interval

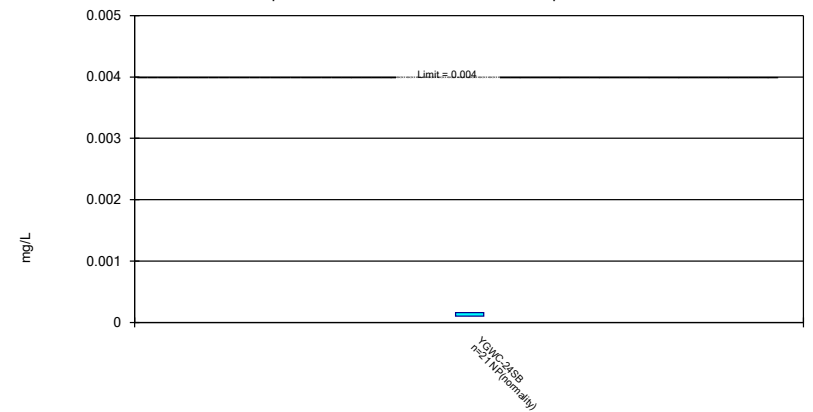
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Constituent: Beryllium Analysis Run 5/16/2023 8:21 AM View: Appendix IV
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Non-Parametric Confidence Interval

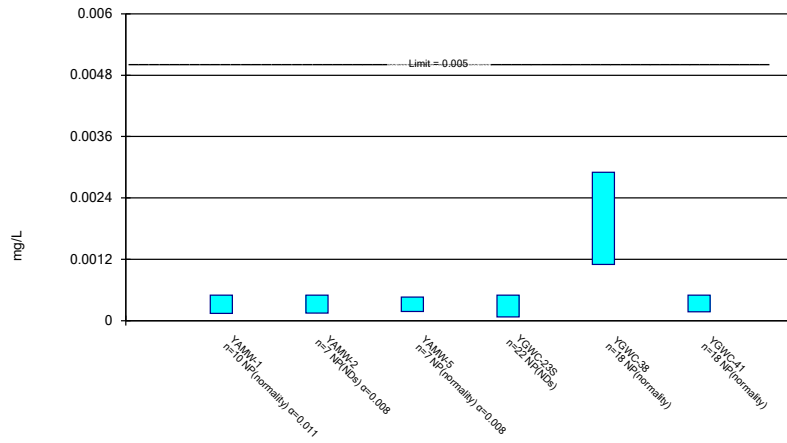
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Constituent: Beryllium Analysis Run 5/16/2023 8:21 AM View: Appendix IV
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Non-Parametric Confidence Interval

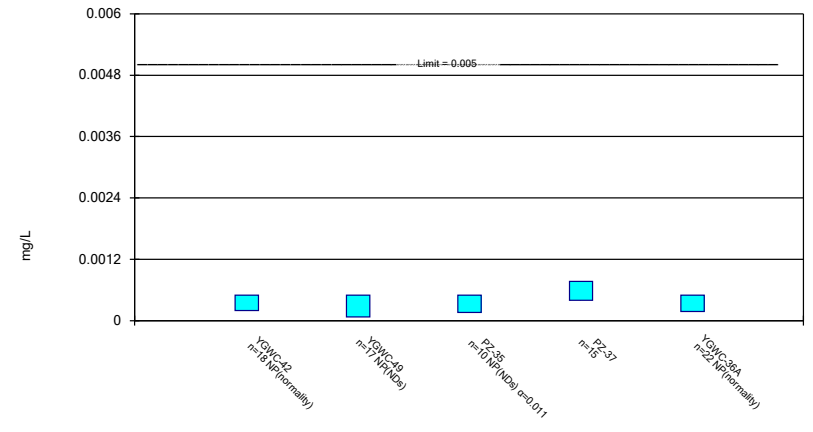
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Constituent: Cadmium Analysis Run 5/16/2023 8:21 AM View: Appendix IV
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Parametric and Non-Parametric (NP) Confidence Interval

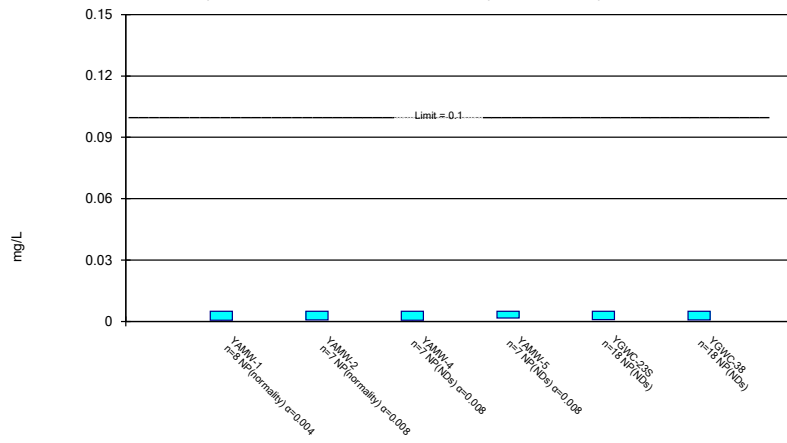
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cadmium Analysis Run 5/16/2023 8:21 AM View: Appendix IV
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Non-Parametric Confidence Interval

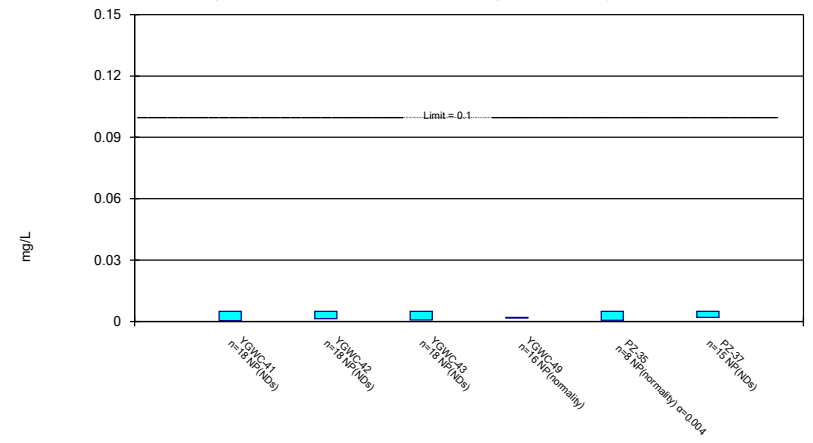
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Constituent: Chromium Analysis Run 5/16/2023 8:21 AM View: Appendix IV
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Non-Parametric Confidence Interval

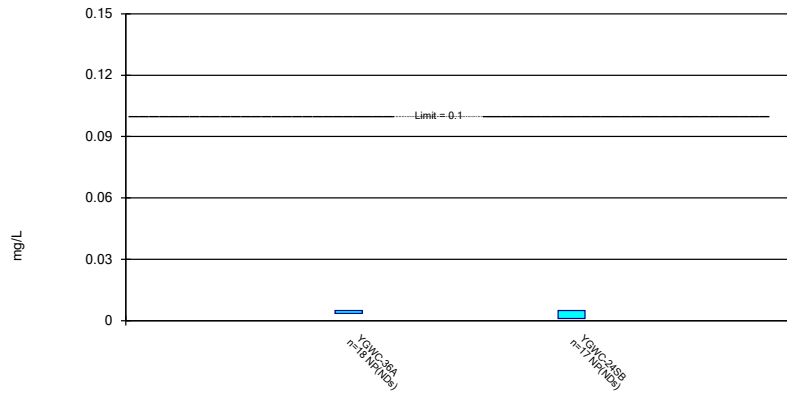
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Chromium Analysis Run 5/16/2023 8:21 AM View: Appendix IV
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Non-Parametric Confidence Interval

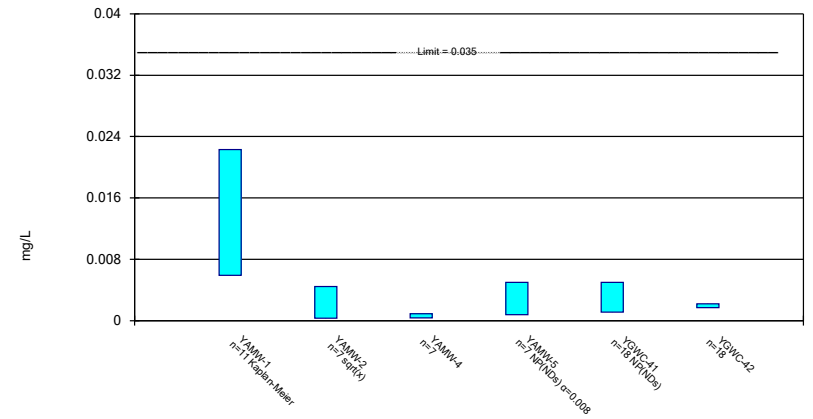
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Constituent: Chromium Analysis Run 5/16/2023 8:21 AM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Parametric and Non-Parametric (NP) Confidence Interval

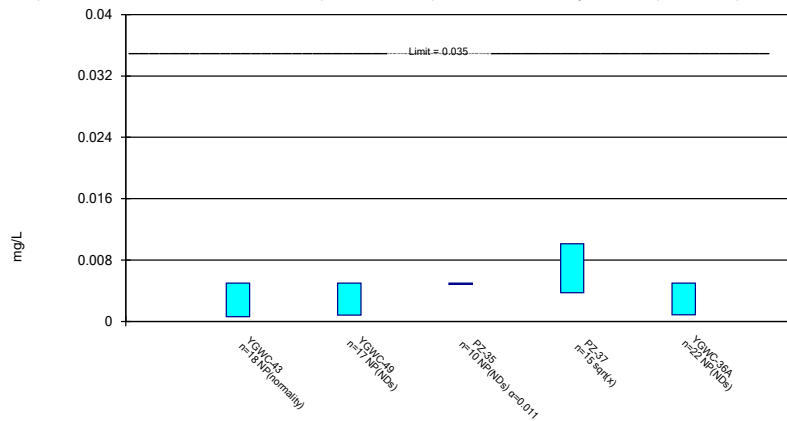
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Constituent: Cobalt Analysis Run 5/16/2023 8:21 AM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Parametric and Non-Parametric (NP) Confidence Interval

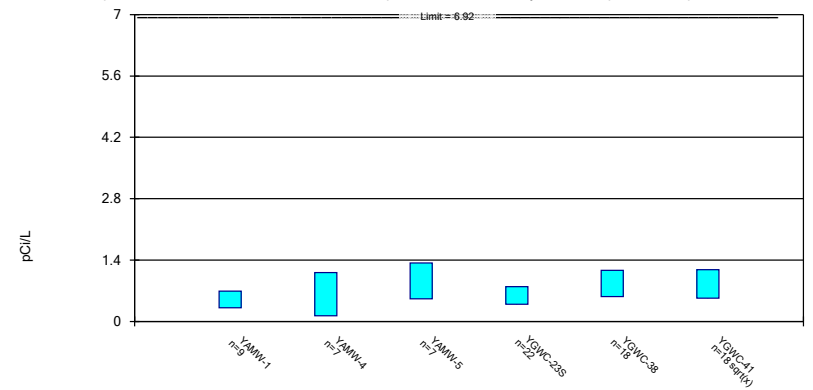
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 5/16/2023 8:21 AM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Parametric Confidence Interval

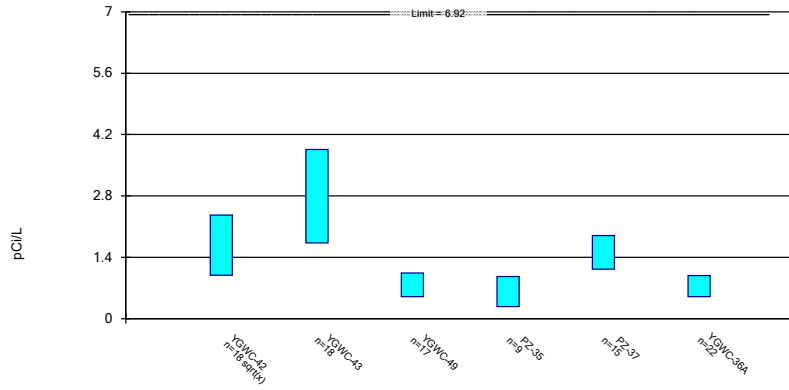
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 5/16/2023 8:21 AM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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 5/16/2023 8:21 AM View: Appendix IV
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Parametric Confidence Interval

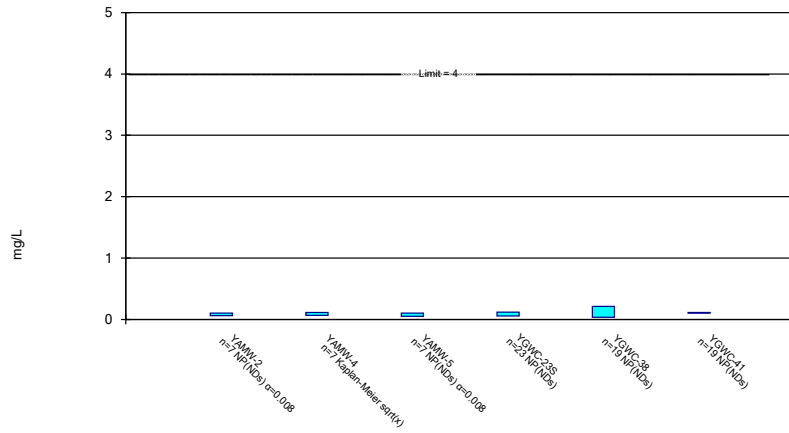
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 5/16/2023 8:21 AM View: Appendix IV
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Parametric and Non-Parametric (NP) Confidence Interval

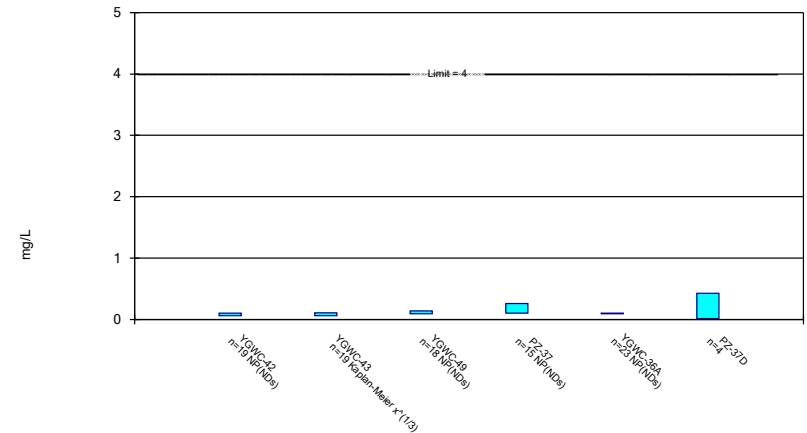
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 5/16/2023 8:21 AM View: Appendix IV
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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 5/16/2023 8:21 AM View: Appendix IV
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Non-Parametric Confidence Interval

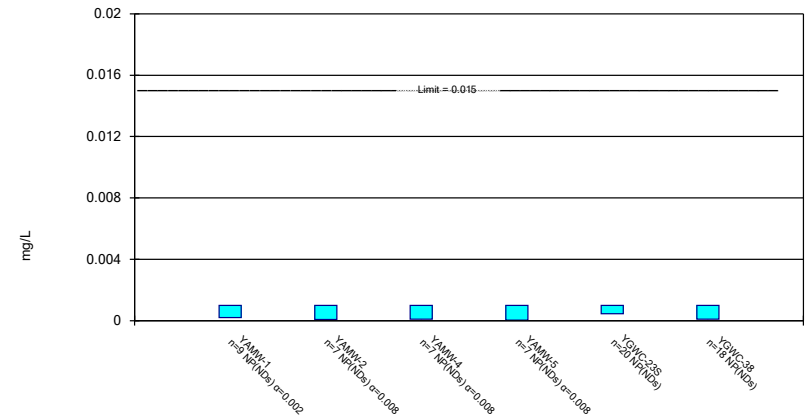
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Fluoride Analysis Run 5/16/2023 8:21 AM View: Appendix IV
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Non-Parametric Confidence Interval

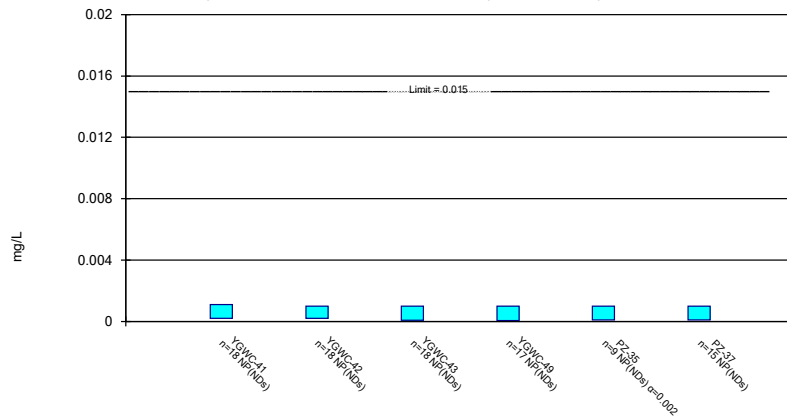
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Lead Analysis Run 5/16/2023 8:21 AM View: Appendix IV
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Non-Parametric Confidence Interval

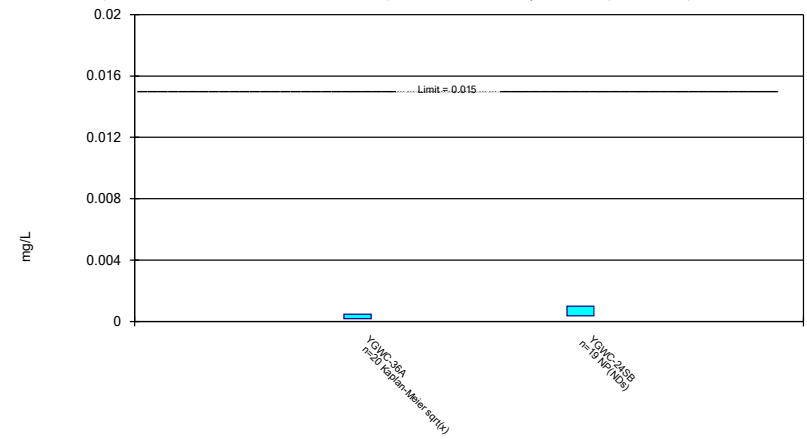
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Lead Analysis Run 5/16/2023 8:21 AM View: Appendix IV
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Parametric and Non-Parametric (NP) Confidence Interval

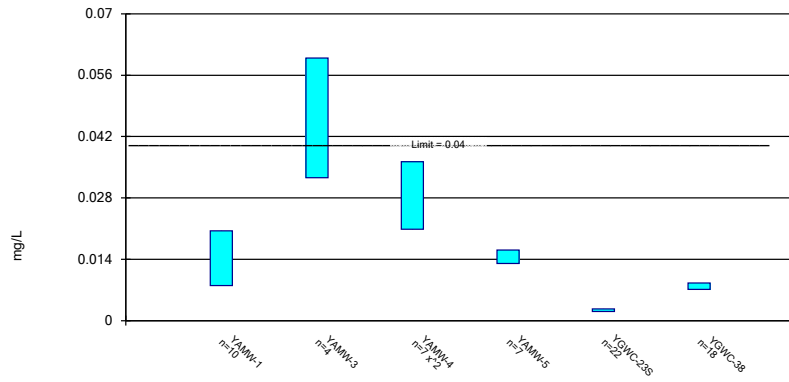
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lead Analysis Run 5/16/2023 8:21 AM View: Appendix IV
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Parametric Confidence Interval

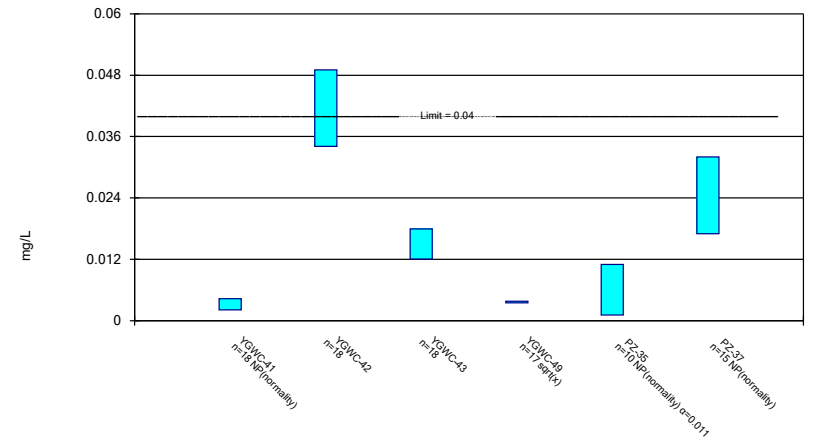
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 5/16/2023 8:21 AM View: Appendix IV
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Parametric and Non-Parametric (NP) Confidence Interval

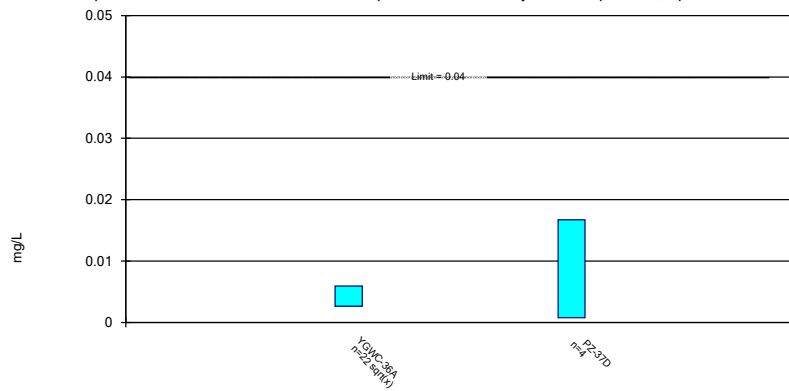
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 5/16/2023 8:21 AM View: Appendix IV
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Parametric Confidence Interval

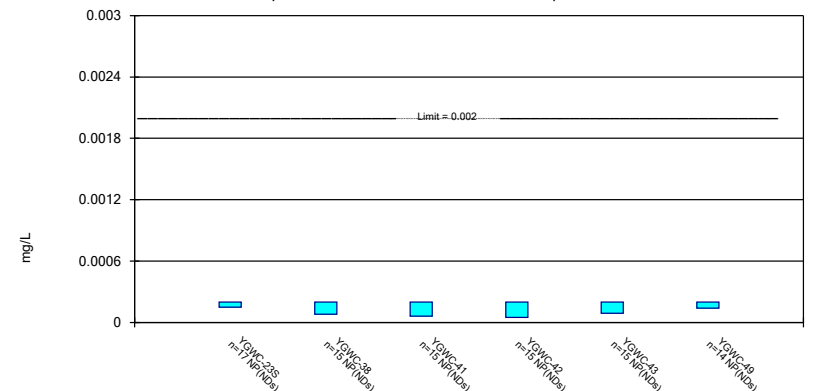
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 5/16/2023 8:21 AM View: Appendix IV
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Non-Parametric Confidence Interval

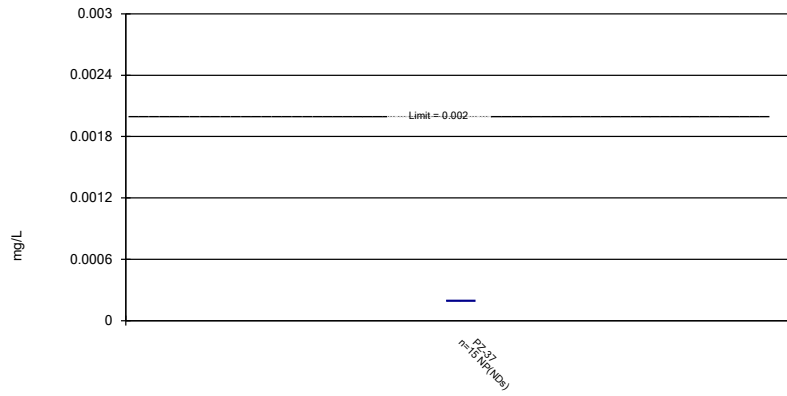
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Mercury Analysis Run 5/16/2023 8:21 AM View: Appendix IV
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Non-Parametric Confidence Interval

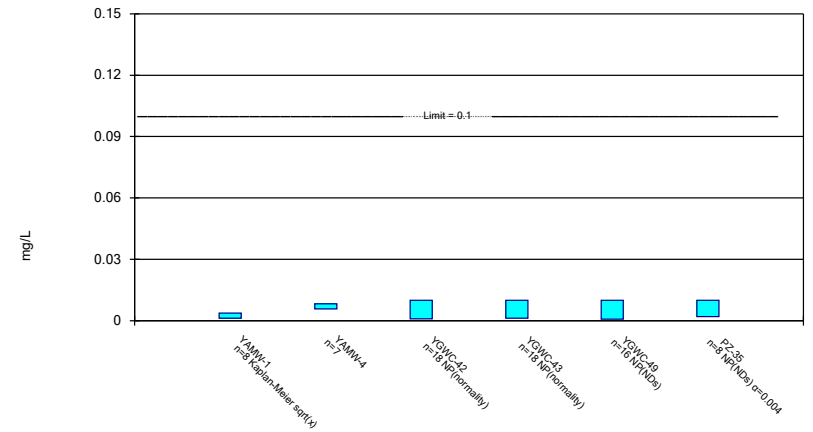
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Mercury Analysis Run 5/16/2023 8:21 AM View: Appendix IV
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Parametric and Non-Parametric (NP) Confidence Interval

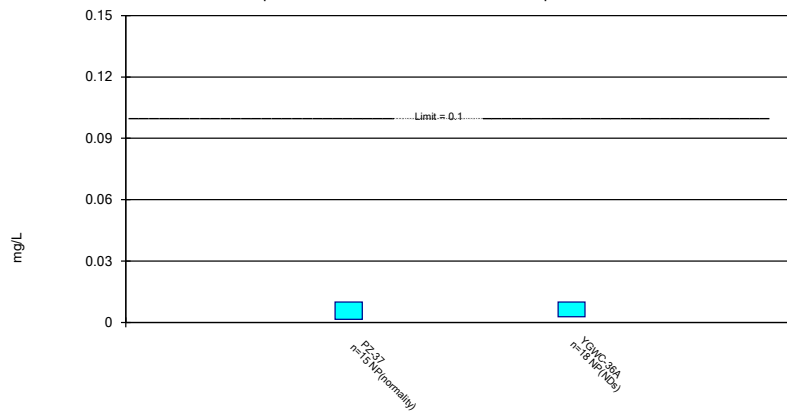
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 5/16/2023 8:21 AM View: Appendix IV
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Non-Parametric Confidence Interval

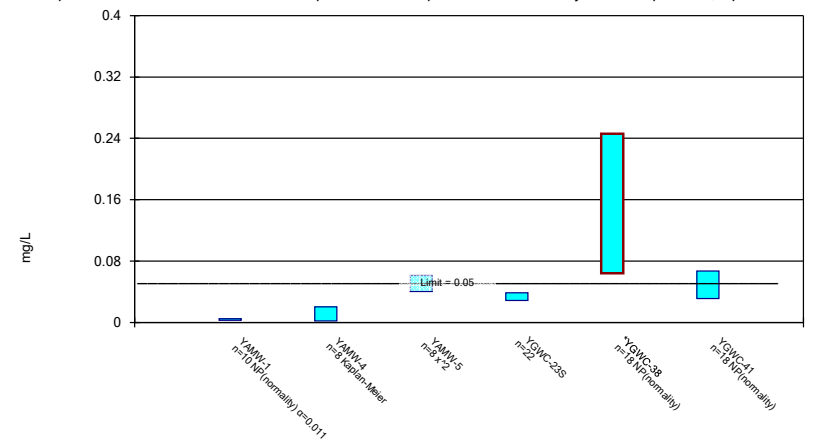
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Molybdenum Analysis Run 5/16/2023 8:21 AM View: Appendix IV
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Parametric and Non-Parametric (NP) Confidence Interval

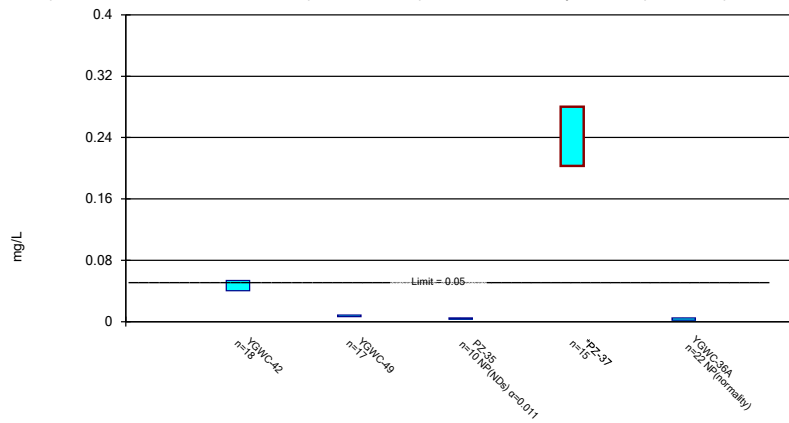
Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 5/16/2023 8:21 AM View: Appendix IV
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Parametric and Non-Parametric (NP) Confidence Interval

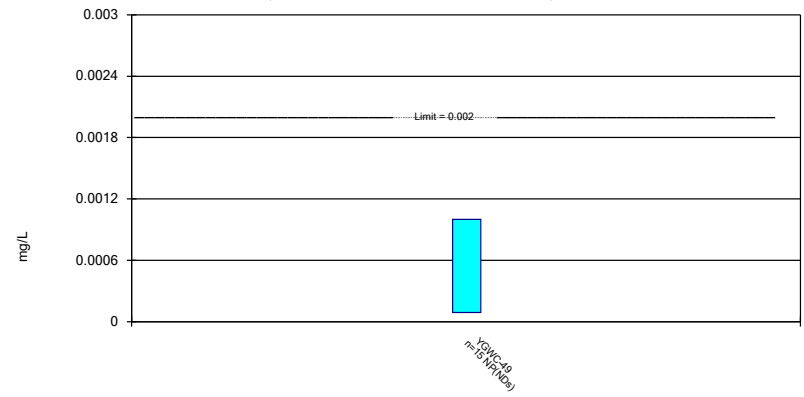
Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 5/16/2023 8:22 AM View: Appendix IV
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Thallium Analysis Run 5/16/2023 8:22 AM View: Appendix IV
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 5/16/2023 8:25 AM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-4	YAMW-5	YGWC-23S	YGWC-38	YGWC-41
6/7/2016				<0.003		
7/28/2016				<0.003		
9/20/2016				<0.003		
11/8/2016				<0.003		
1/16/2017				<0.003		
3/9/2017				<0.003		
5/2/2017				<0.003		
7/10/2017				<0.003		
10/12/2017					<0.003	<0.003
11/20/2017					<0.003	
11/21/2017						<0.003
1/11/2018						<0.003
1/12/2018					<0.003	
2/19/2018						<0.003
2/20/2018					<0.003	
3/30/2018				<0.003		
4/3/2018					<0.003	<0.003
6/27/2018						<0.003
6/28/2018					<0.003	
8/7/2018					0.0015 (J)	<0.003
9/24/2018					<0.003	<0.003
3/6/2019				<0.003		
4/4/2019				<0.003		
8/22/2019					<0.003	<0.003
9/26/2019	<0.003					
9/27/2019				0.00029 (J)		
3/25/2020	<0.003				0.00063 (J)	<0.003
3/26/2020				<0.003		
9/23/2020		0.00065 (J)				
9/24/2020	<0.003		0.00033 (J)	0.00085 (J)		
9/25/2020					0.00061 (J)	<0.003
2/9/2021	0.00037 (J)	0.0011 (J)	<0.003	0.00052 (J)	0.00031 (J)	
2/10/2021						0.0014 (J)
3/3/2021	0.025	0.00062 (J)				
3/4/2021			<0.003	<0.003	<0.003	<0.003
8/25/2021		<0.003		<0.003		
8/26/2021			<0.003		<0.003	<0.003
9/1/2021	0.0024 (J)					
2/8/2022						<0.003
2/10/2022	<0.003	<0.003	<0.003	<0.003	<0.003	
8/31/2022	0.0016 (J)					
9/1/2022		<0.003	<0.003	<0.003	<0.003	<0.003
2/8/2023		<0.003	<0.003	<0.003	<0.003	<0.003
2/9/2023	<0.003					
Mean	0.00493	0.002053	0.002619	0.002633	0.002474	0.002906
Std. Dev.	0.007581	0.001191	0.001009	0.000901	0.001003	0.0003881
Upper Lim.	0.025	0.003	0.003	0.003	0.003	0.003
Lower Lim.	0.00037	0.00062	0.00033	0.00085	0.0015	0.0014

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 5/16/2023 8:25 AM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-42	YGWC-43	YGWC-49	PZ-35	PZ-37	YGWC-36A
8/30/2016	<0.003					
8/31/2016		<0.003				
9/1/2016			<0.003			
9/2/2016						<0.003
11/14/2016						0.0014 (J)
11/15/2016			<0.003			
11/16/2016	<0.003	<0.003				
2/24/2017		<0.003				
2/27/2017	<0.003		0.0011 (J)			
2/28/2017						0.0004 (J)
5/9/2017			<0.003			<0.003
5/10/2017	<0.003	<0.003				
7/11/2017	<0.003	<0.003				
7/13/2017			<0.003			<0.003
9/22/2017						<0.003
9/29/2017						<0.003
10/6/2017						<0.003
10/11/2017			<0.003			
10/12/2017	<0.003	<0.003			<0.003	
11/21/2017					<0.003	
1/11/2018					<0.003	
2/20/2018					<0.003	
3/30/2018						<0.003
4/3/2018					<0.003	
4/4/2018	<0.003	<0.003	<0.003			
6/29/2018					<0.003	
8/6/2018					<0.003	
9/20/2018	<0.003	<0.003	<0.003			
9/24/2018					<0.003	
3/6/2019						0.0011 (J)
4/4/2019						0.0041
8/21/2019		<0.003				
8/22/2019	<0.003					
9/26/2019			<0.003	<0.003		0.0065
3/25/2020	<0.003	0.00031 (J)	0.00053 (J)	<0.003		0.0011 (J)
9/24/2020	<0.003		<0.003	<0.003		
9/25/2020		<0.003			0.0014 (J)	
10/7/2020						<0.003
2/9/2021		<0.003	<0.003		0.00035 (J)	
2/10/2021	0.00053 (J)			<0.003		0.028
3/4/2021	<0.003	<0.003	<0.003	0.00039 (J)	<0.003	0.0015 (J)
8/25/2021	<0.003				<0.003	
9/1/2021			<0.003	<0.003		
9/3/2021						0.0016 (J)
9/27/2021		<0.003				
2/8/2022		<0.003	<0.003			
2/10/2022	<0.003			<0.003	<0.003	
2/11/2022						0.0023 (J)
8/31/2022			<0.003	<0.003		
9/1/2022	<0.003	<0.003			0.00091 (J)	<0.003
2/8/2023	<0.003	<0.003			<0.003	
2/9/2023			<0.003	<0.003		<0.003

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 5/16/2023 8:25 AM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-42	YGWC-43	YGWC-49	PZ-35	PZ-37	YGWC-36A
Mean	0.002855	0.002842	0.002743	0.00271	0.002577	0.0039
Std. Dev.	0.0005991	0.0006524	0.0007326	0.00087	0.0008973	0.00582
Upper Lim.	0.003	0.003	0.003	0.003	0.003	0.0041
Lower Lim.	0.00053	0.00031	0.0011	0.00039	0.0014	0.0015

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 5/16/2023 8:25 AM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-37D	YGWC-24SB
6/8/2016		<0.003
8/1/2016		<0.003
9/20/2016		0.0009 (J)
11/8/2016		<0.003
1/17/2017		<0.003
3/8/2017		<0.003
5/2/2017		<0.003
7/7/2017		<0.003
3/30/2018		<0.003
3/5/2019		<0.003
4/4/2019		<0.003
9/26/2019		<0.003
3/26/2020		<0.003
9/23/2020		<0.003
2/9/2021		<0.003
3/3/2021		<0.003
9/1/2021		<0.003
9/3/2021	<0.003	
2/10/2022		<0.003
2/11/2022	<0.003	
9/1/2022	<0.003	
2/8/2023	0.0015 (J)	
2/10/2023		<0.003
Mean	0.002625	0.002889
Std. Dev.	0.00075	0.0004818
Upper Lim.	0.003	0.003
Lower Lim.	0.0015	0.0009

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 5/16/2023 8:25 AM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-4	YAMW-5	YGWC-23S	YGWC-38	YGWC-41
6/7/2016				<0.005		
7/28/2016				<0.005		
9/20/2016				<0.005		
11/8/2016				<0.005		
1/16/2017				<0.005		
3/9/2017				<0.005		
5/2/2017				<0.005		
7/10/2017				<0.005		
10/12/2017					0.0023 (J)	0.0011 (J)
11/20/2017					0.0008 (J)	
11/21/2017						<0.005
1/11/2018						<0.005
1/12/2018					0.001 (J)	
2/19/2018						<0.005
2/20/2018					0.00096 (J)	
3/30/2018				<0.005		
4/3/2018					0.0015 (J)	0.00072 (J)
6/12/2018				<0.005		
6/27/2018						0.00062 (J)
6/28/2018					0.0017 (J)	
8/7/2018					0.00072 (J)	<0.005
9/24/2018					0.0017 (J)	0.001 (J)
9/27/2018				<0.005		
10/16/2018	<0.005					
3/6/2019				<0.005		
4/4/2019				<0.005		
8/22/2019					0.00055 (J)	0.00036 (J)
9/26/2019	<0.005					
9/27/2019				<0.005		
10/9/2019					0.00057 (J)	0.00052 (J)
3/25/2020	<0.005				0.00068 (J)	0.001 (J)
3/26/2020				0.0012 (J)		
9/23/2020		<0.005				
9/24/2020	<0.005		0.0015 (J)	<0.005		
9/25/2020					<0.005	<0.005
2/9/2021	<0.005	0.001 (J)	0.00095 (J)	<0.005	0.00098 (J)	
2/10/2021						<0.005
3/3/2021	<0.005	0.00079 (J)				
3/4/2021			<0.005	<0.005	<0.005	<0.005
8/25/2021		<0.005		<0.005		
8/26/2021			<0.005		0.0013 (J)	<0.005
9/1/2021	<0.005					
2/8/2022						0.0021 (J)
2/10/2022	0.0023 (J)	0.0026 (J)	0.0024 (J)	0.0025 (J)	0.0017 (J)	
8/31/2022	<0.005					
9/1/2022		<0.005	<0.005	<0.005	<0.005	<0.005
2/8/2023		0.0037 (J)	0.0038 (J)	<0.005	<0.005	0.0027 (J)
2/9/2023	0.0034 (J)					
Mean	0.00457	0.003299	0.003379	0.004714	0.002026	0.003062
Std. Dev.	0.0009429	0.001867	0.001754	0.0009483	0.001701	0.002064
Upper Lim.	0.005	0.005	0.003443	0.005	0.0023	0.005
Lower Lim.	0.0034	0.00079	0.0008822	0.0025	0.00072	0.00072

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 5/16/2023 8:25 AM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-42	YGWC-43	YGWC-49	PZ-35	PZ-37	YGWC-36A
8/30/2016	0.0023 (J)					
8/31/2016		<0.005				
9/1/2016			<0.005			
9/2/2016						<0.005
11/14/2016						<0.005
11/15/2016			<0.005			
11/16/2016	0.0017 (J)	<0.005				
2/24/2017		<0.005				
2/27/2017	0.002 (J)		<0.005			
2/28/2017						0.0006 (J)
5/9/2017			<0.005			0.0006 (J)
5/10/2017	0.0022 (J)	<0.005				
7/11/2017	0.003 (J)	<0.005				
7/13/2017			<0.005			<0.005
9/22/2017						<0.005
9/29/2017						<0.005
10/6/2017						<0.005
10/11/2017			0.0006 (J)			
10/12/2017	0.0031 (J)	<0.005			0.0014 (J)	
11/21/2017					0.0008 (J)	
1/11/2018					0.0006 (J)	
2/20/2018					<0.005	
3/30/2018						<0.005
4/3/2018					0.0012 (J)	
4/4/2018	0.0023 (J)	<0.005	<0.005			
6/13/2018						0.00066 (J)
6/29/2018					0.0011 (J)	
8/6/2018					<0.005	
9/20/2018	0.0018 (J)	0.00099 (J)	0.001 (J)			
9/24/2018					0.00094 (J)	
9/26/2018						<0.005
10/16/2018				0.00069 (J)		
3/6/2019						<0.005
4/4/2019						<0.005
8/21/2019		<0.005				
8/22/2019	0.00089 (J)					
9/26/2019			<0.005	<0.005		<0.005
10/9/2019	0.00078 (J)	0.00051 (J)				
3/25/2020	0.0013 (J)	0.0007 (J)	0.00086 (J)	<0.005		<0.005
9/24/2020	<0.005		<0.005	<0.005		
9/25/2020		<0.005			<0.005	
10/7/2020						<0.005
2/9/2021		<0.005	<0.005		0.0015 (J)	
2/10/2021	0.0016 (J)			0.00096 (J)		0.00088 (J)
3/4/2021	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
8/25/2021	0.0014 (J)				0.0014 (J)	
9/1/2021			<0.005	<0.005		
9/3/2021						<0.005
9/27/2021		<0.005				
2/8/2022		0.0022 (J)	<0.005			
2/10/2022	0.0026 (J)			0.0018 (J)	0.0017 (J)	
2/11/2022						0.0014 (J)

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 5/16/2023 8:25 AM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-42	YGWC-43	YGWC-49	PZ-35	PZ-37	YGWC-36A
8/31/2022			<0.005	<0.005		
9/1/2022	<0.005	<0.005			<0.005	<0.005
2/8/2023	0.0025 (J)	0.0033 (J)			<0.005	
2/9/2023			<0.005	0.0028 (J)		0.0047 (J)
Mean	0.002471	0.004039	0.004262	0.003625	0.002709	0.004038
Std. Dev.	0.001327	0.001695	0.001644	0.001858	0.001955	0.001789
Upper Lim.	0.002295	0.005	0.005	0.005	0.005	0.005
Lower Lim.	0.001445	0.0022	0.001	0.00096	0.00094	0.0047

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 5/16/2023 8:25 AM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-24SB
6/8/2016	<0.005
8/1/2016	<0.005
9/20/2016	<0.005
11/8/2016	<0.005
1/17/2017	<0.005
3/8/2017	<0.005
5/2/2017	<0.005
7/7/2017	<0.005
3/30/2018	<0.005
6/12/2018	<0.005
9/26/2018	<0.005
3/5/2019	<0.005
4/4/2019	<0.005
9/26/2019	<0.005
3/26/2020	0.0015 (J)
9/23/2020	<0.005
2/9/2021	<0.005
3/3/2021	<0.005
9/1/2021	<0.005
2/10/2022	0.0024 (J)
2/10/2023	0.0035 (J)
Mean	0.004638
Std. Dev.	0.000962
Upper Lim.	0.005
Lower Lim.	0.0035

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 5/16/2023 8:25 AM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-4	YAMW-5	YGWC-23S	YGWC-38
6/7/2016					0.045	
7/28/2016					0.0511	
9/20/2016					0.0561	
11/8/2016					0.054	
1/16/2017					0.0528	
3/9/2017					0.0469	
5/2/2017					0.0427	
7/10/2017					0.0395	
10/12/2017						0.0269
11/20/2017						0.0255
1/12/2018						0.0236
2/20/2018						0.0255
3/30/2018					0.03	
4/3/2018						0.023
6/12/2018					0.024	
6/28/2018						0.024
8/7/2018						0.023
9/24/2018						0.021
9/27/2018					0.022	
10/16/2018	0.048					
3/6/2019					0.019	
4/4/2019					0.019	
8/22/2019						0.019
9/26/2019	0.047					
9/27/2019					0.018	
10/9/2019						0.019
3/25/2020	0.04					0.018
3/26/2020					0.027	
9/23/2020		0.0092 (J)	0.0063 (J)			
9/24/2020	0.028			0.057	0.035	
9/25/2020						0.015
2/9/2021	0.039	0.0085 (J)	0.02	0.042	0.042	0.016
3/3/2021	0.035	0.0082	0.021			
3/4/2021				0.039	0.043	0.016
8/25/2021			0.0037 (J)		0.049	
8/26/2021				0.036		0.016
9/1/2021	0.075	0.0072				
2/10/2022	0.084	0.0074	0.0033 (J)	0.034	0.058	0.016
8/31/2022	0.085					
9/1/2022		0.0092	0.003 (J)	0.034	0.053	0.014
2/8/2023		0.0064	0.003 (J)	0.039	0.053	0.016
2/9/2023	0.078					
Mean	0.0559	0.008014	0.008614	0.04014	0.04	0.01986
Std. Dev.	0.02207	0.001059	0.008204	0.007988	0.01348	0.00422
Upper Lim.	0.07559	0.009272	0.021	0.057	0.04724	0.02241
Lower Lim.	0.03621	0.006756	0.003	0.034	0.03277	0.01731

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 5/16/2023 8:25 AM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-41	YGWC-42	YGWC-43	YGWC-49	PZ-35	PZ-37
8/30/2016		0.0455				
8/31/2016			0.0065 (J)			
9/1/2016				0.077		
11/15/2016				0.0772		
11/16/2016		0.0541	0.0092 (J)			
2/24/2017			0.0144			
2/27/2017		0.0573		0.0888		
5/9/2017				0.0792		
5/10/2017		0.0517	0.0173			
7/11/2017		0.0451	0.0183			
7/13/2017				0.0839		
10/11/2017				0.078		
10/12/2017	0.0394	0.0429	0.0205			0.064
11/21/2017	0.032					0.0579
1/11/2018	0.03					0.0549
2/19/2018	0.0308					
2/20/2018						0.0593
4/3/2018	0.03					0.051
4/4/2018		0.041	0.024	0.074		
6/27/2018	0.028					
6/29/2018						0.054
8/6/2018						0.048
8/7/2018	0.027					
9/20/2018		0.038	0.035	0.074		
9/24/2018	0.026					0.047
10/16/2018					0.063	
8/21/2019			0.03			
8/22/2019	0.021	0.031				
9/26/2019				0.065	0.039	
10/9/2019	0.021	0.027	0.04			
3/25/2020	0.021	0.03	0.033	0.071	0.039	
9/24/2020		0.026		0.066	0.034	
9/25/2020	0.016		0.046			0.034
2/9/2021			0.041	0.071		0.036
2/10/2021	0.017	0.031			0.032	
3/4/2021	0.017	0.03	0.039	0.069	0.033	0.036
8/25/2021		0.027				0.035
8/26/2021	0.018					
9/1/2021				0.066	0.067	
9/27/2021			0.0097			
2/8/2022	0.021		0.029	0.07		
2/10/2022		0.026			0.074	0.029
8/31/2022				0.058	0.1	
9/1/2022	0.019	0.023	0.029			0.023
2/8/2023	0.022	0.023	0.031			0.022
2/9/2023				0.063	0.13	
Mean	0.02423	0.03609	0.02627	0.07242	0.0611	0.04341
Std. Dev.	0.006464	0.01111	0.01191	0.007833	0.03302	0.01356
Upper Lim.	0.02814	0.04281	0.03348	0.07733	0.09056	0.05259
Lower Lim.	0.02032	0.02937	0.01907	0.06751	0.03164	0.03422

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 5/16/2023 8:25 AM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-36A	YGWC-24SB
6/8/2016		0.02
8/1/2016		0.02
9/2/2016	0.0409	
9/20/2016		0.0203
11/8/2016		0.0191
11/14/2016	0.0182	
1/17/2017		0.0192
2/28/2017	0.023	
3/8/2017		0.0189
5/2/2017		0.019
5/9/2017	0.0349	
7/7/2017		0.019
7/13/2017	0.0484	
9/22/2017	0.0491	
9/29/2017	0.0452	
10/6/2017	0.0508	
3/30/2018	0.043	0.02
6/12/2018		0.018
6/13/2018	0.046	
9/26/2018	0.048	0.019
3/5/2019		0.019
3/6/2019	0.041	
4/4/2019	0.042	0.02
9/26/2019	0.025	0.017
3/25/2020	0.025	
3/26/2020		0.019
9/23/2020		0.026
10/7/2020	0.04	
2/9/2021		0.031
2/10/2021	0.035	
3/3/2021		0.025
3/4/2021	0.028	
9/1/2021		0.025
9/3/2021	0.038	
2/10/2022		0.026
2/11/2022	0.044	
9/1/2022	0.059	
2/9/2023	0.097	
2/10/2023		0.031
Mean	0.04189	0.0215
Std. Dev.	0.016	0.004108
Upper Lim.	0.04891	0.025
Lower Lim.	0.03307	0.019

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 5/16/2023 8:25 AM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-5	YGWC-23S	YGWC-38	YGWC-41
6/7/2016				<0.003		
7/28/2016				<0.003		
9/20/2016				0.0001 (J)		
11/8/2016				<0.003		
1/16/2017				0.0001 (J)		
3/9/2017				0.0001 (J)		
5/2/2017				9E-05 (J)		
7/10/2017				<0.003		
10/12/2017					0.0057	0.0036
11/20/2017					0.0053	
11/21/2017						0.0036
1/11/2018						0.0037
1/12/2018					0.0053	
2/19/2018						0.0039
2/20/2018					0.0053	
3/30/2018				<0.003		
4/3/2018					0.0056	0.0037
6/12/2018				8.1E-05 (J)		
6/27/2018						0.0038
6/28/2018					0.0059	
8/7/2018					0.0058	0.0037
9/24/2018					0.0051	0.0032
9/27/2018				9E-05 (J)		
10/16/2018	<0.0005					
3/6/2019				6.6E-05 (J)		
4/4/2019				7.2E-05 (J)		
8/22/2019					0.0049	0.0026 (J)
9/26/2019	<0.0005					
9/27/2019				7.7E-05 (J)		
10/9/2019					0.0046	0.0026 (J)
1/15/2020			0.00017 (J)			
3/25/2020	0.00037 (J)				0.0038	0.0026 (J)
3/26/2020				9E-05 (J)		
9/23/2020		<0.0005				
9/24/2020	5.8E-05 (J)		8.6E-05 (J)	0.00015 (J)		
9/25/2020					0.0033	0.002 (J)
2/9/2021	<0.0005	5.1E-05 (J)	0.00015 (J)	0.00015 (J)	0.0029 (J)	
2/10/2021						0.0015 (J)
3/3/2021	<0.0005	<0.0005				
3/4/2021			0.00013 (J)	0.00013 (J)	0.0029	0.0015
8/25/2021				0.00019 (J)		
8/26/2021			0.00012 (J)		0.0028	0.0012
9/1/2021	9.5E-05 (J)	6.5E-05 (J)				
2/8/2022						0.0016
2/10/2022	0.00016 (J)	7.4E-05 (J)	0.00013 (J)	0.00023 (J)	0.0027	
8/31/2022	0.00011 (J)					
9/1/2022		5.7E-05 (J)	0.00011 (J)	0.00019 (J)	0.0022	0.0013
2/8/2023		5.5E-05 (J)	0.00013 (J)	0.00022 (J)	0.002	0.0013
2/9/2023	0.00012 (J)					
Mean	0.0002913	0.000186	0.0001283	0.0007785	0.004228	0.002633
Std. Dev.	0.000198	0.0002146	2.51E-05	0.001234	0.001375	0.001035
Upper Lim.	0.0005	0.0005	0.0001549	0.00023	0.0056	0.0037

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 5/16/2023 8:25 AM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-5	YGWC-23S	YGWC-38	YGWC-41
Lower Lim.	9.5E-05	5.1E-05	0.0001016	9E-05	0.0028	0.0015

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 5/16/2023 8:25 AM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-42	YGWC-43	YGWC-49	PZ-35	PZ-37	YGWC-36A
8/30/2016	9E-05 (J)					
8/31/2016		<0.003				
9/1/2016			0.0001 (J)			
9/2/2016						0.0003 (J)
11/14/2016						9E-05 (J)
11/15/2016			0.0001 (J)			
11/16/2016	<0.0005	<0.003				
2/24/2017		<0.003				
2/27/2017	<0.0005		0.0001 (J)			
2/28/2017						0.0001 (J)
5/9/2017			0.0001 (J)			0.0002 (J)
5/10/2017	9E-05 (J)	<0.003				
7/11/2017	0.0001 (J)	<0.003				
7/13/2017			0.0001 (J)			0.0003 (J)
9/22/2017						0.0003 (J)
9/29/2017						0.0003 (J)
10/6/2017						0.0003 (J)
10/11/2017			0.0001 (J)			
10/12/2017	<0.0005	0.0001 (J)			0.0004 (J)	
11/21/2017					0.0004 (J)	
1/11/2018					0.0003 (J)	
2/20/2018					<0.003	
3/30/2018						<0.003
4/3/2018					<0.003	
4/4/2018	<0.0005	<0.003	<0.003			
6/13/2018						0.00035 (J)
6/29/2018					0.00033 (J)	
8/6/2018					0.0002 (J)	
8/30/2018				0.00052 (J)		
9/20/2018	<0.0005	0.00029 (J)	0.00011 (J)			
9/24/2018					0.00029 (J)	
9/26/2018						0.00032 (J)
10/16/2018				0.00036 (J)		
3/6/2019						0.00029 (J)
4/4/2019						0.00033 (J)
8/21/2019		0.0003 (J)				
8/22/2019	<0.0005					
9/26/2019			0.00013 (J)	<0.003		0.00029 (J)
10/9/2019	<0.0005	0.00034 (J)				
3/25/2020	<0.0005	0.00034 (J)	0.00013 (J)	<0.003		0.00022 (J)
9/24/2020	6.7E-05 (J)		0.00013 (J)	0.00033 (J)		
9/25/2020		0.00054 (J)			0.00031 (J)	
10/7/2020						0.00014 (J)
2/9/2021		0.00053 (J)	0.00013 (J)		0.00029 (J)	
2/10/2021	5.7E-05 (J)			0.00025 (J)		9.9E-05 (J)
3/4/2021	<0.0005	0.00056	0.0001 (J)	0.00025 (J)	0.00017 (J)	0.00016 (J)
8/25/2021	<0.0005				0.00059	
9/1/2021			0.00012 (J)	0.00045 (J)		
9/3/2021						0.00035 (J)
9/27/2021		0.00015 (J)				
2/8/2022		0.00037 (J)	0.00015 (J)			
2/10/2022	6.1E-05 (J)			0.00055	0.001	

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 5/16/2023 8:25 AM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-42	YGWC-43	YGWC-49	PZ-35	PZ-37	YGWC-36A
2/11/2022						0.00043 (J)
8/31/2022			0.00017 (J)	0.00061		
9/1/2022	<0.0005	0.00033 (J)			0.0011	0.00053
2/8/2023	6.2E-05 (J)	0.00036 (J)			0.0011	
2/9/2023			0.00012 (J)	0.0008		0.00066
Mean	0.0003348	0.001234	0.0001994	0.00092	0.000632	0.0003436
Std. Dev.	0.0002133	0.00129	0.0003358	0.001041	0.0004727	0.000292
Upper Lim.	0.0005	0.003	0.00015	0.003	0.0008051	0.0003907
Lower Lim.	6.7E-05	0.0003	0.0001	0.00025	0.0002982	0.0001957

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 5/16/2023 8:25 AM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-24SB
6/8/2016	<0.003
8/1/2016	0.0001 (J)
9/20/2016	0.0001 (J)
11/8/2016	<0.003
1/17/2017	0.0001 (J)
3/8/2017	0.0001 (J)
5/2/2017	0.0001 (J)
7/7/2017	0.0001 (J)
3/30/2018	<0.003
6/12/2018	0.00012 (J)
9/26/2018	0.00014 (J)
3/5/2019	0.00016 (J)
4/4/2019	0.00015 (J)
9/26/2019	0.00014 (J)
3/26/2020	0.00016 (J)
9/23/2020	6.1E-05 (J)
2/9/2021	0.00013 (J)
3/3/2021	9.9E-05 (J)
9/1/2021	0.00014 (J)
2/10/2022	0.00016 (J)
2/10/2023	5.4E-05 (J)
Mean	0.000315
Std. Dev.	0.0004966
Upper Lim.	0.00016
Lower Lim.	0.0001

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 5/16/2023 8:25 AM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-5	YGWC-23S	YGWC-38	YGWC-41
6/7/2016				<0.0005		
7/28/2016				<0.0005		
9/20/2016				<0.0005		
11/8/2016				7E-05 (J)		
1/16/2017				<0.0005		
3/9/2017				<0.0005		
5/2/2017				<0.0005		
7/10/2017				<0.0005		
10/12/2017					0.003	0.0002 (J)
11/20/2017					0.0027	
11/21/2017						0.0003 (J)
1/11/2018						0.0002 (J)
1/12/2018					0.0029	
2/19/2018						<0.0005
2/20/2018					0.0029	
3/30/2018				<0.0005		
4/3/2018					0.0027	<0.0005
6/12/2018				<0.0005		
6/27/2018						0.00025 (J)
6/28/2018					0.0029	
8/7/2018					0.0027	0.00024 (J)
9/24/2018					0.0027	0.00021 (J)
9/27/2018				<0.0005		
10/16/2018	0.00014 (J)					
3/6/2019				<0.0005		
4/4/2019				<0.0005		
8/22/2019					0.0023 (J)	0.00015 (J)
9/26/2019	<0.0005					
9/27/2019				<0.0005		
10/9/2019					0.0021 (J)	0.00017 (J)
3/25/2020	<0.0005				0.0018 (J)	0.00018 (J)
3/26/2020				<0.0005		
9/23/2020		<0.0005				
9/24/2020	0.00017 (J)		0.00018 (J)	<0.0005		
9/25/2020					0.0015 (J)	0.00014 (J)
2/9/2021	0.00013 (J)	<0.0005	0.00025 (J)	<0.0005	0.0014 (J)	
2/10/2021						<0.0005
3/3/2021	<0.0005	<0.0005				
3/4/2021			0.00018 (J)	<0.0005	0.0013	<0.0005
8/25/2021				<0.0005		
8/26/2021			0.00021 (J)		0.0011	<0.0005
9/1/2021	0.00023 (J)	<0.0005				
2/8/2022						0.00012 (J)
2/10/2022	0.00018 (J)	<0.0005	0.00022 (J)	<0.0005	0.0011	
8/31/2022	0.00015 (J)					
9/1/2022		0.00015 (J)	0.00023 (J)	<0.0005	0.00094	<0.0005
2/8/2023		<0.0005	0.00046 (J)	<0.0005	0.00068	<0.0005
2/9/2023	<0.0005					
Mean	0.0003	0.00045	0.0002471	0.0004805	0.00204	0.0003144
Std. Dev.	0.0001742	0.0001323	9.725E-05	9.168E-05	0.0008076	0.0001576
Upper Lim.	0.0005	0.0005	0.00046	0.0005	0.0029	0.0005
Lower Lim.	0.00014	0.00015	0.00018	7E-05	0.0011	0.00017

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 5/16/2023 8:25 AM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-42	YGWC-49	PZ-35	PZ-37	YGWC-36A
8/30/2016	<0.0005				
9/1/2016		<0.0005			
9/2/2016					<0.0005
11/14/2016					9E-05 (J)
11/15/2016		<0.0005			
11/16/2016	<0.0005				
2/27/2017	<0.0005	7E-05 (J)			
2/28/2017					0.0001 (J)
5/9/2017		<0.0005			0.0002 (J)
5/10/2017	0.0002 (J)				
7/11/2017	0.0005 (J)				
7/13/2017		<0.0005			0.0002 (J)
9/22/2017					0.0002 (J)
9/29/2017					0.0002 (J)
10/6/2017					0.0002 (J)
10/11/2017		<0.0005			
10/12/2017	0.0006 (J)			0.0002 (J)	
11/21/2017				0.0002 (J)	
1/11/2018				0.0004 (J)	
2/20/2018				<0.001	
3/30/2018					<0.0005
4/3/2018				<0.001	
4/4/2018	<0.0005	<0.0005			
6/13/2018					0.00019 (J)
6/29/2018				0.00099 (J)	
8/6/2018				0.00063 (J)	
9/20/2018	0.0002 (J)	<0.0005			
9/24/2018				0.00069 (J)	
9/26/2018					0.00018 (J)
10/16/2018			<0.0005		
3/6/2019					0.00015 (J)
4/4/2019					0.00019 (J)
8/22/2019	0.00017 (J)				
9/26/2019		<0.0005	<0.0005		0.00017 (J)
10/9/2019	0.00025 (J)				
3/25/2020	0.00021 (J)	<0.0005	0.00016 (J)		0.00019 (J)
9/24/2020	0.00014 (J)	<0.0005	<0.0005		
9/25/2020				0.00039 (J)	
10/7/2020					0.00012 (J)
2/9/2021		<0.0005		0.00042 (J)	
2/10/2021	<0.0005		<0.0005		<0.0005
3/4/2021	<0.0005	<0.0005	<0.0005	0.00028 (J)	<0.0005
8/25/2021	<0.0005			0.00094	
9/1/2021		<0.0005	<0.0005		
9/3/2021					<0.0005
2/8/2022		<0.0005			
2/10/2022	<0.0005		<0.0005	0.00093	
2/11/2022					<0.0005
8/31/2022		<0.0005	0.00011 (J)		
9/1/2022	<0.0005			0.0009	<0.0005
2/8/2023	0.00014 (J)			0.00076	
2/9/2023		<0.0005	0.00025 (J)		<0.0005

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 5/16/2023 8:25 AM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-42	YGWC-49	PZ-35	PZ-37	YGWC-36A
Mean	0.0003839	0.0004747	0.000402	0.000582	0.00029
Std. Dev.	0.0001649	0.0001043	0.0001613	0.0002745	0.0001654
Upper Lim.	0.0005	0.0005	0.0005	0.000768	0.0005
Lower Lim.	0.0002	7E-05	0.00016	0.000396	0.00018

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 5/16/2023 8:25 AM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-4	YAMW-5	YGWC-23S	YGWC-38
6/7/2016					<0.005	
7/28/2016					0.0008 (J)	
9/20/2016					<0.005	
11/8/2016					<0.005	
1/16/2017					<0.005	
3/9/2017					<0.005	
5/2/2017					0.0007 (J)	
7/10/2017					<0.005	
10/12/2017						0.0005 (J)
11/20/2017						<0.005
1/12/2018						<0.005
2/20/2018						<0.005
3/30/2018					<0.005	
4/3/2018						<0.005
6/28/2018						<0.005
8/7/2018						<0.005
9/24/2018						<0.005
3/6/2019					<0.005	
8/22/2019						<0.005
10/9/2019						<0.005
3/25/2020	0.00058 (J)					0.00065 (J)
3/26/2020					0.0019 (J)	
9/23/2020		0.00071 (J)	<0.005			
9/24/2020	0.00074 (J)			<0.005	0.0011 (J)	
9/25/2020						<0.005
2/9/2021	0.001 (J)	0.0011 (J)	0.00057 (J)	<0.005	0.00086 (J)	<0.005
3/3/2021	0.00076 (J)	0.0012 (J)	<0.005			
3/4/2021				<0.005	0.00078 (J)	<0.005
8/25/2021			<0.005		<0.005	
8/26/2021				<0.005		<0.005
9/1/2021	<0.005	0.003 (J)				
2/10/2022	0.0013 (J)	<0.005	<0.005	0.0016 (J)	<0.005	<0.005
8/31/2022	<0.005					
9/1/2022		<0.005	<0.005	<0.005	<0.005	<0.005
2/8/2023		<0.005	<0.005	<0.005	0.0014 (J)	<0.005
2/9/2023	<0.005					
Mean	0.002422	0.003001	0.004367	0.004514	0.003474	0.004508
Std. Dev.	0.002145	0.002004	0.001674	0.001285	0.001985	0.001431
Upper Lim.	0.005	0.005	0.005	0.005	0.005	0.005
Lower Lim.	0.00058	0.00071	0.00057	0.0016	0.00086	0.00065

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 5/16/2023 8:25 AM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-41	YGWC-42	YGWC-43	YGWC-49	PZ-35	PZ-37
8/30/2016		<0.005				
8/31/2016			<0.005			
9/1/2016				0.0013 (J)		
11/15/2016				0.0014 (J)		
11/16/2016		<0.005	<0.005			
2/24/2017			<0.005			
2/27/2017		<0.005		0.0016 (J)		
5/9/2017				0.0017 (J)		
5/10/2017		0.0006 (J)	0.0005 (J)			
7/11/2017		<0.005	<0.005			
7/13/2017				0.0019 (J)		
10/11/2017				0.0014 (J)		
10/12/2017	<0.005	<0.005	<0.005			0.0019 (J)
11/21/2017	<0.005					0.0017 (J)
1/11/2018	<0.005					0.001 (J)
2/19/2018	<0.005					
2/20/2018						<0.005
4/3/2018	<0.005					<0.005
4/4/2018		<0.005	<0.005	<0.01		
6/27/2018	<0.005					
6/29/2018						<0.005
8/6/2018						<0.005
8/7/2018	<0.005					
9/20/2018		<0.005	<0.005	0.0017 (J)		
9/24/2018	<0.005					<0.005
8/21/2019			0.00062 (J)			
8/22/2019	<0.005	<0.005				
10/9/2019	<0.005	0.00043 (J)	0.00074 (J)			
3/25/2020	0.00039 (J)	0.0013 (J)	<0.005	0.0019 (J)	0.0012 (J)	
9/24/2020		<0.005		0.0019 (J)	0.00061 (J)	
9/25/2020	<0.005		0.00071 (J)			<0.005
2/9/2021			<0.005	0.002 (J)		<0.005
2/10/2021	<0.005	<0.005			0.0006 (J)	
3/4/2021	<0.005	<0.005	<0.005	0.0017 (J)	0.0007 (J)	<0.005
8/25/2021		<0.005				<0.005
8/26/2021	<0.005					
9/1/2021				0.002 (J)	<0.005	
9/27/2021			<0.005			
2/8/2022	<0.005		<0.005	0.0021 (J)		
2/10/2022		<0.005			<0.005	<0.005
8/31/2022				0.002 (J)	<0.005	
9/1/2022	<0.005	<0.005	<0.005			<0.005
2/8/2023	<0.005	<0.005	<0.005			<0.005
2/9/2023				0.002 (J)	0.0016 (J)	
Mean	0.004744	0.004296	0.004032	0.001975	0.002464	0.004307
Std. Dev.	0.001087	0.001627	0.001865	0.0008434	0.002127	0.001446
Upper Lim.	0.005	0.005	0.005	0.002	0.005	0.005
Lower Lim.	0.00039	0.0013	0.00074	0.0016	0.0006	0.0019

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 5/16/2023 8:25 AM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-36A	YGWC-24SB
6/8/2016		<0.005
8/1/2016		<0.005
9/2/2016	<0.005	
9/20/2016		<0.005
11/8/2016		<0.005
11/14/2016	0.0035	
1/17/2017		<0.005
2/28/2017	<0.005	
3/8/2017		<0.005
5/2/2017		0.0011 (J)
5/9/2017	<0.005	
7/7/2017		<0.005
7/13/2017	<0.005	
9/22/2017	<0.005	
9/29/2017	<0.005	
10/6/2017	<0.005	
3/30/2018	<0.005	<0.005
3/5/2019		<0.005
3/6/2019	<0.005	
3/25/2020	0.00074 (J)	
3/26/2020		0.00094 (J)
9/23/2020		<0.005
10/7/2020	0.0013 (J)	
2/9/2021		0.0011 (J)
2/10/2021	0.00094 (J)	
3/3/2021		<0.005
3/4/2021	<0.005	
9/1/2021		<0.005
9/3/2021	<0.005	
2/10/2022		<0.005
2/11/2022	<0.005	
9/1/2022	<0.005	
2/9/2023	<0.005	
2/10/2023		<0.005
Mean	0.004249	0.004302
Std. Dev.	0.001542	0.001554
Upper Lim.	0.005	0.005
Lower Lim.	0.0035	0.0011

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 5/16/2023 8:25 AM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-4	YAMW-5	YGWC-41	YGWC-42
8/30/2016						0.0025 (J)
11/16/2016						0.002 (J)
2/27/2017						0.0021 (J)
5/10/2017						0.0021 (J)
7/11/2017						0.0014 (J)
10/12/2017					0.0011 (J)	0.0017 (J)
11/21/2017					0.0003 (J)	
1/11/2018					0.0003 (J)	
2/19/2018					<0.005	
4/3/2018					<0.005	
4/4/2018						<0.005
6/27/2018					0.00069 (J)	
8/7/2018					<0.005	
9/20/2018						0.003 (J)
9/24/2018					<0.005	
10/16/2018	0.032					
8/22/2019					<0.005	0.0019 (J)
9/26/2019	0.015					
10/9/2019					<0.005	0.0019 (J)
1/3/2020	<0.005					
3/25/2020	<0.005				<0.005	0.0018 (J)
9/23/2020		0.0025 (J)	0.00052 (J)			
9/24/2020	0.01			0.00077 (J)		0.0017 (J)
9/25/2020					<0.005	
2/9/2021	0.03	0.001 (J)	0.00063 (J)	<0.005		
2/10/2021					<0.005	0.0019 (J)
3/3/2021	0.018	0.00082 (J)	0.001 (J)			
3/4/2021				<0.005	<0.005	0.0018 (J)
8/25/2021			0.00041 (J)			0.0014 (J)
8/26/2021				<0.005	<0.005	
9/1/2021	0.022	0.00093 (J)				
2/8/2022					<0.005	
2/10/2022	0.011	0.00052 (J)	0.00044 (J)	<0.005		0.0017 (J)
8/31/2022	0.0041 (J)					
9/1/2022		0.0068	0.00048 (J)	<0.005	<0.005	0.0015 (J)
2/8/2023		<0.005	0.00085 (J)	<0.005	<0.005	0.0018 (J)
2/9/2023	0.0045 (J)					
Mean	0.01424	0.002153	0.0006186	0.004396	0.004022	0.001928
Std. Dev.	0.01018	0.002202	0.0002249	0.001599	0.00189	0.000407
Upper Lim.	0.0223	0.00446	0.0008857	0.005	0.005	0.002174
Lower Lim.	0.00592	0.0003166	0.0003514	0.00077	0.0011	0.001682

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 5/16/2023 8:25 AM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43	YGWC-49	PZ-35	PZ-37	YGWC-36A
8/31/2016	<0.005				
9/1/2016		<0.005			
9/2/2016					0.0006 (J)
11/14/2016					<0.005
11/15/2016		0.0006 (J)			
11/16/2016	<0.005				
2/24/2017	<0.005				
2/27/2017		0.0008 (J)			
2/28/2017					<0.005
5/9/2017		<0.005			<0.005
5/10/2017	<0.005				
7/11/2017	<0.005				
7/13/2017		0.0005 (J)			<0.005
9/22/2017					<0.005
9/29/2017					<0.005
10/6/2017					<0.005
10/11/2017		0.0006 (J)			
10/12/2017	0.0006 (J)			0.0078 (J)	
11/21/2017				0.0097 (J)	
1/11/2018				0.0131	
2/20/2018				0.0162	
3/30/2018					<0.005
4/3/2018				0.015	
4/4/2018	<0.005	<0.005			
6/13/2018					<0.005
6/29/2018				0.013	
8/6/2018				0.0053 (J)	
9/20/2018	0.0034 (J)	<0.005			
9/24/2018				0.0071 (J)	
9/26/2018					<0.005
10/16/2018			<0.005		
3/6/2019					<0.005
4/4/2019					<0.005
8/21/2019	0.0026 (J)				
9/26/2019		<0.005	<0.005		0.00048 (J)
10/9/2019	0.0023 (J)				
3/25/2020	0.0016 (J)	<0.005	0.0059		0.00038 (J)
9/24/2020		<0.005	<0.005		
9/25/2020	0.0018 (J)			0.0023 (J)	
10/7/2020					0.00086 (J)
2/9/2021	0.0017 (J)	<0.005		0.0023 (J)	
2/10/2021			<0.005		0.00038 (J)
3/4/2021	0.0015 (J)	<0.005	<0.005	0.003 (J)	<0.005
8/25/2021				0.0068	
9/1/2021		<0.005	<0.005		
9/3/2021					<0.005
9/27/2021	<0.005				
2/8/2022	0.00045 (J)	<0.005			
2/10/2022			<0.005	0.0036 (J)	
2/11/2022					<0.005
8/31/2022		<0.005	<0.005		
9/1/2022	0.0005 (J)			0.0025 (J)	<0.005

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 5/16/2023 8:25 AM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43	YGWC-49	PZ-35	PZ-37	YGWC-36A
2/8/2023	0.00049 (J)			0.0022 (J)	
2/9/2023		<0.005	<0.005		<0.005
Mean	0.002886	0.003971	0.00509	0.007327	0.003986
Std. Dev.	0.00189	0.001914	0.0002846	0.004972	0.001915
Upper Lim.	0.005	0.005	0.005	0.01012	0.005
Lower Lim.	0.0006	0.0008	0.005	0.003723	0.00086

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/16/2023 8:25 AM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-4	YAMW-5	YGWC-23S	YGWC-38	YGWC-41
6/7/2016				0.303 (U)		
7/28/2016				0.386 (U)		
9/20/2016				1.47		
11/8/2016				0.22 (U)		
1/16/2017				0.147 (U)		
3/9/2017				0.0892 (U)		
5/2/2017				0.149 (U)		
7/10/2017				0.815 (U)		
10/12/2017					1.24	0.641 (U)
11/20/2017					0.342 (U)	
11/21/2017						2.01
1/11/2018						0.919 (U)
1/12/2018					1.04	
2/19/2018						1.82
2/20/2018					1.6 (U)	
3/30/2018				0.659 (U)		
4/3/2018					0.726 (U)	0.911 (U)
6/12/2018				1.03 (U)		
6/27/2018						0.429 (U)
6/28/2018					1.06 (U)	
8/7/2018					1.21	0.579 (U)
9/24/2018					1.52	1.39
9/27/2018				1.06 (U)		
10/16/2018	0.384 (U)					
3/6/2019				0.736 (U)		
4/4/2019				0.474 (U)		
8/22/2019					1.97	2.03
9/27/2019				0.684 (U)		
10/8/2019					0.751 (U)	0.609 (U)
3/25/2020	0.525 (U)				0.321 (U)	0.568 (U)
3/26/2020				0.281 (U)		
9/23/2020		1.2 (U)				
9/24/2020	0.547 (U)		0.668 (U)	0.788 (U)		
9/25/2020					0.246 (U)	0.769 (U)
2/9/2021	0.866 (U)	0.659 (U)	1.07 (U)	0.464 (U)	0.626 (U)	
2/10/2021						0.548 (U)
3/3/2021	0.377 (U)	1.07				
3/4/2021			1.46	0.771 (U)	0.816 (U)	1.23
8/25/2021		0.0991 (U)		0.624 (U)		
8/26/2021			0.724 (U)		0.427 (U)	0.356 (U)
9/1/2021	0.676 (U)					
2/8/2022						0.594 (U)
2/10/2022	0.233 (U)	0.702 (U)	1.25 (U)	0.197 (U)	0.791 (U)	
8/31/2022	0.313 (U)					
9/1/2022		0.381 (U)	0.811 (U)	1.23 (U)	0.52 (U)	0.0906 (U)
2/8/2023		0.239 (U)	0.502 (U)	0.4 (U)	0.361 (U)	0.852 (U)
2/9/2023	0.595 (U)					
Mean	0.5018	0.6214	0.9264	0.5899	0.8648	0.9081
Std. Dev.	0.1974	0.4125	0.3443	0.3764	0.4931	0.5677
Upper Lim.	0.6923	1.111	1.335	0.7919	1.163	1.183
Lower Lim.	0.3112	0.1315	0.5175	0.3878	0.5665	0.5318

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/16/2023 8:25 AM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-42	YGWC-43	YGWC-49	PZ-35	PZ-37	YGWC-36A
8/30/2016	2.99					
8/31/2016		0.926 (U)				
9/1/2016			1.2			
9/2/2016						0.873 (U)
9/22/2016						0.667 (U)
9/29/2016						1.63
10/6/2016						0.641 (U)
11/14/2016						0.0451 (U)
11/15/2016			0.645 (U)			
11/16/2016	4.01	0.773 (U)				
2/24/2017		0.661 (U)				
2/27/2017	2.5		0.244 (U)			
2/28/2017						1.34 (U)
5/9/2017			0.519 (U)			0.309 (U)
5/10/2017	2.55	1.27				
7/11/2017	3.94	1.02				
7/13/2017			0.5 (U)			0.618 (U)
10/11/2017			1.41			
10/12/2017	3.57	1.58			1.83	
11/21/2017					1.33	
1/11/2018					1.53	
2/20/2018					2.75	
3/30/2018						0.721 (U)
4/3/2018					1.47	
4/4/2018	1.9	1.71	0.442 (U)			
6/13/2018						1.04 (U)
6/29/2018					1.69	
8/6/2018					1.69	
9/20/2018	1.94	2.8	1.14 (U)			
9/24/2018					2.26	
9/26/2018						0.604 (U)
10/16/2018				0.363 (U)		
3/6/2019						0.919 (U)
4/4/2019						1.05 (U)
8/21/2019		3.16				
8/22/2019	1.59					
9/26/2019			1.16 (U)			0.979 (U)
10/8/2019	0.995 (U)	3.65				
3/25/2020	1.17 (U)	3.04	1.2 (U)	0.197 (U)		1.22 (U)
9/24/2020	0.751 (U)		1.57 (U)	1.07 (U)		
9/25/2020		4.75			1.68 (U)	
10/7/2020						1.58
2/9/2021		6.38	0.137 (U)		1.52	
2/10/2021	0.612 (U)			0.546 (U)		0.466 (U)
3/4/2021	1.02	6.02	0.579 (U)	0.397 (U)	1.49	0.0671 (U)
8/25/2021	0.978 (U)				1.41	
9/1/2021			0.686 (U)	0.696 (U)		
9/3/2021						0.622 (U)
9/27/2021		1.54				
2/8/2022		3.11	0.201 (U)			
2/10/2022	0.307 (U)			1.25 (U)	0.81 (U)	
2/11/2022						0.395 (U)

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/16/2023 8:25 AM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-42	YGWC-43	YGWC-49	PZ-35	PZ-37	YGWC-36A
8/31/2022			0.823 (U)	0.326 (U)		
9/1/2022	0.596 (U)	4.16			0.463 (U)	0.189 (U)
2/8/2023	0.817	3.73			0.742 (U)	
2/9/2023			0.667 (U)	0.718 (U)		0.326 (U)
Mean	1.791	2.793	0.7719	0.6181	1.511	0.741
Std. Dev.	1.204	1.76	0.4349	0.3538	0.568	0.449
Upper Lim.	2.361	3.858	1.044	0.9597	1.896	0.982
Lower Lim.	0.9873	1.728	0.4995	0.2765	1.126	0.4999

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/16/2023 8:25 AM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-24SB
6/8/2016	1.06
8/1/2016	0.467 (U)
9/20/2016	0.853 (U)
11/8/2016	0.433 (U)
1/17/2017	0.0759 (U)
3/8/2017	0.479 (U)
5/2/2017	0.506 (U)
7/7/2017	0.713 (U)
3/30/2018	0.409 (U)
6/12/2018	0.728 (U)
9/26/2018	0.981
3/5/2019	0.837 (U)
4/9/2019	0.502 (U)
9/26/2019	0.964 (U)
3/26/2020	0.511 (U)
9/23/2020	0.786 (U)
2/9/2021	0.678 (U)
3/3/2021	0.415 (U)
9/1/2021	0.444 (U)
2/10/2022	0.846 (U)
2/10/2023	0.137 (U)
Mean	0.6107
Std. Dev.	0.2653
Upper Lim.	0.7571
Lower Lim.	0.4643

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 5/16/2023 8:25 AM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-2	YAMW-4	YAMW-5	YGWC-23S	YGWC-38	YGWC-41
6/7/2016				<0.1		
7/28/2016				0.03 (J)		
9/20/2016				<0.1		
11/8/2016				<0.1		
1/16/2017				<0.1		
3/9/2017				<0.1		
5/2/2017				<0.1		
7/10/2017				<0.1		
10/11/2017				<0.1		
10/12/2017					<0.1	<0.1
11/20/2017					0.2 (J)	
11/21/2017						<0.1
1/11/2018						<0.1
1/12/2018					0.21 (J)	
2/19/2018						<0.1
2/20/2018					<0.1	
3/30/2018				<0.1		
4/3/2018					0.41	<0.1
6/12/2018				<0.1		
6/27/2018						<0.1
6/28/2018					0.43	
8/7/2018					<0.1	0.11 (J)
9/24/2018					0.034 (J)	<0.1
9/27/2018				<0.1		
3/6/2019				<0.1		
3/27/2019					0.24 (J)	
3/28/2019						0.1 (J)
4/4/2019				0.049 (J)		
8/22/2019					<0.1	<0.1
9/27/2019				0.12 (J)		
10/9/2019					<0.1	<0.1
3/25/2020					<0.1	<0.1
3/26/2020				<0.1		
9/23/2020	<0.1	<0.1				
9/24/2020			<0.1	<0.1		
9/25/2020					<0.1	<0.1
2/9/2021	<0.1	0.14	<0.1	<0.1	<0.1	
2/10/2021						<0.1
3/3/2021	<0.1	0.14				
3/4/2021			<0.1	<0.1	<0.1	<0.1
8/25/2021		<0.1		<0.1		
8/26/2021			<0.1		<0.1	<0.1
9/1/2021	<0.1					
2/8/2022						<0.1
2/10/2022	<0.1	<0.1	<0.1	<0.1	<0.1	
9/1/2022	0.063 (J)	0.078 (J)	0.055 (J)	0.057 (J)	<0.1	<0.1
2/8/2023	0.061 (J)	0.079 (J)	0.05 (J)	<0.1	<0.1	<0.1
Mean	0.08914	0.1053	0.08643	0.09374	0.1486	0.1005
Std. Dev.	0.01855	0.02559	0.02322	0.02005	0.107	0.002294
Upper Lim.	0.1	0.1107	0.1	0.12	0.21	0.11
Lower Lim.	0.061	0.06478	0.05	0.057	0.034	0.1

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 5/16/2023 8:25 AM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-42	YGWC-43	YGWC-49	PZ-37	YGWC-36A	PZ-37D
8/30/2016	0.02 (J)					
8/31/2016		0.12 (J)				
9/1/2016			0.09 (J)			
9/2/2016					0.05 (J)	
11/14/2016					0.18 (J)	
11/15/2016			0.16 (J)			
11/16/2016	0.07 (J)	0.2 (J)				
2/24/2017		0.21 (J)				
2/27/2017	0.06 (J)		0.06 (J)			
2/28/2017					0.09 (J)	
5/9/2017			0.05 (J)		0.009 (J)	
5/10/2017	<0.1	0.04 (J)				
7/11/2017	<0.1	0.2 (J)				
7/13/2017			<0.1		<0.1	
9/22/2017					0.09 (J)	
9/29/2017					<0.1	
10/6/2017					<0.1	
10/11/2017			0.14 (J)		<0.1	
10/12/2017	<0.1	0.1 (J)		<0.1		
11/21/2017				0.26 (J)		
1/11/2018				<0.1		
2/20/2018				0.45		
3/30/2018					<0.1	
4/3/2018				0.31		
4/4/2018	<0.1	<0.1	<0.1			
6/13/2018					<0.1	
6/29/2018				<0.1		
8/6/2018				0.23 (J)		
9/20/2018	0.041 (J)	<0.1	<0.1			
9/24/2018				<0.1		
9/26/2018					<0.1	
3/6/2019					<0.1	
3/27/2019	<0.1					
3/28/2019		0.078 (J)	<0.1			
4/4/2019					0.043 (J)	
8/21/2019		0.062 (J)				
8/22/2019	<0.1					
9/26/2019			0.09 (J)		0.094 (J)	
10/9/2019	<0.1	<0.1				
3/25/2020	<0.1	0.073 (J)	<0.1		<0.1	
9/24/2020	<0.1		<0.1			
9/25/2020		<0.1		<0.1		
10/7/2020					<0.1	
2/9/2021		0.058 (J)	<0.1	<0.1		
2/10/2021	<0.1				<0.1	
3/4/2021	<0.1	0.063 (J)	<0.1	<0.1	<0.1	
8/25/2021	<0.1			<0.1		
9/1/2021			<0.1			
9/3/2021					<0.1	0.15
9/27/2021		0.1				
2/8/2022		0.066 (J)	<0.1			
2/10/2022	<0.1			<0.1		

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 5/16/2023 8:25 AM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-42	YGWC-43	YGWC-49	PZ-37	YGWC-36A	PZ-37D
2/11/2022					<0.1	0.17
8/31/2022			<0.1			
9/1/2022	0.053 (J)	0.091 (J)		<0.1	<0.1	0.35
2/8/2023	0.08 (J)	0.11		<0.1		0.2
2/9/2023			<0.1		<0.1	
Mean	0.08547	0.1037	0.09944	0.1567	0.09374	0.2175
Std. Dev.	0.0247	0.04885	0.02363	0.1072	0.02997	0.09069
Upper Lim.	0.1	0.1061	0.14	0.26	0.1	0.4234
Lower Lim.	0.06	0.06255	0.09	0.1	0.094	0.0116

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 5/16/2023 8:25 AM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-24SB
6/8/2016	<0.1
8/1/2016	<0.1
9/20/2016	<0.1
11/8/2016	<0.1
1/17/2017	<0.1
3/8/2017	<0.1
5/2/2017	<0.1
7/7/2017	<0.1
10/5/2017	<0.1
3/30/2018	<0.1
6/12/2018	<0.1
9/26/2018	<0.1
3/5/2019	<0.1
4/4/2019	0.033 (J)
9/26/2019	0.098 (J)
3/26/2020	<0.1
9/23/2020	<0.1
2/9/2021	<0.1
3/3/2021	<0.1
9/1/2021	<0.1
2/10/2022	<0.1
2/10/2023	0.051 (J)
Mean	0.09464
Std. Dev.	0.01727
Upper Lim.	0.1
Lower Lim.	0.098

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 5/16/2023 8:25 AM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-4	YAMW-5	YGWC-23S	YGWC-38
6/7/2016					0.00044 (J)	
7/28/2016					<0.001	
9/20/2016					<0.001	
11/8/2016					<0.001	
1/16/2017					<0.001	
3/9/2017					<0.001	
5/2/2017					<0.001	
7/10/2017					<0.001	
10/12/2017						0.0001 (J)
11/20/2017						0.0001 (J)
1/12/2018						0.0001 (J)
2/20/2018						<0.001
3/30/2018					<0.001	
4/3/2018						<0.001
6/28/2018						<0.001
8/7/2018						<0.001
9/24/2018						<0.001
3/6/2019					<0.001	
4/4/2019					<0.001	
8/22/2019						<0.001
9/26/2019	<0.001					
9/27/2019					0.00013 (J)	
10/9/2019						<0.001
3/25/2020	<0.001					<0.001
3/26/2020					<0.001	
9/23/2020		<0.001	0.00028 (J)			
9/24/2020	<0.001			0.00011 (J)	4.6E-05 (J)	
9/25/2020						<0.001
2/9/2021	0.00019 (J)	0.00011 (J)	0.00054 (J)	7.3E-05 (J)	<0.001	<0.001
3/3/2021	<0.001	8E-05 (J)	9.6E-05 (J)			
3/4/2021				4.1E-05 (J)	0.00021 (J)	<0.001
8/25/2021			<0.001		<0.001	
8/26/2021				<0.001		<0.001
9/1/2021	<0.001	<0.001				
2/10/2022	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
8/31/2022	<0.001					
9/1/2022		<0.001	<0.001	<0.001	<0.001	<0.001
2/8/2023		<0.001	<0.001	<0.001	<0.001	<0.001
2/9/2023	<0.001					
Mean	0.00091	0.0007414	0.0007023	0.0006034	0.0008413	0.00085
Std. Dev.	0.00027	0.0004417	0.000393	0.000495	0.0003325	0.0003451
Upper Lim.	0.001	0.001	0.001	0.001	0.001	0.001
Lower Lim.	0.00019	8E-05	9.6E-05	4.1E-05	0.00044	0.0001

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 5/16/2023 8:25 AM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-41	YGWC-42	YGWC-43	YGWC-49	PZ-35	PZ-37
8/30/2016		<0.001				
8/31/2016			<0.001			
9/1/2016				<0.001		
11/15/2016				<0.001		
11/16/2016		0.0002 (J)	<0.001			
2/24/2017			<0.001			
2/27/2017		<0.001		<0.001		
5/9/2017				<0.001		
5/10/2017		9E-05 (J)	8E-05 (J)			
7/11/2017		<0.001	<0.001			
7/13/2017				<0.001		
10/11/2017				<0.001		
10/12/2017	<0.001	<0.001	<0.001			0.0002 (J)
11/21/2017	<0.001					0.0002 (J)
1/11/2018	7E-05 (J)					0.0001 (J)
2/19/2018	<0.001					
2/20/2018						<0.001
4/3/2018	<0.001					<0.001
4/4/2018		<0.001	<0.001	<0.001		
6/27/2018	0.0011 (J)					
6/29/2018						<0.001
8/6/2018						<0.001
8/7/2018	<0.001					
9/20/2018		<0.001	<0.001	<0.001		
9/24/2018	<0.001					<0.001
8/21/2019			<0.001			
8/22/2019	6.7E-05 (J)	<0.001				
9/26/2019				<0.001	<0.001	
10/9/2019	0.00012 (J)	<0.001	<0.001			
3/25/2020	<0.001	4.7E-05 (J)	7.5E-05 (J)	5.9E-05 (J)	<0.001	
9/24/2020		<0.001		<0.001	<0.001	
9/25/2020	<0.001		<0.001			8.5E-05 (J)
2/9/2021			<0.001	<0.001		8.8E-05 (J)
2/10/2021	0.0002 (J)	5.4E-05 (J)			8.7E-05 (J)	
3/4/2021	<0.001	<0.001	<0.001	<0.001	0.00015 (J)	<0.001
8/25/2021		<0.001				<0.001
8/26/2021	<0.001					
9/1/2021				<0.001	<0.001	
9/27/2021			<0.001			
2/8/2022	<0.001		<0.001	<0.001		
2/10/2022		<0.001			<0.001	<0.001
8/31/2022				<0.001	<0.001	
9/1/2022	<0.001	<0.001	<0.001			<0.001
2/8/2023	<0.001	<0.001	<0.001			<0.001
2/9/2023				<0.001	<0.001	
Mean	0.0008087	0.0007995	0.0008975	0.0009446	0.0008041	0.0007115
Std. Dev.	0.0003836	0.0003871	0.0002983	0.0002282	0.000389	0.0004235
Upper Lim.	0.0011	0.001	0.001	0.001	0.001	0.001
Lower Lim.	0.0002	0.0002	8E-05	5.9E-05	8.7E-05	0.0001

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 5/16/2023 8:25 AM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-36A	YGWC-24SB
6/8/2016		<0.001
8/1/2016		<0.001
9/2/2016	0.0017 (J)	
9/20/2016		<0.001
11/8/2016		<0.001
11/14/2016	0.0002 (J)	
1/17/2017		<0.001
2/28/2017	0.0003 (J)	
3/8/2017		<0.001
5/2/2017		<0.001
5/9/2017	0.0004 (J)	
7/7/2017		<0.001
7/13/2017	0.0004 (J)	
9/22/2017	0.0003 (J)	
9/29/2017	0.0002 (J)	
10/6/2017	0.0002 (J)	
3/30/2018	<0.001	<0.001
3/5/2019		<0.001
3/6/2019	<0.001	
4/4/2019	0.00037 (J)	<0.001
9/26/2019	0.00023 (J)	<0.001
3/25/2020	0.0001 (J)	
3/26/2020		5.3E-05 (J)
9/23/2020		<0.001
10/7/2020	0.00077 (J)	
2/9/2021		0.00036 (J)
2/10/2021	0.00051 (J)	
3/3/2021		<0.001
3/4/2021	0.00025 (J)	
9/1/2021		<0.001
9/3/2021	<0.001	
2/10/2022		<0.001
2/11/2022	<0.001	
9/1/2022	<0.001	
2/9/2023	<0.001	
2/10/2023		<0.001
Mean	0.0005965	0.0009165
Std. Dev.	0.0004298	0.0002554
Upper Lim.	0.0004641	0.001
Lower Lim.	0.0001697	0.00036

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 5/16/2023 8:25 AM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-3	YAMW-4	YAMW-5	YGWC-23S	YGWC-38
6/7/2016					<0.005	
7/28/2016					0.0019 (J)	
9/20/2016					0.0021 (J)	
11/8/2016					0.0024 (J)	
1/16/2017					0.0022 (J)	
3/9/2017					0.0025 (J)	
5/2/2017					0.0019 (J)	
7/10/2017					0.0018 (J)	
10/12/2017						0.0095 (J)
11/20/2017						0.0083 (J)
1/12/2018						0.0089 (J)
2/20/2018						0.0082 (J)
3/30/2018					0.0039 (J)	
4/3/2018						0.0097 (J)
6/12/2018					0.0017 (J)	
6/28/2018						0.0093 (J)
8/7/2018						0.0092 (J)
9/24/2018						0.0083 (J)
9/27/2018					0.0017 (J)	
10/16/2018	0.0052 (J)					
3/6/2019					0.0025 (J)	
4/4/2019					0.0018 (J)	
8/22/2019						0.0082 (J)
9/26/2019	<0.03					
9/27/2019					0.0017 (J)	
10/9/2019						0.0081 (J)
3/25/2020	0.0011 (J)					0.0081 (J)
3/26/2020					0.0021 (J)	
9/23/2020			0.03 (J)			
9/24/2020	0.011 (J)			0.013 (J)	0.0035 (J)	
9/25/2020						0.0069 (J)
2/9/2021	0.021 (J)		0.018 (J)	0.016 (J)	0.0026 (J)	0.0067 (J)
3/3/2021	0.022 (J)		0.02 (J)			
3/4/2021				0.016 (J)	0.0026 (J)	0.0067 (J)
8/25/2021			0.033		0.0026 (J)	
8/26/2021				0.015 (J)		0.007 (J)
9/1/2021	0.013 (J)					
12/9/2021		0.042				
2/10/2022	0.014 (J)	0.054	0.036	0.015 (J)	0.0029 (J)	0.0068 (J)
8/31/2022	0.021 (J)					
9/1/2022		0.041	0.032	0.013 (J)	0.0025 (J)	0.006 (J)
2/8/2023			0.033	0.014 (J)	0.0028 (J)	0.0058 (J)
2/9/2023	0.019 (J)	0.048				
Mean	0.01423	0.04625	0.02886	0.01457	0.002373	0.007872
Std. Dev.	0.007003	0.006021	0.006986	0.001272	0.0005742	0.001211
Upper Lim.	0.02048	0.05992	0.03625	0.01608	0.002681	0.008605
Lower Lim.	0.007982	0.03258	0.02086	0.01306	0.002065	0.007139

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 5/16/2023 8:25 AM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-41	YGWC-42	YGWC-43	YGWC-49	PZ-35	PZ-37
8/30/2016		0.0257 (J)				
8/31/2016			0.006 (J)			
9/1/2016				0.0034 (J)		
11/15/2016				0.0044 (J)		
11/16/2016		0.0221 (J)	0.0095 (J)			
2/24/2017			0.0104 (J)			
2/27/2017		0.0208 (J)		0.0036 (J)		
5/9/2017				0.0038 (J)		
5/10/2017		0.0316 (J)	0.0123 (J)			
7/11/2017		0.0281 (J)	0.0131 (J)			
7/13/2017				0.0036 (J)		
10/11/2017				0.0036 (J)		
10/12/2017	0.004 (J)	0.0331 (J)	0.013 (J)			0.0271 (J)
11/21/2017	0.0043 (J)					0.0255 (J)
1/11/2018	0.0044 (J)					0.0271 (J)
2/19/2018	<0.05					
2/20/2018						<0.25
4/3/2018	0.0047 (J)					0.027 (J)
4/4/2018		0.037 (J)	0.016 (J)	0.0039 (J)		
6/27/2018	0.0042 (J)					
6/29/2018						0.032 (J)
8/6/2018						0.033 (J)
8/7/2018	0.0038 (J)					
9/20/2018		0.049 (J)	0.019 (J)	0.0036 (J)		
9/24/2018	0.0037 (J)					0.028 (J)
10/16/2018					0.0011 (J)	
8/21/2019			0.015 (J)			
8/22/2019	0.0035 (J)	0.047				
9/26/2019				0.0036 (J)	<0.03	
10/9/2019	0.0032 (J)	0.037	0.018 (J)			
3/25/2020	0.0029 (J)	0.045	0.016 (J)	0.0037 (J)	0.011 (J)	
9/24/2020		0.05		0.0037 (J)	0.001 (J)	
9/25/2020	0.0025 (J)		0.018 (J)			0.028 (J)
2/9/2021			0.024 (J)	0.0038 (J)		0.024 (J)
2/10/2021	0.0021 (J)	0.058			0.0012 (J)	
3/4/2021	0.0021 (J)	0.059	0.025 (J)	0.0035 (J)	0.0015 (J)	0.028 (J)
8/25/2021		0.053				0.023 (J)
8/26/2021	0.0021 (J)					
9/1/2021				0.0036 (J)	0.0019 (J)	
9/27/2021			0.0092 (J)			
2/8/2022	0.0023 (J)		0.016 (J)	0.0036 (J)		
2/10/2022		0.052			0.0021 (J)	0.017 (J)
8/31/2022				0.0031 (J)	0.0025 (J)	
9/1/2022	0.0019 (J)	0.054	0.014 (J)			0.016 (J)
2/8/2023	0.0021 (J)	0.046	0.015 (J)			0.013 (J)
2/9/2023				0.0033 (J)	0.0026 (J)	
Mean	0.004378	0.04158	0.01497	0.003635	0.00399	0.03158
Std. Dev.	0.005232	0.01239	0.00485	0.0002737	0.004873	0.02645
Upper Lim.	0.0043	0.04908	0.01791	0.003802	0.011	0.032
Lower Lim.	0.0021	0.03408	0.01204	0.003463	0.0011	0.017

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 5/16/2023 8:25 AM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-36A	PZ-37D
9/2/2016	0.0029 (J)	
11/14/2016	0.0044 (J)	
2/28/2017	0.0038 (J)	
5/9/2017	0.0057 (J)	
7/13/2017	0.007 (J)	
9/22/2017	0.0067 (J)	
9/29/2017	0.0064 (J)	
10/6/2017	0.0065 (J)	
3/30/2018	0.0061 (J)	
6/13/2018	0.0065 (J)	
9/26/2018	0.0063 (J)	
3/6/2019	0.0057 (J)	
4/4/2019	0.0058 (J)	
9/26/2019	0.0041 (J)	
3/25/2020	0.0032 (J)	
10/7/2020	0.0014 (J)	
2/10/2021	0.0011 (J)	
3/4/2021	<0.03	
9/3/2021	0.00086 (J)	0.013 (J)
2/11/2022	0.00093 (J)	0.0087 (J)
9/1/2022	0.00089 (J)	0.0044 (J)
2/8/2023		0.0088 (J)
2/9/2023	0.001 (J)	
Mean	0.004649	0.008725
Std. Dev.	0.003238	0.003511
Upper Lim.	0.005916	0.0167
Lower Lim.	0.002611	0.0007531

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 5/16/2023 8:25 AM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-23S	YGWC-38	YGWC-41	YGWC-42	YGWC-43	YGWC-49
6/7/2016	9.8E-05 (J)					
7/28/2016	<0.0002					
8/30/2016				<0.0002		
8/31/2016					<0.0002	
9/1/2016						<0.0002
9/20/2016	<0.0002					
11/8/2016	<0.0002					
11/15/2016						<0.0002
11/16/2016				<0.0002	<0.0002	
1/16/2017	<0.0002					
2/24/2017					<0.0002	
2/27/2017				<0.0002		<0.0002
3/9/2017	<0.0002					
5/2/2017	<0.0002					
5/9/2017						<0.0002
5/10/2017				<0.0002	<0.0002	
7/10/2017	<0.0002					
7/11/2017				<0.0002	<0.0002	
7/13/2017						<0.0002
10/11/2017						<0.0002
10/12/2017		<0.0002	<0.0002	<0.0002	<0.0002	
11/20/2017		8E-05 (J)				
11/21/2017			6E-05 (J)			
1/11/2018			<0.0002			
1/12/2018		<0.0002				
2/19/2018			<0.0002			
2/20/2018		<0.0002				
3/30/2018	<0.0002					
4/3/2018		<0.0002	<0.0002			
4/4/2018				<0.0002	<0.0002	<0.0002
6/27/2018			<0.0002			
6/28/2018		3.7E-05 (J)				
8/7/2018		<0.0002	<0.0002			
9/20/2018				4.8E-05 (J)	5.2E-05 (J)	6.1E-05 (J)
9/24/2018		<0.0002	<0.0002			
9/27/2018	<0.0002					
3/6/2019	<0.0002					
8/21/2019					<0.0002	
8/22/2019		<0.0002	<0.0002	<0.0002		
2/9/2021	0.00015 (J)	<0.0002			<0.0002	0.00014 (J)
2/10/2021			<0.0002	<0.0002		
3/4/2021	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
8/25/2021	<0.0002			<0.0002		
8/26/2021		<0.0002	<0.0002			
9/1/2021						<0.0002
9/27/2021					9E-05 (JB)	
2/8/2022			<0.0002		<0.0002	<0.0002
2/10/2022	<0.0002	<0.0002		<0.0002		
8/31/2022						<0.0002
9/1/2022	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
2/8/2023	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
2/9/2023						<0.0002

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 5/16/2023 8:25 AM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-23S	YGWC-38	YGWC-41	YGWC-42	YGWC-43	YGWC-49
Mean	0.0001911	0.0001811	0.0001907	0.0001899	0.0001828	0.0001858
Std. Dev.	2.686E-05	5.045E-05	3.615E-05	3.925E-05	4.596E-05	3.931E-05
Upper Lim.	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002
Lower Lim.	0.00015	8E-05	6E-05	4.8E-05	9E-05	0.00014

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 5/16/2023 8:25 AM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-37
10/12/2017	<0.0002
11/21/2017	6E-05 (J)
1/11/2018	<0.0002
2/20/2018	<0.0002
4/3/2018	<0.0002
6/29/2018	<0.0002
8/6/2018	<0.0002
9/24/2018	<0.0002
9/25/2020	<0.0002
2/9/2021	<0.0002
3/4/2021	<0.0002
8/25/2021	<0.0002
2/10/2022	<0.0002
9/1/2022	0.00019 (J)
2/8/2023	<0.0002
Mean	0.00019
Std. Dev.	3.606E-05
Upper Lim.	0.0002
Lower Lim.	0.00019

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 5/16/2023 8:25 AM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-4	YGWC-42	YGWC-43	YGWC-49	PZ-35
8/30/2016			0.0019 (J)			
8/31/2016				0.0022 (J)		
9/1/2016					<0.01	
11/15/2016					<0.01	
11/16/2016			0.0027 (J)	<0.01		
2/24/2017				<0.01		
2/27/2017			0.0031 (J)		0.0007 (J)	
5/9/2017					<0.01	
5/10/2017			0.0017 (J)	<0.01		
7/11/2017			0.0014 (J)	<0.01		
7/13/2017					<0.01	
10/11/2017					<0.01	
10/12/2017			<0.01	<0.01		
4/4/2018			<0.01	<0.01	<0.01	
9/20/2018			<0.01	<0.01	<0.01	
8/21/2019				0.0012 (J)		
8/22/2019			<0.01			
10/9/2019			<0.01	0.0012 (J)		
3/25/2020	<0.01		<0.01	0.0015 (J)	<0.01	0.0019 (J)
9/23/2020		0.0068 (J)				
9/24/2020	0.0022 (J)		0.00091 (J)		<0.01	<0.01
9/25/2020				0.0011 (J)		
2/9/2021	0.0038 (J)	0.0068 (J)		0.0012 (J)	<0.01	
2/10/2021			0.00094 (J)			<0.01
3/3/2021	0.0037 (J)	0.0049 (J)				
3/4/2021			0.00085 (J)	0.0011 (J)	<0.01	<0.01
8/25/2021		0.0081 (J)	0.00078 (J)			
9/1/2021	0.0014 (J)				<0.01	<0.01
9/27/2021				0.0062 (J)		
2/8/2022				0.002 (J)	<0.01	
2/10/2022	0.00089 (J)	0.0076 (J)	0.0008 (J)			<0.01
8/31/2022	<0.01				<0.01	<0.01
9/1/2022		0.0074 (J)	0.00079 (J)	0.0014 (J)		
2/8/2023		0.0076 (J)	0.00081 (J)	0.0016 (J)		
2/9/2023	<0.01				<0.01	<0.01
Mean	0.005249	0.007029	0.00426	0.005039	0.009419	0.008987
Std. Dev.	0.004059	0.001047	0.004226	0.004227	0.002325	0.002864
Upper Lim.	0.00368	0.008272	0.01	0.01	0.01	0.01
Lower Lim.	0.001155	0.005785	0.00081	0.0012	0.0007	0.0019

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 5/16/2023 8:25 AM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-37	YGWC-36A
9/2/2016		0.0027 (J)
11/14/2016		0.0071 (J)
2/28/2017		0.0038 (J)
5/9/2017		0.0025 (J)
7/13/2017		0.0014 (J)
9/22/2017		<0.01
9/29/2017		<0.01
10/6/2017		<0.01
10/12/2017	0.0022 (J)	
11/21/2017	0.0016 (J)	
1/11/2018	0.0015 (J)	
2/20/2018	<0.01	
3/30/2018		<0.01
4/3/2018	<0.01	
6/29/2018	0.0021 (J)	
8/6/2018	<0.01	
9/24/2018	<0.01	
3/6/2019		<0.01
3/25/2020		<0.01
9/25/2020	0.0016 (J)	
10/7/2020		0.0015 (J)
2/9/2021	0.0016 (J)	
2/10/2021		<0.01
3/4/2021	0.0024 (J)	<0.01
8/25/2021	0.0011 (J)	
9/3/2021		<0.01
2/10/2022	<0.01	
2/11/2022		<0.01
9/1/2022	<0.01	<0.01
2/8/2023	<0.01	
2/9/2023		<0.01
Mean	0.005607	0.007722
Std. Dev.	0.004265	0.003508
Upper Lim.	0.01	0.01
Lower Lim.	0.0015	0.0027

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 5/16/2023 8:25 AM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-4	YAMW-5	YGWC-23S	YGWC-38	YGWC-41
6/7/2016				0.037		
7/28/2016				0.0385		
9/20/2016				0.0464		
11/8/2016				0.0521		
1/16/2017				0.0469		
3/9/2017				0.0437		
5/2/2017				0.0395		
7/10/2017				0.0386		
10/12/2017					0.265	0.0191
11/20/2017					0.246	
11/21/2017						0.0687
1/11/2018						0.069
1/12/2018					0.249	
2/19/2018						0.071
2/20/2018					0.253	
3/30/2018				0.028		
4/3/2018					0.23	0.067
6/12/2018				0.026		
6/27/2018						0.066
6/28/2018					0.23	
8/7/2018					0.2	0.061
9/24/2018					0.2	0.061
9/27/2018				0.023		
10/16/2018	0.0019 (J)					
3/6/2019				0.019		
4/4/2019				0.017		
8/22/2019					0.14	0.058
9/26/2019	<0.005					
9/27/2019				0.018		
10/9/2019					0.12	0.052
1/15/2020			0.045			
1/16/2020		0.0018 (J)				
3/25/2020	<0.005				0.099	0.057
3/26/2020				0.024		
9/23/2020		0.016				
9/24/2020	<0.005		0.026	0.031		
9/25/2020					0.076	0.046
2/9/2021	<0.005	<0.005	0.06	0.032	0.073	
2/10/2021						0.033
3/3/2021	<0.005	<0.005				
3/4/2021			0.061	0.037	0.076	0.037
8/25/2021		0.019		0.032		
8/26/2021			0.055		0.06	0.027
9/1/2021	0.0027 (J)					
2/8/2022						0.031
2/10/2022	0.0034 (J)	0.019	0.057	0.039	0.064	
8/31/2022	0.0041 (J)					
9/1/2022		0.023	0.048	0.036	0.055	0.027
2/8/2023		0.017	0.052	0.035	0.056	0.027
2/9/2023	0.0051					
Mean	0.00422	0.01322	0.0505	0.03362	0.1496	0.04877
Std. Dev.	0.001164	0.008018	0.01135	0.009677	0.08206	0.01783

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 5/16/2023 8:25 AM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-4	YAMW-5	YGWC-23S	YGWC-38	YGWC-41
Upper Lim.	0.005	0.02008	0.06099	0.03882	0.246	0.067
Lower Lim.	0.0027	0.001939	0.04008	0.02843	0.064	0.031

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 5/16/2023 8:25 AM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-42	YGWC-49	PZ-35	PZ-37	YGWC-36A
8/30/2016	0.0711				
9/1/2016		0.0086 (J)			
9/2/2016					0.0012 (J)
11/14/2016					<0.005
11/15/2016		0.0056 (J)			
11/16/2016	0.0313				
2/27/2017	0.0316	0.0098 (J)			
2/28/2017					0.0017 (J)
5/9/2017		0.0076 (J)			0.0018 (J)
5/10/2017	0.053				
7/11/2017	0.0697				
7/13/2017		0.0093 (J)			0.0031 (J)
9/22/2017					0.0024 (J)
9/29/2017					0.002 (J)
10/6/2017					<0.005
10/11/2017		0.0089 (J)			
10/12/2017	0.0594			0.234	
11/21/2017				0.225	
1/11/2018				0.168	
2/20/2018				0.315	
3/30/2018					<0.005
4/3/2018				0.28	
4/4/2018	0.055	<0.01			
6/13/2018					0.0024 (J)
6/29/2018				0.26	
8/6/2018				0.21	
9/20/2018	0.041	0.0081 (J)			
9/24/2018				0.33	
9/26/2018					0.0037 (J)
10/16/2018			<0.005		
3/6/2019					0.0033 (J)
4/4/2019					0.0029 (J)
8/22/2019	0.047				
9/26/2019		0.0077 (J)	<0.005		0.0019 (J)
10/9/2019	0.042				
3/25/2020	0.046	0.0085 (J)	<0.005		0.0024 (J)
9/24/2020	0.046	0.0091 (J)	<0.005		
9/25/2020				0.32	
10/7/2020					<0.005
2/9/2021		0.0079 (J)		0.28	
2/10/2021	0.043		<0.005		<0.005
3/4/2021	0.048	0.0058	<0.005	0.27	<0.005
8/25/2021	0.043			0.2	
9/1/2021		0.0066	0.0016 (J)		
9/3/2021					<0.005
2/8/2022		0.0075			
2/10/2022	0.044		0.003 (J)	0.2	
2/11/2022					<0.005
8/31/2022		0.0062	0.0033 (J)		
9/1/2022	0.035			0.17	<0.005
2/8/2023	0.041			0.16	
2/9/2023		0.0054	0.0041 (J)		0.0027 (J)

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 5/16/2023 8:25 AM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-42	YGWC-49	PZ-35	PZ-37	YGWC-36A
Mean	0.04706	0.007506	0.0042	0.2415	0.003477
Std. Dev.	0.01116	0.001489	0.001195	0.05697	0.001403
Upper Lim.	0.05382	0.008439	0.005	0.2801	0.005
Lower Lim.	0.04031	0.006573	0.003	0.2029	0.002

Confidence Interval

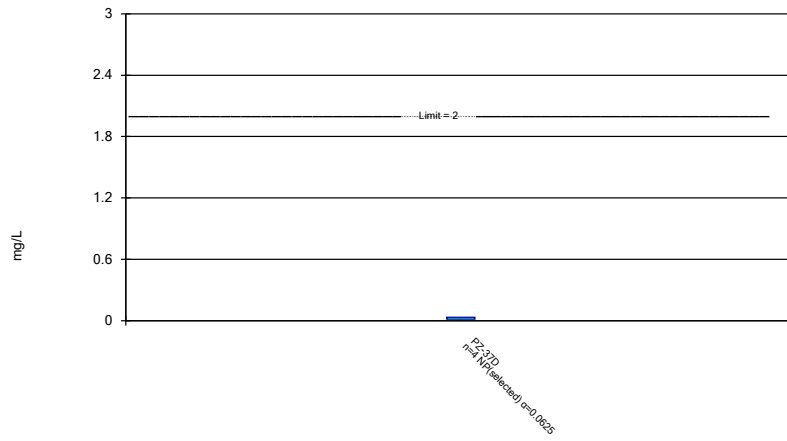
Constituent: Thallium (mg/L) Analysis Run 5/16/2023 8:25 AM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49
9/1/2016	<0.001
11/15/2016	<0.001
2/27/2017	9E-05 (J)
5/9/2017	<0.001
7/13/2017	<0.001
10/11/2017	<0.001
4/4/2018	<0.001
9/20/2018	<0.001
9/26/2019	<0.001
3/25/2020	<0.001
9/24/2020	<0.001
2/9/2021	<0.001
2/8/2022	<0.001
8/31/2022	<0.001
2/9/2023	<0.001
Mean	0.0009393
Std. Dev.	0.000235
Upper Lim.	0.001
Lower Lim.	9E-05

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.

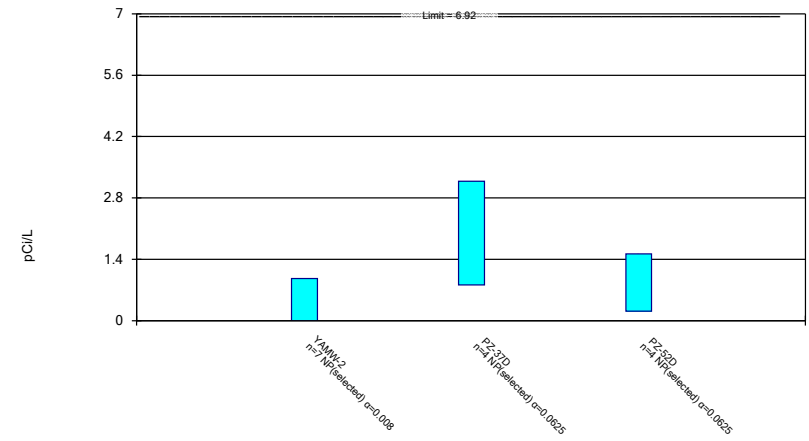


Normality testing disabled.

Constituent: Barium Analysis Run 5/16/2023 8:22 AM View: Appendix IV Nonparametric
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.

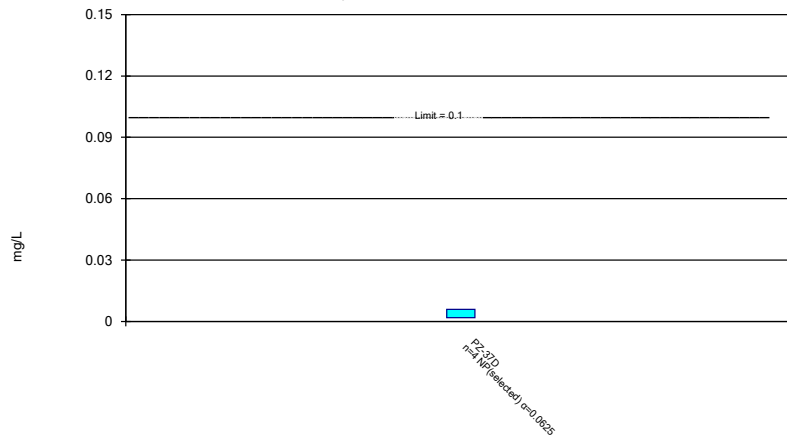


Normality testing disabled.

Constituent: Combined Radium 226 + 228 Analysis Run 5/16/2023 8:22 AM View: Appendix IV Nonparametric
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



Normality testing disabled.

Constituent: Molybdenum Analysis Run 5/16/2023 8:22 AM View: Appendix IV Nonparametric
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 5/16/2023 8:25 AM View: Appendix IV Nonparametric
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-37D
9/3/2021	0.015
2/11/2022	0.013
9/1/2022	0.033
2/8/2023	0.018
Mean	0.01975
Std. Dev.	0.009069
Upper Lim.	0.033
Lower Lim.	0.013

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/16/2023 8:25 AM View: Appendix IV Nonparametric

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-2	PZ-37D	PZ-52D
9/23/2020	0.0813 (U)		
2/9/2021	0.492 (U)		
3/3/2021	0.563 (U)		
9/1/2021	0.761 (U)		
9/3/2021		3.18	
11/4/2021			0.721 (U)
2/10/2022	0 (U)		
2/11/2022		0.815 (U)	1.52
9/1/2022	0.959 (U)	2.54	0.225 (U)
2/8/2023	0.0994 (U)	2.37	0.218 (U)
Mean	0.4222	2.226	0.671
Std. Dev.	0.3711	1.003	0.613
Upper Lim.	0.959	3.18	1.52
Lower Lim.	0	0.815	0.218

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 5/16/2023 8:25 AM View: Appendix IV Nonparametric
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-37D
9/3/2021	0.0018 (J)
2/11/2022	0.0037 (J)
9/1/2022	0.0059 (J)
2/8/2023	0.0024 (J)
Mean	0.00345
Std. Dev.	0.001816
Upper Lim.	0.0059
Lower Lim.	0.0018

FIGURE I.

Appendix IV Trend Tests - Significant Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 4/26/2023, 11:42 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Selenium (mg/L)	YGWA-17S (bg)	0	106	92	Yes	22	72.73	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWC-38	-0.04789	-138	-68	Yes	18	0	n/a	n/a	0.01	NP

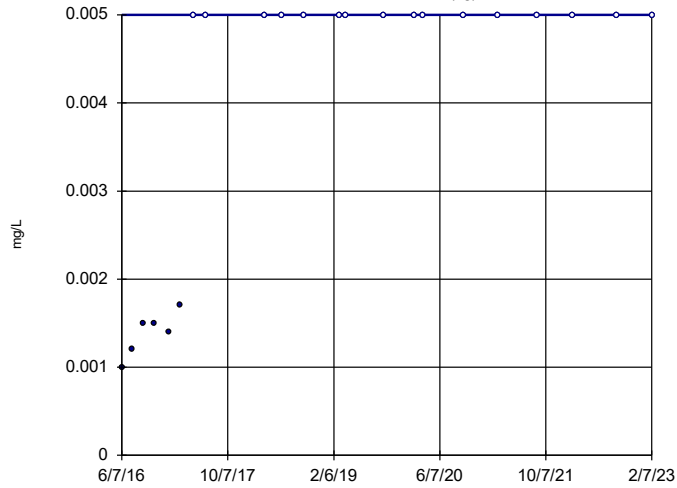
Appendix IV Trend Tests - All Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 4/26/2023, 11:42 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Selenium (mg/L)	YGWA-17S (bg)	0	106	92	Yes	22	72.73	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-18I (bg)	0	0	98	No	23	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-18S (bg)	0	0	98	No	23	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-20S (bg)	0	0	98	No	23	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-21I (bg)	0	41	98	No	23	91.3	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-39 (bg)	0	4	74	No	19	94.74	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-40 (bg)	0	-25	-74	No	19	42.11	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-4I (bg)	0	7	98	No	23	91.3	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-5D (bg)	0	0	98	No	23	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-5I (bg)	0	20	98	No	23	95.65	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWC-38	-0.04789	-138	-68	Yes	18	0	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-47 (bg)	0	21	48	No	14	85.71	n/a	n/a	0.01	NP
Selenium (mg/L)	GWA-2 (bg)	0	0	214	No	39	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-14S (bg)	0	54	87	No	21	71.43	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-1D (bg)	0	0	87	No	21	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-1I (bg)	0	0	87	No	21	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-2I (bg)	0	0	87	No	21	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-30I (bg)	0	0	87	No	21	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-3D (bg)	0	0	87	No	21	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-3I (bg)	0	0	87	No	21	100	n/a	n/a	0.01	NP
Selenium (mg/L)	PZ-37	-0.01245	-29	-53	No	15	0	n/a	n/a	0.01	NP

Sen's Slope Estimator

YGWA-17S (bg)

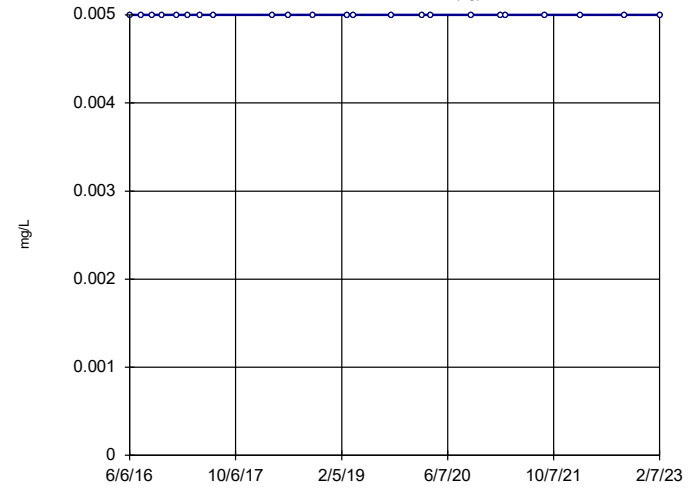


n = 22
Slope = 0
units per year.
Mann-Kendall
statistic = 106
critical = 92
Increasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Selenium Analysis Run 4/26/2023 11:41 AM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-18I (bg)

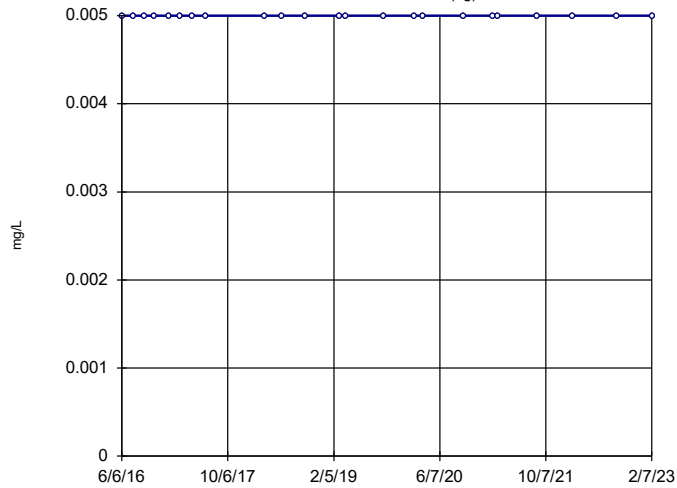


n = 23
Slope = 0
units per year.
Mann-Kendall
statistic = 0
critical = 98
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Selenium Analysis Run 4/26/2023 11:41 AM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-18S (bg)

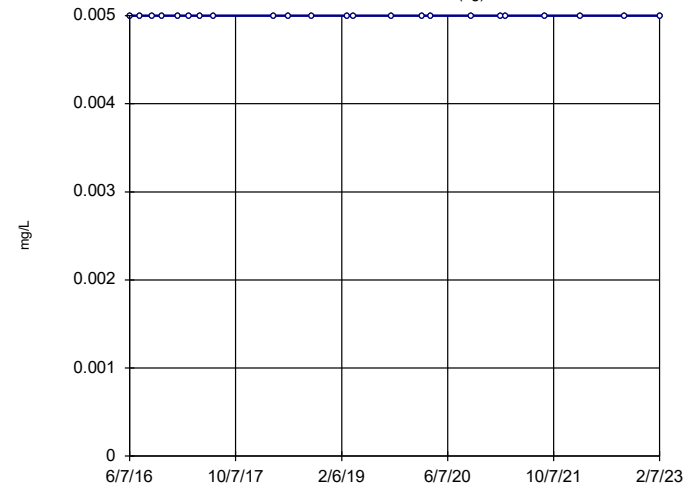


n = 23
Slope = 0
units per year.
Mann-Kendall
statistic = 0
critical = 98
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Selenium Analysis Run 4/26/2023 11:41 AM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-20S (bg)

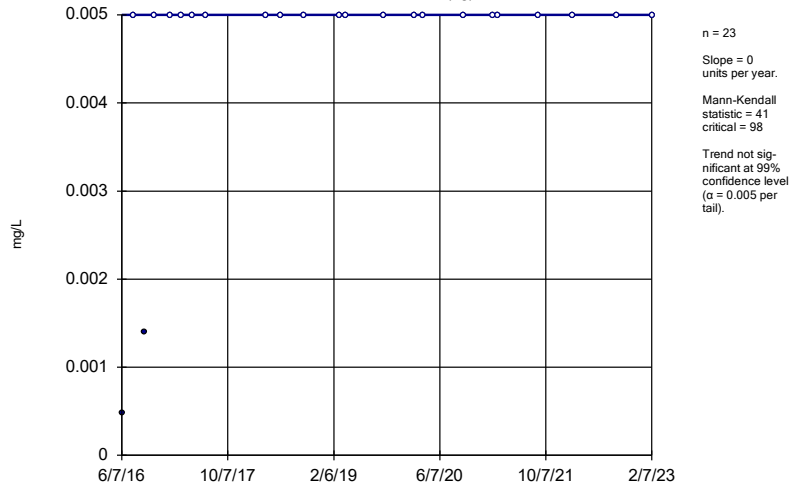


n = 23
Slope = 0
units per year.
Mann-Kendall
statistic = 0
critical = 98
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Selenium Analysis Run 4/26/2023 11:41 AM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

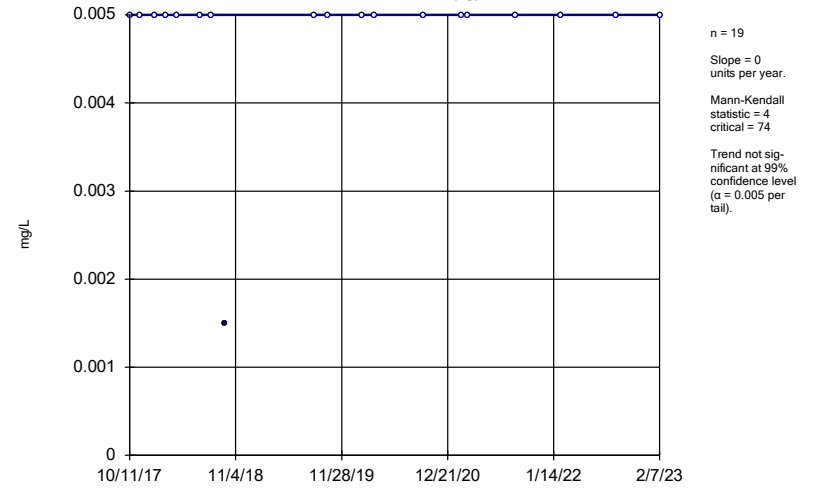
YGWA-211 (bg)



Constituent: Selenium Analysis Run 4/26/2023 11:41 AM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

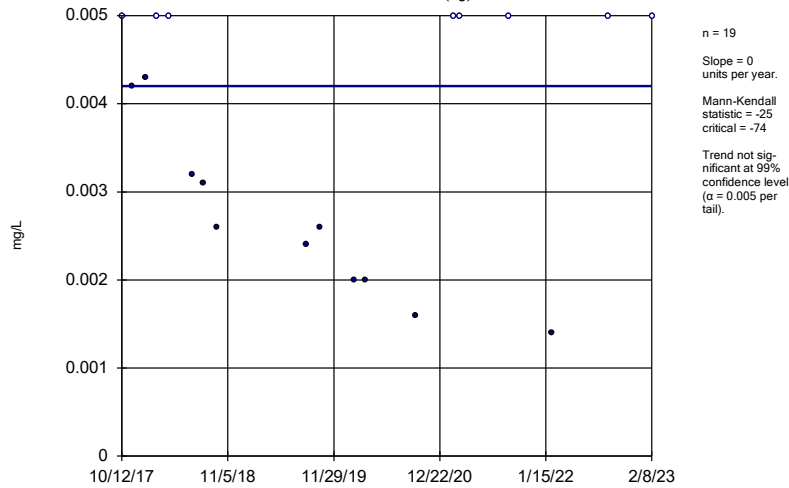
YGWA-39 (bg)



Constituent: Selenium Analysis Run 4/26/2023 11:41 AM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

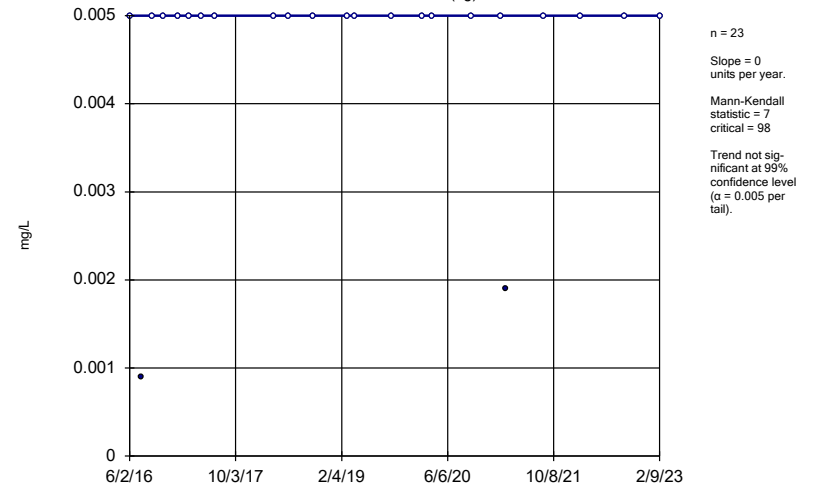
YGWA-40 (bg)



Constituent: Selenium Analysis Run 4/26/2023 11:41 AM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

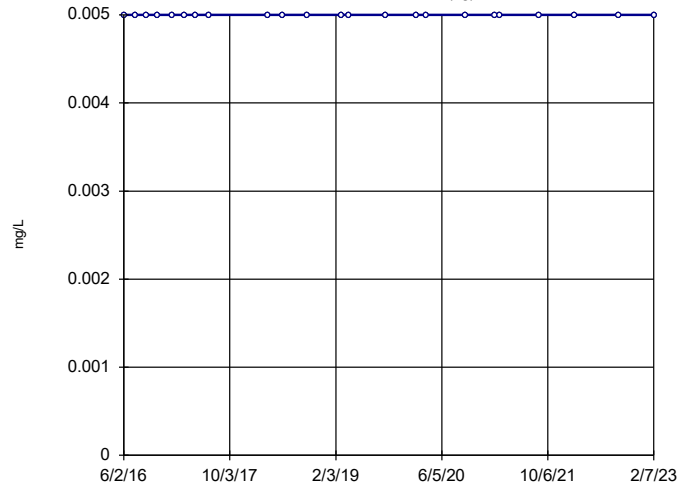
YGWA-41 (bg)



Constituent: Selenium Analysis Run 4/26/2023 11:41 AM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-5D (bg)

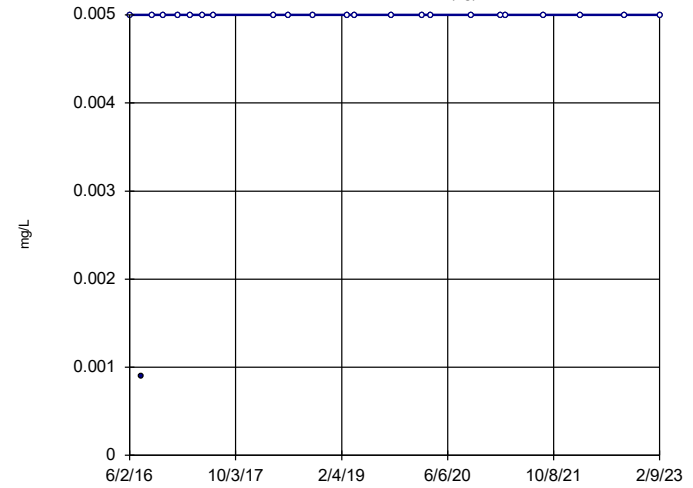


n = 23
Slope = 0
units per year.
Mann-Kendall
statistic = 0
critical = 98
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Selenium Analysis Run 4/26/2023 11:41 AM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-5I (bg)

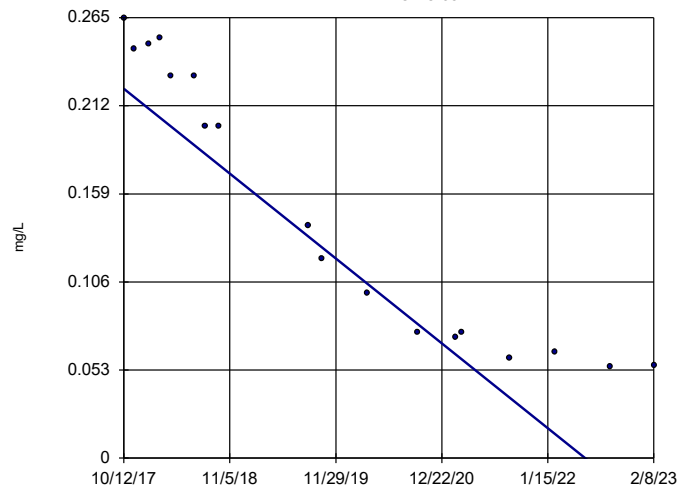


n = 23
Slope = 0
units per year.
Mann-Kendall
statistic = 20
critical = 98
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Selenium Analysis Run 4/26/2023 11:41 AM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWC-38

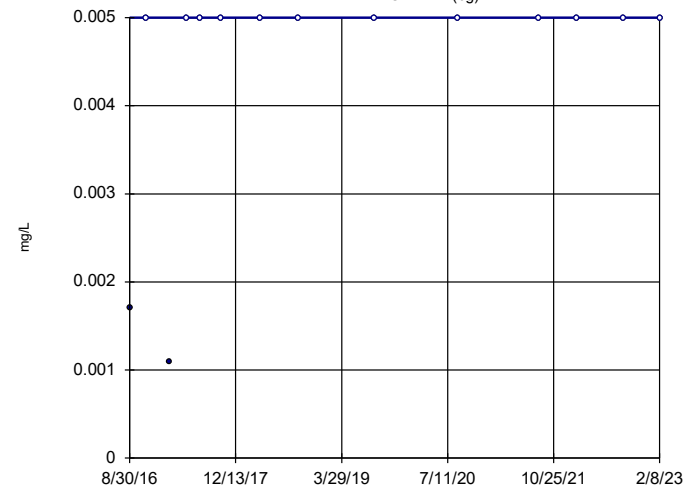


n = 18
Slope = -0.04789
units per year.
Mann-Kendall
statistic = -138
critical = -68
Decreasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Selenium Analysis Run 4/26/2023 11:41 AM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-47 (bg)

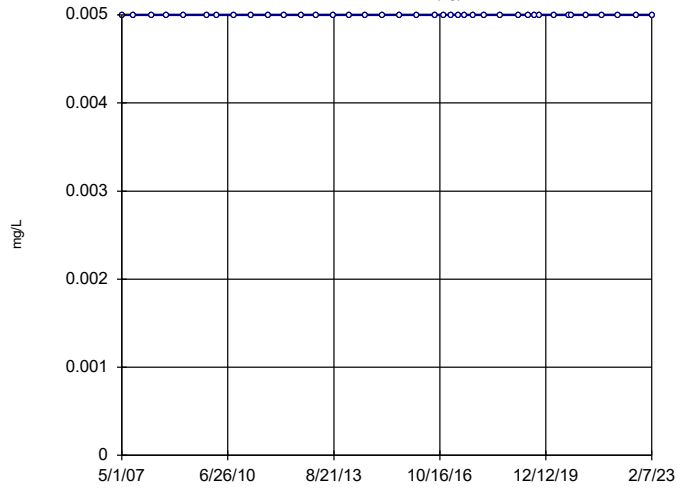


n = 14
Slope = 0
units per year.
Mann-Kendall
statistic = 21
critical = 48
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Selenium Analysis Run 4/26/2023 11:41 AM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

GWA-2 (bg)

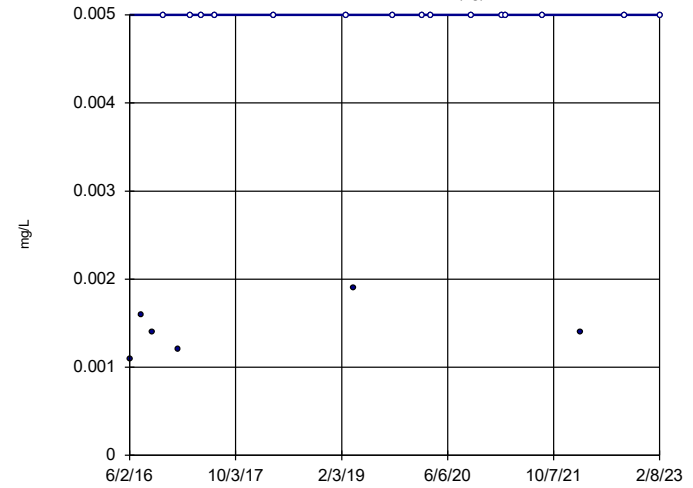


n = 39
Slope = 0
units per year.
Mann-Kendall
statistic = 0
critical = 214
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Selenium Analysis Run 4/26/2023 11:41 AM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-14S (bg)

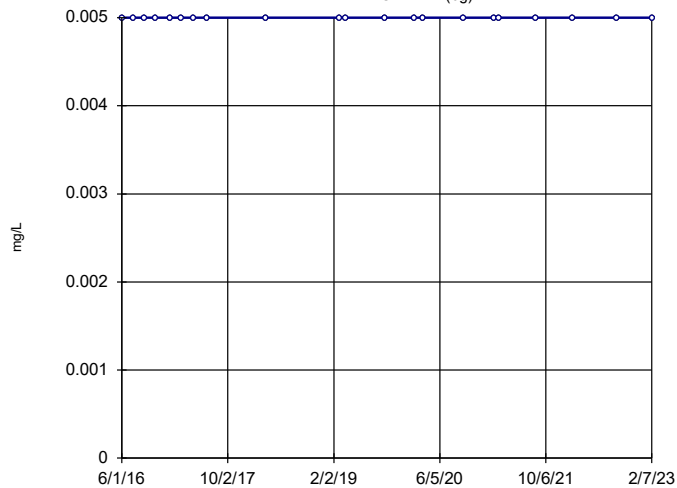


n = 21
Slope = 0
units per year.
Mann-Kendall
statistic = 54
critical = 87
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Selenium Analysis Run 4/26/2023 11:41 AM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-1D (bg)

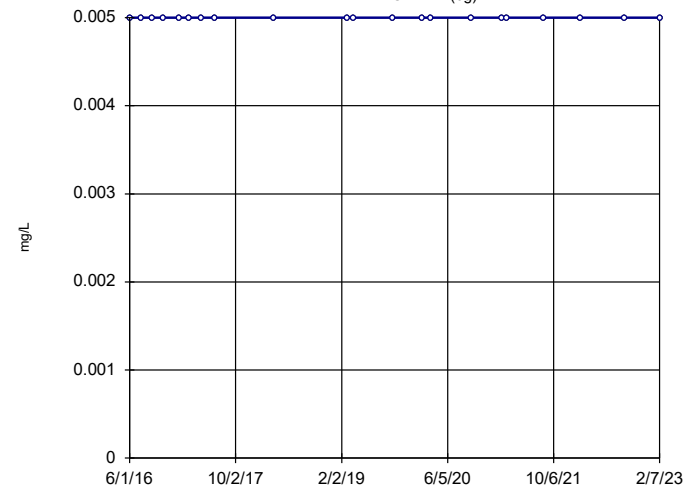


n = 21
Slope = 0
units per year.
Mann-Kendall
statistic = 0
critical = 87
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Selenium Analysis Run 4/26/2023 11:41 AM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-1I (bg)

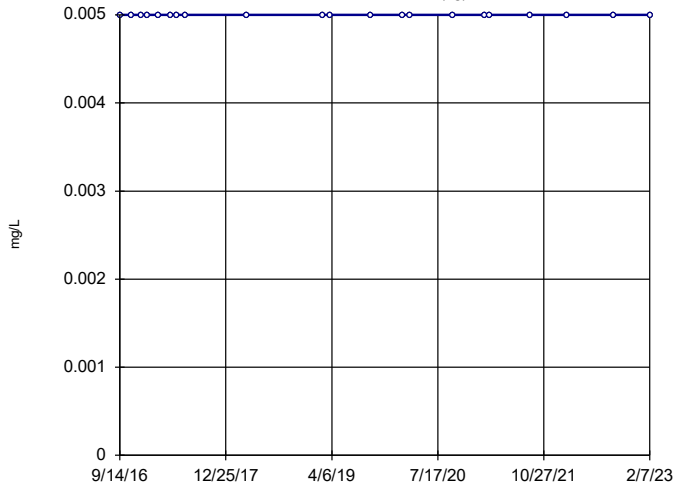


n = 21
Slope = 0
units per year.
Mann-Kendall
statistic = 0
critical = 87
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Selenium Analysis Run 4/26/2023 11:41 AM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-21 (bg)

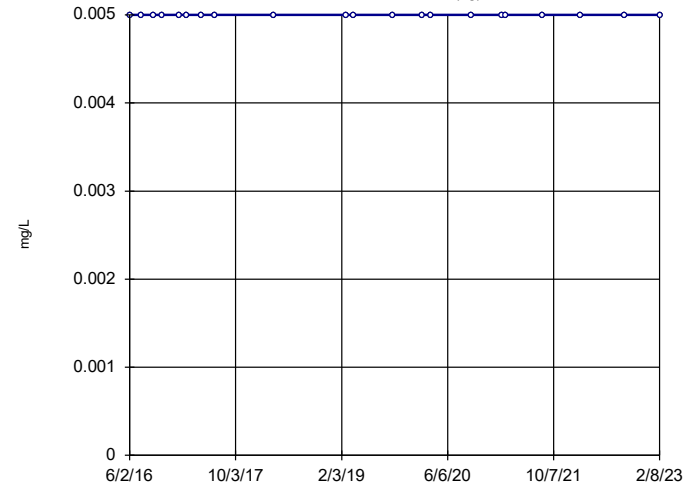


n = 21
Slope = 0
units per year.
Mann-Kendall
statistic = 0
critical = 87
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Selenium Analysis Run 4/26/2023 11:41 AM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-30I (bg)

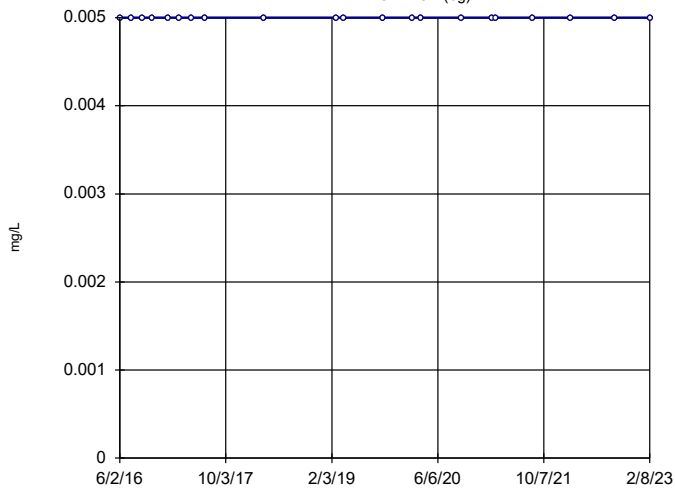


n = 21
Slope = 0
units per year.
Mann-Kendall
statistic = 0
critical = 87
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Selenium Analysis Run 4/26/2023 11:41 AM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-3D (bg)

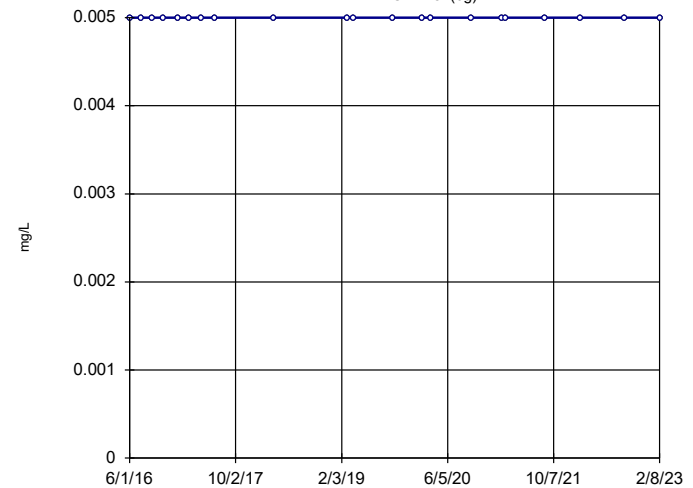


n = 21
Slope = 0
units per year.
Mann-Kendall
statistic = 0
critical = 87
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Selenium Analysis Run 4/26/2023 11:41 AM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-3I (bg)

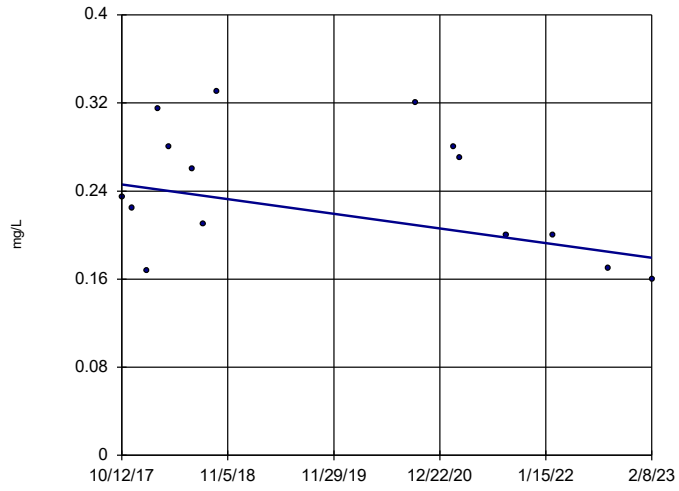


n = 21
Slope = 0
units per year.
Mann-Kendall
statistic = 0
critical = 87
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Selenium Analysis Run 4/26/2023 11:41 AM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

PZ-37



n = 15
Slope = -0.01245
units per year.
Mann-Kendall
statistic = -29
critical = -53
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Selenium Analysis Run 4/26/2023 11:41 AM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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